Lost Pines Groundwater Conservation District

Permit Applications:

(Form 100 Well Drilling Application)

(Form 200 Operating/Transport Permit Application)

Manville Water Supply Corporation

Blue Well #8

FORM 100
Well Drilling Application

For District Use Only:

10/26/2022
Application Date

58 39 90065
Well Drilling Permit Number

Return this Form to: LPGCD, PO Box 1027 (908 Loop 230), Smithville, TX 78957
Phone: 512-360-5088 FAX: 512-360-5448 Email: lpgcd@lostpineswater.org

SECTION I – APPLICANT

Name _____

Company (if applicable) Manville Water Supply Corporation

Street (or PO Box) P.O. Box 248

City Coupland State TX Zip 78615

Phone Number (512) 856 - 2488

SECTION II – DRILLING SITE DESCRIPTION

Physical Description of Proposed Drilling Site (use GPS coordinates if known.)

Lee County C.R. 309 North of FM 696 Blue Well # 8 30 24' 14.00 N 97 8' 57.60" West

County that the Drilling Site is Located in: Bastrop _____ Lee X

Is the proposed well located within a neighborhood or subdivision? Yes_____ No X

If Yes, which neighborhood or subdivsion? N/A

SECTION III – AUTHORIZATION TO DRILL

Is the Applicant the same as the Property Owner of the Proposed Drilling Site? Yes X No_____

If Property Owner is different from Applicant shown in Section I, contact information and a notarized letter of authorization to drill from the property owner **must** be attached to this application.

Lost Pines Groundwater Conservation District
Drilling Registration

Application Number: 58-39-9-0065
Date of Application: 10/26/2022
Owner: Manville Water Supply Corporation
Address: PO Box 248
City, State, Zip Code: Coupland, TX 78615
Type of Well: Municipal Supply

It has been determined that the above applicant plans to drill a water well which would be exempt under Lost Pines Groundwater Conservation District rule 8.6. The applicant has registered the well with the District and may proceed with the d g of the well. The drilling must comply with Lost Pines Groundwater Conservation District rules and must be co...pleted within one hunderd eighty (180) days.

Dana Gourty

James Totten, General Manager
Lost Pines Groundwater Conservation District

10/26/2022

Date

FORM 100
Well Drilling Application

For District Use Only:

_____ Application Date
_____ Well Drilling Permit Number

Return this Form to: LPGCD, PO Box 1027 (908 Loop 230), Smithville, TX 78957
Phone: 512-360-5088 FAX: 512-360-5448 Email: lpgcd@lostpineswater.org

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Name _____

Company (if applicable) Manville Water Supply Corporation

Street (or PO Box) P.O. Box 248

City Coupland State TX Zip 78615

Phone Number (512) 856-2488

SECTION II – DRILLING SITE DESCRIPTION

Physical Description of Proposed Drilling Site (use GPS coordinates if known.)

Lee Co. R.D. 309 North of FM 969 Blue Well No. 8 30 24' 14.00" N 97 8' 57.60" West

County that the Drilling Site is Located in: Bastrop ____ Lee X

Is the proposed well located within a neighborhood or subdivision? Yes____ No X

If Yes, which neighborhood or subdivsion? N/A

SECTION III – AUTHORIZATION TO DRILL

Is the Applicant the same as the Property Owner of the Proposed Drilling Site? Yes X No____

If Property Owner is different from Applicant shown in Section I, contact information and a notarized letter of authorization to drill from the property owner **must** be attached to this application.

SECTION V – WELL INFORMATION

What will be the primary use of the well (circle one)?

Domestic Livestock Irrigation (Municipal Supply) Mining Rig Supply Test Other _____

What is the proposed aquifer that the well will produce from (if known)? Simsboro

What will be the approximate total depth of the well (if known)? 700 feet

Will the Applicant be requesting an exemption under LPGCD Rule 3.1? Yes X No ____

If Yes, type of exemption claimed: N/A

_____ A well that is solely for domestic or livestock use that is incapable of producing more than 25,000 gallons per day (gpd).

_____ A well that uses less than 200 acre-feet/year solely for agricultural use.

_____ A well that is used solely to supply water for a rig that is actively engaged in drilling or exploration operations for an oil or gas well permitted by the Railroad Commission of Texas.

_____ A water well authorized under a permit issued by the Railroad Commission of Texas for mining activities.

_____ A water well drilled and completed solely for the purposes of aquifer testing.

SECTION IV – AFFIRMATION

I certify that all statements and information in this application are true and correct.

Manville Water Supply Corporation

Tony Graf

Signature of Applicant

Tony Graf, General Manager

10-26-22

Date

FORM 200
Operating/Transport Permit Application

For District Use Only:

Application Date
Temporary Permit Number

Return this Form to: LPGCD, PO Box 1027 (908 Loop 230), Smithville, TX 78957
Phone: 512-360-5088 FAX: 512-360-5448 Email: lpgcd@lostpineswater.org

SECTION I – APPLICANT

Name Tony Graf

Company (if applicable) Manville Water Supply Corporation

Street (or PO Box) P.O. Box 248

City Coupland State TX Zip 76615

Phone Number (512) 856-2488

SECTION II – WELL INFORMATION Proposed Blue Well N o 8

What aquifer will the well be producing from? Sims to o

What is the known or proposed total depth of the well? 700 feet

What is the known or proposed screened interval of the well? 600-700 feet

What is the known or proposed capacity of the well? 950 GPM gpm

Is this Application for an existing well already registered with the LPGCD? Yes _____ No X

If Yes, what is the Well Number? N/A

If No, has a Well Drilling Application (Form 100) or Well Registration Application (Form 300) been submitted? Yes X No ____

Well location (use GPS coordinates if known.) 30 24' 1400" N orth 97 8' 57.60" West

County that the well is located in: Bastrop ____ Lee X ___

SECTION III – WITHDRAWAL AMOUNT REQUESTED

What is the total maximum withdrawal requested? 1532 acre-feet/year

Proposed maximum rate at which water will be withdrawn: 950 gpm

Is the Applicant requesting that the withdrawal be aggregated with another well? Yes_____ No X

If Yes, list other wells: N/A

SECTION IV – PROPOSED USE

What is the proposed use of water from the well?

X Municipal Supply ___ Mining ___ Irrigation ___ Other (describe) _____

List proposed usage of water produced from well and the amount of usage:

Use Municipal Amount used 1532 acre-feet/year

Use _____ Amount used _____ acre-feet/year

Use _____ Amount used _____ acre-feet/year

SECTION V – TRANSPORT INFORMATION

Will this well be used to export water outside of the LPGCD? Yes x No _____

If Yes, what is the maximum amount of water proposed to be exported: 1532 acre-feet/year

If Yes, location of the use of the water: Manville WSC CCN Service Area south of Taylor, Thrall & Thorndale

SECTION VI – REQUIRED ATTACHMENTS

The following attachments are required with an Operating Permit Application:

__X__ Location map or property plat showing all registered or permitted wells within 5,000 feet of the proposed location

__X__ Results of a 36-hour pumping test (if the application is for more than 200 acre-feet/year)

__X__ Statement describing how the amount of water requested addresses an existing or projected need, including when that water supply need is projected to occur.

__X__ Statement describing how the amount of water requested will be dedicated to a beneficial use.

__X__ Statement identifying the End User of the requested water or that the End User has not been identified.

__X__ Applicant's or End User's Water Conservation Plan (if available)

__X__ Applicant's or End User's Drought Contingency Plan (if available)

__X__ Applicant's or End User's Well Closure Plan or declaration that the applicant will comply with well plugging guidelines and report closure to the TCEQ.

_____ Any other information (describe)_____

SECTION VII – DECLARATIONS

The Applicant agrees to the following conditions:

__X__ I agree to avoid waste and achieve water conservation.

__X__ I agree that reasonable diligence will be used to protect groundwater quality.

__X__ I agree that well plugging guidelines will be followed at the time of well closure.

Tony Thrap — 10-26-22

Signature of Applicant — Date

SECTION VIII – AFFIRMATION AND EXECUTION

I certify that all statements and information in this application are true and correct.
Tony Graf, General Manager
Manville Water Supply Corporation

Tony Graf
Signature of Applicant

10-26-22
Date

THE STATE OF **TEXAS**

COUNTY OF _____

I certify that the following person (s) personally appeared before me on this day, each acknowledging to me that he or she signed this Operating/Transport Permit Application.

Date: 10-26-22

Sharon Kreidel
Signature of Notary

Sharon Kreidel
Printed Name of Notary

My commission expires: 11-30-25

NOTARY PUBLIC STATE OF TEXAS
SHARON KREIDEL
Notary ID #131366458
My Commission Expires
November 30, 2025

(seal)

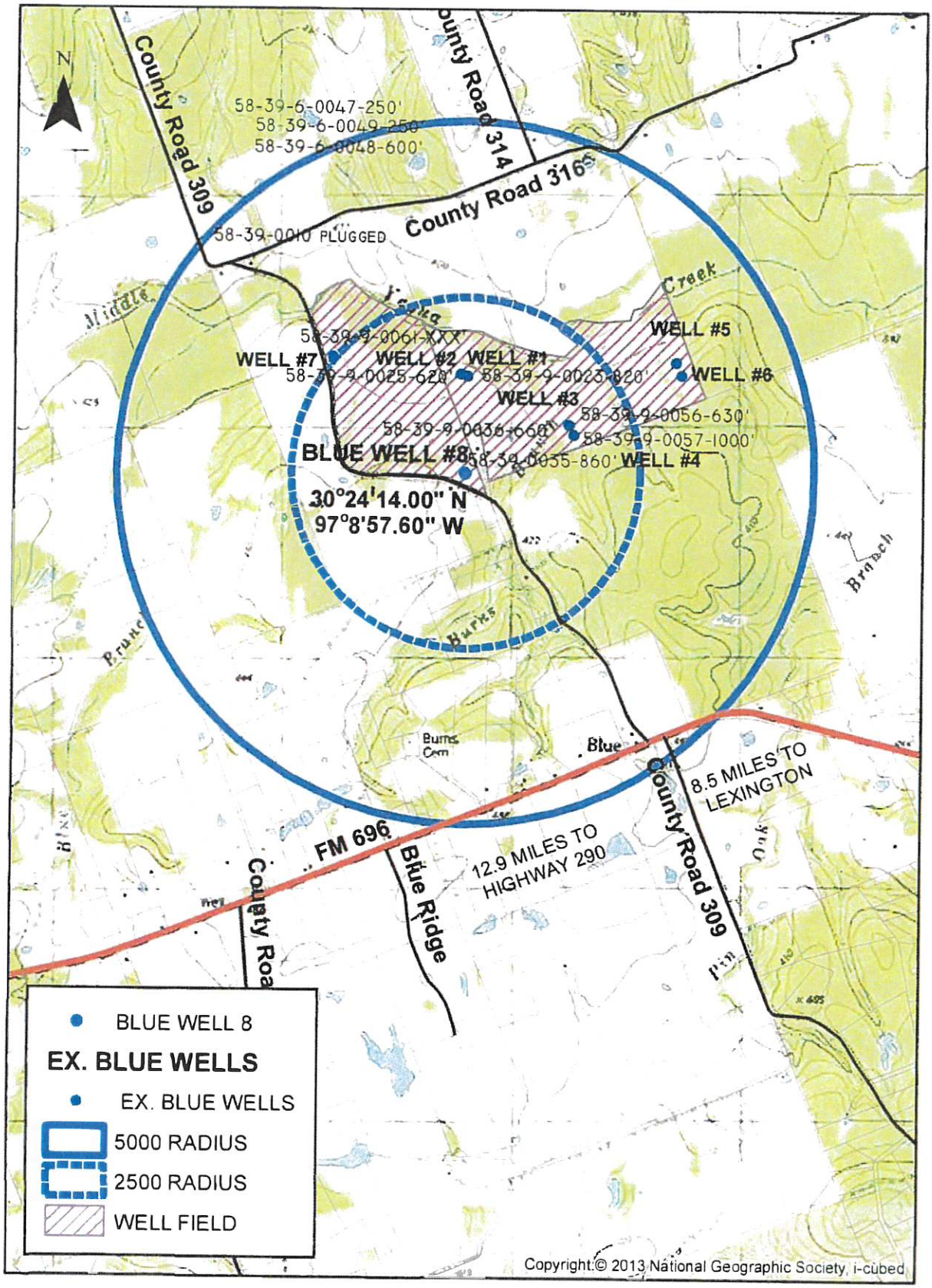
Can be notarized by any Notary of your choice or at the LPGCD Office.

