

Water Management Plan

1 INTRODUCTION AND OBJECTIVES

Water supply has always been a key issue in the development of Texas. In recent years, the growing population and economic development of North Central Texas has led to increasing demands for water supplies. At the same time, local and less expensive sources of water supply are largely developed. Additional supplies to meet higher demands will be expensive and difficult to develop. It is therefore important to make the most efficient use of existing supplies. This will delay the need for new supplies, minimize the environmental impacts associated with developing new supplies, and delay the high cost of additional water supply development.

Recognizing the need for efficient use of existing water supplies, the Texas Commission on Environmental Quality (TCEQ), the Texas Water Development Board (TWDB), and the North Texas Municipal Water District (NTMWD) have developed guidelines and requirements governing the development of water conservation and drought contingency plans for public water suppliers.¹ TCEQ guidelines and requirements are included in Appendix B. The best management practices established by the Water Conservation Implementation Task Force², established pursuant to SB1094 by the 78th Legislature, were also considered in the development of the water conservation measures.

The water conservation sections of this plan include measures that are intended to result in ongoing, long-term water savings. The drought contingency and water emergency response sections of this plan address strategies designed to temporarily reduce water use in response to specific conditions.

¹ Title 30 of the Texas Administrative Code, Part 1, Chapter 288, Rules 288.1, 288.2, 288.5, 288.20, 288.22, and 288.30 downloaded from [http://texreg.sos.state.tx.us/public/readtac\\$ext.ViewTAC?tac_view=5&ti=30&pt=1&ch=288&sch=A&rl=Y](http://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC?tac_view=5&ti=30&pt=1&ch=288&sch=A&rl=Y), November 2015.

² Water Conservation Implementation Task Force: "Texas Water Development Board Report 362, Water Conservation Best Management Practices Guide," prepared for the Texas Water Development Board, Austin, November 2004.

2 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES

2.1 Conservation Plan Requirements

The elements in the Texas Administrative Code (TAC) TCEQ water conservation rules covered in this plan are listed below.

TCEQ Requirement Section	TCEQ Requirement Description	WMP Section
Minimum Water Conservation Requirements Covered by this Plan		
288.2(a)(1)(A)	Utility Profile	Section 5 and Appendix C
288.2(a)(1)(B)	Record Management System	Section 7.3.3
288.2(a)(1)(C)	Specific, Quantified Goals	Section 7.2
288.2(a)(1)(D)	Accurate Metering	Sections 7.3.1
288.2(a)(1)(E)	Universal Metering	Section 7.3.2
288.2(a)(1)(F)	Determination and Control of Unaccounted Water	Section 7.3.4
288.2(a)(1)(G)	Public Education and Information Program	Section 7.5
288.2(a)(1)(H)	Water Rate Structure	Section 7.6
288.2(a)(1)(I)	Reservoir System Operation Plan	Section 7.7.1
288.2(a)(1)(J)	Means of Implementation and Enforcement	Section 4
288.2(a)(1)(K)	Coordination with Regional Water Planning Group	Section 7.8 and Appendix F
288.2(a)(2)(B)	Requirement for Water Conservation Plans by Wholesale Suppliers	Section 7.7.5
288.2(a)(3)(F)	Considerations for Landscape Water Management Regulations	Section 7.7.4
288.2(c)	Review and Update of Plan	Section 5
Optional Water Conservation Requirements Covered by this Plan		
288.2(a)(2)(A)	Leak Detection, Repair, and Water Loss Accounting	Section 7.3.5
288.2(a)(3)(A)	Conservation Oriented Water Rates	Section 7.6
288.2(a)(3)(B)	Ordinances, Plumbing Codes or Rules on Water-Conserving Fixtures	Section 7.7.3
288.2(a)(3)(C)	Replacement or Retrofit of Water-Conserving Plumbing Fixtures	Section 7.7.3
288.2(a)(3)(D)	Reuse and Recycling of Wastewater	Section 7.7.2
288.2(a)(3)(G)	Monitoring Method	Section 7.4
288.2(a)(3)(H)	Additional Conservation Ordinance Provisions	Section 7.7
Wholesale Water Conservation Requirements Covered by this Plan		
288.5(1)(A)	Description of Service Area	Section 6 and Appendix C
288.5(1)(B)	Five-Year and Ten-Year Water Saving Targets	Section 7.2
288.5(1)(C)	Diversification Measurement Methods	Section 7.3.1

TCEQ Requirement Section	TCEQ Requirement Description	WMP Section
288.5(1)(D)	Monitoring and Record Management Program	Section 7.3.3
288.5(1)(E)	Metering, Leak Detection, and Repair	Section 7.3.5
288.5(1)(F)	Water Supply Contract	Section 7.7.5
288.5(1)(H)	Implementation and Enforcement	Section 4
288.5(1)(I)	Coordination with Regional Water Planning Groups	Section 7.8 and Appendix F

This plan does not cover requirements for the following TCEQ Texas Administrative Code rules since they are not applicable to City of Farmersville uses:

- Texas Administrative Code, Part 1, Chapter 288, Subchapter A, Rule 288.3, Water Conservation Plans for Industrial or Mining Use
- Texas Administrative Code, Part 1, Chapter 288, Subchapter A, Rule 288.4, Water Conservation Plans for Agricultural Use
- Texas Administrative Code, Part 1, Chapter 288, Subchapter A, Rule 288.6, Water Conservation Plans for Any Other Purpose or Use
- Texas Administrative Code, Part 1, Chapter 288, Subchapter A, Rule 288.7, Plans Submitted with a Water Right Application for New or Additional State Water
- Texas Administrative Code, Part 1, Chapter 288, Subchapter A, Rule 288.21, Drought Contingency Plans for Irrigation Use

2.2 Drought Contingency Plan Requirements

The elements in the TAC TCEQ drought contingency rules covered in this plan are listed below.

TCEQ Requirement Section	TCEQ Requirement Description	WMP Section
288.20(a)(1)(A)	Public Information and Feedback Program	Section 8.2
288.20(a)(1)(B)	Continuing Public Education	Section 8.3
288.20(a)(1)(C)	Coordination with Regional Water Planning Group	Section 8.8
288.20(a)(1)(D)	Information to be Monitored for Drought Response Stages	Section 8.5
288.20(a)(1)(E)	Implementation of Drought Response Stages	Section 8.5
288.20(a)(1)(F)	Water Supply and Demand Targets	Section 8.5
288.20(a)(1)(G)	Water Supply and Demand Management Measures	Section 8.5
288.20(a)(1)(H)	Initiation or Termination of Each Drought Response Stage	Section 8.5
288.20(a)(1)(I)	Variances	Section 8.6
288.20(a)(1)(J)	Enforcement	Section 8.7

TCEQ Requirement Section	TCEQ Requirement Description	WMP Section
288.20(b)	Notification of Implementation of any Mandatory Provisions	Section 8.4
288.20(c)	Updates	Section 8.9
288.22(a)(1)	Public Information and Feedback Program	Section 8.2
288.22(a)(2)	Coordination with Regional Water Planning Group	Section 8.8
288.22(a)(3)	Initiation or Termination of Each Drought Response Stage	Section 8.5
288.22(a)(4)	Drought Response Stages	Section 8.5
288.22(a)(5)	Notification of Drought Response Stages	Section 8.5
288.22(a)(6)	Quantified Targets for Reduction	Section 8.5
288.22(a)(7)(A)	Curtailment of Water Delivery	Section 8.4
288.22(a)(7)(B)	Utilization of Alternative Water Sources	Section 8.5
288.22(a)(8)	Wholesale Contract Curtailment of Water Delivery	Section 7.7.5
288.22(a)(9)	Variances	Section 8.6
288.22(a)(10)	Enforcement	Section 4
288.22(b)	Executive Director Notification	Section 8.4
288.22(c)	Plan Review and Update	Section 5

This plan does not cover requirements for the following Texas Administrative Code rules since they are not applicable to City of Farmersville uses:

- Texas Administrative Code, Part 1, Chapter 288, Subchapter A, Rule 288.21, Drought Contingency Plans for Irrigation Use

3 REQUIRED SUBMITTALS

The North Texas Municipal Water District (NTMWD), TCEQ, and the TWDB submittal requirements relating to water conservation and drought contingency plans are listed below.

Requirement Section	Requirement Description	Due Dates
NTMWD Requirements		
N/A	Water Management Plan	Parallel effort with TCEQ submission. The WMP will be reviewed and comments corrected before submission to TCEQ.
N/A	Water Conservation Annual Report for the NTMWD (see Appendix E for example)	Due by 31 March each year

Requirement Section	Requirement Description	Due Dates
TCEQ Requirements		
TAC 288.30(1)	TCEQ Water Conservation Plan Original Implementation and Update Requirements	Only required if over 3,300 connections Original: 1 May 2005 Subsequent Revisions: Every 5 Years Revised Plans: Within 90 Days
TAC 288.30(5)	TCEQ Drought Contingency Plan Original Implementation and Update Requirements	Available for inspection only Original: 1 May 2005 Subsequent Revisions: Every 5 Years Revised Plans: Within 90 Days
TAC 288.30(2)	TCEQ Water Conservation Implementation Report (TCEQ-20646)	Submitted with Water Management Plan Update Original: 1 May 2005 Subsequent Revisions: Every 5 Years Revised Plans: Within 90 Days
Texas Water Development Board Requirements		
TAC 288.30(10)(B)	TWDB Water Conservation Plan Submission	Parallel effort with TCEQ submission Original: 1 May 2005 Subsequent Revisions: Every 5 Years Revised Plans: Within 90 Days
TAC 288.30(10)(C)	TWDB Water Conservation Annual Report Submission (Form TWDB 1966, Formerly Form WRD-265)	Only required if Over 3,300 connections TWDB assistance over \$500,000 Water right established Original: 1 May 2011 Subsequent: Annually, 1 May
Texas Water Code Section 16.012(m)	TWDB, Water Loss Audit Data	Original: 1 May 2016 Subsequent: Annually, 1 May
Texas Water Code Section 16.012(m)	TWDB, Municipal Water Use Survey (Long Form)	Original: 1 March 2016 Subsequent: Annually, 1 March

4 IMPLEMENTATION AND ENFORCEMENT OF THE WATER MANAGEMENT PLAN

This plan shall be implemented and enforced by ordinance. Items related to penalties for violations will be included in the ordinance.

5 REVIEW AND UPDATE OF WATER CONSERVATION PLAN

This water conservation plan shall be updated at least every five (5) years. The plan will be updated as required and as appropriate based on new or updated information.

6 WATER UTILITY PROFILE

The Water Utility Profile for the City of Farmersville is contained in Appendix C.

7 WATER CONSERVATION PLAN

7.1 Introduction

The objectives of this water conservation plan are as follows:

- To reduce water consumption from the levels that would prevail without conservation efforts.
- To reduce the loss and waste of water.
- To improve the efficiency in the use of water.
- To document the level of recycling and reuse in the water supply.
- To extend the life of the current water supplies by reducing the rate of growth in demand.
- Encourage efficient outdoor water use.

7.2 Specification of Water Conservation Goals

The goals for this water conservation plan include the following:

- Maintain the per capita municipal water use below the specified amount for a dry year as shown in Table 1.
- Maintain the level of unaccounted water in the system as discussed in Section 8.4 and as shown in Table 1.
- Implement and maintain a program of universal metering and meter replacement and repair, as discussed in Section 7.3.2.
- Increase efficient water usage through a water conservation ordinance, order or resolution as discussed in Section 4.
- Decrease waste in lawn irrigation by implementation and enforcement of landscape water management regulations, as discussed in Section 7.7.4.
- Raise public awareness of water conservation and encourage responsible public behavior by a public education and information program, as discussed in Section 7.5.
- Develop a system specific strategy to conserve water during peak demands, thereby reducing the peak use.

Table 1. Water Conservation Goals

Description	Current	5-Year Goal	10-Year Goal
Total Per Capita Use with Credit for Reuse	91	145	142
Total Residential Capita Use	68	114	111
Water Loss (GPCD) ¹	8	27	24
Water Loss Percentage Maximum (%) ²	12.00	10.00	8.5

1. Water Loss GPCD = (Total Water Loss ÷ Permanent Population) ÷ 365
2. Water Loss Percentage = (Total Water Loss ÷ Total Gallons in System) x 100; or
(Water Loss GPCD ÷ Total GPCD) x 100

7.3 Metering, Water Use Records, Control of Unaccounted Water, and Leak Detection

One of the key elements of water conservation is tracking water use and controlling losses through illegal diversions and leaks. It is important to carefully meter water use, detect and repair leaks in the distribution system and provide regular monitoring of unaccounted water.

7.3.1 Accurate Metering of Treated Water Deliveries

The water distribution meters shown in Table 2 shall meet the following minimum accuracy requirements. Wholesale water distribution points shall be metered with a resolution equal to or better than 1000 gallons.

Table 2. Meter Accuracies

Meter Type	Required Accuracy
Residential Single Family	±2%
Residential Multi-Family	±2%
Commercial	±5%
Institutional	±5%
Industrial	±5%
Agricultural	±5%
Wholesale	±5%

7.3.2 Metering of Customer and Public Uses and Meter Testing, Repair, and Replacement

Water distribution meters shall be calibrated and replaced as shown in Table 3 to meet the system accuracy requirements.

Table 3. Meter Calibration and Replacement

Meter Type	Calibration Period	Replacement Period
Residential Single Family	Yearly, 5% of meter population or 1 whichever is greater	Manufacturer Rating
Residential Multi-Family		
Commercial		
Institutional		
Industrial		
Agricultural		
Wholesale	Yearly	

All uses of water shall be metered including residential single family, residential multi-family, commercial, institutional, industrial, agricultural, and wholesale uses.

Meters shall be replaced if they cannot maintain their stated system accuracy or if they are beyond their stated lifetime rating as determined by the manufacturer. If a meter is beyond its rated lifetime and still operates within the required accuracy, the Public Works Director may extend the life of the meter.

In cases where meters are installed as part of a service contract then the service contract terms shall apply.

7.3.3 Record Management System

The record management system shall allow for the separation of water deliveries, sales, and losses into the following categories: residential single family, residential multi-family, commercial, institutional, industrial, agricultural, and wholesale categories.

7.3.4 Determination and Control of Water

Unaccounted water or water loss is the difference between water delivered to the City of Farmersville from NTMWD and metered water sales to customers plus authorized for use but not sold. (Authorized but unmetered uses would include use for fire fighting, releases for flushing of lines, uses associated with new construction, etc.) Water loss can include several categories:

- Inaccuracies in customer meters. (Customer meters tend to run more slowly as they age and under-report actual use.)
- Accounts which are being used but have not yet been added to the billing system.
- Losses due to water main breaks and leaks in the water distribution system.
- Losses due to illegal connections and theft.
- Other.

Total water loss includes three categories:

- Apparent Losses – including inaccuracies in customer meters. (Non-electronic customer meters tend to run more slowly as they age and under-report actual use.) Losses due to illegal connections and theft. Accounts which are being used but have not yet been added to the billing system.
- Real Losses – includes physical losses from the system or mains, reported breaks and leaks, storage overflow.
- Unidentified Water Losses – (System Input - Total Authorized - Apparent Losses - Real Losses)

Water loss shall be calculated and maintained below the goals set in this document. If unaccounted water exceeds this goal, a more intensive audit to determine the source(s) of and reduce the unaccounted water shall be conducted. The annual conservation report shall be the primary tool to report and monitor unaccounted water.

7.3.5 Leak Detection and Repair

City crews and personnel shall look for and report evidence of leaks in the water distribution system. Areas of the water distribution system exhibiting repeated leaks and line breaks should be targeted for replacement as funds are available.

Meter leak detection capability shall be utilized to reduce the cycle time repair leaks.

7.4 Monitoring of Effectiveness and Efficiency - Annual Water Conservation Report

The Annual Water Conservation Report in Appendix E shall be used to monitor the effectiveness and efficiency of the water conservation program and to plan conservation-related activities for the next year. The annual water conservation report shall also be sent to NTMWD by March 31st of each year.

7.5 Continuing Public Education and Information Campaign

The continuing public education and information campaign on water conservation includes the following elements:

- Utilize the “Water IQ: Know Your Water” and other public education materials produced by the NTMWD.
- Insert water conservation information with water bills. Inserts will include material developed by Member Cities’ and Customers’ staff and material obtained from the TWDB, the TCEQ, and other sources.
- Encourage local media coverage of water conservation issues and the importance of water conservation.
- Notify local organizations, schools, and civic groups that Member City or Customer staff and staff of the NTMWD are available to make presentations on the importance of water conservation and ways to save water.

- Promote the *Texas Smartscape* web site (www.txsmartscape.com) and provide water conservation brochures and other water conservation materials available to the public at City Hall and other public places.
- Make information on water conservation available on the City of Farmersville website and include links to the “Water IQ: Know Your Water” website, *Texas Smartscape* website and to information on water conservation on the TWDB and TCEQ websites and other resources.
- Participate in the EPA Water Sense sponsored “Fix a Leak Week.” Become an EPA Water Sense Partner.
- Utilize the Water My Yard website and encourage customers to sign-up to receive weekly watering advice.

7.6 Water Rate Structure

The water rate structure shall be set based on a water rate study performed by a firm with at least 5 years of experience producing like studies for NTMWD member cities. The firm’s qualifications to perform a water rate study shall be approved by City Council prior to conducting the study.

7.6.1 Residential Rate Features

- Monthly minimum charge. Up to two thousand (2,000) gallons water use with no additional charge.
- Base charge per thousand (1,000) gallons up to the approximate average residential use.
- 2nd tier (from the average to two (2) times the approximate average) at 1.25 to 2.0 times the base charge.
- 3rd tier (above two (2) times the approximate average) at 1.25 to 2.0 times the 2nd tier.

7.6.2 Commercial/Industrial Rates

Commercial/industrial rates should include at least two (2) tiers, with rates for the 2nd tier at 1.25 to 2.0 times the first tier. Higher water rates for commercial irrigation use are encouraged, but not required.

7.7 Other Water Conservation Measures

No additional water conservation measures are being presented in this plan. All national, state, and local requirements are being met by the other paragraphs presented in this document.

7.7.1 Reservoir System Operation Plan

The City of Farmersville purchases all its treated water from NTMWD and does not have surface water supplies to implement a system operation plan. A Reservoir System Operation Plan is not required.

