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FINAL

July 2006 Update to the Texas Water Quality Management Plan

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Compiled by the

Water Quality Assessment Section
Water Quality Division
Texas Commission on Environmental Quality

September 2006

Developed in accordance with Section 205(j)
and 208 of the Federal Clean Water Act
and applicable regulations thereto.



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Introduction

The Texas Water Quality Management Plan (WQMP) is the product of a wastewater treatment facility planning process developed and updated in accordance with provisions of Sections 205(j), 208, and 303 of the Federal Clean Water Act (CWA), as amended. The WQMP is an important part of the State's program for accomplishing its clean water goals.¹

The Texas Department of Water Resources, a predecessor agency of the Texas Commission on Environmental Quality (TCEQ), prepared the initial WQMP for waste treatment management during the late 1970s. The Clean Water Act mandates that the WQMP be updated as needed to fill information gaps and revise earlier certified and approved plans. Any updates to the plan need involve only the elements of the plan that require modification. The original plan and its subsequent updates are collectively referred to as the State of Texas Water Quality Management Plan.

The WQMP is tied to the State's water quality assessments that identify priority water quality problems. The WQMPs are used to direct planning for implementation measures that control and/or prevent water quality problems. Several elements may be contained in the WQMP, such as total maximum daily loads (TMDLs), effluent limitations of wastewater facilities, nonpoint source management controls, identification of designated management agencies, and ground water and source water protection planning. Some of these elements may be contained in separate documents which are prepared independently of the current WQMP update process, but may be referenced as needed to address planning for water quality control measures.

This document, as with previous updates², will become part of the WQMP after completion of its public participation process, certification by the TCEQ on behalf of the Governor of Texas, and approval by the Environmental Protection Agency (EPA).

The July 2006 WQMP update address the following topics:

1. Projected Effluent Limits Updates for water quality planning purposes
2. Service Area Population for Municipal Wastewater Facilities

¹A formal definition for a water quality management plan is found in 40 Code of Federal Regulations (CFR) 130.2(k).

²Fiscal Years 1980, 1981, 1982, 1983, 1984/85, 1986/88, 1989, 1990, 1991, 1992, 1993/94, 1995, 1996, 1997/98, 02/1999, 05/1999, 07/1999, 10/1999, 01/2000, 04/2000, 07/2000, 10/2000, 01/2001, 04/2001, 07/2001, 10/2001, 01/2002, 04/2002, 07/2002, 10/2002, 01/2003, 04/2003, 07/2003, 10/2003, 01/2004, 04/2004, 07/2004, 10/2004, 01/2005, 04/2005, 07/2005, 10/2005, 01/2006 and 04/2006.

The Projected Effluent Limit Updates section provides information compiled from May 1, 2006 through July 31, 2006, and is based on water quality standards, and may be used for water quality planning purposes in Texas Pollutant Discharge Elimination System (TPDES) permit actions.

The sections on the Service Area Population and Designation of Management Agencies for municipal wastewater facilities have been developed and evaluated by the TCEQ in cooperation with the Texas Water Development Board (TWDB) and regional water quality management planning agencies.

The materials presented in this document revise only the information specifically addressed in the following sections. Previously certified and approved water quality management plans remain in effect.

Projected Effluent Limit Updates

Table 1 reflects proposed effluent limits for new dischargers and preliminary revisions to original proposed effluent limits for preexisting dischargers (MGD–Million Gallons per Day, CBOD₅– 5 Day Carbonaceous Biochemical Oxygen Demand, NH₃-N– Ammonia-Nitrogen, BOD₅– 5 Day Biochemical Oxygen Demand and DO – Dissolved Oxygen).

Effluent flows indicated in Table 1 reflect future needs and do not reflect current permits for these facilities. These revisions may be useful for water quality management planning purposes. The effluent flows and constituent limits indicated in the table have been preliminarily determined to be appropriate to satisfy the stream standards for dissolved oxygen in their respective receiving waters. These volumes and effluent sets may be modified at the time of permit action. These limits are based on water quality standards effective at the time of the TCEQ production of this update. Water Quality Standards are subject to revision on a triennial basis.