MANVILLE WATER SUPPLY CORPORATION

PROPOSED BLUE WELL #8

WELL LOCATION MAP

MANVILLE W.S.C.- BLUE WELL #8



1 inch = 2,000 feet

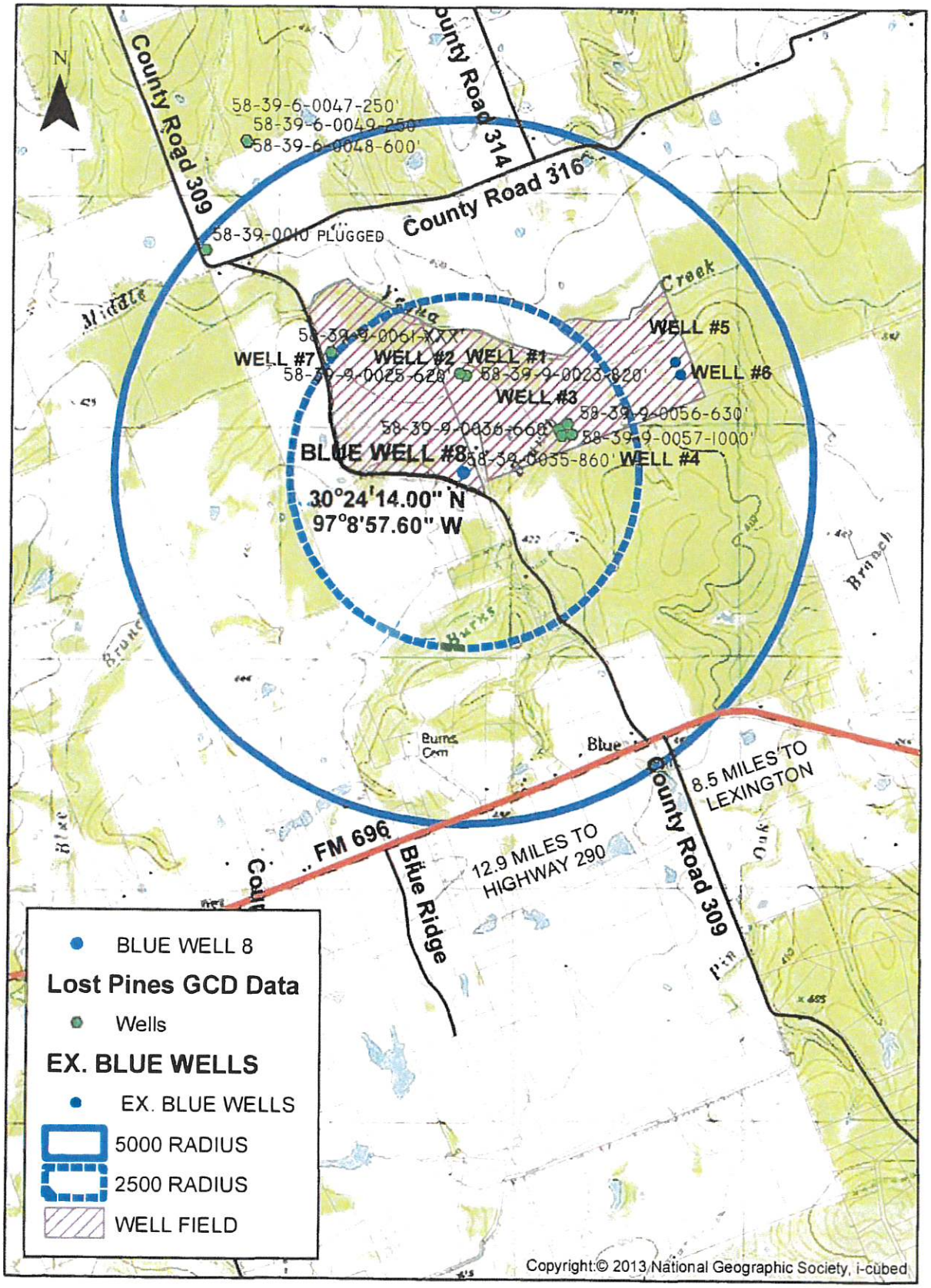
LEE COUNTY

MANVILLE WATER SUPPLY CORPORATION

PROPOSED BLUE WELL #8

LOST PINES GCD
PERMITTED WELLS

MANVILLE W.S.C.- BLUE WELL #8



1 inch = 2,000 feet

LEE COUNTY

MANVILLE WATER SUPPLY CORPORATION

RECORD OF EXISTING 36 HOUR PUMPING TEST ON THE SEVEN (7) EXISTING WELLS LOCATED IN THE MANVILLE BLUE WELL FIELD CONDUCTED AT THE TIME THE WELLS WERE DRILLED

MANVILLE WATER SUPPLY CORPORATION
EXISTING BLUE WELLFIELD

PUMPING TEST 36 HOURS

1-22-02 LEE COUNTY WELL #1 STATIC LEVEL 73 FT.

1,400 GALLONS PER MINUTE

TIME	DEPTH TO WATER	DRAW DOWN	RATE
9:05 PM	176.3	103.3	1,400 GPM
9:00 AM	211.8	138.8	1,400 GPM
9:00 PM	216.5	143.5	1,400 GPM
9:00 AM	219.5	146.5	1,400 GPM
3 HR. RECOVERY	211.0	89.0	0 GPM

5-11-04 LEE COUNTY WELL #2 STATIC LEVEL 61 FT.

1,500 GALLONS PER MINUTE

TIME	DEPTH TO WATER	DRAW DOWN	RATE
12:02 PM	246.0	185.0	1,500 GPM
12:00 AM	342.8	281.8	1,500 GPM
12:00 PM	347.9	286.9	1,500 GPM
12:00 AM	352.9	291.9	1,500 GPM
2 HR. RECOVERY	111.0	50.0	0 GPM

2-20-08 LEE COUNTY WELL #3 STATIC LEVEL 90 FT.

1,840 GALLONS PER MINUTE

TIME	DEPTH TO WATER	DRAW DOWN	RATE
7:01 AM	220.5	130.5	1,840 GPM
12:00 PM	300.3	210.3	1,840 GPM
12:00 AM	315.0	225.0	1,840 GPM
12:00 PM	322.1	232.1	1,840 GPM
7:00 PM	324.5	234.5	1,840 GPM
1.5 HR RECOVERY	168.3	125.8	0 GPM

1-15-08 LEE COUNTY WELL #4 STATIC LEVEL 84.8 FT.

1,020 GALLONS PER MINUTE

TIME	DEPTH TO WATER	DRAW DOWN	RATE
7:31 AM	219.0	134.2	1,020 GPM
12:00 PM	333.6	248.8	1,020 GPM
12:00 AM	358.2	273.4	1,020 GPM
12:00 PM	369.8	285.0	1,020 GPM
7:30 PM	370.4	285.6	1.020 GPM
2 HR. RECOVERY	209.0	142.0	0 GPM

6-10-09 LEE COUNTY WELL #5 STATIC LEVEL 98.5 FT.

1,560 GALLONS PER MINUTE

TIME	DEPTH TO WATER	DRAW DOWN	RATE
10:00 AM	256.15	157.65	1,560 GPM
12:00 PM	280.96	182.46	1,560 GPM
12:00 AM	301.46	302.96	1,560 GPM
12:00 PM	311.40	312.90	1,560 GPM
10:00 PM	318.41	319.91	1,560 GPM
1 HR. RECOVERY	154.31	137.61	0 GPM

6-03-09 LEE COUNTY WELL #6 STATIC LEVEL 165.7 FT.

1,400 GALLONS PER MINUTE

TIME	DEPTH TO WATER	DRAW DOWN	RATE
7:35 AM	292.20	126.50	1,400 GPM
12:30 PM	346.57	180.87	1,400 GPM
12:30 AM	366.88	201.16	1,400 GPM
12:30 PM	378.86	213.16	1,400 GPM
7:30 PM	386.20	220.50	1,400 GPM
1 HR RECOVERY	256.61	224.26	0 GPM

3-13-22 LEE COUNTY WELL #7 STATIC LEVEL 152.48 FT.

1,500 GALLONS PER MINUTE

TIME	DEPTH TO WATER	DRAW DOWN	RATE
3:10 PM	269.34	116.86	1,500 GPM
3: AM	317.18	164.79	1,500 GPM
3: AM	372.82	175.34	1,500 GPM
3: AM	334.98	182.50	1,500 GPM
5 HR RECOVERY	177.43	24.95	0 GPM

MANVILLE WSC FORM 200
SECTION VI - REQUIRED ATTACHMENTS

OPERATING/TRANSPORT PERMIT APPLICATION

Description of the need for the water from the proposed Blue Well #8

The water from the proposed Blue Well #8 will be utilized upon completion and acceptance of the well. The Well will pump the water into the existing Ground Storage Tank located on the site and the existing booster pumps will pump the water into the Manville wSC distribution system serving the rural service area located south of Taylor, Thrall and Thorndale. The well water is needed to reliably meet peak demand and the TCEQ requirements of 0.6 gpm supply per residential customers.

Manville Water Supply Corporation

MANVILLE WSC FORM 200
SECTION VI - REQUIRED ATTACHMENTS

OPERATING/TRANSPORT PERMIT APPLICATION

Description of beneficial use of requested 1,532 acre feet/year.