7.7.2 Reuse and Recycling of Wastewater

The City of Farmersville owns its own wastewater treatment facility which is managed by NTMWD. All the treated effluent from this plant is recycled back to Lake Lavon via Elm Creek. The effluent is eventually reused by NTMWD to make-up the treated water supplies for the surrounding cities including Farmersville.

7.7.3 Ordinances, Plumbing Codes, or Rules on Water-Conserving Fixtures

The City of Farmersville has adopted the International Plumbing Code and the International Existing Building Code by ordinance which sets standards for water-conserving fixtures.

The International Plumbing Code sets maximum flow rates and consumption for plumbing fixtures and fixture fittings for items such as shower heads, sink faucets, urinals, and water closets. All new plumbing fixtures installed within the City and the City's extra-territorial jurisdiction shall meet these new water-conserving requirements.

The International Existing Building Code sets maximum flow rates and consumption for replaced water closets installed in existing buildings.

7.7.4 Landscape Water Management Measures

The following landscape water management measures shall be implemented and enforced.

- Time of day restrictions prohibiting lawn irrigation watering from 10 AM to 6 PM beginning April 1 and ending October 31 of each year.
- Prohibition of watering of impervious surfaces. (Wind driven water drift will be taken into consideration.)
- Prohibition of use of poorly maintained irrigation systems that waste water.
- Prohibition of outdoor watering during precipitation or freeze events.
- Lawn and landscape irrigation limited to twice per week.
- Requirement that all new irrigation systems be in compliance with state design and installation regulations (TAC Title 30, Part 1, Chapter 344).
- Native, drought-tolerant, or adaptive plants should be encouraged.
- Drip irrigation systems should be promoted.
- Evapotranspiration (ET)/Smart controllers that only allow sprinkler systems to irrigate when necessary should be promoted.
- Prohibiting the use of treated water to fill or refill residential, amenity, and any other natural or manmade ponds during drought conditions. A pond is considered to be a still body of water with a surface area of five hundred (500) square feet or more.
- Rain and freeze sensors and/or ET or smart controllers required on all new irrigation systems. Rain and freeze sensors and/or ET or Smart controllers must be maintained to function properly.
- Rain and freeze sensors and/or ET or smart controllers required on all existing irrigation systems by end of the year 2015.

- “At home” car washing can be done only when using a water hose with a shut-off nozzle.
- Prohibition of watering areas that have been over-seeded with cool season grasses (such as rye grass or other similar grasses), except for golf courses and public athletic fields.

7.7.5 Water Supply Contract

Every contract for the wholesale sale of water that is entered into, renewed, or extended shall include a requirement that the wholesale customer and any wholesale customers of that wholesale customer develop and implement a water conservation plan meeting the requirements of Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2 of the Texas Administrative Code.

Each wholesale contract shall include as provision that in case of a shortage of water resulting from drought, the water to be distributed shall be divided in accordance with Texas Water Code, §11.039.

7.8 Coordination with Regional Water Planning Group and NTMWD

Appendix F includes an example letter sent to the Chair of the Region C water planning group. A copy of draft ordinance(s) or regulation(s) implementing the plan and the water utility profile shall be sent to NTMWD for review and comment. The adopted ordinance(s) or regulation(s) and the adopted water utility profile will be copied to the Chair of the Region C Water Planning Group and to NTMWD.

8 DROUGHT CONTINGENCY AND WATER EMERGENCY RESPONSE PLAN

8.1 Introduction

The purpose of this drought contingency and water emergency response plan is as follows:

- To conserve the available water supply in times of drought and emergency.
- To maintain supplies for domestic water use, sanitation, and fire protection.
- To protect and preserve public health, welfare, and safety.
- To minimize the adverse impacts of water supply shortages.
- To minimize the adverse impacts of emergency water supply conditions.

A drought is defined as an extended period of time when an area receives insufficient amounts of rainfall to replenish the water supply, causing water supply sources, in this case reservoirs, to be depleted. In the absence of drought response measures, water demands tend to increase during a drought due to the need for additional outdoor irrigation. The severity of a drought depends on the degree of depletion of supplies and on the relationship of demand to available supplies. The NTMWD considers a drought to end when all of its supply reservoirs refill to the conservation storage pool.

8.2 Provisions to Inform the Public and Opportunity for Public Input

The City of Farmersville shall provide opportunity for public input in the development or update of this drought contingency and water emergency response plan by the following means:

- Providing written notice of the proposed plan and the opportunity to comment on the plan.
- Providing written notice of the proposed plan and the opportunity to comment on the plan to all wholesale consumers.
- Making the draft plan available on the City's website.
- Providing the draft plan to anyone requesting a copy.
- Holding a public meeting.

8.3 Provisions for Continuing Public Education and Information

The City of Farmersville shall inform and educate the public about the drought contingency and water emergency response plan by the following means:

- Preparing a bulletin describing the plan and making it available at city hall and other appropriate locations.
- Making the plan available to the public through the City's website.
- Notifying local organizations, schools, and civic groups that staff are available to make presentations on the drought contingency and water emergency response plan (usually in conjunction with presentations on water conservation programs).

At any time that the drought contingency and water emergency response plan is activated or the drought stage or water emergency response stage changes, the City of Farmersville shall notify local media of the issues, the drought/water emergency response stage (if applicable), and the specific actions required of the public. This information shall also be publicized on the City's web site. Additionally, billing inserts may also be used as appropriate.

8.4 Initiation and Termination of Drought or Water Emergency Response Stages

Initiation, termination, and notification of a drought contingency and water emergency response stage shall be forwarded in writing to each wholesale customer.

In the event of an identified water shortage declaration, the City of Farmersville shall distribute water to wholesale customers according to the Texas Water Code §11.039.

8.4.1 Initiation of a Drought or Water Emergency Response Stage

The City Manager or official designee may order the implementation of a drought or water emergency response stage when one or more of the trigger conditions for that stage is met. The following actions will be taken when a drought or water emergency response stage is initiated:

- The public will be notified through local media and the City's web site.

- Wholesale customers and the NTMWD will be notified by e-mail with a follow-up letter or fax that provides details of the reasons for initiation of the drought/water emergency response stage.
- If any mandatory provisions of the drought contingency and water emergency response plan are activated, the City of Farmersville will notify the Executive Director of the TCEQ and the Executive Director of the NTMWD within five (5) business days. Alternatively the Executive Director of the TCEQ notification may take place through NTMWD.

The City Manager or official designee may decide not to order the implementation of a drought response stage or water emergency even though one or more of the trigger criteria for the stage are met. Factors which could influence such a decision include, but are not limited to, the time of the year, weather conditions, the anticipation of replenished water supplies, or the anticipation that additional facilities will become available to meet needs.

8.4.2 Termination of a Drought/Water Emergency Response Stage

The City Manager or official designee may order the termination of a drought or water emergency response stage when the conditions for termination are met or at their discretion. The following actions will be taken when a drought or emergency response stage is terminated:

- The public will be notified through local media and the City's web site.
- Wholesale customers and the NTMWD will be notified by e-mail with a follow-up letter or fax.
- If any mandatory provisions of the drought contingency and water emergency response plan that have been activated are terminated, the City of Farmersville will notify the Executive Director of the TCEQ and the Executive Director of the NTMWD within five (5) business days.

The City Manager or official designee may decide not to order the termination of a drought or water emergency response stage even though the conditions for termination of the stage are met. Factors which could influence such a decision include, but are not limited to, the time of the year, weather conditions, or the anticipation of potential changed conditions that warrant the continuation of the drought stage.

8.5 Drought Contingency and Water Emergency Response Stages and Measures

There are three (3) active levels indicating different stages of drought contingency and water emergency preparedness. The City of Farmersville, at the direction of the Public Works Director, shall install signs near city limit entrances that indicate the drought contingency and water emergency stages as follows:

Stage Number	Sign Background Color	Sign Text	Text Color
Not Applicable	Green	No Water Use Restrictions	White
1	Yellow	Stage 1	Black
2	Orange	Stage 2	White
3	Red	Stage 3	White

8.5.1 Stage 1

8.5.1.1 Initiation and Termination Conditions for Stage 1

- The NTMWD has initiated Stage 1.
- City's water demand exceeds ninety (95) percent of the amount that can be delivered to customers for three consecutive days.
- City's water demand for all or part of the delivery system approaches delivery capacity because delivery capacity is inadequate.
- Supply source becomes contaminated.
- City's water supply system is unable to deliver water due to the failure or damage of major water system components.

Stage 1 may terminate when NTMWD terminates its Stage 1 condition or when the circumstances that caused the initiation of Stage 1 no longer prevail.

8.5.1.2 Goal for Use Reduction and Actions Available under Stage 1

The goal for water use reduction under Stage 1 is a five (5) percent reduction.

The City Manager or official designee may order the implementation of any of the actions listed below, as deemed necessary to meet the five (5) percent reduction. Measures described as "requires notification to TCEQ" impose mandatory requirements on customers. The City shall notify TCEQ and NTMWD within five business days if these measures are implemented:

- Continue actions in the water conservation plan.
- Notify wholesale customers of actions being taken and request implementation of similar procedures to achieve the stage 1 percent reduction goal.
- Initiate engineering studies to evaluate alternatives should conditions worsen.
- Further accelerate public education efforts on ways to reduce water use.
- Halt non-essential city government water use.
 - Street cleaning that requires water.
 - Vehicle washing.
 - Ornamental fountains.
 - Reduce Splash Pad operational time by at least thirty (30) percent.

- Intensify efforts on leak detection and repair.
- Notify major water users and work with them to achieve voluntary water use reductions.
- Encourage the public to wait until the current drought or emergency situation has passed before establishing new landscaping.
- All users are encouraged to reduce the frequency of draining and refilling swimming pools.
- **** Limit landscape watering with sprinklers or irrigation systems at each service address to no more than two days per week on designated days between April 1 and October 31. Limit landscape watering with sprinklers or irrigation systems at each service address to once every week on designated days between November 1 and March 31. Automatic irrigation systems may only be utilized during City-wide solid waste disposal (trash) days which are typically Monday and Thursday. The following exceptions apply:**
 - Landscape associated with new construction may be watered as necessary for thirty (30) days from the date of the certificate of occupancy.
 - Additional watering of landscape may be provided by hand held hose with shutoff nozzle, use of dedicated irrigation drip zones, and/or soaker hose provided no runoff occurs.
 - Foundations, new landscaping, new plantings (first year) of shrubs, and trees (within a ten foot radius of its trunk) may be watered by a hand-held hose, a soaker hose, or a dedicated zone using a drip irrigation system provided no runoff occurs.
 - Landscape watering of parks, golf courses and athletic fields using potable water are required to meet the same reduction goals and measures outlined in this stage. Exception for golf course greens and tee boxes which may be hand watered as needed.
 - Locations using other sources of water supply for irrigation may irrigate without restrictions.
 - Registered and properly functioning ET/Smart irrigation systems and drip irrigation systems may irrigate without restrictions.

(Items identified by ** mandates the City to notify TCEQ of restrictions)

8.5.2 Stage 2

8.5.2.1 Initiation and Termination Conditions for Stage 2

- The NTMWD has initiated Stage 2.
- City's water demand exceeds ninety-eight (98) percent of the amount that can be delivered to customers for three consecutive days.
- City's water demand for all or part of the delivery system exceeds delivery capacity because delivery capacity is inadequate.
- Supply source becomes contaminated.
- City's water supply system is unable to deliver water due to the failure or damage of major water system components.

Stage 2 may terminate when NTMWD terminates its Stage 2 condition or when the circumstances that caused the initiation of Stage 2 no longer prevail.

8.5.2.2 Goals for Use Reduction and Actions Available under Stage 2

The goal for water use reduction under Stage 2 is ten (10) percent.

The City Manager or official designee may order the implementation of any of the actions listed below, as deemed necessary to meet the ten (10) percent reduction. Measures described as “requires notification to TCEQ” impose mandatory requirements on customers. The City shall notify TCEQ and NTMWD within five business days if these measures are implemented:

- Continue actions in the water conservation plan.
- Notify wholesale customers of actions being taken and request implementation of similar procedures to achieve the stage 2 percent reduction goal.
- Implement viable alternative water supply strategies.
- Initiate engineering studies to evaluate alternatives should conditions worsen.
- Further accelerate public education efforts on ways to reduce water use.
- Halt non-essential city government water use.
 - Street cleaning that requires water.
 - Vehicle washing.
 - Ornamental fountains.
 - Reduce Splash Pad operational time by at least thirty (30) percent.
- Intensify efforts on leak detection and repair.
- Notify major water users and work with them to achieve voluntary water use reductions.
- Encourage the public to wait until the current drought or emergency situation has passed before establishing new landscaping.
- All users are encouraged to reduce the frequency of draining and refilling swimming pools.
- ** Limit landscape watering with sprinklers or irrigation systems at each service address to once days per week on designated days between April 1 and October 31. Limit landscape watering with sprinklers or irrigation systems at each service address to once every other week on designated days between November 1 and March 31. Automatic irrigation systems may only be utilized during City-wide recycle refuse days which are typically every other Wednesday. The following exceptions apply:
 - Landscape associated with new construction may be watered as necessary for thirty (30) days from the date of the certificate of occupancy.
 - Hand watering with shutoff nozzle, drip lines, and soaker hoses is allowed before 10 am and after 6 pm provided no runoff occurs.
 - Foundations, new landscaping, new plantings (first year) of shrubs, and trees (within a ten foot radius of its trunk) may be watered by a hand-held hose, a soaker hose, or a dedicated zone using a drip irrigation system provided no runoff occurs.
 - Landscape watering of parks, golf courses and athletic fields using potable water are required to meet the same reduction goals and measures outlined in this stage. Exception for golf course greens and tee boxes which may be hand watered as needed.
 - Locations using other sources of water supply for irrigation may irrigate without restrictions.

- Registered and properly functioning ET/Smart irrigation systems and drip irrigation systems may irrigate without restrictions.
- ** Prohibit hydro seeding, hydro mulching, and sprigging.
- ** Initiate a rate surcharge as deemed necessary to meet reduction targets.

(Items identified by ** mandates the City to notify TCEQ of restrictions)

8.5.3 Stage 3

8.5.3.1 Initiation and Termination Conditions for Stage 3

- The NTMWD has initiated Stage 3.
- City's water demand exceeds the amount that can be delivered to customers.
- City's water demand for all or part of the delivery system seriously exceeds delivery capacity because the delivery capacity is inadequate.
- Supply source becomes contaminated.
- City's water supply system is unable to deliver water due to the failure or damage of major water system components.

Stage 3 may terminate when NTMWD terminates its Stage 3 condition or when the circumstances that caused the initiation of Stage 3 no longer prevail.

8.5.3.2 Goals for Use Reduction and Actions Available under Stage 3

The goal for water use reduction under Stage 3 is a reduction of whatever amount is necessary as established by NTMWD.

The City Manager or official designee must implement any action(s) required to meet NTMWD reduction goals. Measures described as "requires notification to TCEQ" impose mandatory requirements on member cities and customers. The City shall notify TCEQ and NTMWD within five (5) business days if these measures are implemented.

- Continue actions in the water conservation plan.
- Notify wholesale customers of actions being taken and request implementation of similar procedures to achieve the stage 3 percent reduction goal.
- Implement viable alternative water supply strategies.
- Initiate engineering studies to evaluate alternatives should conditions worsen.
- Further accelerate public education efforts on ways to reduce water use.
- Halt non-essential city government water use.
 - Street cleaning that requires water.
 - Vehicle washing.
 - Ornamental fountains.
- Intensify efforts on leak detection and repair.

**Appendix C. Water Utility Profile
(TCEQ Form 10218)**

Texas Commission on Environmental Quality



**UTILITY PROFILE & WATER CONSERVATION PLAN
REQUIREMENTS
FOR MUNICIPAL WATER USE BY PUBLIC WATER
SUPPLIERS**

This form is provided to assist entities in water conservation plan development for municipal water use by a retail public water supplier. Information from this form should be included within a water conservation plan for municipal use. If you need assistance in completing this form or in developing your plan, please contact the conservation staff of the Resource Protection Team in the Water Supply Division at (512) 239-4691.

GENERAL DATA

Name of Entity	City of Farmersville
Address & Zip	205 South Main Street, Farmersville, Texas, 75442
Telephone Number	972-782-6151
Facsimile Number	972-782-6604
Form Completed By	Benjamin (Ben) L. White
Title	City Manager/Public Works Director
Signature	
Date of Signature	

**RESPONSIBLE PARTY FOR WATER CONSERVATION PROGRAM
IMPLEMENTATION**

Name	Benjamin (Ben) L. White
Phone Number	972-782-6151

UTILITY PROFILE

I. POPULATION AND CUSTOMER DATA

A. Population and Service Area Data

Index	Question or Task Description	Answer
1	Attach a copy of your service-area map and, if applicable, a copy of your Certificate of Convenience and Necessity (CCN).	See service-area map and CCN later in this utility profile.
2	Service area size (square miles)	40
3	Current population of service area	3516
4a	Current water population served	3516

Index	Question or Task Description	Answer	
4b	Current wastewater population served	2,698	
5	Population served by water utility for the previous five years	Year	Population
		2007	3,365
		2008	3,375
		2009	3,417
		2010	3,392
		2011	3,393
6	Projected population for service area in the following decades	2010	3,392
		2020	4,072
		2030	4,940
		2040	5,775
		2050	7,040
7	List source/method for the calculation of current and projected population	US Census 2010 City of Farmersville	

B. Active Connections

1. Current number of active connections. Check whether multi-family service is counted as Residential ____ or Commercial X

Treated Water Users	Metered	Not-Metered	Total
Residential	1125	0	1125
Commercial	174	0	174
Industrial	30	0	30
Other (Public)	14	0	14

2. List the net number of new connections per year for most recent three years:

Year	2009	2010	2011
Residential	-5	-20	-4
Commercial	0	-1	-2
Industrial	0	3	3
Other (Public)	0	0	-4

C. High Volume Customers

List annual water use for the five highest volume customers (indicate if treated or raw water delivery)

Position	Customer	Use (1,000gal./yr.)	Treated/Raw Water
1	Farmersville High School Football Field	5,463	Treated
2	Texas Sterling	4,941	Treated
3	Farmersville High School	3,070	Treated

Position	Customer	Use (1,000gal./yr.)	Treated/Raw Water
	Baseball Field		
4	Texas Sterling	2,820	Treated
5	City of Farmersville, JW Spain Athletic Complex	2,792	Treated

II. WATER USE DATA FOR SERVICE AREA

A. Water Accounting Data

1. Amount of water use for previous five years (in 1,000 gal.):

Please indicate: Diverted Water X Treated Water

Year	2007	2008	2009	2010	2011
January	12,850	16,549	15,973	12,386	16,943
February	13,667	11,421	10,073	11,116	10,132
March	14,132	14,594	14,194	11,885	16,083
April	13,652	13,756	16,752	12,669	16,264
May	13,877	18,002	13,348	17,086	13,615
June	15,663	20,767	28,272	30,285	28,333
July	13,896	36,580	40,766	24,574	41,804
August	22,412	34,130	23,653	41,810	49,938
September	17,833	19,761	18,861	18,767	30,130
October	15,001	19,609	13,706	17,880	24,609
November	14,333	14,819	11,534	13,325	16,749
December	13,339	14,358	13,252	14,347	15,024
Total	180,655	234,346	220,384	226,130	279,624

Indicate how the above figures were determined (e.g., from a master meter located at the point of a diversion from the source or located at a point where raw water enters the treatment plant, or from water sales).

