

ORDINANCE NO. 2184

AN ORDINANCE OF THE CITY OF TERRELL, TEXAS, AMENDING THE WATER CONSERVATION AND DROUGHT CONTINGENCY PLAN, AS ADOPTED BY ORDINANCE NO. 2176, BY REVISING SECTION II THEREOF AND ADDING SECTION XIV THERETO, PROVIDING SEVERABILITY AND AN EFFECTIVE DATE.

WHEREAS, certain revisions to the Water Conservation and Drought Contingency Plan, heretofore adopted by this body by Ordinance No. 2176, are required in order for said Plan to better conform with Title 30 Chapter 288 of the Texas Administrative Code and applicable rules of the Texas Commission on Environmental Quality; NOW THEREFORE,

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF TERRELL, TEXAS:

ARTICLE 1.

That Section II of the said Water Conservation and Drought Contingency Plan be and is hereby revised to read as follows:

SECTION II: SYSTEM OVERVIEW AND APPROACH

A. SYSTEM PROFILE

1. IN GENERAL

The City of Terrell is an incorporated municipality with city limits encompassing approximately 20 square miles. The City provides direct (retail) water and sewer service to its residents and wholesale water (only) service to seven (7) area rural water supply corporations. The names of the latter systems are College Mound Water Supply Corporation (WSC), Poetry WSC, High Point WSC, North Kaufman WSC, Lawrence WSC, Rosehill WSC and Elmo WSC. Terrell is the sole source of supply for Poetry, Lawrence and Elmo. With the exception of the Poetry system, which extends into Rockwall and Hunt Counties, all service provided by the City is within Kaufman County, one of the 16 northeastern counties that make up Regional Water Planning Area C, as defined by the State of Texas and administered by the Texas Water Development Board (TWDB) and the Texas Commission on Environmental Quality (TCEQ).

2. POPULATION DATA

The historical and projected populations of the city are:

US Census

1980 13,225

1990 12,490

2000 13,606

Region C Projected

2010 15,196

2020 18,642

2030 21,664

2040 23,650

2050 25,599

3. WATER SUPPLY

(a) The city receives its surface water supply from the New Terrell City Lake at Elmo, which is in the Trinity River Basin. The city owns and operates the reservoir and has water rights for 6,000 acre-feet of water per year. The reservoir refills during years of normal rainfall. Water is removed through an intake structure on the southern side of the lake.

(b) The City also has a contract with the Sabine River Authority for an additional 10,081 acre-feet per year of water from Lake Tawakoni. A pump station is located on Lake Tawakoni that can pump up to 9 MGD. The water is not delivered directly to the treatment plant, but, when transferred, discharges from a 24" pipeline into the upper end of the City Lake.

(c) The city uses approximately 4,381 acre-feet of water annually. The New Terrell City Lake provides 90% to 100% of the city's water supply in years with normal precipitation, with 0% to 10% being supplied from Tawakoni during dry years.

(d) The city has ample water for present needs and, based upon its projected growth, for approximately 50 years into the future.

4. UTILITY DATA

(a) Water sources: New Terrell City Lake 90% - 100% annually; Lake Tawakoni: 0% - 10% annually.

(b) Water Treatment Plant: 6.2 MGD (million gallons per day) capacity; 7.24 MGD maximum (August 13, 2000); 3.68 MGD average production (2002).

(c) Distribution System: 110 miles of pipe in the system with pipe sizes ranging from 1" to 20"; two elevated storage tanks (1.0 MG and 0.5 MG); and two ground storage tanks (2.0 MG and 0.5 MG).

(d) Wastewater Reclamation: 4.5 MGD treatment plant; 2.9 MGD average flow (2002).

(e) The city's budget is structured to meet operational, maintenance and debt service requirements from revenues generated by the utility system.

5. METERING, SYSTEM MANAGEMENT AND RATES

(a) The Water Treatment Plant has metering equipment for both raw and treated water quantification. The metering is accomplished through venturi tubes and instrumentation. Certified calibration is performed annually.