The water from the proposed Manville WSC Blue Well #8 will be used to provide water to individual rural residential homes within the Manville service area located south of Taylor, Thrall and Thorndale.

Manville WSC is a non-profit water supply corporation owned by its customers. This area has experienced a healthy rural population growth over the past twenty (20) years and continues to grow.

Manville Water Supply Corporation

MANVILLE WSC FORM 200
SECTION VI - REQUIRED ATTACHMENTS

OPERATING/TRANSPORT PERMIT APPLICATION

BLUE WELL #8

Description of End Users of the requested water.

The End Users of the requested 1,532 acre-feet/year of water supply are the rural families living in the Manville service area located south of Taylor, Thrall and Thorndale.

Manville Water Supply Corporation

MANVILLE WATER SUPPLY CORPORATION

WATER CONSERVATION PLAN

AND

DROUGHT CONTINGENCY PLAN

JANUARY 2016

J.F. FONTAINE & ASSOCIATES, INC.
700 N. SYCAMORE
P.O. BOX 4187
PALESTINE, TEXAS 75802

INTRODUCTION

The Manville Water Supply Corporation, in an effort to conserve the fresh water supply of the area, will update their program to educate the members of the Corporation on reasons for water conservation and methods of water conservation.

The Corporation's service area's current supply is from ground water (Edwards Aquifer, Colorado River Alluvium, and the Carrizo-Wilcox Aquifer) and surface water supply contracts with the City of Pflugerville. Twelve (12) deep wells are in the Edwards Aquifer, six (6) deep wells are in the Colorado River Alluvium and ten (10) deep wells are in the Carrizo-Wilcox Aquifer. The Corporation has a one point nine million gallon per day (1.9) supply contract with the City of Pflugerville, a three million gallon per day (3) supply contract with Blue Water Systems and a one million gallon per day (1) contract with Hornsby Bend Colorado River Alluvium.

The Corporation serves approximately 17,487 users within their service area, with the predominant users being single family residences.

The Corporation is aware of the growing need to conserve its water supply. It is the goal of the Manville Water Supply Corporation to promote overall water conservation upon implementation of this conservation plan. Achieving this goal would, in effect, increase the capability of the water supply facilities.

This goal is to reduce the per capita water use by the members by 2% or 2.3 gallons per day within 5 years and 4% or 4.6 gallons per day within 10 years. This goal will serve as the basis for evaluating the effectiveness of the Water Conservation Program and will provide a guide to identify possible modifications that may be needed to better meet the Corporation's conservation objectives.

The water loss in gallons per capita per day is 10 gpcd.

The water loss goal is to reduce the per capita water loss by 1% or 0.10 gpcd within 5 years and 2% or 0.20 gpcd within 10 years. This goal will serve as the basis for evaluating the effectiveness of the water loss reduction program.

TABLE OF CONTENTS

Texas Water Development Board

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

Fill out this form as completely as possible.
If a field does not apply to your entity, leave it blank.

CONTACT INFORMATION

Name of Utility: Manville Water Supply Corporation

Public Water Supply Identification Number (PWS ID): 2270033

Certificate of Convenience and Necessity (CCN) Number: 11144

Surface Water Right ID Number: _____

Wastewater ID Number: _____

Completed By: Rexanne Pilkenton Title: Assistant to GM

Address: 108 North Commerce Street City: Coupland Zip Code: 78615

Email: rexannep@manvillewsc.org Telephone Number: 512-856-2488

Date: 6/24/16

Regional Water Planning Group: G/K Map

Groundwater Conservation District: _____ Map

Check all that apply:

- ☐ Received financial assistance of $500,000 or more from TWDB
- ☑ Have 3,300 or more retail connections
- ☐ Have a surface water right with TCEQ

Section I: Utility Data

A. Population and Service Area Data

1. Current service area size in square miles: 250
(Attach or email a copy of the service area map.)

2. Provide historical service area population for the previous five years, starting with the most current year.

Year	Historical Population Served By Retail Water Service	Historical Population Served By Wholesale Water Service	Historical Population Served By Wastewater Service
2015	27,384	33,819	
2014	25,398	31,356	
2013	24,846	28,920	
2012	27,325	27,189	
2011	27,094	25,722	

3. Provide the projected service area population for the following decades.

Year	Projected Population Served By Retail Water Service	Projected Population Served By Wholesale Water Service	Projected Population Served By Wastewater Service
2020	31,492	38,892	
2030	40,940	50,560	
2040	53,222	65,728	
2050	69,189	85,447	
2060	89,946	111,081	

4. Describe the source(s)/method(s) for estimating current and projected populations.

Billing records.

B. System Input

Provide system input data for the previous five years.

Total System Input = Self-supplied + Imported – Exported

Year	Self-supplied Water in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2015	1,147,828,451	979,814,040	1,127,723,375	999,919,116	100
2014	1,136,185,262	902,065,950	1,027,265,220	1,010,985,992	109
2013	1,176,119,600	916,241,750	976,295,663	1,116,065,687	123
2012	1,516,431,700	746,647,580	1,035,721,660	1,227,357,620	123
2011	1,799,205,200	698,309,000	1,040,222,600	1,457,291,600	147
Historic 5-year Average	1,355,154,043	848,615,664	1,041,445,704	1,162,324,003	120

C. Water Supply System (Attach description of water system)

1. Designed daily capacity of system 23,800,000 **gallons** per day.
2. Storage Capacity:
   Elevated 3,200,000 **gallons**
   Ground 9,150,000 **gallons**

3. List all current water supply sources in gallons.

Water Supply Source	Source Type*	Total Gallons
Manville Wells	Ground	17,510,000
Pflugerville	Contract	1,900,000
Blue Water	Contract	3,000,000
Alcoa	Contract	390,000
Hornsby Bend	Contract	1,000,000
	Choose One	

*Select one of the following source types: *Surface water, Groundwater, or Contract*

4. If surface water is a source type, do you recycle backwash to the head of the plant?
   ○ Yes _____ estimated **gallons** per day
   ◉ No

D. Projected Demands

1. Estimate the water supply requirements for the next ten years using population trends, historical water use, economic growth, etc.

Year	Population	Water Demands (gallons)
2015	61,203	2,233,909,500
2016	63,039	2,300,926,300
2017	64,930	2,369,953,800
2018	66,878	2,512,150,200
2019	70,801	2,587,514,500
2020	73,018	2,665,139,400
2021	75,208	2,745,093,200
2022	77,464	2,827,445,800
2023	82,112	2,912,268,400
2024	84,575	2,999,636,500

2. Describe sources of data and how projected water demands were determined. Attach additional sheets if necessary.

Supply - well capacity and water purchase contracts.

Projection - approximately 3% per year

Storage - existing storage tanks

Demand - water system records

E. High Volume Customers

1. List the annual water use, in gallons, for the five highest volume **RETAIL customers**. Select one of the following water use categories to describe the customer; choose Residential, Industrial, Commercial, Institutional, or Agricultural.

Retail Customer	Water Use Category*	Annual Water Use	Treated or Raw
Tex Mix Concrete	Commercial	6,910,489	Treated
Travis County Park	Commercial	4,016,884	Treated
Pflugerville ISD	Commercial	3,042,890	Treated
Alamo Concrete	Commercial	2,616,905	Treated
Triple Crown Dog Academy	Commercial	2,158,626	Treated

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

2. If applicable, list the annual water use for the five highest volume **WHOLESALE customers**. Select one of the following water use categories to describe the customer; choose Municipal, Industrial, Commercial, Institutional, or Agricultural.

Wholesale Customer	Water Use Category*	Annual Water Use	Treated or Raw
Lakeside WCID 1 & 2	Municipal	332,130,200	Treated
Williamson Co WSID #3	Municipal	177,348,486	Treated
Kelly Lane WCID 1 & 2	Municipal	170,776,700	Treated
North Travis Co Mud #5	Municipal	168,537,273	Treated
City of Hutto	Municipal	122,668,000	Treated

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

F. Utility Data Comment Section

Provide additional comments about utility data below.

Billing records.

Section II: System Data

A. Retail Connections

1. List the active retail connections by major water use category.

Water Use Category*	Active Retail Connections			
	Metered	Unmetered	Total Connections	Percent of Total Connections
Residential – Single Family	8,242		8,242	93%
Residential – Multi-family (units)	250		250	3%
Industrial			0	0%
Commercial	382		382	4%
Institutional			0	0%
Agricultural			0	0%
TOTAL	8,874	0	8,874	

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

2. List the net number of new retail connections by water use category for the previous five years.

Water Use Category*	Net Number of New Retail Connections				
	2015	2014	2013	2012	2011
Residential – Single Family	155	260	157	99	157
Residential – Multi-family (units)					
Industrial					
Commercial	6	10	6	4	6
Institutional					
Agricultural					
TOTAL	161	270	163	103	163

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

B. Accounting Data

For the previous five years, enter the number of gallons of RETAIL water provided in each major water use category.

Water Use Category*	Total Gallons of Retail Water				
	2015	2014	2013	2012	2011
Residential - Single Family	852,580,508	762,137,438	882,472,948	864,864,618	1,102,534,621
Residential – Multi-family	14,601,000	8,545,344	8,761,226	12,200,488	17,090,300
Industrial					
Commercial	90,088,966	82,166,382	89,060,436	91,354,017	116,740,060
Institutional					
Agricultural					
TOTAL	957,270,474	852,849,164	980,294,610	968,419,123	1,236,364,981

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

C. Residential Water Use

For the previous five years, enter the residential GPCD for single family and multi-family units.

Water Use Category*	Residential GPCD				
	2015	2014	2013	2012	2011
Residential - Single Family	94	89	105	106	158
Residential – Multi-family	53	31	32	45	62

D. Annual and Seasonal Water Use

1. For the previous five years, enter the gallons of treated water provided to RETAIL customers.

Month	Total Gallons of Treated Retail Water				
	2015	2014	2013	2012	2011
January	52,682,173	59,774,672	56,355,308	51,877,380	63,323,260
February	53,235,685	50,253,427	61,936,438	50,011,330	58,094,390
March	58,300,500	54,683,341	65,804,202	53,580,584	80,132,104
April	65,769,382	83,950,489	76,335,895	76,496,328	101,132,030
May	58,807,214	83,510,096	83,529,998	79,992,907	119,332,742
June	80,092,062	76,535,765	118,066,510	113,939,455	155,407,418
July	112,039,261	95,590,416	106,742,931	96,768,012	171,970,859
August	136,555,918	97,977,176	120,689,734	119,247,611	193,160,970
September	111,789,073	78,177,369	96,500,350	100,518,321	144,255,279
October	98,898,922	67,692,335	69,297,308	71,682,763	104,541,260
November	69,533,312	49,271,281	63,198,717	79,968,340	92,664,530
December	59,566,972	55,432,797	61,837,219	74,336,092	59,099,649
TOTAL	957,270,474	852,849,164	980,294,610	968,419,123	1,343,114,491

2. For the previous five years, enter the gallons of raw water provided to RETAIL customers.

Month	Total Gallons of Raw Retail Water				
	2015	2014	2013	2012	2011
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
TOTAL	0	0	0	0	0

3. Summary of seasonal and annual water use.

Water Use	Seasonal and Annual Water Use					Average in Gallons
	2015	2014	2013	2012	2011	
Summer Retail (Treated + Raw)	328,687,241	270,103,357	345,499,175	329,955,078	520,539,247	358,956,820 / 5yr Average
TOTAL Retail (Treated + Raw)	957,270,474	852,849,164	980,294,610	968,419,123	1,343,114,491	1,020,389,572 / 5yr Average

E. Water Loss

Provide Water Loss data for the previous five years.