From a master meter located at the point of a diversion.

2. Amount of water (in 1,000 gallons) delivered (sold) as recorded by the following account types for the past five years.

Year Sold	Residential	Commercial	Industrial	Wholesale	Other	Total
2007	87,541	35,509	2,791	45,147	1,574	172,562
2008	98,658	30,243	4,931	76,551	2,860	213,243
2009	83,398	28,039	3,099	67,344	3,425	185,305
2010	82,152	27,620	6,491	97,232	4,655	218,150
2011	96,501	30,714	18,564	106,518	5,802	258,099

3. List previous five years records for water loss (the difference between water diverted (or treated) and water delivered (or sold))

Year	Amount (Gallon)	Percent Loss (%)
2007	8,093	4.48
2008	21,103	9.01
2009	35,079	15.92
2010	7,980	3.53
2011	21,525	7.70

4. Municipal water use for previous five years:

Year Pumped	Population	Total Water Diverted or Pumped for Treatment (1,000 gal.)
2007	3,365	180,655
2008	3,375	234,346
2009	3,417	220,384
2010	3,392	226,130
2011	3,393	279,624

B. Projected Water Demands

If applicable, attach projected water supply demands for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirement from such growth.

Year	Population	Total Water Diverted or Pumped for Treatment (1,000 gal.)
2012	3,389	278,148
2013	3,429	278,733
2014	3,469	280,535
2015	3,509	281,039
2016	3,593	285,030
2017	3,677	288,970
2018	3,761	291,486
2019	3,845	294,804
2020	3,930	298,065
2021	4,008	301,008

III. WATER SUPPLY SYSTEM DATA

A. Water Supply Sources

List all current water supply sources and the amounts authorized with each:

Type	Source	Amount Authorized
Surface Water	Not applicable	0 acre-feet
Groundwater	Not applicable	0 acre-feet
Contracts	North Texas Municipal Water District	860.72 acre-feet 280,467,000 gallons
Other	Not applicable	0 acre-feet

B. Treatment and Distribution System

Index	Question or Task Description	Answer
1	Design daily capacity of system	Not applicable, treated water by NTMWD
2a	Elevated Storage Capacity	1,000 MG
2b	Ground Storage Capacity	500 MG
3a	If surface water, do you recycle filter backwash to the head of the plant?	Not Applicable
3b	If yes, approximately how much?	Not Applicable
4	Please attach a description of the water system. Include the number of treatment plants, wells, and storage tanks. If possible, include a sketch of the system layout.	See attachment at the end of this section.

IV. WASTEWATER SYSTEM DATA

A. Wastewater System Data

Index	Question or Task Description	Answer
1	Design capacity of wastewater treatment plant(s)	Plant No. 1 – 0.225 MGD Plant No. 2 – 0.530 MGD
2a	Is treated effluent used for irrigation on-site, off-site, plant wash-down, or chlorination/dechlorination?	There is no off-site irrigation. The amount of water used for wash down, dewatering and chlorination is negligible and all non-pot water used is recycled back through the plant
2b	If yes, approximately how many gallons per month?	Not applicable

3a	Briefly describe the wastewater system(s) of the area serviced by the water utility.	Farmersville's wastewater collection system transmits flow to the Farmersville WWTP site. The plant consists of two permitted plants on a single site. Plant No. 1 is a trickling filter plant with a permitted capacity of 0.225 MGD. Plant No. 2 is an activated sludge plant with a treatment capacity of 0.530 MGD.
3b	Describe how treated wastewater is disposed of. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and, if wastewater is discharged, the receiving stream.	The wastewater is treated and discharged into Elm Creek, a tributary of Lake Lavon. The City of Farmersville WWTP consists of two permitted plants; Plant No. 1 (WQ0010442001) and Plant No. 2 (WQ0010442002). The owner, and permit holder, of the wastewater plant is the City of Farmersville. The plant is operated by NTMWD.
3c	If possible, attach a sketch or map which locates the plant(s) and discharge points or disposal sites.	See attachment at the end of this section.

B. Wastewater Data for Service Area

Index	Question or Task Description	Answer
1	Percent of water service area served by wastewater system	95 %

2. Monthly volume treated for previous three years (in 1,000 gallons):

Year	2009	2010	2011
January	6,892	*17,706	11,170
February	6,115	**21,572	12,901
March	10,991	20,331	9,274
April	10,657	10,229	9,763
May	19,479	8,665	15,363
June	6,943	7,759	8,381

July	6,947	8,984	7,769
August	6,426	7,215	7,522
September	7,864	8,677	7,386
October	***21,926	7,517	7,960
November	13,805	10,059	8,450
December	16,903	7,600	11,593
Total	134,948	136,314	117,532