Table 1. Projected Effluent Limit Updates

State Permit Number	Segment Number	EPA ID Number	Permittee Name/ County	Flow (MGD)	CBOD ₅ (mg/L)	CBOD ₅ (lbs/day)	NH ₃ -N (mg/L)	NH ₃ -N (lbs/day)	BOD ₅ (mg/L)	BOD ₅ (lbs/day)	DO (mg/L)	Months/ Comments
10066-001	1908	0024465	City of Boerne Kendall	2.4	10	200.16	2	40.03			6	
10143-003	0804	0025364	City of Athens Henderson	1.367	20	228.02	3	34.20			5	Apr.-Sept.
				1.367	20	228.02	3	34.20			4	Oct.-Mar.
10341-001	0824	0021792	City of Muenster Cooke	0.341	10	28.44	3	8.53			4	
10395-008	1001	0072834	City of Baytown Harris	8.0	10	667.20	3	100.08			4	Apr.-Oct.
				8.0	10	667.20	5	166.80			4	Nov.-Mar.
10444-001	0814	0022420	City of Frost Navarro	0.05	10	4.17	3	1.25			4	
10495-112	0902	0103667	City of Houston Harris	1.5	5.4	67.55	1.6	20.02			6	
10747-001	0818	0022527	City of Terrell Kaufman	4.5	7	262.71	3	112.59			4	May-Sept.
				4.5	10	375.30	5	187.65			6	Oct.-Apr.
10797-001	1218	0069191	Bell County WCID No. 3 Bell	0.675	10	56.30	2	11.26			5	June-Aug.
				0.675					10	56.30	4	Sept.-May
10831-001	1007	0057185	City of Galena Park Harris	1.25	10	104.25	3	31.28			4	
10847-001	0831	0027120	City of Aledo Parker	0.60	10	50.04	3	15.01			4	
10915-001	0823	0026514	Town of Prosper Denton	0.956	10	79.73	3	23.92			4	

State Permit Number	Segment Number	EPA ID Number	Permittee Name/ County	Flow (MGD)	CBOD ₅ (mg/L)	CBOD ₅ (lbs/day)	NH ₃ -N (mg/L)	NH ₃ -N (lbs/day)	BOD ₅ (mg/L)	BOD ₅ (lbs/day)	DO (mg/L)	Months/ Comments
11183-003	0809	0023116	City of Azle Parker	1.443	5	60.17	2	24.07			5	
11312-001	0826	0022501	City of Justin Denton	0.4	7	23.35	2	6.67			6	Apr.-Oct.
				0.4	10	33.36	5	16.68			5	Nov.-Mar.
11598-001	1014	0058408	Williamsburg Regional Sewage Authority Harris	3.0	10	250.20	2	50.04			6	
11792-002	1014	0070971	Harris County MUD No. 105 Harris	2.5	7	145.95	2	41.70			6	
12834-001	1014	0094307	Harris County MUD No. 167 Harris	0.98	7	57.21	2	16.35			6	Otfl 001 & Otfl 002 Combined
13393-001	0840	0102555	Callisburg ISD Cooke	0.015					20	1.30	3	
13415-001	0805	0104345	Trinity River Authority of Texas Ellis	6	10	500.40	2	100.08			6	May-Sept.
				6	10	500.40	4	200.16			6	Oct.-Apr.
14245-001	0823	0123901	North Texas Municipal Water District Denton	10	5	417.00	2	166.80			6	
14452-001	0702	0125776	Bolivar Utility Services, L.L.C. Galveston	0.10	10	8.34	3	2.50			6	
14514-001	1014	0126624	L.O.B. Limited Partnership Harris	1.36	10	113.42	2	22.68			6	

State Permit Number	Segment Number	EPA ID Number	Permittee Name/ County	Flow (MGD)	CBOD ₅ (mg/L)	CBOD ₅ (lbs/day)	NH ₃ -N (mg/L)	NH ₃ -N (lbs/day)	BOD ₅ (mg/L)	BOD ₅ (lbs/day)	DO (mg/L)	Months/ Comments
14544-001	1221	0128813	Upper Leon River Municipal Water District Comanche	0.065	10	5.42	3	1.63			4	
14694-001	1010	0128651	Elan Development, L.P. Montgomery	1.00	10	83.40	3	25.02			6	
14696-001	1009	0128660	301 Lone Oak Partners, Ltd. Harris	0.30	10	25.02	2	5.00			4	
14697-001	1001	0128279	Woodmere Development, Co. Harris	0.40	10	33.36	3	10.01			4	
14698-001	2491	0128678	Texas Dept. Of Transportation Kenedy	0.013					20	2.17	2	
14700-001	1006	0086100	LaBarge Pipe and Steel Co. Harris	0.006	10	0.50	3	0.15			4	
14703-001	1016	0128694	FRM/MRA Holdings #1 Harris	0.98	10	81.73	3	24.52			4	
14704-001	1014	0128708	Centex Homes Harris	0.35	10	29.19	2	5.84			6	
14706-001	0818	0128708	Almo Investment Ltd. Kaufman	0.01221					20	2.04	4	
14710-001	0821	0128759	South Central Water Co. Grayson	0.750	5	31.28	1.2	7.51			6	
14711-001	1015	0128368	Quadvest, L.P. Montgomery	0.320	10	26.69	3	8.01			4	