Water Loss GPCD = [Total Water Loss in Gallons ÷ Permanent Population Served] ÷ 365

Water Loss Percentage = [Total Water Loss ÷ Total System Input] x 100

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss as a Percentage
2015	144,633,663	14	14%
2014	116,201,846	13	11%
2013	87,610,523	10	8%
2012	89,829,848	9	7%
2011	78,433,344	8	5%
5-year average	103,341,845	11	9%

F. Peak Water Use

Provide the Average Daily Water Use and Peak Day Water Use for the previous five years.

Year	Average Daily Use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2015	3,624,703	11,272,000	3.11
2014	3,173,162	9,411,000	2.97
2013	3,222,259	7,039,700	2.18
2012	4,166,767	8,879,300	2.13
2011	5,118,880	11,568,600	2.26

G. Summary of Historic Water Use

Water Use Category	Historic 5-year Average	Percent of Connections	Percent of Water Use
Residential SF	892,918,027	93%	0%
Residential MF	12,239,672	3%	0%
Industrial	0	0%	0%
Commercial	93,881,972	4%	0%
Institutional	0	0%	0%
Agricultural	0	0%	0%

H. System Data Comment Section

Provide additional comments about system data below.

N/A

Texas Water Development Board

Section III: Wastewater System Data

If you do not provide wastewater system services then you have completed the Utility Profile. Save and Print this form to submit with your Plan. Continue with the Water Conservation Plan Checklist to complete your Water Conservation Plan.

A. Wastewater System Data (Attach a description of your wastewater system.)

1. Design capacity of wastewater treatment plant(s): _____ **gallons** per day.

2. List the active wastewater connections by major water use category.

Water Use Category*	Active Wastewater Connections			
	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal			0	0%
Industrial			0	0%
Commercial			0	0%
Institutional			0	0%
Agricultural			0	0%
TOTAL	0	0	0	

2. What percent of water is serviced by the wastewater system? ____%

3. For the previous five years, enter the number of gallons of wastewater that was treated by the utility.

Month	Total Gallons of Treated Wastewater				
	2015	2014	2013	2012	2011
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
TOTAL	0	0	0	0	0

N/A

4. Can treated wastewater be substituted for potable water?

◯ Yes ◯ No

B. Reuse Data

1. Provide data on the types of recycling and reuse activities implemented during the current reporting period.

Type of Reuse	Total Annual Volume (in gallons)
On-site irrigation	
Plant wash down	
Chlorination/de-chlorination	
Industrial	
Landscape irrigation (parks, golf courses)	
Agricultural	
Discharge to surface water	
Evaporation pond	
Other	
TOTAL	0

C. Wastewater System Data Comment

Provide additional comments about wastewater system data below.

You have completed the Utility Profile. Save and Print this form to submit with your Plan. Continue with the Water Conservation Plan Checklist to complete your Water Conservation Plan.

Appendix A

Definitions of Utility Profile Terms

1. **Residential** sales should include water sold to residential (Single and Multi-Family) class customers only.
Industrial sales should include water sold to manufacturing and other heavy industry.
Commercial sales should include water sold to all retail businesses, offices, hospitals, etc
Wholesale sales should include water sold to another utility for a resale to the public for human consumption.

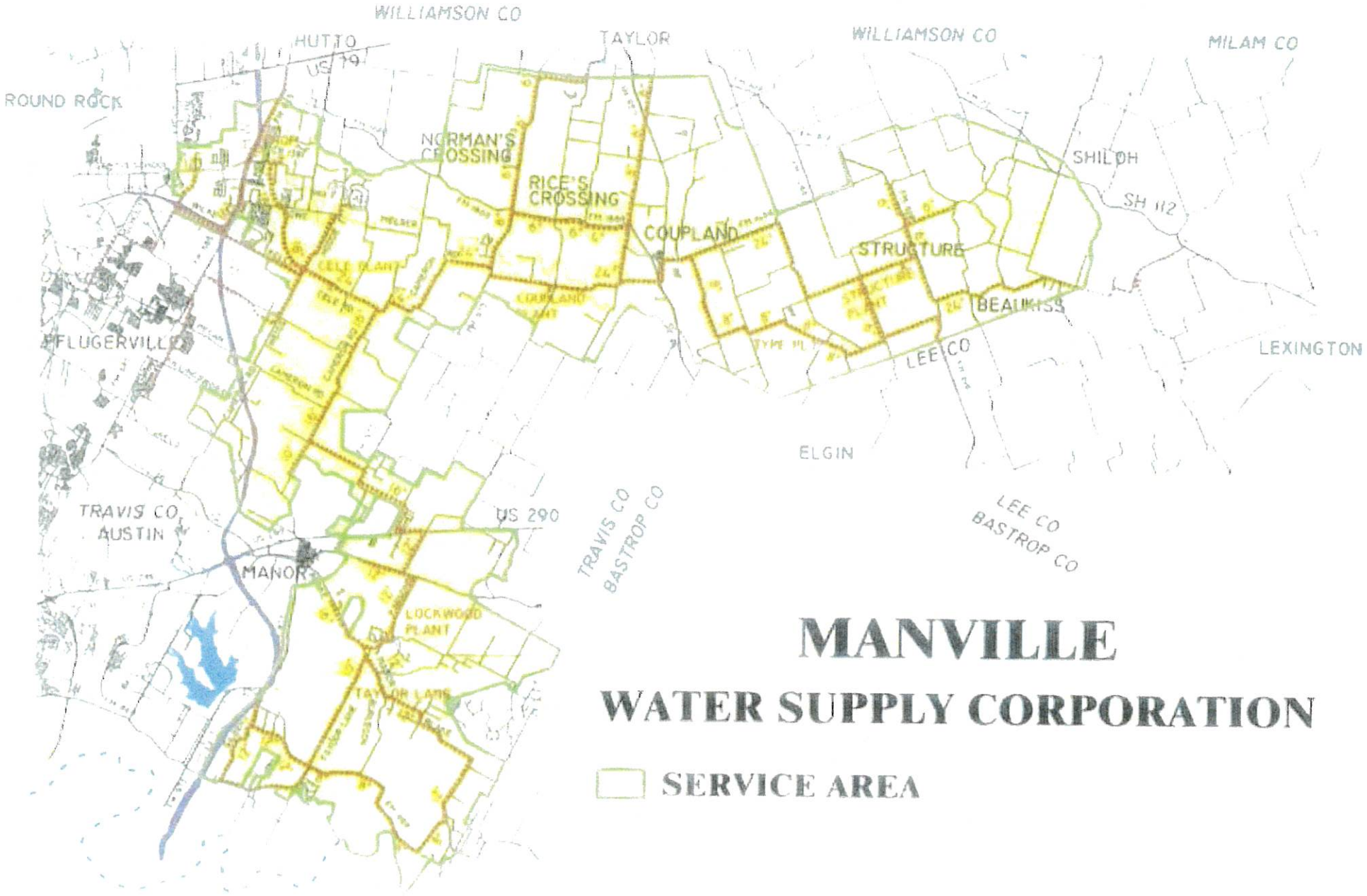
2. **Water Loss** is the difference between water a utility purchases or produces and the amount of water that it can account for in sales and other known uses for a given period. Water loss can result from:

   1. inaccurate or incomplete record keeping;
   2. meter error;
   3. unmetered uses such as firefighting, line flushing, and water for public buildings and water treatment plants;
   4. leaks; and
   5. water theft and unauthorized use.

3. The **peak-day to average-day ratio** is calculated by dividing the maximum daily pumpage (in million gallons per day) by the average daily pumpage. Average daily pumpage is the total pumpage for the year (as reported in Section IIA1, p. 4) divided by 365 and expressed in million gallons per day.

4. **Total use in gallons per capita per day** is defined as total average daily amount of water diverted or pumped for treatment for potable use by a public water supply system. The calculation is made by dividing the water diverted or pumped for treatment for potable use by population served then divide by 365. Indirect reuse volumes shall be credited against total diversion volumes for the purpose of calculation gallons per capita per day for targets and goals developed for the water conservation plan. Total water use is calculated by subtracting the wholesale sales from the total water diverted or treated (as reported in Section IIA1).

5. **Seasonal water use** is the difference between base (winter) daily per capita use and summer daily per capita use. To calculate **the base daily per capita use**, average the monthly diversions for December, January, and February, and divide this average by 30. Then divide this figure by the population. To calculate the **summer daily per capita use**, use the months of June, July, and August.


WILLIAMSON CO
HUTTO
US 79
TAYLOR
WILLIAMSON CO
MILAM CO
ROUND ROCK
NORMAN'S CROSSING
RICE'S CROSSING
COUPLAND
SHILOH
SH 112
STRUCTURE
BEAUMISS
LEE CO
LEXINGTON
FLUGERVILLE
ELGIN
TRAVIS CO
AUSTIN
US 290
MANOR
TRAVIS CO
BASTROP CO
LEE CO
BASTROP CO
LOCKWOOD PLANT
TAYLOR LANE
MANVILLE
WATER SUPPLY CORPORATION
SERVICE AREA

Public Utility Commission of Texas

By These Presents Be It Known To All That

MANVILLE WATER SUPPLY CORPORATION

having duly applied for certification to provide water utility service for the convenience and necessity of the public, and it having been determined by this Commission that the public convenience and necessity would in fact be advanced by the provision of such service by this Applicant, is entitled to and is hereby granted this

Certificate of Convenience and Necessity

numbered 11144 , to provide water utility service to that service area or those service areas designated by final Order or Orders duly entered by this Commission, which Order or Orders are on file at the Commission offices in Austin, Texas; and are matters of official record available for public inspection; and be it known further that these presents do evidence the authority and the duty of this Grantee to provide such utility service in accordance with the laws of this State and the Rules of this Commission, subject only to any power and responsibility of this Commission to revoke or amend this Certificate in whole or in part upon a subsequent showing that the public convenience and necessity would be better served thereby.

Issued at Austin, Texas, this 1st day of November, 1979.