*January 2010, includes 1,021 from Plant No. 1

**February 2010, includes 1,797 from Plant No. 1

***October 2009, includes 1,234 from Plant No. 1



Figure 1. Water System Diagram, Sheet 1



Figure 2. Water System Diagram, Sheet 2



Figure 3. Water System Diagram, Sheet 3

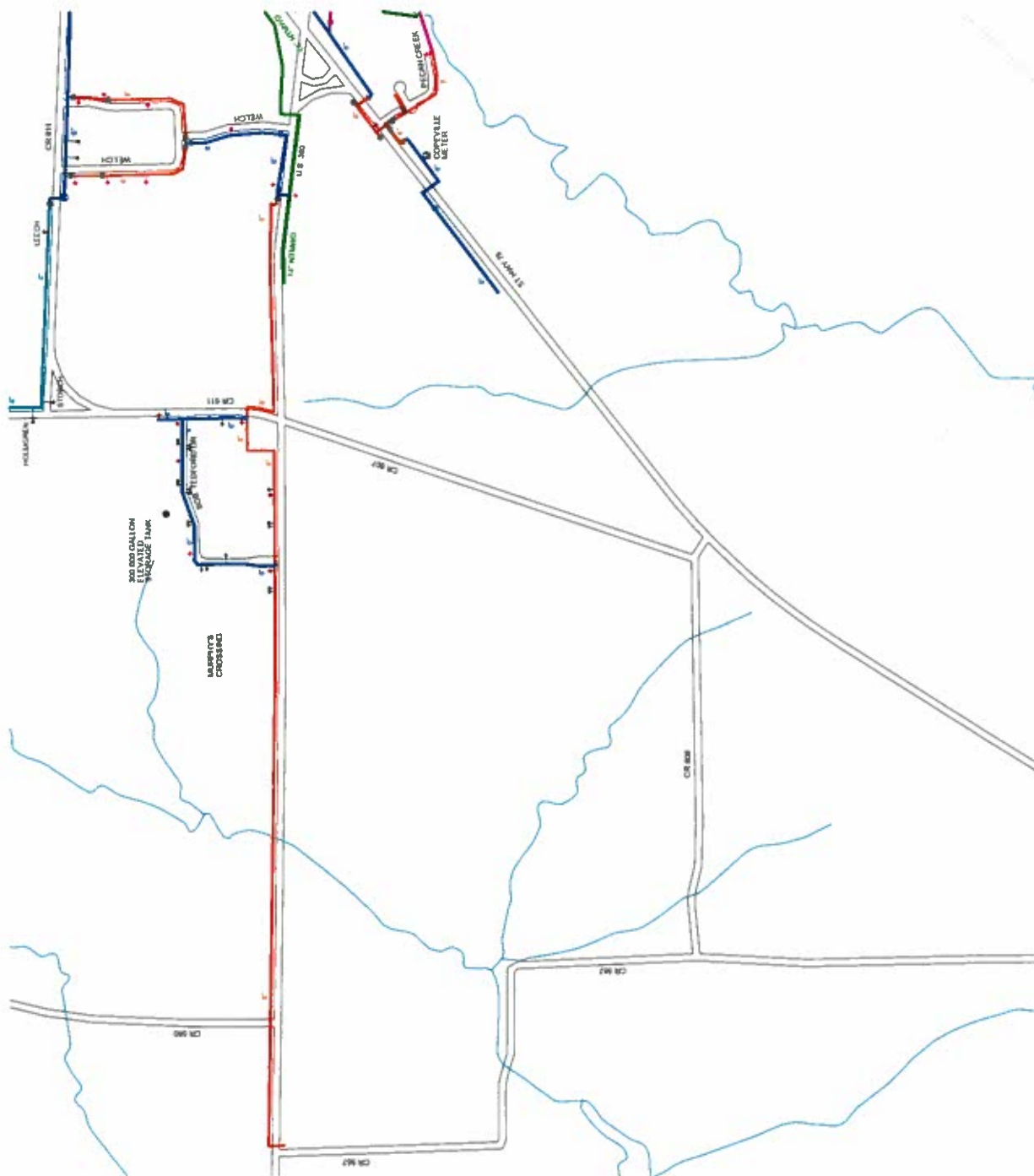


Figure 4. Water System Diagram, Sheet 4

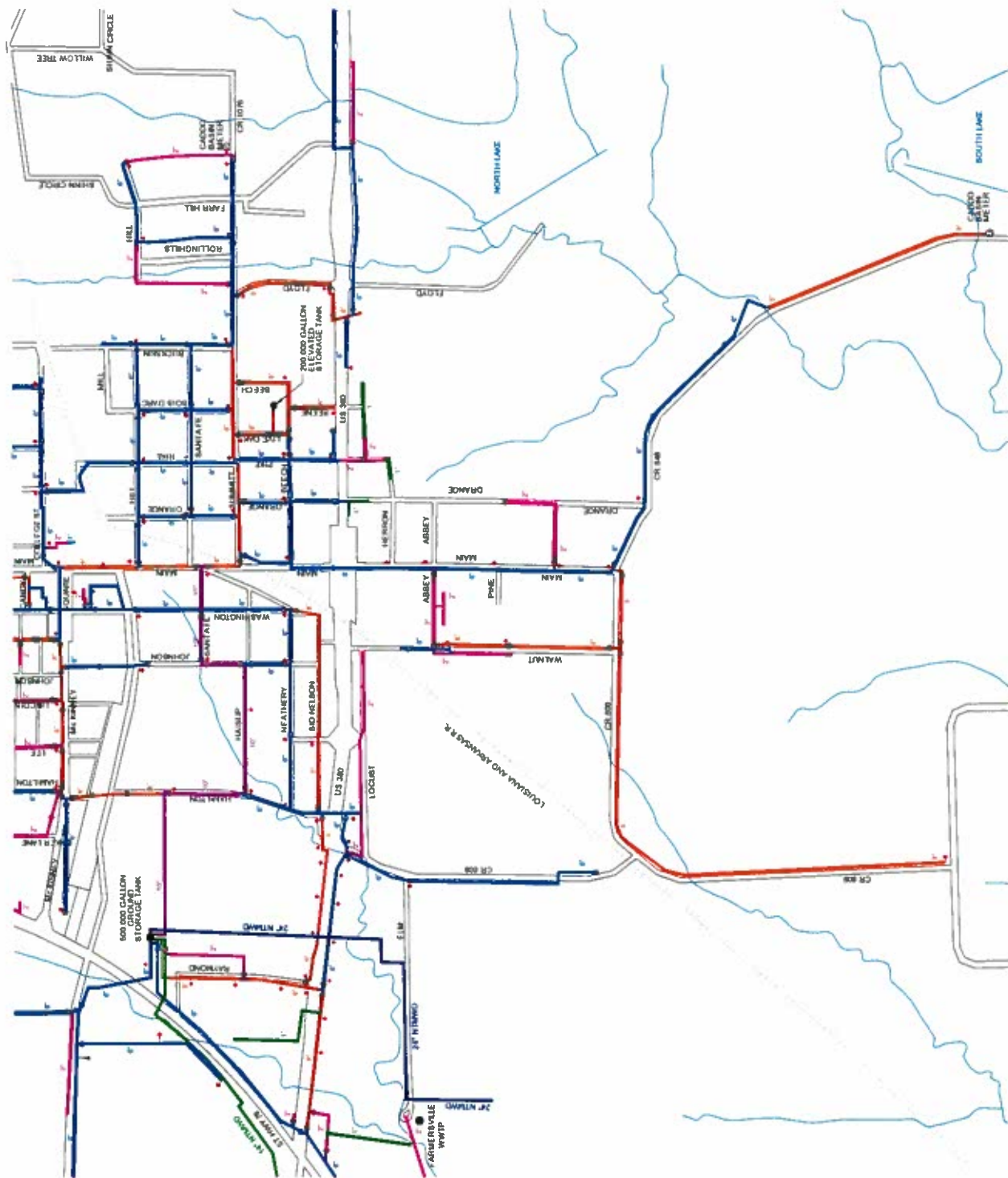


Figure 5. Water System Diagram, Sheet 5

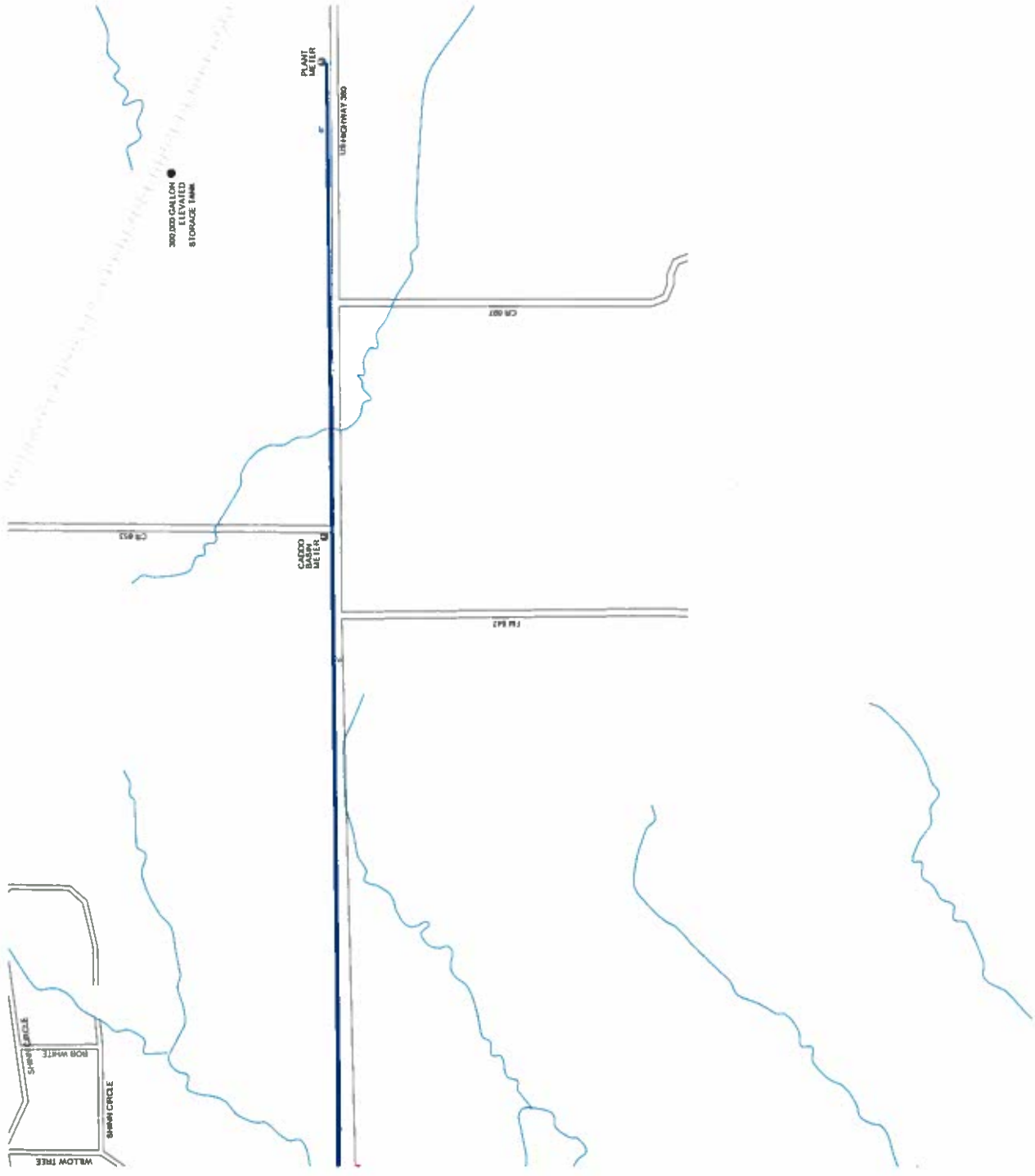


Figure 6. Water System Diagram, Sheet 6

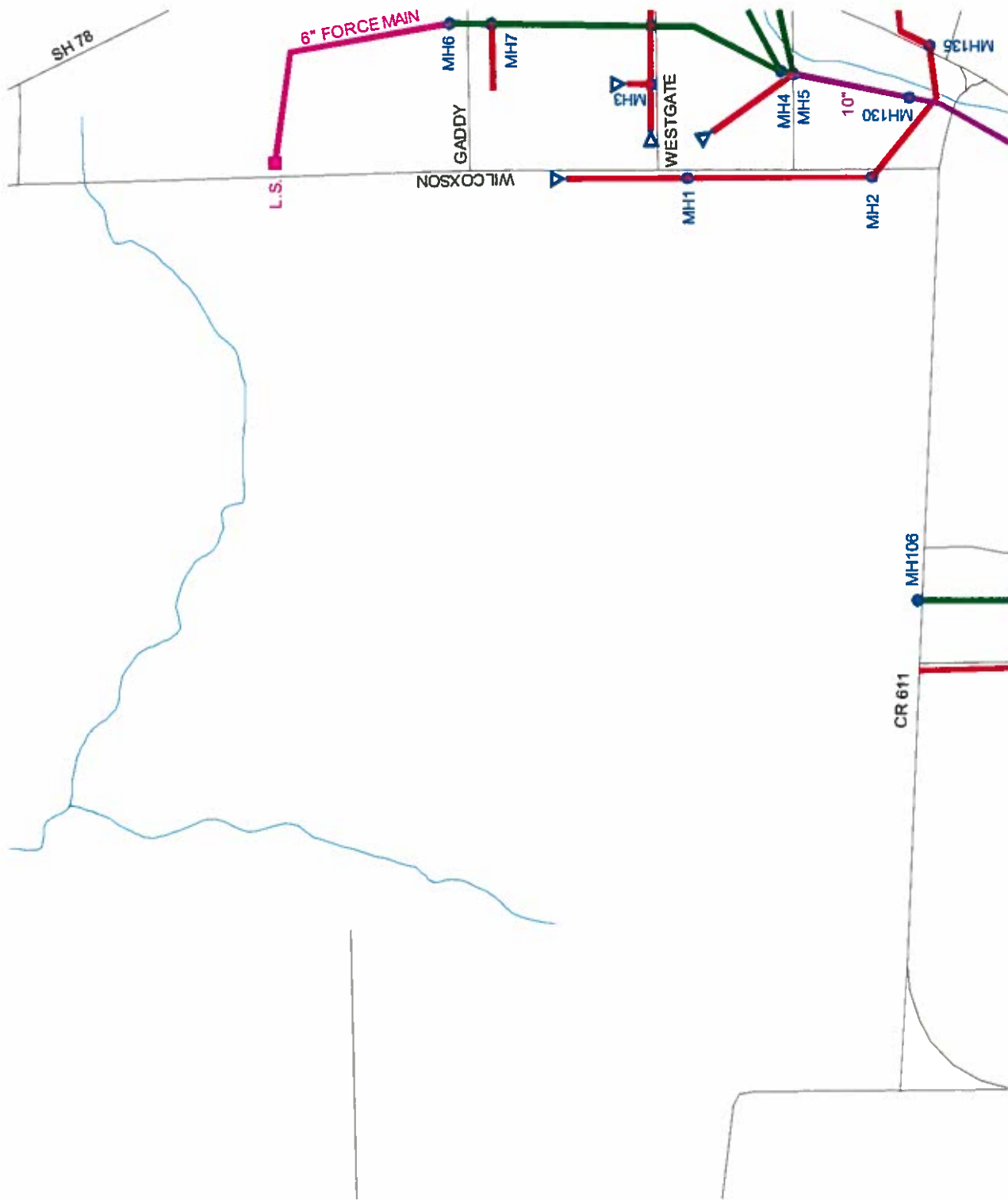


Figure 7. Waste Water System Diagram, Sheet 1

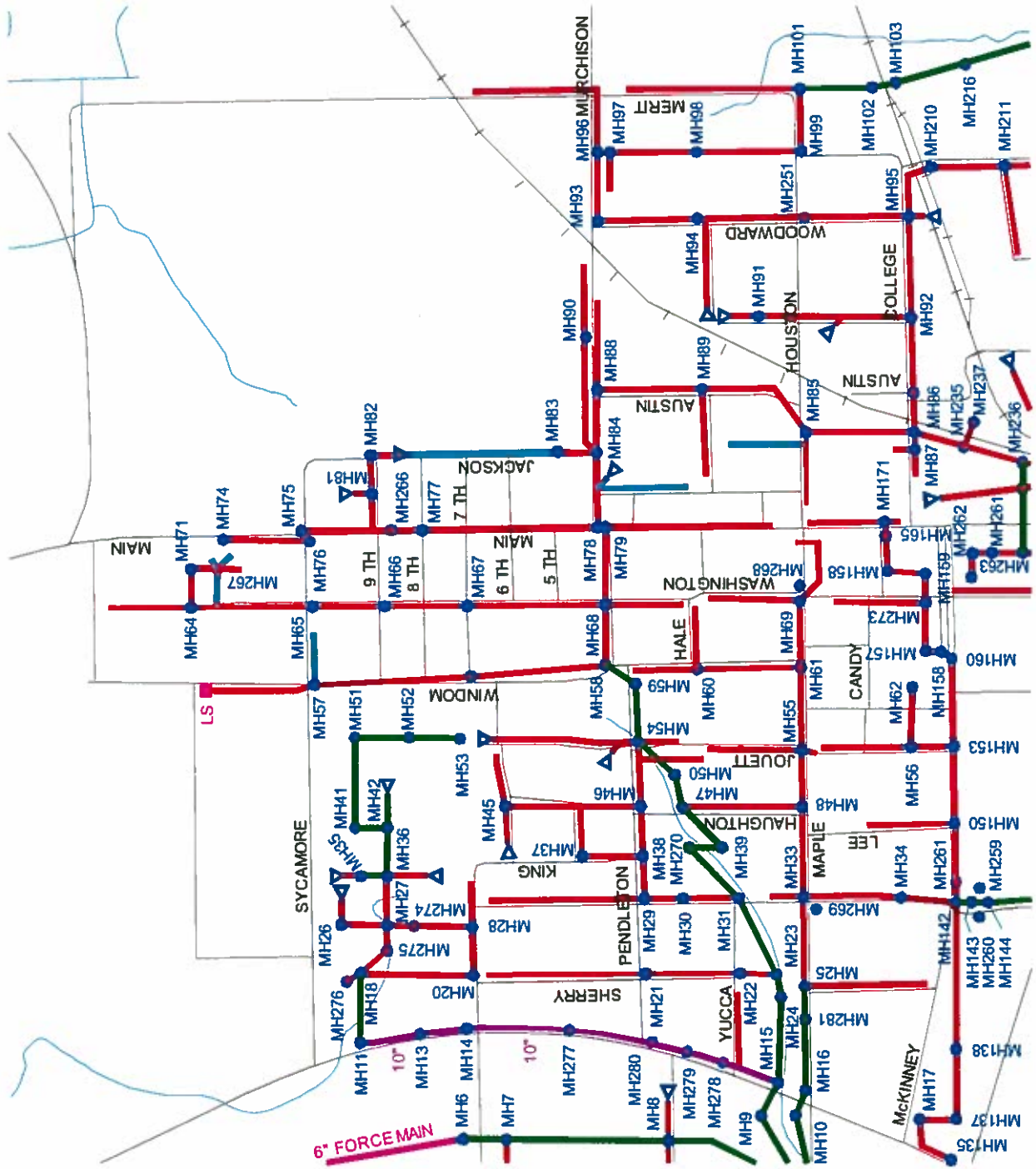


Figure 8. Waste Water System Diagram, Sheet 2



Figure 9. Waste Water System Diagram, Sheet 3

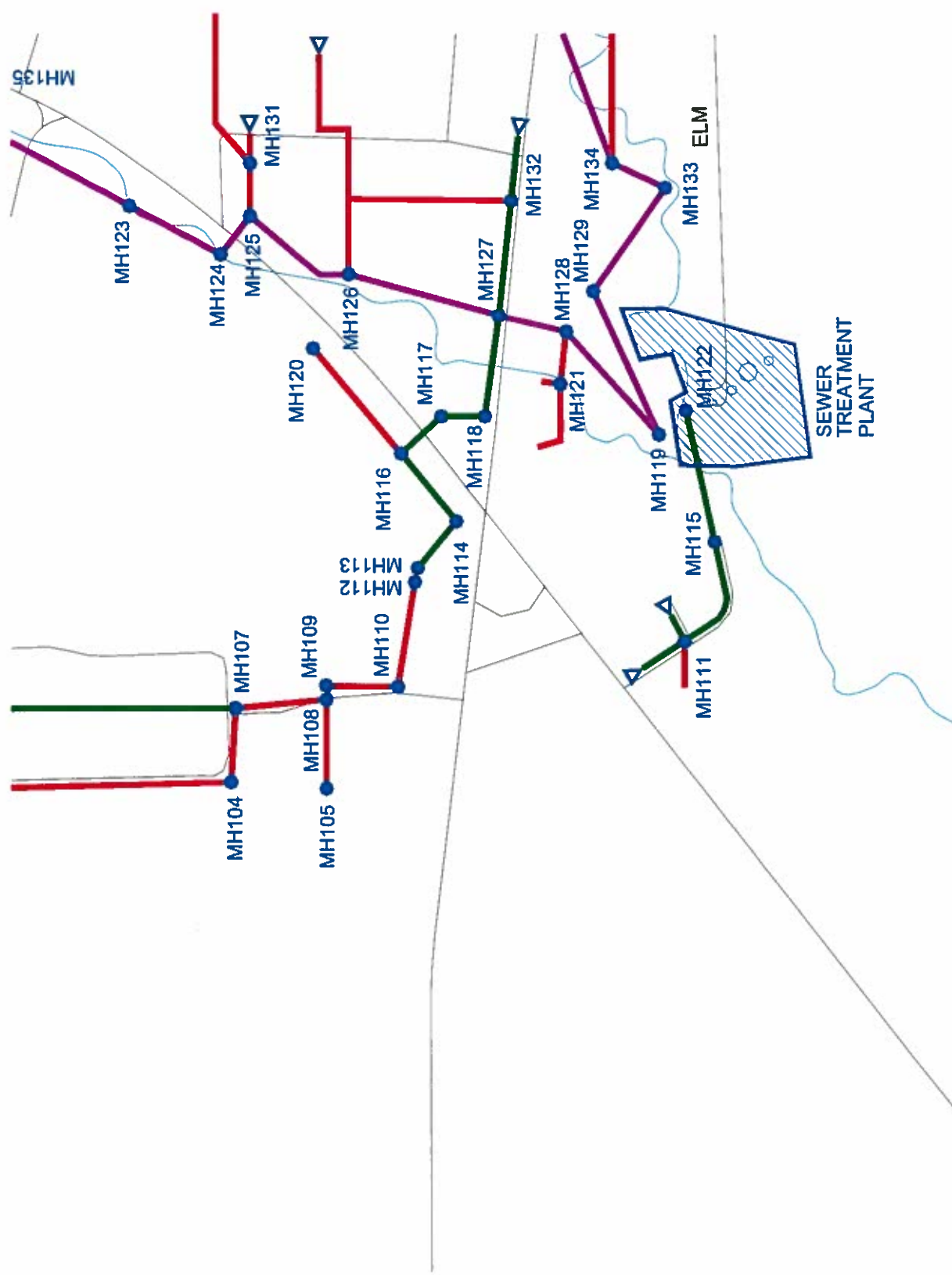


Figure 10. Waste Water System Diagram, Sheet 4

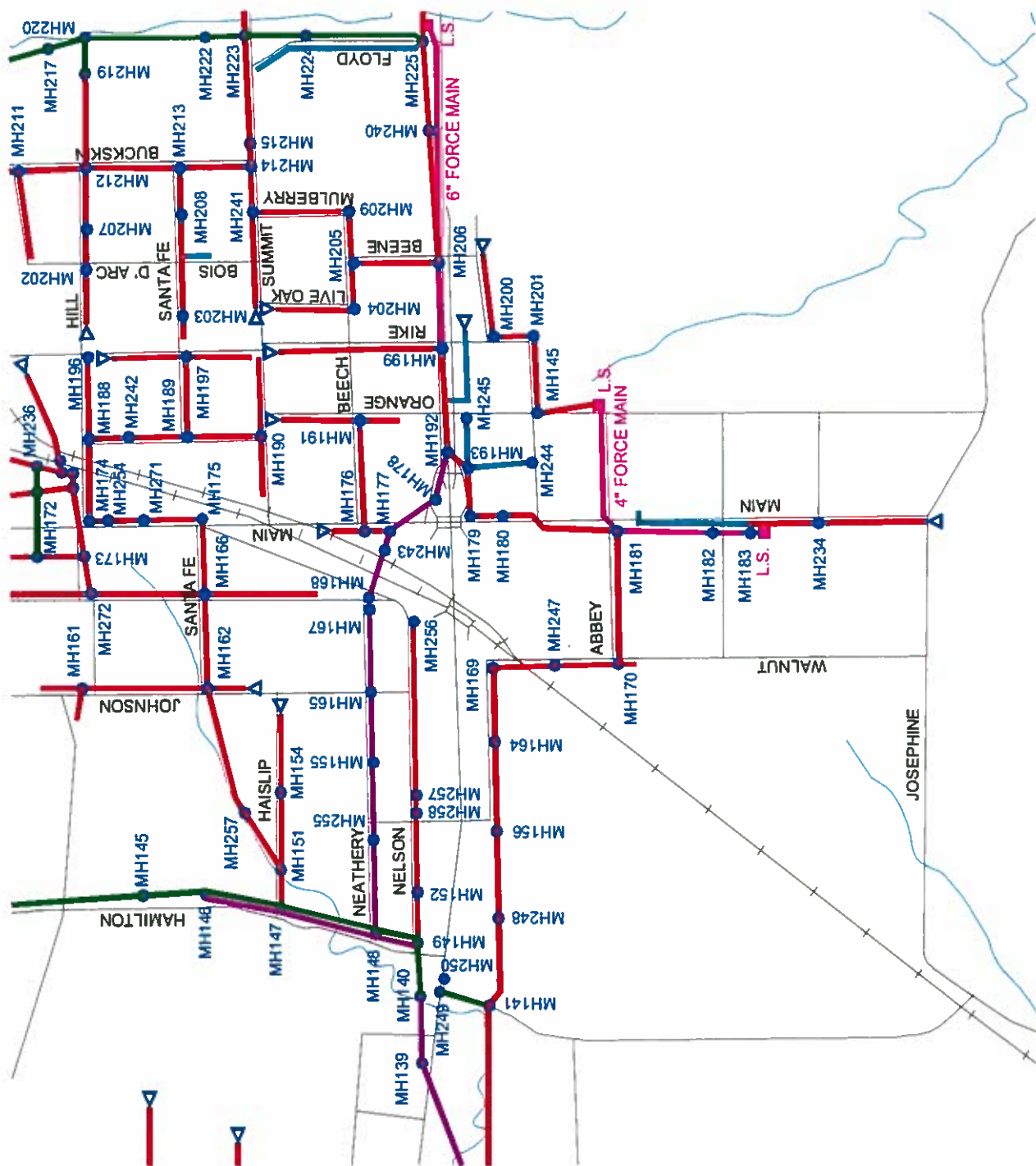


Figure 11. Waste Water System Diagram, Sheet 5

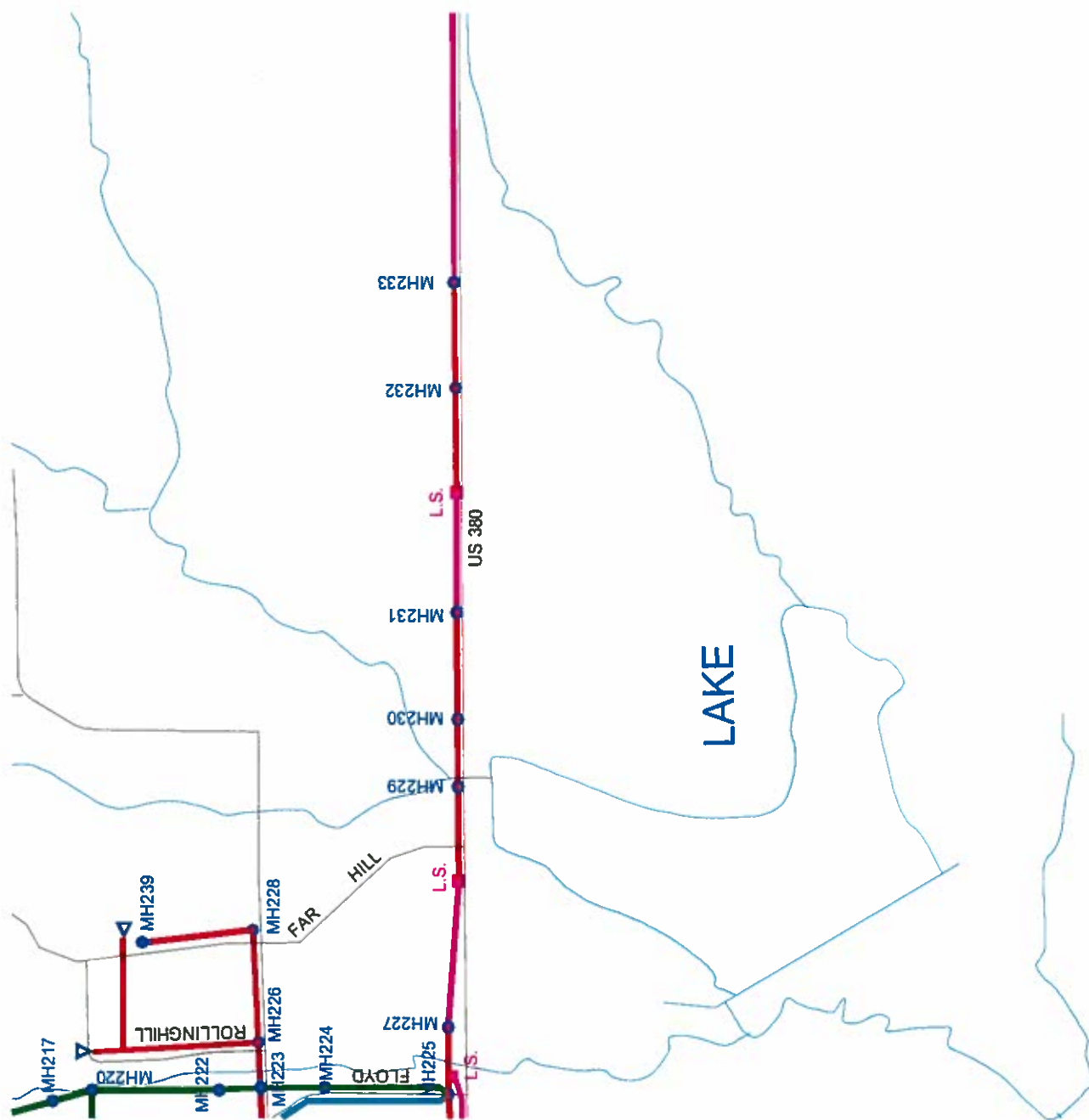
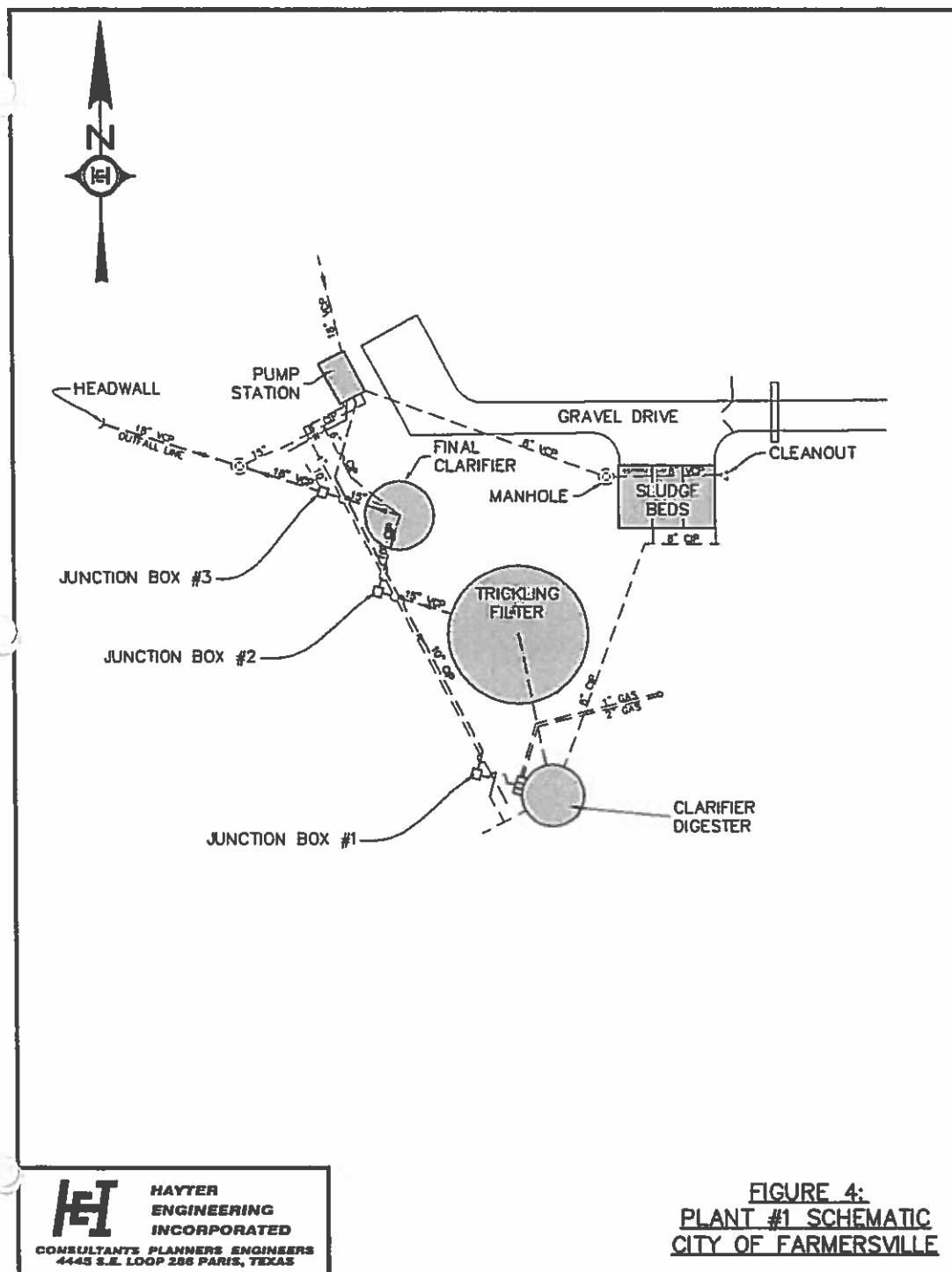


Figure 12. Waste Water System Diagram, Sheet 6



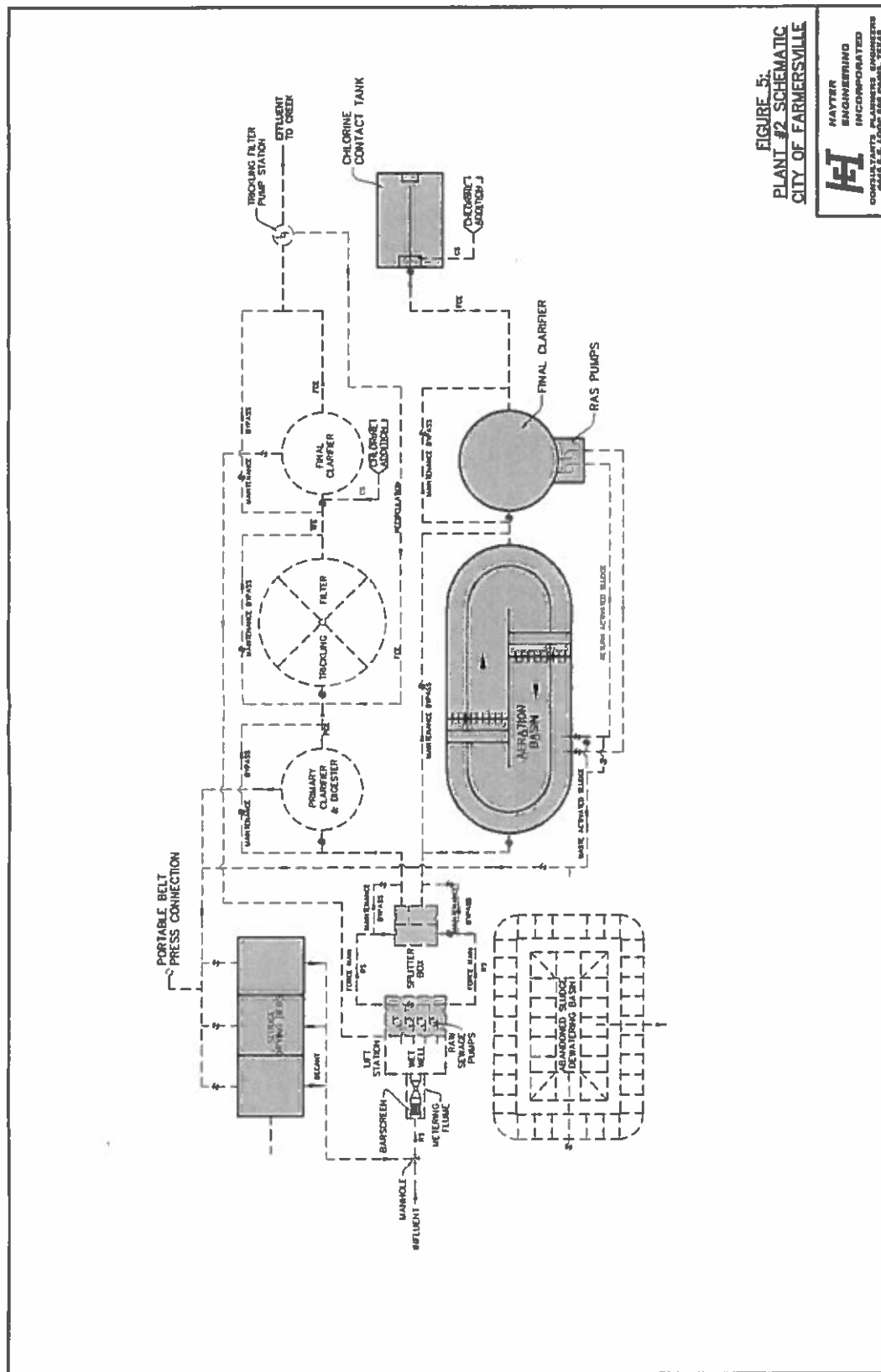


FIGURE 5:
PLANT #2 SCHEMATIC
CITY OF FARMERSVILLE

HEI
HAYTER
ENGINEERING
INCORPORATED
CONSULTANTS PLANNERS ENGINEERS
4442 E. LOOP 288 P.O. BOX 70228

**Appendix D. Water Utility Profile for Wholesale Public Water Suppliers
(TCEQ Form 20162)**

Texas Commission on Environmental Quality



**UTILITY PROFILE & WATER CONSERVATION PLAN
REQUIREMENTS
FOR WHOLESALE PUBLIC WATER SUPPLIERS**

This form is provided to assist entities in water conservation plan development for municipal water use by a retail public water supplier. Information from this form should be included within a water conservation plan for municipal use. If you need assistance in completing this form or in developing your plan, please contact the conservation staff of the Resource Protection Team in the Water Supply Division at (512) 239-4691.

GENERAL DATA

Name of Entity	City of Farmersville
Address & Zip	205 South Main Street, Farmersville, Texas, 75442
Telephone Number	972-782-6151
Facsimile Number	972-782-6604
Form Completed By	Benjamin (Ben) L. White
Title	City Manager/Public Works Director
Signature	
Date of Signature	

**RESPONSIBLE PARTY FOR WATER CONSERVATION PROGRAM
IMPLEMENTATION**

Name	Benjamin (Ben) L. White
Phone Number	972-782-6151

PROFILE

I. WHOLESALE SERVICE AREA POPULATION AND CUSTOMER DATA

A. Population and Service Area Data

Index	Question or Task Description	Answer
1	Service area size (square miles)	40
2	Current population of service area	3,516
3a	Current water population served	3,516
3b	Current wastewater population served	2,698

Index	Question or Task Description	Answer	
5	Population served previous five years	Year	Population
		2007	3,365
		2008	3,375
		2009	3,417
		2010	3,392
		2011	3,393
6	Projected population for service area in the following decades	2010	3,392
		2020	4,072
		2030	4,940
		2040	5,775
		2050	7,040
7	List source/method for the calculation of current and projected population	US Census 2010 City of Farmersville	

B. Customer Data

List (or attach) the names of all wholesale customers, amount of annual contract, and amount of the annual use for each for the previous year

Wholesale Customer	Contracted Amount (Acre-Feet)	Previous Year Amount of Water Delivered (Acre-Feet)

II. WATER USE DATA FOR SERVICE AREA

A. Water Delivery

Indicated if the water provided under wholesale contracts is treated or raw water and the annual amount for each for previous year:

Year	Amount Treated Water (Acre-Feet)	Amount Raw Water (Acre-Feet)
2011		
2012		
2013		
2014		
2015		

B. Water Accounting Data

1. Total amount of water diverted at point of diversion for previous five years (in acre-feet) for all water uses:

Year	2007	2008	2009	2010	2011
January	12,850	16,549	15,973	12,386	16,943
February	13,667	11,421	10,073	11,116	10,132
March	14,132	14,594	14,194	11,885	16,083
April	13,652	13,756	16,752	12,669	16,264
May	13,877	18,002	13,348	17,086	13,615
June	15,663	20,767	28,272	30,285	28,333
July	13,896	36,580	40,766	24,574	41,804
August	22,412	34,130	23,653	41,810	49,938
September	17,833	19,761	18,861	18,767	30,130
October	15,001	19,609	13,706	17,880	24,609
November	14,333	14,819	11,534	13,325	16,749
December	13,339	14,358	13,252	14,347	15,024
Total	180,655	234,346	220,384	226,130	279,624

2. Wholesale population served and total amount of water diverted for municipal use for previous five years:

