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FINAL

July 2005 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 2005

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 2005 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, and 04/2005.

The Projected Effluent Limit Updates section provides information compiled from May 1, 2005 through July 31, 2005, 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 section on the Service Area Population for municipal wastewater facilities has 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– Chemical Biological Oxygen Demand, NH₃– Ammonia-Nitrogen, BOD₅– Biological 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
10137-040	1912	0055689	San Antonio Water System Bexar	23.5	5	979.95	2	391.98			6	
10258-003	1202	0115177	City of Richmond Fort Bend	6.0	10	500.40	2	100.08			4	
10319-002	0514	0054658	City of Winnsboro Wood	1.5	7	87.57	2	25.02			6	
10488-001	1803	0027243	City of Gonzales Gonzales	2.25					10	187.65	6	
10564-004	0801	0100170	City of Dayton Liberty	4.0	10	333.60	2	66.72			4	
10591-001	0203	0068756	City of Pottsboro Grayson	0.90	10	75.06	3	22.52			4	
10627-001	2421	0021369	Bacliff MUD Galveston	1.24					20	206.83	2	
10889-001	1903	0107743	City of La Coste Medina	0.20	10	16.68	3	5.00			4	
10998-001	0609	0031283	Brookeland FWSD Jasper	0.05					20	8.34	2	
11252-001	0207	0075591	Red River Authority of Texas Hall	0.0125	30	3.13	8	0.83			4	
11348-001	2494	0127833	Valley MUD No. 2 Cameron	0.40	10	33.36	3	10.01			4	
11630-001	1008	0058530	Harris County MUD No. 1 Harris	1.50	10	125.10	3	37.53			5	

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
11917-001	1014	0074403	Harris County MUD No. 71 Harris	2.35	5	98.00	2	39.20			6	
13809-001	1204	0127426	Fall Creek Utility Co., Inc. Hood	0.012					30	3.00	4	
13872-001	1108	0118397	City of Manvel Brazoria	0.50	10	41.70	3	12.51			4	
14119-001	2003	0119563	St. Paul Water Supply Corp. San Patricio	0.05					20	8.34	2	
14319-001	1202	0124699	Mike Oda Fort Bend	0.025	10	2.09	3	0.63			4	
14454-001	2202	0125971	City of San Benito Cameron	4.66	10	388.64	3	116.59			4	
14585-001	1014	0127418	J.A.C. Interests, Ltd. Fort Bend	0.25	10	20.85	2	4.17			6	
14589-001	1014	0127647	BGM Land Investments, Ltd. Harris	0.80	7	46.70	2	13.34			6	
14597-001	1010	0127710	The Signorelli Co. Montgomery	0.600	10	50.04	3	15.01			5	
14606-001	1008	0127795	South Central Water Company Harris	0.240	10	20.02	3	6.00			4	
14607-001	1434	0127809	Aqua Water Supply Corp. Bastrop	0.75	5	31.28	2	12.51			4	
14610-001	1008	0127850	501 Maple Ridge, Ltd. Harris	0.64	10	53.38	3	16.01			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
14613-001	1202	0127884	Clyde Harold Brubaker Waller	0.160					10	13.34	4	
14614-001	0507	0127892	Bearpen Creek LP Hunt	0.50					20	83.40	3	
14617-001	1209	0127914	Smiling Mallard Development, Ltd. Brazos	0.015	10	1.25	3	0.38			4	
14618-001	1417	0127922	City of Blanket Brown	0.035	10	2.92	3	0.88			4	
14623-001	1202	0127965	Royal Valley Utilities, Inc. Fort Bend	0.40	10	33.36	3	10.01			6	
14624-001	1008	0127973	Rosehill Utilities, Inc. Waller	0.02	5	0.83	1	0.17			6	
14627-001	0819	0128023	Daedelus Corp. Kaufman	0.020	20	3.34	4	0.67			4	
14635-001	1014	0128082	Clay/Peak 640, LP Harris	0.60	5	25.02	2	10.01			6	

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 Bonham	City of Bonham	T/C	1978	Red River	0202	Fannin	06/28/2005	Repair and replacement of wastewater collection lines within the sewer system.	2000	9,900
									2010	11,421
									2020	12,511
									2030	14,500