Philip F. Ricketts
SECRETARY OF THE COMMISSION

Residential

EFFECTIVE 01/01/16

MANVILLE WATER SUPPLY CORPORATION

METER SIZES AND COST

Meter Size	C.R. Fees	Membership Fee	Meter, Inspection and Installation	Total *	*Residential*
5/8" X 3/4"	2,800.00	100.00	955.00	$ 3,855.00	$ 20.12
3/4" X 3/4"	2,800.00	100.00	1,050.00	$ 3,950.00	$ 31.95
1"	5,600.00	100.00	1,120.00	$ 6,820.00	$ 43.75

* Additional charges may apply.

Conservation Rate-Effective January 1, 2016

- 1 to 6,000 gallons - $2.82 per thousand gallons
- The next 6,001 to 10,000 gallons - $3.10 per thousand gallons
- The next 10,001 to 20,000 gallons - $3.41 per thousand gallons
- The next 20,001 to 30,000 gallons - $3.75 per thousand gallons
- The next 30,001 to 50,000 gallons - $4.50 per thousand gallons
- The next 50,001 gallons and over - $5.72 per thousand gallons

Commercial

EFFECTIVE 01/01/16

MANVILLE WATER SUPPLY CORPORATION

METER SIZES AND COST

Meter Size	C.R. Fees	Membership Fee	Meter, Inspection and Installation	Total *	*Commercial*
5/8" X 3/4"	2,800.00	100.00	955.00	$ 3,855.00	$ 20.12
3/4" X 3/4"	2,800.00	100.00	1,050.00	$ 3,950.00	$ 35.25
1"	5,600.00	100.00	1,120.00	$ 6,820.00	$ 50.31

* Additional charges may apply.

Conservation Rate-Effective January 1, 2016

- 1 to 6,000 gallons - $3.14 per thousand gallons
- The next 6,001 to 10,000 gallons - $3.25 per thousand gallons
- The next 10,001 to 20,000 gallons - $3.41 per thousand gallons
- The next 20,001 to 30,000 gallons - $3.75 per thousand gallons
- The next 30,001 to 50,000 gallons - $4.50 per thousand gallons
- The next 50,001 gallons and over - $5.72 per thousand gallons

MWSC is an equal opportunity provider and employer.

Residential

EFFECTIVE 01/01/16

MANVILLE WATER SUPPLY CORPORATION

METER SIZES AND COST

Cost during Mandatory Water Restrictions Stage 3/ Stage 4

Meter Size	C.R. Fees	Membership Fee	Meter, Inspection and Installation	Total *	*Residential*
5/8" X 3/4"	2,800.00	100.00	955.00	$ 3,855.00	$ 20.12
3/4" X 3/4"	2,800.00	100.00	1,050.00	$ 3,950.00	$ 31.95
1"	5,600.00	100.00	1,120.00	$ 6,820.00	$ 43.75

* Additional charges may apply.

Drought Rate-Effective January 1, 2016

- 1 to 6,000 gallons - $2.82/$2.82 per thousand gallons
- The next 6,001 to 10,000 gallons - $4.10/$5.10 per thousand gallons
- The next 10,001 to 20,000 gallons - $4.40/$5.40 per thousand gallons
- The next 20,001 to 30,000 gallons - $4.75/5.75 per thousand gallons
- The next 30,001 to 50,000 gallons - $5.50/6.50 per thousand gallons
- The next 50,001 gallons and over - $8.72/11.72 per thousand gallons

Commercial

EFFECTIVE 01/01/16

MANVILLE WATER SUPPLY CORPORATION

METER SIZES AND COST

Cost during Mandatory Water Restrictions Stage 3/ Stage 4

Meter Size	C.R. Fees	Membership Fee	Meter, Inspection and Installation	Total *	*Commercial*
5/8" X 3/4"	2,800.00	100.00	955.00	$ 3,855.00	$ 20.12
3/4" X 3/4"	2,800.00	100.00	1,050.00	$ 3,950.00	$ 35.25
1"	5,600.00	100.00	1,120.00	$ 6,820.00	$ 50.31

* Additional charges may apply.

Conservation Rate-Effective January 1, 2016

- 1 to 6,000 gallons - $3.14/$3.14 per thousand gallons
- The next 6,001 to 10,000 gallons - $4.25/$5.25 per thousand gallons
- The next 10,001 to 20,000 gallons - $4.41/$5.41 per thousand gallons
- The next 20,001 to 30,000 gallons - $4.75/$5.75 per thousand gallons
- The next 30,001 to 50,000 gallons - $5.50/$6.50 per thousand gallons
- The next 50,001 gallons and over - $8.72/$11.72 per thousand gallons

MWSC is an equal opportunity provider and employer.

PUBLIC INVOLVEMENT

A. PUBLIC AT LARGE

Manville Water Supply Corporation holds regular Board meetings once each month. These meetings are open to the public and anyone is invited to speak to the Board. At these meetings, the Board hears the concerns of the public which helps their decision making process.

B. SPECIAL INTEREST GROUPS

Manville Water Supply Corporation has created a conservation commission consisting of two (2) Board Members, and the General Manager to administer conservation policies and to evaluate trigger conditions.

OPERATING PROCEDURES

1. Education and Information

1.1 The Manville Water Supply Corporation will promote water conservation by informing the public of ways to conserve water. The following methods will be used to inform the water users and will be conducted each year.

1.1.1 Include water conservation tips, and outdoor and lawn watering conservation tips with a monthly statement.

1.1.2 One (1) direct mail-out.

1.1.3 Direct mailing before the peak use periods (May-September) will be made each year.

1.1.4 At the initiation of the conservation program mail outs containing the general program, drought contingency restrictions, indoor water conservation tips, outdoor and lawn watering conservation tips, plumbing recommendations and retrofit devices for existing plumbing fixtures, will be sent to each user.

1.1.5 All printed information will be provided to all new customers at the time they sign up for service.

1.2 Suggestions on ways to save water.

1.2.1 Bathroom

1.2.1.1 Take a shower instead of taking a tub bath.

1.2.1.2 Install a low-flow shower head which restricts the quantity of flow at 60 psi to no more that 3.0 gallons per minute.

1.2.1.3 Shower as quickly as possible.

1.2.1.4 Reduce the level of the water being in a bath tub by one or two inches if a shower is not available.

1.2.1.5 Turn water off while brushing teeth.

1.2.1.6 Shampoo hair while showering.

1.2.1.7 Use hot water in the lavatory when shaving.

1.2.1.8 Test toilets for leaks. To test for a leak, a few drops of food coloring can be added to water in the tank.

If the coloring appears in the bowl within a few minutes, the fixture needs adjustment or repair.

1.2.1.9 Use a toilet displacement device. A one-gallon plastic milk bottle can be filled with water, recapped, and placed in the toilet tank.

1.2.1.10 Install a new low-volume flush toilet that uses 3.5 gallons or less per flush when building a new home or remodeling a bathroom.

1.2.2 Kitchen

1.2.2.1 Never run the dishwasher without a full load.

1.2.2.2 Use the disposal sparingly.

1.2.2.3 Keep a container of drinking water in the refrigerator.

1.2.2.4 Use a small pan of cold water when cleaning vegetables rather that letting the faucet run.

1.2.2.5 Use only a little water in the pot and put a lid on it for cooking most food.

1.2.2.6 Always keep water conservation in mind, and think of other ways to save in the kitchen.

1.2.3 Laundry

1.2.3.1 Wash only a full load when using an automatic washing machine.

1.2.3.2 Use the lower water level setting on the washing machine for light loads.

1.2.4 Appliances and Plumbing

1.2.4.1 Check water requirements of various models and brands when considering purchasing any new appliances that uses water.

1.2.4.2 Check all water line connections and faucets for leaks. A slow drip can waste as much as 170 gallons of water EACH DAY, or 5,000 gallons per month, and can add as much as $10.00 per month to the water bill.

1.2.4.3 Learn to replace faucet washers so that drips can be corrected promptly.

1.2.4.4 Check for water leakage between the water meter and the house. To check, all indoor and outdoor faucets should be turned off, and the water meter should be checked. If it continues to run or turn, a leak probably exists and needs to be located.

1.2.4.5 Use a moisture meter to determine when house plants need water. More plants die from over-watering that from being on the dry side.

1.2.5 Out-of-Door Use

1.2.5.1 Water lawns early in the morning during the hotter summer months.

1.2.5.2 Use a sprinkler that produces large drops of water, rather that a find mist, to avoid evaporation.

1.2.5.3 Turn soaker hoses so the holes are on the bottom to avoid evaporation.

1.2.5.4 Water slowly for better absorption, and never water in high winds.

1.2.5.5 Condition the soil with compost before planting grass of flower beds so that water will soak in rather than run off.

1.2.5.6 Fertilize lawn at least twice a year for root stimulation.

1.2.5.7 Water the lawn only when necessary.

1.2.5.8 An inch of water applied every 5 to 7 days will keep most Texas grasses alive and healthy.

1.2.5.9 Adjust automatic sprinkler systems frequently according to need.

1.2.5.10 Do not scalp lawns when mowing during hot weather. Taller grass holds moisture better.

1.2.5.11 Use a water can or hand water with the hose in small areas of the lawn that need more frequent watering (those near walks or driveways or in especially hot, sunny spots).

1.2.5.12 Consider decorating areas of the lawn with rocks, gravel, wood chips or other materials now available that require no water at all.

1.2.5.13 Do not "sweep" walks and driveways with water.

1.2.5.14 Use a bucket of soapy water and use the hose only for rinsing when washing the car.

2. Plumbing Codes

The Manville Water Supply Corporation does not have the authority to govern the installation of plumbing facilities. The Corporation will encourage the installation of plumbing fixtures that will aid in water conservation.

3. Retrofit Program

Customers in existing building which do not have water saving devices will be encouraged to replace their old plumbing fixtures. The advertising program will help inform them of the advantages of installing water saving devises.

4. Water Rate Structures

A water rate structure which encourages water conservation has been implemented. The rate structure includes a uniform rate with a minimum monthly charge.

5. Metering

The Corporation currently meters 100% of the water used. The Corporation has a policy of testing all meters which appear to have abnormally high or low water usage. Incorporated into the Water Conservation Plan, the Corporation will set up the following meter testing schedule:

1. Production meters - test once a year.
2. Meters larger than 1" - test once a year.
3. Meters 1" and smaller - test every ten years.

6. Water Conservation Landscaping

The Corporation does not have the authority to establish subdivisions regulations which would require developers to plant only low water using plants and grasses. The information program will include plants and grasses. The information program will include suggestions on landscaping and irrigation procedures which will save water usage and money.

7. Leak Detection and Repair

The Corporation has a leak detection program which will be maintained. The program includes:

7.1 Monthly water use accounting by the billing which identifies high water use after the service meters including leaks.

7.2 Constant monitoring of storage tanks which identifies major water main breaks.

7.3 Daily visual inspection by meter readers and Corporation employees who keep constant watch for abnormal conditions indicating leaks.