Year	Total Population Served	Total Annual Water Diverted for Municipal Use (acre-feet)

B. Projected Water Demands

If applicable, attach projected water supply demands for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirement from such growth.

Year	Population	Projected Water Supply Demands (acre-feet)
2012	3,389	
2013	3,429	
2014	3,469	
2015	3,509	
2016	3,593	
2017	3,677	
2018	3,761	

2019	3,845	
2020	3,930	
2021	4,008	

III. WATER SUPPLY SYSTEM DATA

A. Water Supply Sources

List all current water supply sources and the amounts authorized with each:

Type	Source	Amount Authorized
Surface Water	Not applicable	0 acre-feet
Groundwater	Not applicable	0 acre-feet
Contracts	North Texas Municipal Water District	860.72 acre-feet 280,467,000 gallons
Other	Not applicable	0 acre-feet

B. Treatment and Distribution System

Index	Question or Task Description	Answer
1	Design daily capacity of system	Not applicable, treated water by NTMWD
2a	Elevated Storage Capacity	1,000 MG
2b	Ground Storage Capacity	500 MG
3	Please describe the water system and attach. Include the number of treatment plants, wells, and storage tanks. If possible, attach a sketch of the system layout.	See attachment at the end of this section.

IV. WASTEWATER SYSTEM DATA

A. Wastewater System Data

Index	Question or Task Description	Answer
1	Design capacity of wastewater treatment plant(s)	Plant No. 1 – 0.225 MGD Plant No. 2 – 0.530 MGD

2a	Briefly describe the wastewater system(s) of the area serviced by the water utility.	Farmersville's wastewater collection system transmits flow to the Farmersville WWTP site. The plant consists of two permitted plants on a single site. Plant No. 1 is a trickling filter plant with a permitted capacity of 0.225 MGD. Plant No. 2 is an activated sludge plant with a treatment capacity of 0.530 MGD.
2b	Describe how treated wastewater is disposed of. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and, if wastewater is discharged, the receiving stream.	The wastewater is treated and discharged into Elm Creek, a tributary of Lake Lavon. The City of Farmersville WWTP consists of two permitted plants; Plant No. 1 (WQ0010442001) and Plant No. 2 (WQ0010442002). The owner, and permit holder, of the wastewater plant is the City of Farmersville. The plant is operated by NTMWD.
2c	If possible, attach a sketch or map which locates the plant(s) and discharge points or disposal sites.	See attachment at the end of this section.

B. Wastewater Data for Service Area

Index	Question or Task Description	Answer
1	Percent of water service area served by wastewater system	95 %

2. Monthly volume treated for previous three years (in 1,000 gallons):

Year	2009	2010	2011
January	6,892	*17,706	11,170
February	6,115	**21,572	12,901
March	10,991	20,331	9,274
April	10,657	10,229	9,763
May	19,479	8,665	15,363
June	6,943	7,759	8,381

July	6,947	8,984	7,769
August	6,426	7,215	7,522
September	7,864	8,677	7,386
October	***21,926	7,517	7,960
November	13,805	10,059	8,450
December	16,903	7,600	11,593
Total	134,948	136,314	117,532

*January 2010, includes 1,021 from Plant No. 1

**February 2010, includes 1,797 from Plant No. 1

***October 2009, includes 1,234 from Plant No. 1

Appendix E. Water Conservation Annual Report for the North Texas Municipal Water District

Unaccounted Water (Million Gallons):				
NTMWD Deliveries	152.367	from Table above		
Other Supplies	0	from Table above		
Total Supplies	152.367	from Table above		
Total Sales	141.72661	from Table above		
Estimated Fire Use	0.025	estimated from best available data		
Estimated Line Flushing Use	1.881	estimated from best available data		
Unaccounted Water	8.73439			
% Unaccounted	6.00%			
Goal for % Unaccounted	12.00%			
Per Capita Use (Gallons per person per day)				
Total Use (MG)	109.454	from Table above (NTMWD deliveries+ other supplies - wholesale)		
Municipal Use (MG)	105.128	from Table above (NTMWD deliveries+ other supplies - industrial sales - municipal sales - wholesale - other sales)		
Residential Use (MG)	81.183	from Table above (NTMWD deliveries+ other supplies - commercial sales - public/institutional sales - industrial sales - municipal sales - wholesale - other sales)		
Estimated Population	3,301	Source: NTCOG		
Total Per Capita Use (gpcd)	90.84			
Municipal Per Capita Use (gpcd)	87.25			
Residential Per Capita Use (gpcd)	67.38			
5-year Per Capita Goal ()	144			
10-year Per Capita Goal ()	142			

Assistance requested from North Texas Municipal Water District (use additional sheets if necessary):

None.