State Permit Number	Segment Number	EPA ID Number	Permittee Name/ County	Flow (MGD)	CBOD ₅ (mg/L)	CBOD ₅ (lbs/day)	NH ₃ -N (mg/L)	NH ₃ -N (lbs/day)	BOD ₅ (mg/L)	BOD ₅ (lbs/day)	DO (mg/L)	Months/ Comments
14712-001	1908	0128767	Lerin Hills, Ltd. Kendall	0.5	5	20.85	1	4.17			6	
14714-001	2422	0128783	John Broyles Chambers	0.005					20	0.83	4	
14717-001	1008	0128821	MAW Magnolia, L.P. Montgomery	0.60	10	50.04	3	15.01			6	
14719-001	0818	0128848	Land Advisors, Ltd. Kaufman	0.2	10	16.68	3	5.00			4	
14721-001	0505	0128856	City of Lakeport Gregg	0.25					20	41.70	2	
14725-001	1242	0128899	TCB Rental, Inc. Burlson	0.025	10	2.09	3	0.63			4	

Planning Information Summary

The Water Quality and Monitoring Operations Divisions of the TCEQ coordinated with the TWDB and regional planning agencies to compile the wastewater facility information in this section. Domestic facility financing decisions under the State Revolving Loan Fund (SRF) program must be consistent with the certified and approved WQMP.

The purpose of this section is to present data reflecting facility planning needs, including previous water quality management plan needs requiring revision. Data are also presented to update other plan information for the TWDB's SRF projects. Table 2 contains the updated information. The table is organized in alphabetical order and includes the following 10 categories of information:

1. Planning Area - Area for which facility needs are proposed. The facility planning areas are subject to change during the facility planning process and any such changes will be documented in a later water quality management plan update. All planning areas listed are also designated management agencies (DMAs) unless otherwise noted in the "Comments" column.
2. Service Area - Area that receives the provided wastewater service.
3. Needs - A "T" indicates a need for either initial construction of a wastewater treatment plant, additional treatment capacity, or the upgrading of a wastewater treatment plant to meet existing or more stringent effluent requirements. A "C" indicates a need for improvements to, expansion of, rehabilitation of, or the initial construction of a wastewater collection system in the facility planning area. "T/C" indicates a need for both treatment and collection system facilities. More detailed facility planning conducted during a construction project may define additional needs and those needs will be reflected in a future update to the WQMP.
4. Needs Year - The year in which the needs were identified for the planning area.
5. Basin Name - The river basin or designated planning area where the entity is located. The seven water quality management planning areas designated by the Governor are Corpus Christi [Coastal Bend Council of Governments (CBCOG)], Killeen-Temple [Central Texas Council of Governments (CTCOG)], Texarkana [Ark-Tex Council of Governments (ATCOG)], Southeast Texas [South East Texas Regional Planning Council (SETRPC)], Lower Rio Grande Valley [Lower Rio Grande Valley Development Council (LRGVDC)], Dallas-Fort Worth [North Central Texas Council of Governments (NCTCOG)] and Houston [Houston-Galveston Area Council (H-GAC)]. Basin names are shown for agencies outside one of these areas.

6. Segment - The classified stream segment or tributary into which any recommended facility may discharge existing or projected wastewater. In the case of no-discharge facilities, this is the classified stream segment drainage area in which the facilities are located.
7. County - The county in which the facility planning area is located.
8. Date - The date the planning information was reviewed by the TCEQ.
9. Comments - Additional explanation or other information concerning the facility planning area.
10. Population - The base year and projected populations for each facility planning area. Population projections presented are consistent with the latest available statewide population projections or represent the most current information obtained from facility planning analyses.

The facility information in this section is intended to be utilized in the preparation of facility plans and the subsequent design and construction of wastewater facilities. Design capacities of the treatment and collection systems will be based upon the population projections contained in this document plus any additional needed capacity established for commercial/industrial flows and documented infiltration/inflow volumes (treatment or rehabilitation). The probable needs shown under the "Needs" heading are preliminary findings; specific needs for an area shall be as established in the completed and certified detailed engineering studies conducted during facility planning under the SRF and other state loan programs.

Specific effluent quality for any wastewater discharges resulting from any of the facilities recommended in this document will be in accordance with the rule on the Texas Surface Water Quality Standards in effect at the time of permit issuance for the specific facility.

Table 2. Service Area Population Updates to the Water Quality Management Plan

Planning Agency	Service Area	Needs	Needs Year	Basin Name	Segment	County	WQMP Date	Comments	Year	Population
City of Pottsboro	City Limits & Tanglewood Subdivision	T/C	1978	Red River	0203	Grayson	05/25/06	Expansion of the existing wastewater treatment plant.	2005	2,650
									2015	6,650
									2025	8,650
									2027	8,690