7.4 An adequate maintenance staff which is available to repair leaks on a 24 hour basis.

8. Implementation and Enforcement

The Water Conservation Plan will be enforced by the following methods:

8.1 A copy of the Water Conservation Plan will be given to each new member when they sign up for water.

8.2 The Corporation's water rates encourage retrofitting of old plumbing fixtures which are using large amounts of water.

8.3 The water rate structure will be enforced because people who do not pay their water bill will have their water disconnected.

9. Conservation Plan Annual Report

The Manager of the Corporation will give a report to the annual membership (stockholders-customers) meeting which addresses the progress and effectiveness of the Water Conservation Plan. The report will address:

1. Implementation progress and status.
2. Public Response.
3. Effectiveness of the water conservation program in reducing water use.

WATER CONSERVATION PLAN
5- AND 10-YR GOALS FOR WATER SAVINGS

Facility Name: Manville WSC

Water Conservation Plan Year: 2016

	Historic 5yr Average	Baseline	5-yr Goal for year 2021	10-yr Goal for year 2026
Total GPCD[1]	120	120	118	115
Residential GPCD[2]	78	78	77	75
Water Loss (GPCD)[3]	11	11	10	9
Water Loss (Percentage)[4]	9 %	9 %	8 %	8 %

1. Total GPCD = (Total Gallons in System ÷ Permanent Population) ÷ 365
2. Residential GPCD = (Gallons Used for Residential Use ÷ Residential Population) ÷ 365
3. Water Loss GPCD = (Total Water Loss ÷ Permanent Population) ÷ 365
4. Water Loss Percentage = (Total Water Loss ÷ Total Gallons in System) x 100; or (Water Loss GPCD ÷ Total GPCD) x 100

MANVILLE WATER SUPPLY CORPORATION
DROUGHT CONTINGENCY PLAN
RETAIL AND WHOLESALE

Manville Water Supply Corporation
Drought Contingency Plan

Section I: Declaration of Policy, Purpose & Intent

In order to conserve the available water supply and/or to protect the integrity of water supply facilities, with particular regard for domestic water use, sanitation, and fire protection, and to protect and preserve public health, welfare, and safety and minimize the adverse impacts of water supply shortage or other water supply emergency conditions, the Manville Water Supply Corporation adopts the following Drought Contingency Plan (the Plan).

Section II: Public Involvement

Opportunity for the public and wholesale water customers to provide input into the preparation of the Plan was provided by Manville Water Supply Corporation by means of scheduling and a public meeting to accept input on the Plan on December 13, 2001.

Section III: Wholesale and Member (Retail) Water Customer Education

The Manville Water Supply Corporation will periodically provide wholesale water and retail customers with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage. This information will be provided in the systems consumer confidence report.

ction IV: Coordination with Regional Water Planning Groups

The water service area of the Manville Water Supply Corporation is located within the Region G & K Planning Areas. Manville WSC has provided a copy of the Plan to the Region G & K Planning Group.

Section V: Authorization

The manager or his/her designee is hereby authorized and directed to implement the applicable provisions of this Plan upon determination that such implementation is necessary to protect public health, safety, and welfare. The manager or his/her designee shall have the authority to initiate or terminate drought or other water supply emergency response measures as described in this Plan.

Section VI: Application

The provisions of this Plan shall apply to all customers utilizing water provided by the Manville WSC. The terms "a person" and "a customer" as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

Section VII: Triggering Criteria for Initiation and Termination of Drought Response Stages

The manager or his/her designee shall monitor water supply and/or demand conditions on a regular (e.g., ekly, monthly) basis and shall determine when conditions warrant initiation or termination of each stage of e Plan. Customer notification of the initiation or termination of drought response stages will be made by mail or telephone.

The triggering criteria described below are based on analysis of the vulnerability of the water source and system under drought conditions.

(a) Stage 1 - Mild Drought Conditions

Requirements for initiation - The Manville Water Supply Corporation will recognize that a mild drought condition exists when one or more of the following conditions exist:

a. Average daily water use has reached 75 percent of system & production capacity for three (3) consecutive days.
b. Total production of wells drops by 20%.

Requirements for termination - Stage 1 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist and an emergency no longer exists. The Manville WSC will notify its wholesale and retail customers of the termination of Stage 1 in the same manner as the notification of initiation of Stage 1 of the Plan.

(b) Stage 2 - Moderate Drought Conditions

Requirements for initiation - The Manville WSC will recognize that a moderate drought condition exists when one or more of the following conditions exist:

a. Average daily water use is 90 percent of system and production capacity and continues for three (3) consecutive days.
b. Net storage in water tanks decreases for three (3) consecutive days. Example: The highest recorded water level drops 10 feet or more for three (3) consecutive days.
c. Total production of wells falls by an additional 15%.

equirements for termination - Stage 2 of the Plan may be rescinded when all of the conditions listed as ggering events have ceased to exist and an emergency no longer exists. Upon termination of Stage 2, Stage becomes operative. The Manville WSC will notify its wholesale and retail customers of the termination of Stage 2 in the same manner as the notification of initiation of Stage 1 of the Plan.

(c) Stage 3 - Severe Drought Conditions

Requirements for initiation - The Manville WSC will recognize that a severe drought condition exists when one or more of the following conditions exist:

a. Failure of a major component of the system or an event that would cause an immediate health or safety hazard.
b. Water demand exceeds system capacity for more than 24 hours.
c. Production is at 100% and storage tank levels are decreasing at a rate exceeding 5% per day.
d. Total production of wells falls by an additional 15%.

Requirements for termination - Stage 3 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 30 consecutive days. Upon termination of Stage 3, Stage 2 becomes operative. The Manville WSC will notify its wholesale and retail customers and the media of the termination of Stage 2 in the same manner as the notification of initiation of Stage 3 of the Plan.

(d) Stage 4 - Emergency Water Shortage Conditions

Requirements for initiation - The Manville WSC will recognize that an emergency water shortage condition exists when one or more of the following conditions exist:

a. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service; or
b. Natural or man-made contamination of the water supplies source(s).

Requirements for termination - Stage 4 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of time required to correct the situation. The Manville WSC will notify its retail and wholesale customers and the media of the termination of Stage 4.

Section VIII: Drought Response Stages

The manager or his/her designee, shall monitor water supply and/or demand conditions and, in accordance with the triggering criteria set forth in Section VI, shall determine that mild, moderate, or severe water shortage conditions exist or that an emergency condition exists and shall implement the following actions:

Stage 1 - Mild Drought Conditions

1. Stage I (voluntary) curtailment will allow the Corporation to request users to restrict the use of water for outdoor watering, automobile washing, pool filling, etc., on alternating days as determined by the last digit of the physical address of the property. Customers living in subdivisions/neighborhoods that have the same physical address should go by the lot number that refers to their property.

2. The Manager or his/her designee(s), will contact wholesale water customers to discuss water supply and/or demand conditions and will request that wholesale water customers initiate voluntary measures to reduce water use (e.g., implement Stage 1 of the customer's drought contingency plan).

Stage 2 - Moderate Drought Conditions

1. Stage II (Mandatory) curtailment will allow the Corporation to restrict the use of water for outdoor watering, automobile washing, pool filling, etc., on alternating days as determined by the last digit of the physical address of the property. Customers living in subdivisions/neighborhoods that have the same physical address should go by the lot number that refers to their property. The Corporation may also suspend any construction water contracts that may be in effect at the time.

2. Demand Management Measures:

   (a) The manager or his/her designee(s), will initiate monthly contact with wholesale water customers to discuss water supply and/or demand conditions and the possibility of pro rata curtailment of water diversions and/or deliveries.

   (b) The manager or his/her designee(s) will request wholesale water customers to initiate mandatory measures to reduce non-essential water use as authorized by existing contracts (e.g., implement Stage 2 of the customer's drought contingency plan).

   (c) The manager or his/her designee(s), will initiate preparations for the implementation of pro rata curtailment of water diversions and/or deliveries by preparing a monthly water usage allocation baseline for each wholesale customer according to the procedures specified in Section VI of the Plan.

3. (a) The quantified target for water use reduction to be achieved by Stage II enactment is the reduction of average daily water use by 10%.

Stage 3 - Severe Drought Conditions

1. Stage III (Mandatory) curtailment will allow the Corporation to prohibit all outdoor watering and outdoor water use except for those customers who depend on the water for the livelihood of their businesses. Manville may also prohibit the filling of newly constructed pools, the watering of any newly installed lawns and the washing of automobiles.

2. Demand Management Measures:

   (a) The manager, or his/her designee(s), will contact wholesale water customers to discuss water supply and/or demand conditions and will request that wholesale water customers initiate additional mandatory measures to reduce non-essential water use (e.g., implement Stage 3 of the customer's drought contingency plan).

3. The quantified target for water use reduction to be achieved by Stage III enactment is the reduction of average daily water use by 15%.

Stage 4 - Emergency Water Shortage Conditions

Whenever emergency water shortage conditions exist as defined in Section VII of the Plan, the manager shall:

1. Assess the severity of the problem and identify the actions needed and time required to solve the problem.

2. Inform the utility director or other responsible official of each wholesale water customer by telephone or in person and suggest actions, as appropriate, to alleviate problems (e.g., notification of the public to reduce water use until service is restored).

3. If appropriate, notify city, county, and/or state emergency response officials for assistance.

4. Undertake necessary actions, including repairs and/or clean up as needed.

5. The manager, or his/her designee(s), will initiate pro rata curtailment of water diversions and/or deliveries for each wholesale customer according to the procedures specified in Section VI of the Plan.

Section IX: Pro Rata Water Allocation

In the event that the triggering criteria specified in Section VII of the Plan for Stage 4 — Emergency Water Shortage Conditions have been met, the manager is hereby authorized to initiate allocation of water supplies on a pro rata basis in accordance with Texas Water Code Section 11.039 and according to the following water allocation policies and procedures as allowed by current wholesale water contracts:

(a) A wholesale customer's monthly allocation shall be a percentage of the customer's water usage baseline.

The percentage will be set by resolution of the board of directors based on the manager's assessment of the severity of the water shortage condition and the need to curtail water diversions and/or deliveries and may be adjusted periodically by resolution of the board of directors as conditions warrant. Once pro rata allocation is in effect, water diversions by or deliveries to each wholesale customer shall be limited to the allocation established for each month.

(b) The manager, or his/her designee, for each wholesale customer shall establish a monthly water usage allocation. The wholesale customer's water usage baseline will be computed on the average water usage by month for the 1994-1998 period as shown in the example given below. If the wholesale water customer's billing history is less than 5 years, the monthly average for the period for which there is a record shall be used for any monthly period for which no billing history exists.