Other (use additional sheets if necessary):

Historical Water Use Data for City of Farmersville

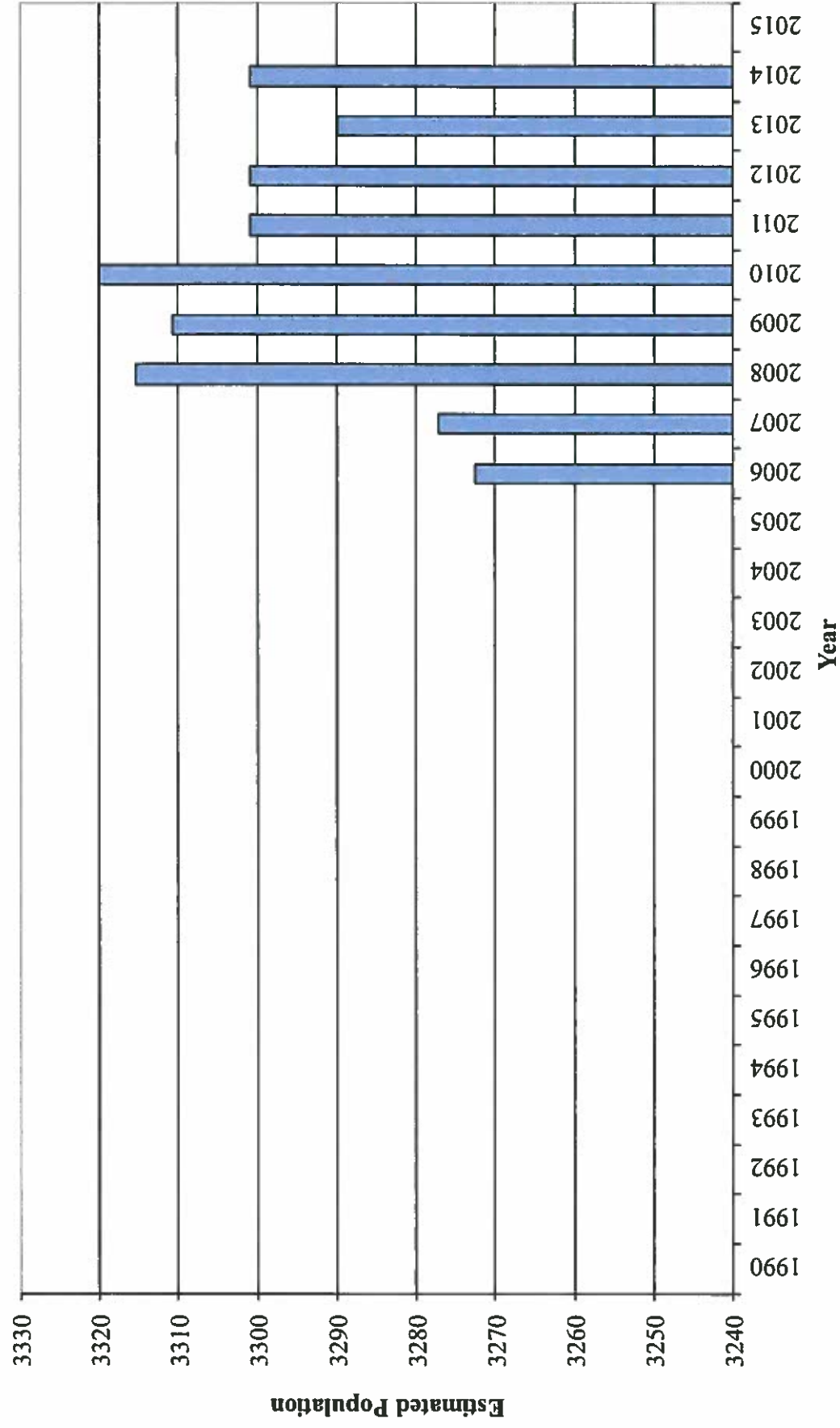
[illegible]

Historical Per Capita Use Data and Unaccounted Water for City of Farmersville

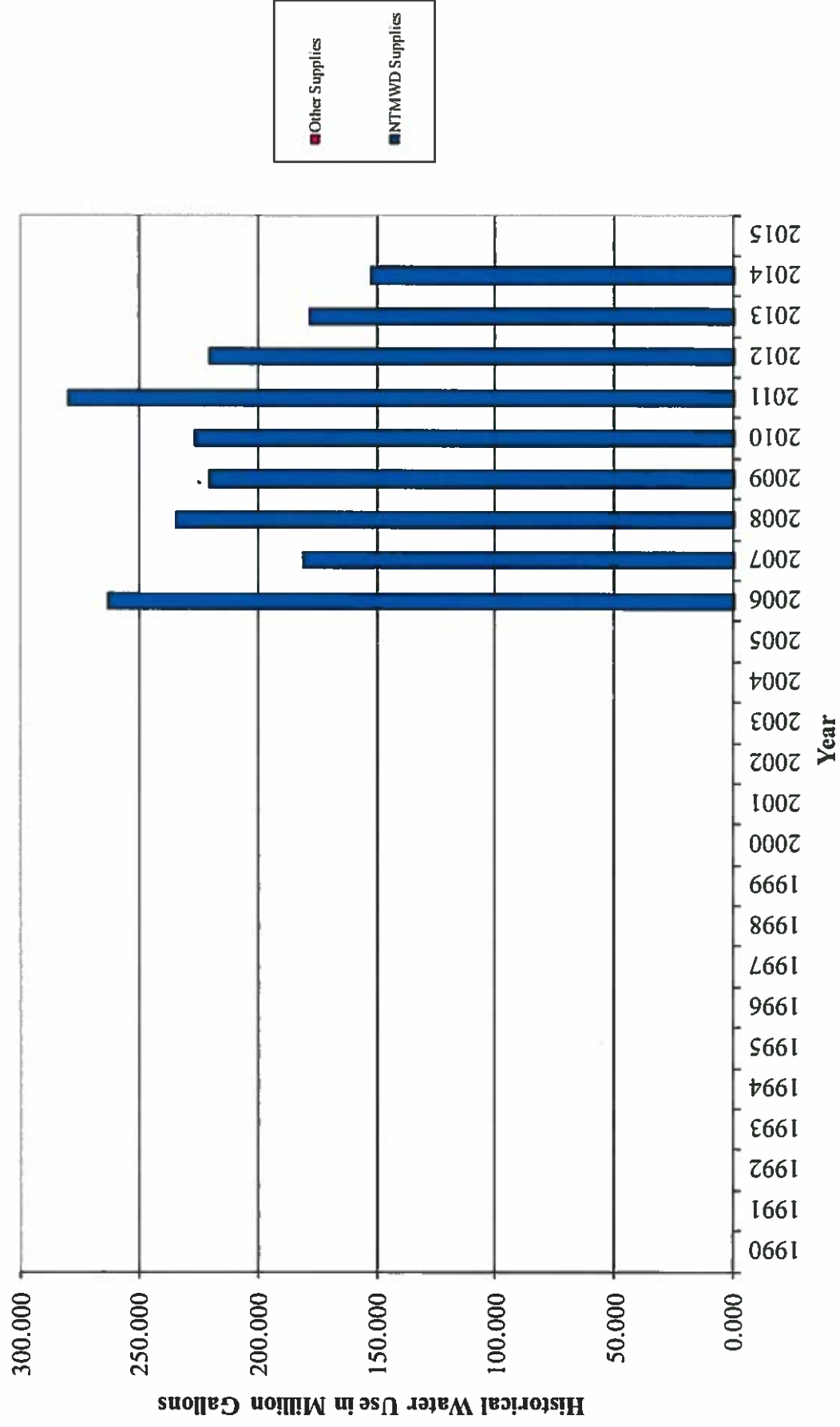
Year	Estimated Population	In-City Municipal Use (MG)	Per Capita Municipal Use (gpcd)	Deliveries from NTMWD (MG)	Other Supplies (MG)	Total Metered Sales (MG)	Estimated Fire Use (MG)	Estimated Line Flushing (MG)	Unaccounted Water (MG)	% Unaccounted
1995		0	#DIV/0!	0	0	0			0	#DIV/0!
1996		0	#DIV/0!	0	0	0			0	#DIV/0!
1997		0	#DIV/0!	0	0	0			0	#DIV/0!
1998		0	#DIV/0!	0	0	0			0	#DIV/0!
1999		0	#DIV/0!	0	0	0			0	#DIV/0!
2000		0	#DIV/0!	0	0	0			0	#DIV/0!
2001		0	#DIV/0!	0	0	0			0	#DIV/0!
2002		0	#DIV/0!	0	0	0			0	#DIV/0!
2003		0	#DIV/0!	0	0	0			0	#DIV/0!
2004		0	#DIV/0!	0	0	0			0	#DIV/0!
2005		0	#DIV/0!	0	0	0			0	#DIV/0!
2006	3273	155.505	130	263.011	0	238.247			24.764	9.00%
2007	3277	131.717	110	180.655	0	173.562			7.093	4.00%
2008	3315	152.864	126	234.346	0	213.243			21.103	9.00%
2009	3311	149.941	124	220.384	0	185.305			35.079	16.00%
2010	3320	127.425	105	226.13	0	213.132			12.998	6.00%
2011	3301	157.285	131	279.624	0	255.348			24.276	9.00%
2012	3301	139.411	115	220.498	0	197.56		0.25	22.688	10.00%
2013	3290	121.09071	101	178.108	0	156.52129	0.14	0.25	21.197	12.00%
2014	3301	105.12839	87	152.367	0	141.72661	0.025	1.881	8.734	6.00%
2015	0	0	#DIV/0!	0	0	0			0.000	#DIV/0!

Note: In-city municipal use = total water supplied less sales to industry, wholesale sales and other sales.

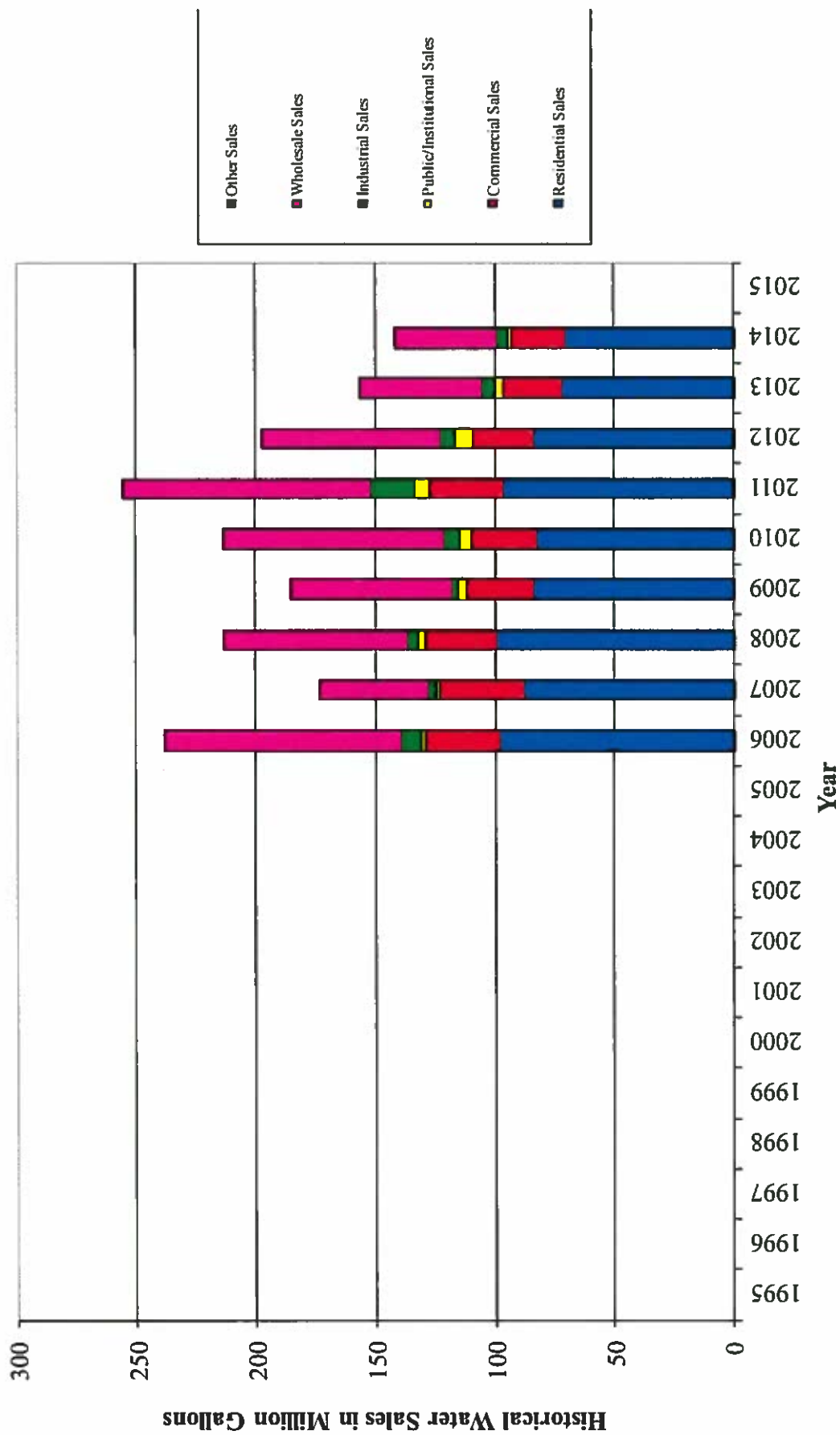
Estimated Historical Population



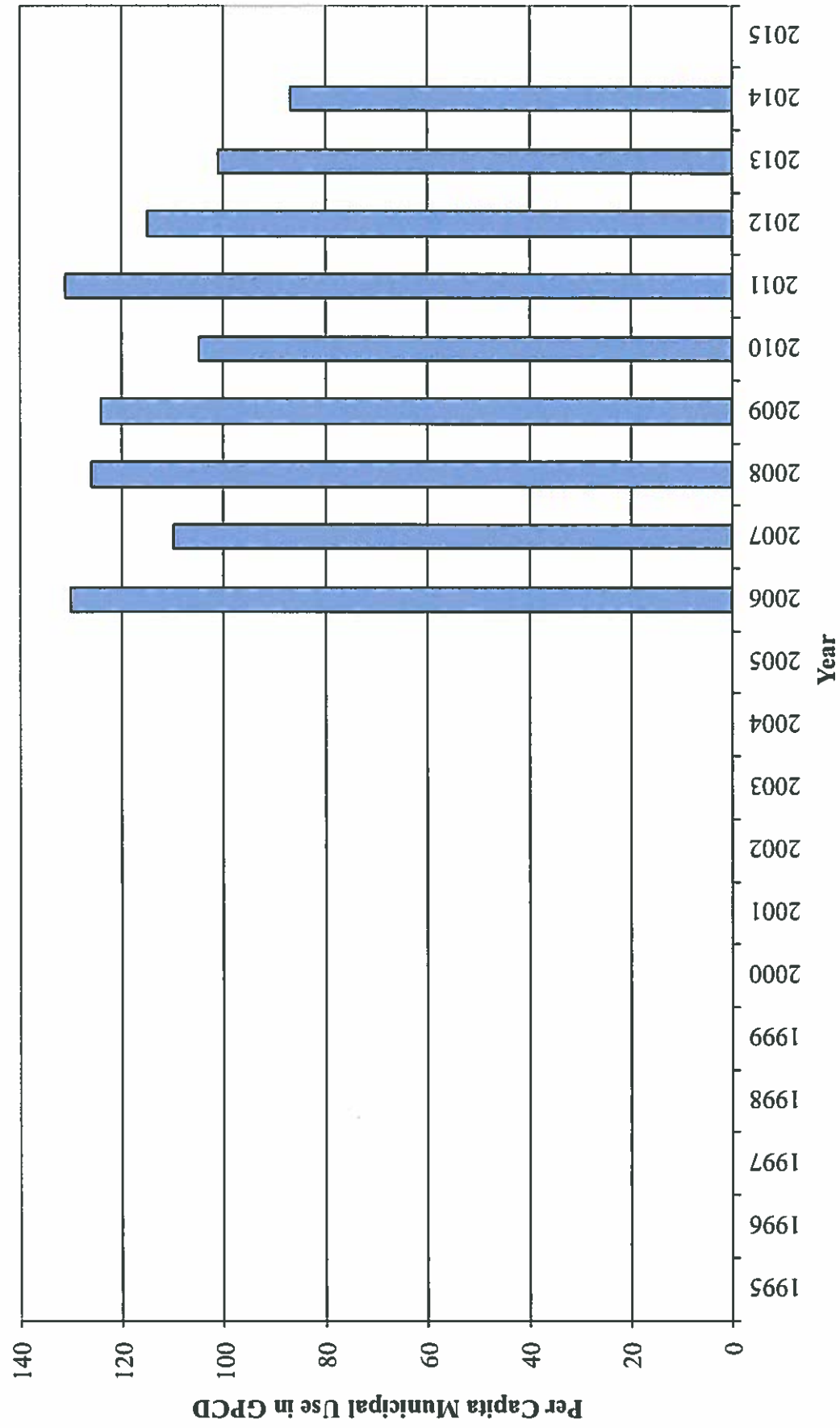
Historical Water Use



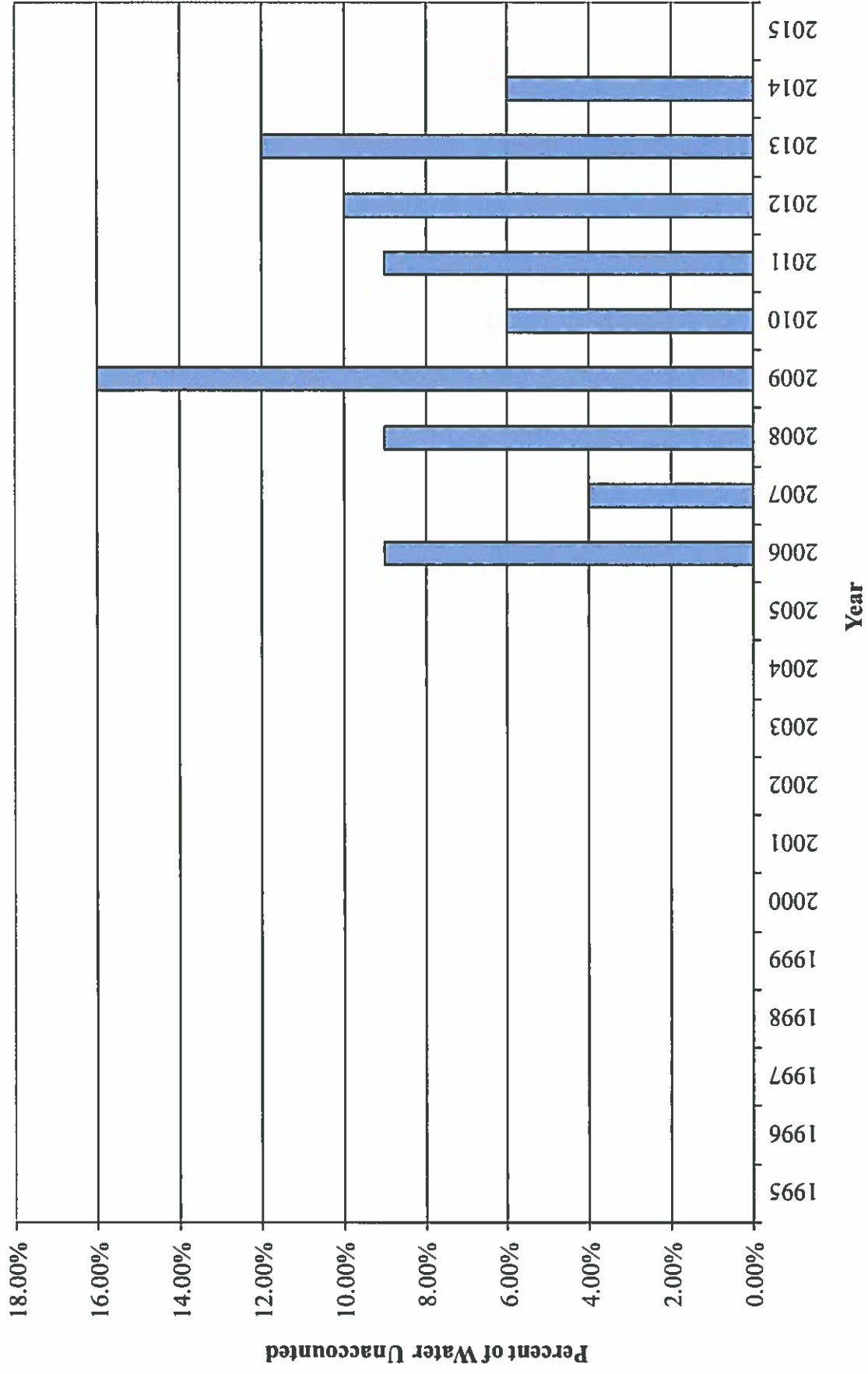
Historical Water Sales by Classification



Historical Per Capita Municipal Use



Historical Percent Unaccounted Water



Appendix F. Example Letter to Region C Water Planning Group

14 February 2016

Ms. Jody Puckett
Region C Water Planning Group Chair
City of Dallas Water Utility
1500 Marilla Street, Room 4AN
Dallas, Texas 75201

Subject: City of Farmersville Water Management Plan

Dear Ms. Puckett:

Enclosed please find a copy of the recently updated Water Management Plan for the City of Farmersville a member city of the North Texas Municipal Water District. I am submitting a copy of this plan to the Region C Water Planning Group in accordance with the Texas Water Development Board and Texas Commission on Environmental Quality rules.