(b) The City meters 100% of the connections to the distribution system. Meters range in size from 3/4" to 8". All meters meet AWWA accuracy standards when installed. In 2002 there were a total of 5,212 metered connections in the city, including all customer classes.

(c) The City maintains a program whereby smaller meters are changed out every ten years. Large meters are field tested for accuracy on a regular basis. Wholesale (rural water supply) meters are tested for proper calibration annually.

(d) The city operates two divisions that are responsible for leak detection and repair. The Utility Office is responsible for meter reading and replacement, and for repair of meter leaks on 1.5" and smaller services. The Distribution Division repairs all leaks on the larger portions of the system.

(e) The system is under routine and constant scrutiny by all city divisions, customers, Police Department and meter readers. Leak identification and repair are the top priority for the Distribution Division.

(f) To further reduce water losses, a main and service replacement program eliminates old and deteriorated piping from the system.

(g) To track its progress in reducing water losses, the city performs a monthly audit, comparing the amount of water pumped from the Water Treatment Plant with that distributed through metered sales. A report is prepared outlining the monthly variance in percentage of water loss. The city also performs an annual audit comparing the same data on a calendar year basis.

(h) Rates are normally established following a cost of service study by an outside rate consultant. Rates are set to generate the revenues needed to operate and maintain the system and to meet debt service requirements.

(i) The City's rate structure is designed to promote conservation in that all customers within a given class pay the same volume charge, i.e., there are no usage discounts.

(j) Within this Water Conservation Plan, the city also has a Drought Contingency Plan whereby, if activated, rates increase significantly if a customer exceeds specified amounts.

6. PLUMBING CODE

The city operates under the International Plumbing Code. This code has been formally adopted by the City Council and is included in the Code of Ordinances. The city routinely inspects new construction, remodeling, add-ons, etc., through building permits.

7. REGIONAL PLANNING

(a) The City has kept abreast of the activities of the Region C Planning Group since its creation. It has participated in surveys, provided growth and consumption data as requested, and reviewed and concurred with the projections made by the Group prior to submittal of same to the State.

(b) The City is utilizing the projections prepared by the Region C Planning Group in planning its upcoming water system improvements.

B. LOCAL APPROACH TO WATER CONSERVATION

1. The City recognizes and supports the State's goals regarding water conservation. In furtherance thereof, the City proposes – within the next ten years – to reduce the daily per capita water consumption in Terrell by five percent (5%).

2. The City proposes to attain this goal through the following activities:

(a) Encouraging water conservation through the media, mail-outs and other avenues, with conservation messages being conveyed to wholesale and retail customers throughout the year but, especially, at those times when water use is expected to increase;

(b) Promotion of the installation of replacement plumbing fixtures designed to conserve water;

(c) Continuation of an aggressive program aimed at replacing old mains and appurtenances; and

(d) Inclusion of wording in all new or revised wholesale water supply agreements requiring conformity with this plan.

ARTICLE 2.

THAT Section XIV is hereby added to said Plan and shall read as follows:

SECTION XIV: PUBLIC INVOLVEMENT

The City through public meetings provided Opportunity for public input in the preparation of this Plan. Three meetings were held as follows:

City Hall April 17, 2003 at 4:00 P.M.

City Hall May 01, 2003 at 4:00 P.M. and at 6:00 P.M.

ARTICLE 3.

THAT the foregoing changes are hereby made part of said Water Conservation and Drought Contingency Plan for all purposes, including the penalties therein set forth, and that the same be and is hereby adopted as the official policy of the City.

ARTICLE 4.

That all ordinances that are in conflict with the provisions of this ordinance be, and the same are hereby, repealed and all other ordinances of the City not in conflict with the provisions of this ordinance shall remain in full force and effect.

ARTICLE 5.

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

ARTICLE 6.

This ordinance shall take effect immediately from and after its passage and the publication of the caption, as the law in such cases provides.

Passed and approved on this the 5th day of August, 2003.
Passed and adopted on this the 19th day of August, 2003.

E. Rick Carmona, Mayor Pro tem

Attest:

John Rounsavall, City Secretary

Approved as to Form:

Mary Gayle Ramsey, City Attorney