Example Calculation of Monthly Allocation for a Hypothetical Wholesale Water Customer

	1994	1995	1996	1997	1998	SUM	AVE	ALLOCATION PERCENTAGE	MONTHLY ALLOCATION
Jan	133	137	146	148	156	719	144	75%	108
Feb	115	122	133	133	147	650	130	75%	98
March	130	150	146	149	159	734	147	75%	110
April	130	167	168	157	187	808	162	75%	122
May	160	152	179	183	171	845	169	75%	127
June	226	184	172	205	249	1,035	207	75%	155
July	235	274	232	314	246	1,301	260	75%	195
Aug	222	203	206	337	309	1,277	255	75%	191
Sept	199	160	196	229	198	982	196	75%	147
Oct	165	172	197	165	185	884	177	75%	133
Nov	139	142	149	153	162	745	149	75%	112
Dec	142	143	150	156	165	755	151	75%	113
Total	1,995	2,006	2,072	2,330	2,333		2,333		

*UNITS IN ACRE-FEET

(c) The manager shall provide notice, by certified mail, to each wholesale customer informing them of their monthly water usage allocations and shall notify the news media and the executive director of the Texas Natural Resource Conservation Commission upon initiation of pro rata water allocation.

(d) Upon request of the customer or at the initiative of the manager, the allocation may be reduced or increased if, (1) the designated period does not accurately reflect the wholesale customer's normal water usage; (2) the customer agrees to transfer part of its allocation to another wholesale customer; or (3) other objective evidence demonstrates that the designated allocation is inaccurate under present conditions. A customer may appeal an allocation established hereunder to the Manville WSC Board of Directors.

Section X: Enforcement

1). For the first violation of Drought Response — Stage 2 measures and above including Stages 3 and 4, a written and/or verbal notice of the violation shall be issued. If verbal notice is not possible, the employee giving notice will turn off the faucet/spicket that supplies water to the sprinkler or hose.

For subsequent violations, Manville WSC may terminate service, subject to contract provisions for wholesale tomers, for up to 7 days and charge the Corporations current reconnection charge to restore service.

iese provisions apply to all customers of the Corporation.

Section XI: Variances

The manager, or his/her designee, may, in writing, grant a temporary variance to the plan including pro rata water allocation policies provided by this Plan if it is determined that failure to grant such variance would cause an emergency condition adversely affecting the public health, welfare, or safety and if one or more of the following conditions are met:

(a) Compliance with this Plan cannot be technically accomplished during the duration of the water supply shortage or other condition for which the Plan is in effect.

(b) Alternative methods can be implemented which will achieve the same level of reduction in water use.

Persons requesting an exemption from the provisions of this Plan shall file a petition for variance with the manager within 5 days after drought response stage has been invoked and notice has been given. All petitions for variances shall include the following:

(a) Name and address of the petitioner(s).
(b) Detailed statement with supporting data and information as to how the pro rata allocation of water under the policies and procedures established in the Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Ordinance.
(c) Description of the relief requested.
(d) Period of time for which the variance is sought.
Alternative measures the petitioner is taking or proposes to take to meet the intent of this Plan and the compliance date.
(f) Other pertinent information.

Variances granted by the Manville WSC be subject to the following conditions, unless waived or modified by the board of directors or its designee:

(a) Variances granted shall include a timetable for compliance.

(b) Variances granted shall expire when the Plan is no longer in effect, unless the petitioner has failed to meet specified requirements.

No variance shall be retroactive or otherwise justify any violation of this Plan occurring prior to the issuance of the variance.

Section XII: Severability

It is hereby declared to be the intention of the Manville WSC that the sections, paragraphs, sentences, clauses, and phrases of this Plan are severable and, if any phrase, clause, sentence, paragraph, or section of this Plan shall be declared unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such unconstitutionality shall not affect any of the remaining phrases, clauses, sentences, paragraphs, and sections of this Plan, since the same would not have been enacted by the Manville WSC without the incorporation into

this Plan of any such unconstitutional phrase, clause, sentence, paragraph, or section.

Section XIII:

For good cause shown, the Board may grant variances or exceptions to compliance with any stage of curtailment for the benefit of a public or private educational institution, upon such conditions as the Board may deem reasonable and appropriate and in furtherance of the educational purposes of such institutions.
(added September 13, 2012)

See Exhibit A, Manville WSC Tariff – Drought rate surcharge for Stage 3 & Stage 4.

MANVILLE WATER SUPPLY CORPORATION

A RESOLUTION OF THE BOARD OF DIRECTORS ADOPTING A WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY.

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF MANVILLE WATER SUPPLY CORPORATION:

ITEM 1. That the Water Conservation Plan and Drought Continency Plan attached hereto is hereby adopted as the official policy of Manville Water Supply Corporation.

ITEM 2. That the General Manager is hereby directed to implement, administer and enforce the Drought Contingency Plan.

ITEM 3. That the resolution shall take effect immediately upon its passage.

DULY PASSED BY THE BOARD OF DIRECTORS OF MANVILLE WATER SUPPLY CORPORATION , ON THIS THE 14th DAY OF JULY, 2016

Jack Atterstrom, President, Board of Directors

Larry Hodde, Secretary Manville Board of Directors

MANVILLE WATER SUPPLY CORPORATION

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MANVILLE WATER SUPPLY CORPORATION
SECTION VI - REQUIRED ATTACHMENTS

OPERATING/TRANSPORT PERMIT APPLICATION

BLUE WELL #8

Compliance with plugging guides lines and closure compliance and report to TCEQ.

Manville Water Supply Corporation will comply with all plugging guidelines and report closure to TCEQ.

Manville Water Supply Corporation

REAL PROPERTY RECORDS
LEE COUNTY, TX
2020-02458 08/05/2020 at 11:19:00 AM

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

General Warranty Deed 20059642

Date: July 30, 2020

Grantor: Wilburn B. Laubach and Carol Ann Laubach, a married couple

Grantor's Mailing Address:

Wilburn B. Laubach and Carol Ann Laubach
8400 Shenandoah Drive
Austin, TX 78753

Grantee: Manville Water Supply Corporation, a Texas corporation

Grantee's Mailing Address:

Manville Water Supply Corporation
P. O. Box 248
Coupland, TX 78615

Consideration:

TEN AND NO/100 DOLLARS ($10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged.

Property (including any improvements):

Being 100.743 acres of land out of the Joseph Jackson Survey, Abstract No. 175, Lee County, Texas, and being particularly described by metes and bounds in Exhibit A attached hereto and made a part hereof for all purposes

Reservations from Conveyance:

None

Exceptions to Conveyance and Warranty:

Validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing restrictions, reservations, covenants, conditions, oil and gas leases, mineral interests, and water interests outstanding in persons other than Grantor, and other instruments, other than conveyances of the surface fee estate, that affect the Property; validly existing rights of adjoining owners in any walls and fences situated on a common boundary; any discrepancies, conflicts, or shortages in area or boundary lines; any encroachments or overlapping of improvements; and taxes for 2020, which Grantee assumes and agrees to pay, and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantee assumes.

Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

GRANTEE IS TAKING THE PROPERTY IN AN ARM'S-LENGTH AGREEMENT BETWEEN THE PARTIES. THE CONSIDERATION WAS BARGAINED ON THE BASIS OF AN "AS IS, WHERE IS" TRANSACTION AND REFLECTS THE AGREEMENT OF THE PARTIES THAT THERE ARE NO REPRESENTATIONS OR EXPRESS OR IMPLIED WARRANTIES. GRANTEE HAS NOT RELIED ON ANY INFORMATION OTHER THAN GRANTEE'S INSPECTION.

When the context requires, singular nouns and pronouns include the plural.

Wilburn B. Laubach

Wilburn B. Laubach

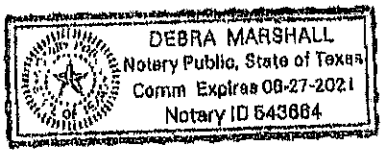
Carol Ann Laubach

Carol Ann Laubach

STATE OF TEXAS)

COUNTY OF WILLIAMSON)

This instrument was acknowledged before me on July 30, 2020, by Wilburn B. Laubach and Carol Ann Laubach.



Notary Public, State of Texas

PREPARED IN THE OFFICE OF:

Law Office of Leland R. Enochs
700 N. Main St.
P. O. Box 751
Taylor, TX 76574
Tel: (512) 352-3626
Fax: (512) 365-5556

AFTER RECORDING RETURN TO:

Longhorn Title Company

EXHIBIT A

STATE OF TEXAS
COUNTY OF LEE

JULY, 2020

100.743 ACRES

These notes describe a certain tract of land located in the **JOSEPH JACKSON SURVEY, ABSTRACT NO. 175,** located in Lee County, Texas; being all of a called "101.248 Acres" conveyed in a Warranty Deed from Ernestine Stifflemire to Wilbur B. Laubach, et ux, Carol Ann Laubach dated 05-07-1987 and recorded in Volume 559, Page 378 of the Real Property Records of Lee County (RPRLC) and being surveyed on the ground under the direct supervision of Bruce Lane Bryan, Registered Professional Land Surveyor No. 4249, during the month of July, 2020; subject tract being more fully described as follows (Bearings described herein are based on the Texas State Plane Coordinate System, Central Zone (4203), NAD 83; Distances and Areas are shown in grid values.):

BEGINNNING at the Southernmost corner of subject tract in the centerline of Lee County Road No. 309 (North = 10,124,664.98 feet, East = 3,300,492.43 feet); set a cotton gin gear spindle at same corner;