Sincerely,

Benjamin L. White, P.E.
City Manager/Public Works Director
City of Farmersville
205 South Main Street
Farmersville, Texas 75442
Office Phone: 972-782-6151

**Appendix G. Water Conservation Annual Report for the Texas Water Development Board
(Form TWDB 1066)**

UTILITY DATA

Name of Utility: City of Farmersville		
Public Water Supply Identification Number (PWS ID), WR No.: 0430004		
Address: 205 South Main Street		City: Farmersville
State: Texas	Zip Code: 75442	Email: b.white@ci.farmersville.tx.us
Telephone Number: 972-782-6151		Fax: 972-782-6604
Regional Water Planning Group: C		
Form Completed By: Benjamin L. White		Date: 10/06/2011
Title: Director of Public Works		
Reporting Period (fiscal or calendar year): 01/01/2010 to 12/31/2010		

Total Gallons of Water Produced Treated or Raw (minus wholesale)	Population of Service Area	Total Gallons per Capita per Day (GPCD)*	Residential GPCD**	Total Number of Connections	Water Loss in	
					GPCD* **	Percent** **
140,790,288	3,301	117	64	1,351	23	20

- * **Total GPCD:** form calculation is made by dividing the total water produced by the population served and then dividing by 365
- ** **Residential GPCD:** user calculation is made by dividing the total single family plus multi-family residential water sales by the population served and then dividing by 365
- *** **Water Loss GPCD:** form calculation is made by dividing the amount you provide in number 7G on page 4 by the population served and then dividing by 365
- **** **Water Loss Percentage:** form calculation is made by dividing the amount you provide in number 7G on page 4 by the total gallons of water produced

Please provide the **specific and quantified five and ten-year targets** as listed in your water conservation plan:

	Total GPCD Target	Water Loss Target in GPCD	Year to Achieve Target
Five-year target	170	34	2012
Ten-year target	165	33	2017

LONG TERM WATER CONSERVATION PROGRAM

1. Approximately how much water in gallons did the utility save during the reporting period due to the overall conservation program?

Water Saved	Water Reused*	Total Water Saved	Dollar Value of Water Saved**
8,000,000	0	8,000,000	\$0

* Form inserts calculated Total from number 14 on page 6

** Based on water savings and the cost of treatment or purchase of your water, and any deferred capital costs due to conservation

2. In your opinion, how you would rank the effectiveness of your utility's conservation program?

Effective	Somewhat Effective	Less Than Effective	Not Effective	Do Not Know
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please provide additional information about any successes or problems you may have experienced in implementing your plan.

3. Education and Information Program

Please check the appropriate boxes regarding any educational and information activities your utility has provided during the reporting period:

	Implemented	Total Number
Brochures Distributed	<input type="checkbox"/>	
Messages Provided on Utility Bills	<input checked="" type="checkbox"/>	
Press Releases	<input checked="" type="checkbox"/>	
TV Public Service Announcements	<input type="checkbox"/>	
Radio Public Service Announcements	<input type="checkbox"/>	
School Program	<input type="checkbox"/>	
Displays and Presentations	<input type="checkbox"/>	
Plant Tours	<input type="checkbox"/>	
Other, please describe:		

4. Water Conservation Retrofit and Plumbing Rebate Programs

Please check the appropriate boxes regarding any plumbing fixture programs your utility has provided during the reporting period:

	Give-away	Rebate	Retrofit
Toilets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Showerheads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Faucet Aerators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, please describe:			

5. Rate Structure

Have your rates or rate structure changed since your last report? Yes ☒ No ☐
If yes, please describe the changes, or attach a copy of the new rate structure.

Please see attached.

6. Universal Metering and Meter Repair

During the reporting period what was the system-wide number of:

	Total Number	Total Tested	Total Repaired	Total Replaced
Production Meters	1,346	8	1	15
Meters larger than 1 1/2"	37	3	1	0
Meters 1 1/2" or smaller	1,309	5	0	15

Does your system have automated meter reading? Yes ☐ No ☒

7. Water Loss and Leak Detection

Please provide the following data regarding water loss in your utility during the reporting period:

	Total Gallons During the Reporting Period
A. PRODUCTION - Water treated or raw (minus Wholesale)	140,790,288
B. Water sold	112,873,255
C. Water used for line flushing	
D. Water used for fire department use	
E. Water used for flushing and storage tank cleaning	
F. Water used for any un-metered use (facility use, etc.)	
G. WATER LOSS* = A minus B,C,D,E,F	27,917,033

* WATER LOSS includes un-accounted-for water, water lost from main line breaks and customer service line breaks, and storage over-flow.

How many leaks were repaired in the system or at service connections during the reporting

period? _____

Please check the appropriate boxes regarding the main cause of water loss in your utility during the reporting period:

Leaks	<input checked="" type="checkbox"/>
Un-metered utility or city uses	<input checked="" type="checkbox"/>
Master meter problems	<input type="checkbox"/>
Customer meter problems	<input checked="" type="checkbox"/>
Record and data problems	<input type="checkbox"/>
Other, please describe:	

Would you like to receive free technical assistance or equipment from the TWDB regarding leak detection and water loss? Yes ☒ No ☐

8. Water Conservation Programs

Please check the appropriate boxes regarding what conservation programs your utility provided during the reporting period:

Landscape Program	<input type="checkbox"/>
Educational and Information Program	<input type="checkbox"/>
School Education Program	<input type="checkbox"/>
Rainwater Harvesting	<input checked="" type="checkbox"/>
Leak Detection	<input type="checkbox"/>
Water Loss	<input checked="" type="checkbox"/>
Reuse	<input type="checkbox"/>
Treated Effluent	<input type="checkbox"/>
Other, please describe:	

9. How often does your utility staff review your water conservation program? Yearly

10. What year did your utility adopt, or revise, their water conservation plan? 2008

11. What might your utility do to improve the effectiveness of your water conservation program?

Implement a program to make all the water related data more accessible via computer. A great deal of our data is currently recorded manually and this makes it very difficult to quickly analyze for detail level trends and to implement a proactive approach to water conservation. Implement a program to track unmetered losses regarding line flushing, fire department uses, etc.

12. What might the TWDB do to assist you in improving the effectiveness of your water conservation program?

--

13. If known, how much expense has your utility incurred in implementing your water conservation program during the reporting period (literature, materials, staff time, etc.)? _____ (dollars/year)

14. Recycling and Reuse of Water or Wastewater Effluent

Please provide the following data regarding what types of water recycling or reuse activities were practiced by your utility during the reporting period, and what volume:

Use	Total Annual Volume (in gallons)
On-site irrigation	0
Plant wash down	0
Chlorination/de-chlorination	0
Industrial	0
Landscape irrigation (parks, golf courses)	0
Agricultural	0
Other, please describe:	0
Total	0

Could treated effluent be substituted for certain potable water now being used? Yes ☐ No ☒

15. Drought Contingency and Emergency Water Demand Management

During the reporting period, did your utility activate its Drought Contingency Plan?

Yes ☐ Number of Days _____

No ☒

If yes, please check all the appropriate boxes for the reason why:

Reason	
Water Shortage	<input type="checkbox"/>
High Demand	<input type="checkbox"/>
Capacity Issues	<input type="checkbox"/>
Equipment Failure	<input type="checkbox"/>
Other, please describe:	

V. Regular Agenda

Agenda Section	Regular Agenda
Section Number	V.A
Subject	Consider, discuss, and act upon a mutual boundary agreement and map between the City of Farmersville and the City of Princeton
To	Mayor and Council Members
From	Ben White, City Manager
Date	February 9, 2016
Attachment(s)	City of Farmersville and City of Princeton Agreement Regarding Jurisdictional Boundaries; Map
Related Link(s)	http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php
Consideration and Discussion	<ul style="list-style-type: none"> • Consider attached agreement • City Council discussion as required
Action	<ul style="list-style-type: none"> • Provide staff direction for future action

**INTERLOCAL COOPERATION AGREEMENT
REGARDING JURISDICTIONAL BOUNDARIES BY AND BETWEEN
THE CITY OF FARMERSVILLE AND THE CITY OF PRINCETON**

THIS INTERLOCAL COOPERATION AGREEMENT regarding jurisdictional boundaries is made and entered into by and between the City of Farmersville, Texas (hereinafter "Farmersville") and the City of Princeton, Texas (hereinafter "Princeton"), which cities are collectively referred to as the "Parties."

WHEREAS, Farmersville is a Type A General Law municipality in Collin County, Texas; and

WHEREAS, Princeton is a Type A General Law municipality in Collin County, Texas; and

WHEREAS, the Parties are municipalities that currently, or will in the future, share common boundaries; and

WHEREAS, pursuant to Section 43.021 of the Local Government Code, the Parties are authorized and empowered to fix their boundaries and exchange area with other municipalities, and pursuant to Section 43.031 of the Local Government Code may make mutually agreeable changes in their boundaries that are less than 1,000 feet in width; and

WHEREAS, the Parties are further empowered pursuant to Section 42.023 of the Local Government Code to reduce their extraterritorial jurisdiction by ordinance or resolution; and

WHEREAS, the Parties seek to avoid certain conflicts and uncertainty relative to the extent and location of their respective corporate limits and current and/or future extraterritorial jurisdiction ("ETJ"), and the potential for litigation involving the same; and

WHEREAS, Farmersville and Princeton have each reviewed their respective corporate boundaries and ETJ based upon their respective populations, the principles set forth in Chapter 42 of the Texas Local Government Code, and the location of their respective ETJ boundaries and have determined that certain areas would be better served by the municipal services of the Parties as reflected in the boundary and proposed ETJ map (the "Map") attached hereto as Exhibit "A" and incorporated herein by reference for all purposes allowed by law; and

WHEREAS, the Cities find and determine it necessary for the health, safety and welfare of their residents to confirm boundaries and make certain agreements and adjustments regarding their respective corporate boundaries and the ETJ; and

WHEREAS, the Texas Interlocal Cooperation Act, contained in Chapter 791 of the Texas Government Code, authorizes Texas local governments to contract with one or more other local governments to perform governmental functions and services under the terms of said Act; and

WHEREAS, the Parties wish to avail themselves of the rights and privileges afforded by the Interlocal Cooperation Act and have determined that this Agreement is in each party's best interests as well as in the best interests of the citizens; and

WHEREAS, the Parties desire to adopt the Map showing their respective boundaries and proposed ETJ in accordance with Chapter 41 of the Texas Local Government Code, a copy of which Map is attached hereto as Exhibit "A".

NOW, THEREFORE, in consideration of the covenants and conditions contained in this Agreement, Farmersville and Princeton agree as follows:

Article 1: Recitals Incorporated

- 1.01 All of the foregoing recitals are hereby found to be true and correct and they are hereby approved and incorporated into the body of this Agreement as if copied in their entirety.

Article 2: Definitions

- 2.01 "Boundary Line" means the line dividing the adjoining or adjacent territory to the Parties' municipal boundaries as depicted on the Map attached hereto and incorporated herein as Exhibit "A." The territory is an area over which each Party has now or may obtain jurisdictional authority on their respective side of that line.
- 2.02 "Jurisdictional Authority" means a municipality's right or ability to regulate one or more conditions or uses within the territory whether it is within its corporate limits or ETJ, as defined by state law, or in an area where planning for future growth of Party has or may occur consistent with Exhibit "A."

Article 3: Boundary Delineation

- 3.01 Farmersville and Princeton hereby agree to the establishment of the Boundary Line, as depicted on Exhibit "A" and it shall be the dividing line between the two Parties for purposes of establishing Jurisdictional Authority.
- 3.02 Farmersville shall, to the extent permitted by law, have Jurisdictional Authority over the area east of the Boundary Line and does hereby expressly abandon and relinquish Jurisdictional Authority, if any, to the area west of the Boundary Line, and further agrees it shall not extend its Jurisdictional Authority to the area west of the Boundary Line.
- 3.03 Princeton shall, to the extent permitted by law, have Jurisdictional Authority over the area west of the Boundary Line and does hereby expressly abandon and relinquish Jurisdictional Authority, if any, to the area east of the Boundary Line, and further agrees it shall not extend its Jurisdictional Authority to the area east of the Boundary Line.
- 3.04 The Parties agree to declare the area over which each of the Parties has or will have Jurisdictional Authority with respect to the Boundary Line.

Article 4: Miscellaneous

- 4.01 This Agreement shall be governed by, construed and enforced under the laws of the State of Texas.
- 4.02 The obligations and undertakings of each of the Parties to this Agreement shall be performed in Collin County, Texas. The Parties agree that exclusive venue for any action pursuant to this Agreement shall be in Collin County, Texas.
- 4.03 This Agreement contains the entire agreement of Farmersville and Princeton with respect to the subject matter of the Agreement. No agreement, statement, or promise made by either of the Parties to any party or to any employee, agent, or officer of one of the Parties that is not contained in this Agreement shall be valid, binding, or of any force or effect. Any amendments to this Agreement must be in writing and signed by the Parties to be enforceable.
- 4.04 This Agreement shall not be assigned without the prior written consent of the other Party.
- 4.05 This Agreement shall be deemed drafted equally by the Parties. The language of all parts of this Agreement shall be construed as a whole according to its fair meaning, and any presumption or principle that the language herein is to be construed against either of the Parties shall not apply.
- 4.06 In the event that one or more of the provisions contained in this Agreement for any reason shall be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability of this Agreement shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein, but shall not affect the remaining provisions of this Agreement, which shall remain in full force and effect..
- 4.07 In the event of any dispute regarding this Interlocal Agreement or the terms contained herein, the Parties agree that they shall submit such dispute to non-binding mediation.
- 4.08 The persons signing this Agreement on behalf of the Parties hereby represent that they have been duly authorized and empowered to sign this Agreement on behalf of their respective Parties.
- 4.09 The effective date of this Agreement shall be the latter of the date as signed by each Mayor after a properly held City Council meeting where a majority of the governing body voted in favor of this Agreement.
- 4.10 The Parties hereto agree that they shall adopt such joint ordinance or joint resolution or take such other action as may be necessary to accomplish the purpose of this Agreement. The adoption of any such ordinance or resolution or the performance of any other action hereunder shall be contingent, and neither shall be deemed effective nor enforceable by one of the Parties against the other, unless and until such time as both Parties have adopted

such a joint ordinance or joint resolution or taken such other necessary acts as mirror the other's acts. Provided, however, that upon adoption of any such joint ordinance or joint resolution or the taking of any necessary act by both of the Parties, the Parties agree that the effective date of this Agreement shall be the date upon which Farmersville approves this Agreement.

- 4.11 This Agreement is drafted for the benefit of the Parties, and does not and shall not confer or extend any benefit or privilege to any third party.

IN WITNESS WHEREOF, the Parties hereto have set their hands by their representatives who are duly authorized by their respective governing bodies on the date indicated below.

CITY OF FARMERSVILLE

Joseph E. Helmberger, P.E., Mayor

Date: _____

ATTEST:

Paula Jackson, Interim City Secretary

CITY OF PRINCETON

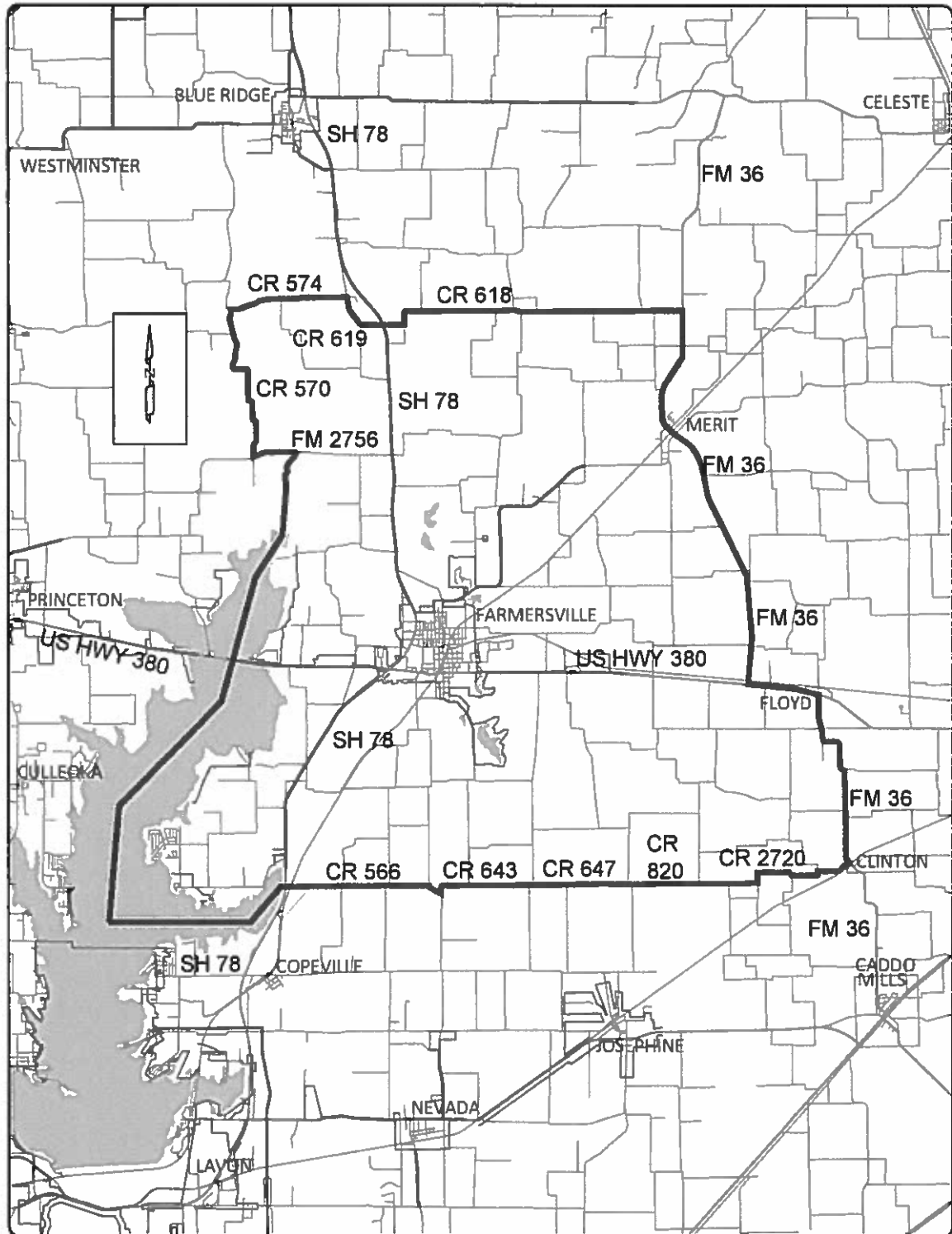
John-Mark Caldwell, Mayor

Date: _____

ATTEST:

Lesia Thornhill, City Secretary

Exhibit "A"



Agenda Section	Regular Agenda
Section Number	V.B
Subject	Consider, discuss, and act upon a mutual boundary agreement and map between the City of Farmersville and the City of Blue Ridge
To	Mayor and Council Members
From	Ben White, City Manager
Date	February 9, 2016
Attachment(s)	City of Farmersville and City of Blue Ridge Agreement Regarding Jurisdictional Boundaries; Map
Related Link(s)	http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php
Consideration and Discussion	<ul style="list-style-type: none"> • Consider attached agreement • City Council discussion as required
Action	<ul style="list-style-type: none"> • Provide staff direction for future action

**INTERLOCAL COOPERATION AGREEMENT
REGARDING JURISDICTIONAL BOUNDARIES BY AND BETWEEN
THE CITY OF FARMERSVILLE AND THE CITY OF BLUE RIDGE**

THIS INTERLOCAL COOPERATION AGREEMENT regarding jurisdictional boundaries is made and entered into by and between the City of Farmersville, Texas (hereinafter "Farmersville") and the City of Blue Ridge, Texas (hereinafter "Blue Ridge"), which cities are collectively referred to as the "Parties."

WHEREAS, Farmersville is a Type A General Law municipality in Collin County, Texas; and

WHEREAS, Blue Ridge is a Type A General Law municipality in Collin County, Texas; and

WHEREAS, the Parties are municipalities that currently, or will in the future, share common boundaries; and

WHEREAS, pursuant to Section 43.021 of the Local Government Code, the Parties are authorized and empowered to fix their boundaries and exchange area with other municipalities, and pursuant to Section 43.031 of the Local Government Code may make mutually agreeable changes in their boundaries that are less than 1,000 feet in width; and

WHEREAS, the Parties are further empowered pursuant to Section 42.023 of the Local Government Code to reduce their extraterritorial jurisdiction by ordinance or resolution; and

WHEREAS, the Parties seek to avoid certain conflicts and uncertainty relative to the extent and location of their respective corporate limits and current and/or future extraterritorial jurisdiction ("ETJ"), and the potential for litigation involving the same; and

WHEREAS, Farmersville and Blue Ridge have each reviewed their respective corporate boundaries and ETJ based upon their respective populations, the principles set forth in Chapter 42 of the Texas Local Government Code, and the location of their respective ETJ boundaries and have determined that certain areas would be better served by the municipal services of the Parties as reflected in the boundary and proposed ETJ map (the "Map") attached hereto as Exhibit "A" and incorporated herein by reference for all purposes allowed by law; and

WHEREAS, the Cities find and determine it necessary for the health, safety and welfare of their residents to confirm boundaries and make certain agreements and adjustments regarding their respective corporate boundaries and the ETJ; and

WHEREAS, the Texas Interlocal Cooperation Act, contained in Chapter 791 of the Texas Government Code, authorizes Texas local governments to contract with one or more other local governments to perform governmental functions and services under the terms of said Act; and

WHEREAS, the Parties wish to avail themselves of the rights and privileges afforded by the Interlocal Cooperation Act and have determined that this Agreement is in each party's best interests as well as in the best interests of the citizens; and

WHEREAS, the Parties desire to adopt the Map showing their respective boundaries and proposed ETJ in accordance with Chapter 41 of the Texas Local Government Code, a copy of which Map is attached hereto as Exhibit "A".

NOW, THEREFORE, in consideration of the covenants and conditions contained in this Agreement, Farmersville and Blue Ridge agree as follows:

Article 1: Recitals Incorporated

- 1.01 All of the foregoing recitals are hereby found to be true and correct and they are hereby approved and incorporated into the body of this Agreement as if copied in their entirety.

Article 2: Definitions

- 2.01 "Boundary Line" means the line dividing the adjoining or adjacent territory to the Parties' municipal boundaries as depicted on the Map attached hereto and incorporated herein as Exhibit "A." The territory is an area over which each Party has now or may obtain jurisdictional authority on their respective side of that line.
- 2.02 "Jurisdictional Authority" means a municipality's right or ability to regulate one or more conditions or uses within the territory whether it is within its corporate limits or ETJ, as defined by state law, or in an area where planning for future growth of Party has or may occur consistent with Exhibit "A."

Article 3: Boundary Delineation

- 3.01 Farmersville and Blue Ridge hereby agree to the establishment of the Boundary Line, as depicted on Exhibit "A" and it shall be the dividing line between the two Parties for purposes of establishing Jurisdictional Authority.
- 3.02 Farmersville shall, to the extent permitted by law, have Jurisdictional Authority over the area east of the Boundary Line and does hereby expressly abandon and relinquish Jurisdictional Authority, if any, to the area west of the Boundary Line, and further agrees it shall not extend its Jurisdictional Authority to the area west of the Boundary Line.
- 3.03 Blue Ridge shall, to the extent permitted by law, have Jurisdictional Authority over the area west of the Boundary Line and does hereby expressly abandon and relinquish Jurisdictional Authority, if any, to the area east of the Boundary Line, and further agrees it shall not extend its Jurisdictional Authority to the area east of the Boundary Line.
- 3.04 The Parties agree to declare the area over which each of the Parties has or will have Jurisdictional Authority with respect to the Boundary Line.

Article 4: Miscellaneous

- 4.01 This Agreement shall be governed by, construed and enforced under the laws of the State of Texas.
- 4.02 The obligations and undertakings of each of the Parties to this Agreement shall be performed in Collin County, Texas. The Parties agree that exclusive venue for any action pursuant to this Agreement shall be in Collin County, Texas.
- 4.03 This Agreement contains the entire agreement of Farmersville and Blue Ridge with respect to the subject matter of the Agreement. No agreement, statement, or promise made by either of the Parties to any party or to any employee, agent, or officer of one of the Parties that is not contained in this Agreement shall be valid, binding, or of any force or effect. Any amendments to this Agreement must be in writing and signed by the Parties to be enforceable.
- 4.04 This Agreement shall not be assigned without the prior written consent of the other Party.
- 4.05 This Agreement shall be deemed drafted equally by the Parties. The language of all parts of this Agreement shall be construed as a whole according to its fair meaning, and any presumption or principle that the language herein is to be construed against either of the Parties shall not apply.
- 4.06 In the event that one or more of the provisions contained in this Agreement for any reason shall be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability of this Agreement shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein, but shall not affect the remaining provisions of this Agreement, which shall remain in full force and effect.
- 4.07 In the event of any dispute regarding this Interlocal Agreement or the terms contained herein, the Parties agree that they shall submit such dispute to non-binding mediation.
- 4.08 The persons signing this Agreement on behalf of the Parties hereby represent that they have been duly authorized and empowered to sign this Agreement on behalf of their respective Parties.
- 4.09 The effective date of this Agreement shall be the latter of the date as signed by each Mayor after a properly held City Council meeting where a majority of the governing body voted in favor of this Agreement.
- 4.10 The Parties hereto agree that they shall adopt such joint ordinance or joint resolution or take such other action as may be necessary to accomplish the purpose of this Agreement. The adoption of any such ordinance or resolution or the performance of any other action hereunder shall be contingent, and neither shall be deemed effective nor enforceable by one of the Parties against the other, unless and until such time as both Parties have adopted

such a joint ordinance or joint resolution or taken such other necessary acts as mirror the other's acts. Provided, however, that upon adoption of any such joint ordinance or joint resolution or the taking of any necessary act by both of the Parties, the Parties agree that the effective date of this Agreement shall be the date upon which Farmersville approves this Agreement.

- 4.11 This Agreement is drafted for the benefit of the Parties, and does not and shall not confer or extend any benefit or privilege to any third party.

IN WITNESS WHEREOF, the Parties hereto have set their hands by their representatives who are duly authorized by their respective governing bodies on the date indicated below.

CITY OF FARMERSVILLE

Joseph E. Helmberger, P.E., Mayor

Date: _____

ATTEST:

Paula Jackson, Interim City Secretary

CITY OF BLUE RIDGE

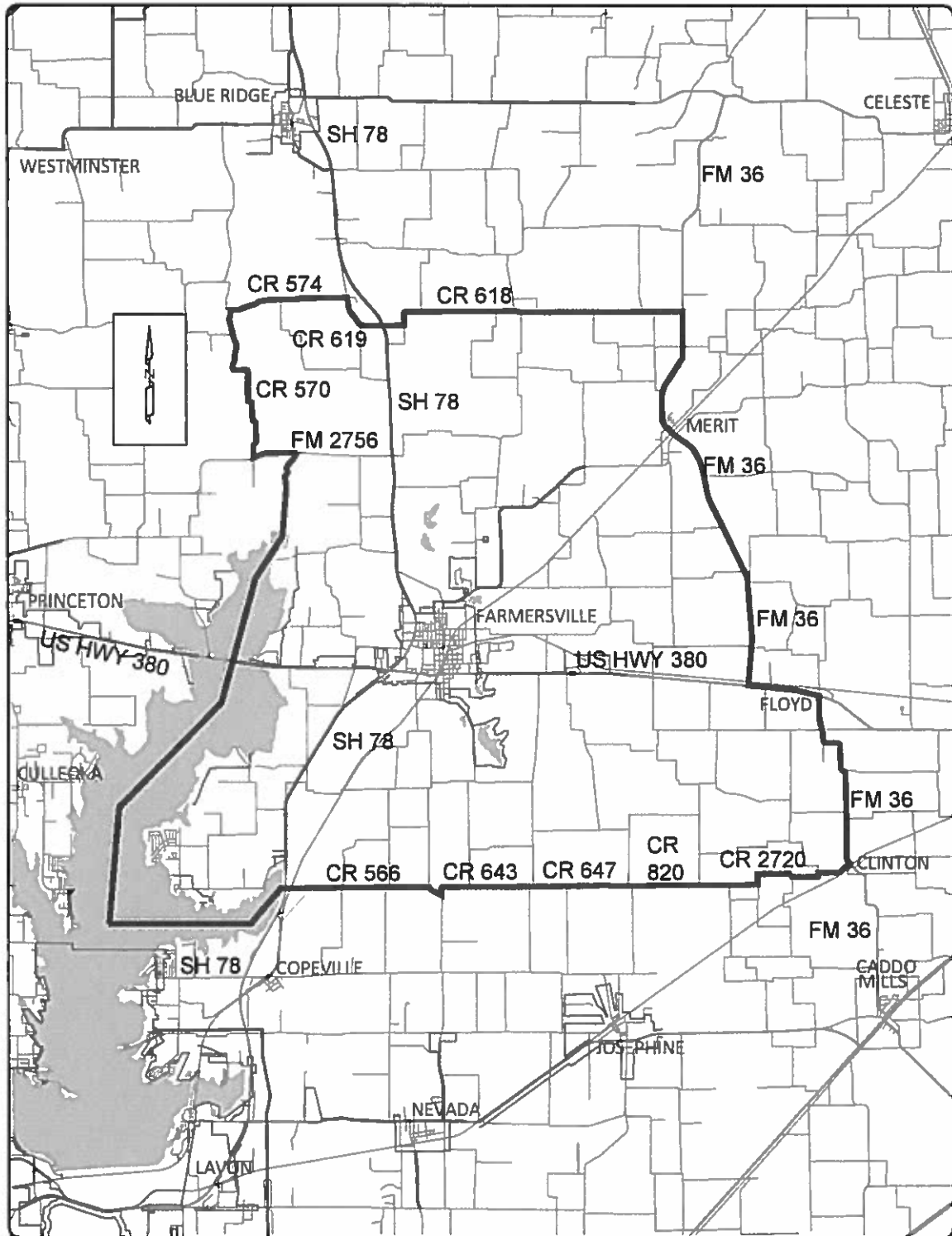
Rhonda Williams, Mayor

Date: _____

ATTEST:

Nacy Southard, City Secretary

Exhibit "A"



Agenda Section	Regular Agenda
Section Number	V.C
Subject	Consider, discuss, and act upon renovations for the Charles R. Curington Public Safety Building
To	Mayor and Council Members
From	Ben White, City Manager
Date	February 9, 2016
Attachment(s)	None
Related Link(s)	http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php
Consideration and Discussion	<p>City Manager to discuss:</p> <ul style="list-style-type: none"> • Current condition and issues related to the Public Safety Building • Estimates for repair <p>City Council discussion as required.</p>
Action	<ul style="list-style-type: none"> • Provide staff direction for future action • Motion/second/vote <ul style="list-style-type: none"> <input type="checkbox"/> Approve <input type="checkbox"/> Disapprove • Motion/second/vote to continue to a later date. _____ <ul style="list-style-type: none"> <input type="checkbox"/> Approve <input type="checkbox"/> Disapprove • Move item to another agenda. _____ • No motion, no action

Agenda Section	Regular Agenda
Section Number	V.D
Subject	Consider, discuss, and act upon recommendations concerning engineering and construction budget for the new wastewater treatment plan
To	Mayor and Council Members
From	Ben White, City Manager
Date	February 9, 2016
Attachment(s)	None
Related Link(s)	http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php
Consideration and Discussion	<ul style="list-style-type: none"> • Jeff James from Kimley-Horn to discuss latest estimates and recommendations concerning the wastewater treatment plant. • City Council discussion as required.
Action	<ul style="list-style-type: none"> • Provide staff direction for future action

Agenda Section	Regular Agenda
Section Number	V.E
Subject	Consider, discuss, and act upon the placement of trash cans in the front of businesses
To	Mayor and Council Members
From	Ben White, City Manager
Date	February 9, 2016
Attachment(s)	NA
Related Link(s)	http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php
Consideration and Discussion	City Council discussion as required.
Action	<ul style="list-style-type: none"> • Motion/second/vote <ul style="list-style-type: none"> <input type="checkbox"/> Approve <input type="checkbox"/> Approve with Updates <input type="checkbox"/> Disapprove • Motion/second/vote to continue to a later date. _____ <ul style="list-style-type: none"> <input type="checkbox"/> Approve <input type="checkbox"/> Disapprove • Move item to another agenda. _____ • No motion, no action

Agenda Section	Regular Agenda
Section Number	V.F
Subject	Consider, discuss, and act upon tornado clean-up of two commercial buildings located on Hwy. 380
To	Mayor and Council Members
From	Ben White, City Manager
Date	February 9, 2016
Attachment(s)	NA
Related Link(s)	http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php
Consideration and Discussion	<ul style="list-style-type: none"> • Chief Sullivan to provide information concerning the two properties. • City Council discussion as required.
Action	<ul style="list-style-type: none"> • Motion/second/vote <ul style="list-style-type: none"> <input type="checkbox"/> Approve <input type="checkbox"/> Approve with Updates <input type="checkbox"/> Disapprove • Motion/second/vote to continue to a later date. _____ <ul style="list-style-type: none"> <input type="checkbox"/> Approve <input type="checkbox"/> Disapprove • Move item to another agenda. _____ • No motion, no action

Agenda Section	Regular Agenda
Section Number	V.G
Subject	Consider, discuss, and act upon any actions involving the accident at Dairy Queen
To	Mayor and Council Members
From	Ben White, City Manager
Date	February 9, 2016
Attachment(s)	NA
Related Link(s)	http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php
Consideration and Discussion	<ul style="list-style-type: none"> • Chief Sullivan to provide latest information concerning the incident. • City Council discussion as required.
Action	<ul style="list-style-type: none"> • Staff direction as required.

Agenda Section	Regular Agenda
Section Number	V.H
Subject	Consider, discuss and act upon appointment to fill the following board vacancies
To	Mayor and Council Members
From	Ben White, City Manager
Date	February 9, 2016
Attachment(s)	Board personnel recommendations
Related Link(s)	http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php
Consideration and Discussion	City Council discussion as required.
Action	<ul style="list-style-type: none"> • Motion/second/vote <ul style="list-style-type: none"> <input type="checkbox"/> Approve <input type="checkbox"/> Approve with Updates <input type="checkbox"/> Disapprove • Motion/second/vote to continue to a later date. _____ <ul style="list-style-type: none"> <input type="checkbox"/> Approve <input type="checkbox"/> Disapprove • Move item to another agenda. _____ • No motion, no action

Applicants for the following Boards & Commissions

1. **Parks and Recreation Board:** Miranda Martin to replace Todd Rolen
2. **Senior Citizens Advisory Board:** Roberta Walters or Cathy Strong to replace Rafiq Huddleston
3. **Planning & Zoning Commission:** Russel Chandler to replace Todd Rolen

VI. Public Comment

VII. Requests to be Placed on Future Agendas

VIII. Adjournment