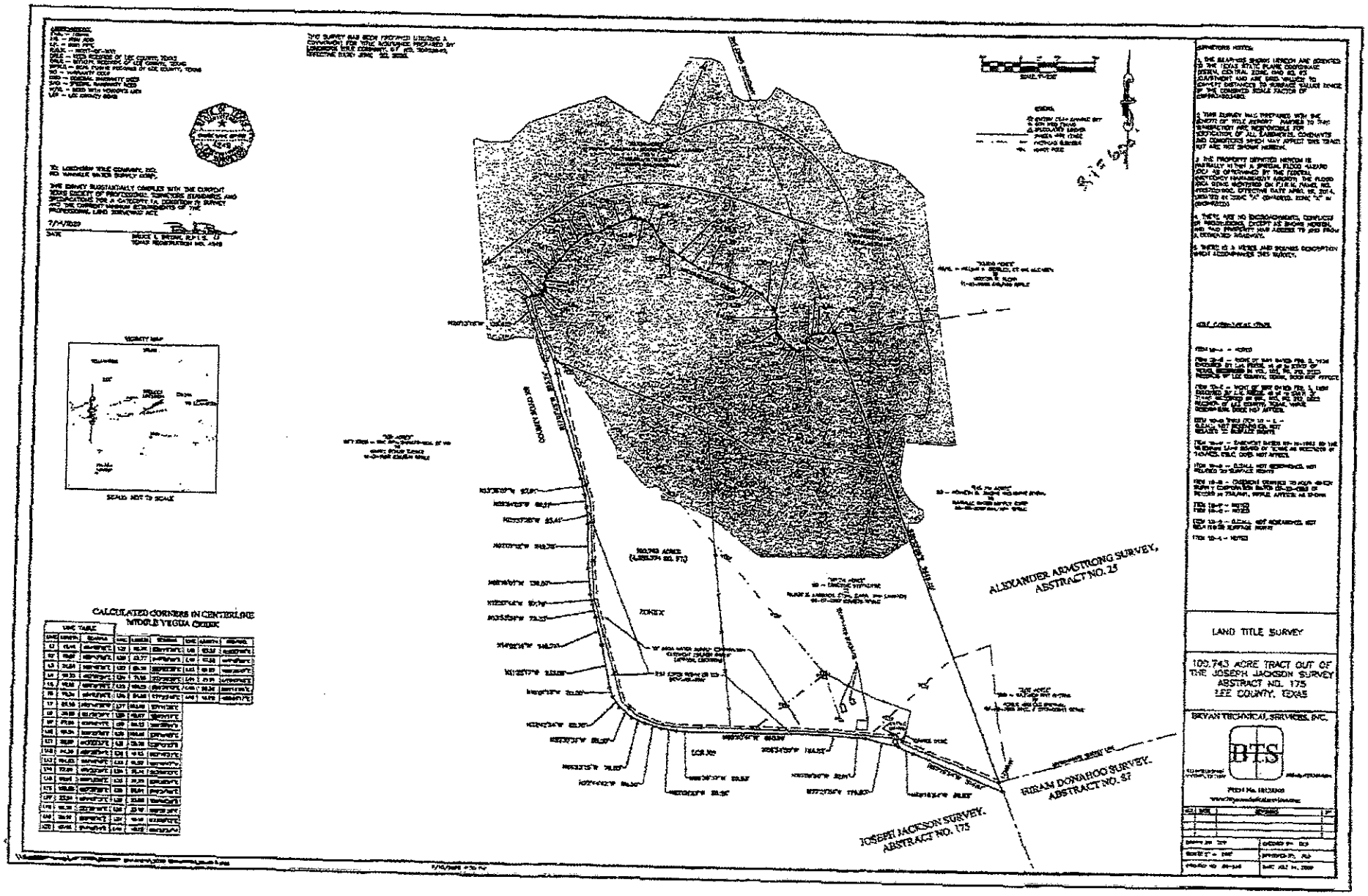
THENCE with the general centerline of said Lee County Road No. 309, same being the South and West line of said "101.248 Acres" as follows:

- North 67° 16' 14" West 514.91 feet to a cotton gin gear spindle set,
- North 68° 16' 54" West 86.88 feet to a cotton gin gear spindle set,
- North 77° 21' 04" West 179.93 feet to a cotton gin gear spindle set,
- North 85° 09' 50" West 82.91 feet to a cotton gin gear spindle set,
- North 86° 54' 50" West 184.82 feet to a cotton gin gear spindle set,
- North 89° 50' 41" West 660.90 feet to a cotton gin gear spindle set,
- North 86° 36' 37" West 86.93 feet to a cotton gin gear spindle set,
- North 82° 08' 23" West 86.28 feet to a cotton gin gear spindle set,
- North 72° 44' 42" West 89.30 feet to a cotton gin gear spindle set,
- North 66° 52' 16" West 76.55 feet to a cotton gin gear spindle set,
- North 52° 39' 31" West 85.20 feet to a cotton gin gear spindle set,
- North 32° 42' 54" West 66.70 feet to a cotton gin gear spindle set,
- North 18° 01' 13" West 55.30 feet to a cotton gin gear spindle set,
- North 11° 35' 17" West 233.69 feet to a cotton gin gear spindle set,
- North 14° 02' 19" West 149.74 feet to a cotton gin gear spindle set,
- North 13° 53' 34" West 72.33 feet to a cotton gin gear spindle set,
- North 12° 57' 46" West 57.79 feet to a cotton gin gear spindle set,
- North 05° 16' 07" West 139.07 feet to a cotton gin gear spindle set,
- North 02° 07' 12" West 242.78 feet to a cotton gin gear spindle set,
- North 05° 57' 28" West 93.41 feet to a cotton gin gear spindle set,
- North 09° 54' 03" West 69.11 feet to a cotton gin gear spindle set,
- North 13° 36' 07" West 87.61 feet to a cotton gin gear spindle set,
- North 17° 57' 45" West 893.74 feet to a cotton gin gear spindle set and

- North 20° 13' 15" West 135.92 feet to a cotton gin gear spindle set in the Middle Yegua Creek Bridge where the centerline of same intersects, same being the Southwest corner of a called "92.950 Acre" tract conveyed to Melissa R. Sledd dated 11-01-1990 and recorded in Volume 640, Page 190, RPRLC and the Northwest corner of aforementioned "101.248 Acres";

THENCE with the general meanders of the centerline of Middle Yegua Creek, same being the common line of said "92.950 Acre" tract and "101.248 Acres" as follows:

- North 64° 49' 19" East 41.44 feet to a calculated point,
- North 80° 43' 56" East 19.99 feet to a calculated point,
- North 84° 16' 19" East 21.24 feet to a calculated point,
- North 62° 01' 34" East 15.73 feet to a calculated point,
- North 38° 19' 59" East 12.60 feet to a calculated point,
- North 04° 23' 36" East 19.35 feet to a calculated point,
- North 03° 40' 52" West 22.93 feet to a calculated point,
- North 17° 01' 39" East 38.95 feet to a calculated point,
- North 31° 02' 41" East 27.90 feet to a calculated point,
- North 33° 35' 30" East 28.26 feet to a calculated point,
- North 43° 22' 57" East 59.59 feet to a calculated point,
- North 37° 03' 54" East 94.39 feet to a calculated point,
- North 51° 10' 15" East 104.03 feet to a calculated point,
- North 79° 53' 19" East 77.29 feet to a calculated point,
- North 56° 13' 52" East 51.96 feet to a calculated point,
- North 67° 38' 55" East 126.25 feet to a calculated point,
- North 79° 42' 52" East 23.24 feet to a calculated point,
- South 82° 27' 36" East 28.35 feet to a calculated point,
- South 69° 40' 10" East 26.97 feet to a calculated point,
- South 54° 46' 18" East 47.59 feet to a calculated point,
- South 30° 22' 26" East 95.30 feet to a calculated point,
- South 46° 30' 50" East 28.77 feet to a calculated point,
- South 53° 03' 39" East 55.39 feet to a calculated point,
- South 57° 20' 39" East 71.15 feet to a calculated point,
- South 60° 39' 12" East 102.20 feet to a calculated point,
- South 71° 55' 46" East 84.30 feet to a calculated point,
- South 71° 11' 38" East 163.93 feet to a calculated point,
- South 59° 51' 17" East 45.67 feet to a calculated point,
- South 62° 35' 01" East 68.53 feet to a calculated point,
- South 38° 18' 09" East 100.69 feet to a calculated point,
- South 30° 15' 53" East 39.78 feet to a calculated point,
- South 02° 49' 37" East 16.93 feet to a calculated point,
- South 01° 19' 47" West 51.53 feet to a calculated point,
- South 13° 56' 23" East 35.41 feet to a calculated point,


ALEXANDER ARMSTRONG SURVEY, ABSTRACT NO. 25
BRIAM DONAHOO SURVEY, ABSTRACT NO. 57
JOSEPH JACKSON SURVEY, ABSTRACT NO. 175
LAND TITLE SURVEY
109.743 ACRE TRACT OUT OF THE JOSEPH JACKSON SURVEY ABSTRACT NO. 175 LEE COUNTY, TEXAS
BRYAN TECHNICAL SERVICES, INC.
BTS
CALCULATED CORNERS IN CENTERLINE MIDDLE YEGUA CREEK

- South 39° 30' 24" East 24.25 feet to a calculated point,
- South 48° 34' 06" East 69.94 feet to a calculated point,
- South 50° 40' 35" East 23.59 feet to a calculated point,
- South 68° 26' 30" East 33.10 feet to a calculated point,
- North 73° 58' 12" East 46.18 feet to a calculated point,
- North 16° 13' 34" West 40.19 feet to a calculated point,
- North 18° 29' 58" East 23.33 feet to a calculated point,
- North 41° 10' 59" East 17.58 feet to a calculated point,
- North 69° 28' 47" East 28.07 feet to a calculated point,
- North 78° 47' 43" East 39.21 feet to a calculated point,
- North 89° 16' 05" East 56.36 feet to a calculated point and
- North 82° 03' 17" East 13.80 feet to a calculated point at the Northeast corner of aforementioned "101.248 Acres", same being the Northwest corner of a called "145.391 Acres" conveyed in a Warranty Deed from Kenneth D. Brown and Marie Brown to Manville Water Supply Corp. dated 03-20-2000 as recorded in Volume 854, Page 394, RPRLC in or near the common survey line of aforementioned **JOSEPH JACKSON SURVEY, ABSTRACT NO. 175** and the **ALEXANDER ARMSTRONG SURVEY, ABSTRACT NO. 25;**

08/06/2020 at 11:19 AM
[illegible]
FILED FOR RECORD
SHARON BLASIG
COUNTY CLERK
LEE COUNTY, TX

THENCE South 20° 53' 06" East with the common line of said "101.248 Acres" and "145.391 Acres" in or near the common survey line of aforementioned **JOSEPH JACKSON SURVEY, ABSTRACT NO. 175,** the **ALEXANDER ARMSTRONG SURVEY, ABSTRACT NO. 25,** passing a found 5/8" iron rod for reference at 164.71 feet and continuing with said line, passing a found 5/8" iron rod at the Southwest corner of a called "2.000 Acres" conveyed to Ashlie Michele Sherril dated 09-09-2015 of record in Instrument No. 2015-03941, Official Public Records of Lee County at 2590.61 feet, same being the apparent Southwest corner of said **ALEXANDER ARMSTRONG SURVEY, ABSTRACT NO. 25** and the Northwest corner of the **HIRAM DONAHOO SURVEY, ABSTRACT NO. 87** and continuing with the East line of said "101.248 Acres" and the approximate common survey line of said **JACKSON AND DONAHOO SURVEYS** an additional 57.85 feet for a total distance of 2648.46 feet to the **PLACE OF BEGINNING,** containing according to the dimensions herein stated an area of **100.743 Acres.**

Surveyor's Note: Attention is invited to accompanying plat for visible utilities, improvements, ingress/egress easements, and roadways. To convert distances to surface values, divide by the combined scale factor of 0.999934603490.

Bruce Lane Bryan Registered Professional Land Surveyor No. 4249

Bryan Technical Services, Inc.
911 North Main, Taylor, Texas 76574
Firm No. 10128500
www.bryantechnicalservices.com

STATE OF TEXAS REGISTERED BRUCE LANE BRYAN 4249 PROFESSIONAL LAND SURVEYOR

Longhorn Title Co., Inc.
3613 WILLIAMS DRIVE, SUITE 204
GEORGETOWN, TX 78628
(512) 869-2661 930-4283

VOL 277 PG 006