



December 9, 2008
FINAL

October 2008 Update to the Texas Water Quality Management Plan

printed on
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Water Quality Division

Texas Commission on Environmental Quality

October 2008 Update to the Texas Water Quality Management Plan

Compiled and distributed by the
Water Quality Assessment Section
Water Quality Division
Texas Commission on Environmental Quality
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Austin, TX 78711-3087

December 2008

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 October 2008 WQMP update address the following topics:

1. Projected Effluent Limits Updates for water quality planning purposes
2. Service Area Population for Municipal Wastewater Facilities
3. Designation of Management Agencies 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, 04/2006, 07/2006, 10/2006, 01/2007, 04/2007, 10/2007, 01/2008, 04/2008 and 07/2008.

The Projected Effluent Limit Updates section provides information compiled from August 1, 2008 through October 31, 2008, 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.

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
10151-001	0840	0034410	City of Collinsville Grayson	0.50	10	41.70	2	8.34			6	
10671-001	2421	0022250	City of Seabrook Harris	2.5					20	417.00	5	
10679-001	1006	0023825	Harris County WCID No. 74 Harris	0.95	7	55.46	2	15.85			6	Apr-Oct
				0.95	10	79.23	5	36.92			4	Nov-Mar
10998-001	0609	0031283	Brookeland FWSD Jasper	0.065					20	10.84	2	
13037-002	1016	0127124	Harris County MUD No. 278 Harris	2.7	10	225.18	2	45.04			6	
14858-001	0818	0130044	Neal & FM548-1076 (Mann 1100), L.L.P. Kaufman	1.12	5	46.70	1	9.34			6	
14889-001	1242	0129437	Cities of Waco, Woodway, Bellmead, Lacy-Lakeview, Robinson, Hewitt and Lorena McLennan	1.5	7	87.57	3	37.53			5	
14898-001	1243	0125610	Salado Utility, Inc. Bell	0.30	5	12.51	2	5.00			4	
14900-001	1017	0090735	William Donald Smith Harris	0.012	10	1.00	3	0.30			4	
14905-001	1014	0131601	Fry Road Venture, L.P. Harris	0.50	10	41.70	2	8.34			6	
14905-002	1014	0131610	Fry Road Venture, L.P. Harris	0.50	10	41.70	2	8.34			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
14908-001	1008	0126152	Northwest Harris County MUD No. 19 Harris	0.90	10	75.06	3	22.52			4	
14911-001	1251	0131679	3 B&J Wastewater Co., Inc. Williamson	0.95	10	79.23	3	23.77			4	
14914-001	1002	0131661	The Commons of Lake Houston, Ltd. Harris	0.20	5	8.34	2	3.34			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 Anthony	City of Anthony	T/C	1980	Rio Grande River Basin	2314	El Paso	09/23/2008	Upgrade existing wastewater treatment plant.	2007	3,808
									2010	4,586
									2020	5,422
									2030	6,156
City of Bonham	City of Bonham	T/C	1978	Red River Basin	0202	Fannin	05/21/2008	Rehabilitation and replacement of sewer collection lines.	2000	9,990
									2010	11,421
									2020	12,511
									2030	14,500
City of Celina	City of Celina	T/C	1978	Trinity River Basin / NCTCOG	0823	Collin	10/22/2008	Expansion of flow for the wastewater treatment plant.	2005	4,500
									2010	6,825
									2020	30,975
									2025	48,250
City of Eastland	City of Eastland	T/C	1978	Brazos River Basin	1224	Eastland	06/17/2008	Increase the capacity of the existing collection system and rehabilitation of the main sewage station.	2000	3,769
									2010	3,777
									2020	3,787
									2030	3,720

Planning Agency	Service Area	Needs	Needs Year	Basin Name	Segment	County	WQMP Date	Comments	Year	Population
City of El Paso	City of El Paso	T/C	1988	Rio Grande River Basin	2307	El Paso	09/30/2008	Increase treatment capacity and build additional interceptors.	2005	305,547
									2010	341,557
									2020	387,969
									2030	408,158
City of Paducah	City of Paducah	T/C	1978	Red River Basin	0218	Cottle	07/19/2008	Replacement of the existing Imhoff tank facilities with a facultative lagoon.	2000	1,498
									2010	1,458
									2020	1,455
									2030	1,384
Harris County FWSD No. 47	Harris County FWSD No. 47	T/C	2000	San Jacinto River Basin / H-GAC	1006	Harris	10/09/2008	Replacement and rehabilitation of the wastewater collection system.	2008	4,356
									2010	4,356
									2020	4,356
									2030	4,356
Harris County MUD No. 46	Harris County MUD No. 46	T/C	2008	San Jacinto River Basin / H-GAC	1016	Harris	10/09/2008	Rehabilitation of the sanitary sewers in the District.	2005	5,233
									2010	6,326
									2020	6,326
									2030	6,326
Hidalgo County MUD No. 1	Hidalgo County MUD No. 1	T/C	1982	Rio Grande River Basin	2302	Hidalgo	09/12/2008	Construction of a new wastewater treatment plant.	2005	7,400
									2010	8,990
									2020	13,050
									2030	18,950

Planning Agency	Service Area	Needs	Needs Year	Basin Name	Segment	County	WQMP Date	Comments	Year	Population
Town of Pecos City	Town of Pecos City	T/C	1980	Rio Grande River Basin	2311	Reeves	06/10/2008	Upgrade existing wastewater treatment plant.	2000	12,500
									2010	14,000
									2020	15,500
									2030	17,000
Trinity River Authority	Denton Creek Regional System	T/C	1998	Trinity River Basin \ NCTCOG	0826	Denton	06/17/2008	Expansion of the wastewater treatment plant.	2000	40,000
									2010	70,000
									2020	185,000
Trinity River Authority	Ten Mile Creek Regional System	T/C	1998	Trinity River Basin \ NCTCOG	0805	Dallas	06/19/2008	Rehabilitation of the wastewater treatment plant and interceptor system.	2000	123,189
									2025	203,772
									2040	256,740

Designated Management Agencies

In order to be designated as a management agency for wastewater collection or treatment, an entity must demonstrate the legal, institutional, managerial and financial capability necessary to carry out the entity's responsibilities in accordance with Section 208 © of the Clean Water Act (see below list of requirements). Before an entity can apply for a state revolving fund loan, it must be recommended for designation as the management agency in the approved WQMP. Designation as a management agency does not require the designated entity to provide wastewater services, but enables it to apply for grants and loans to provide the services. The facilities listed in Table 3 have submitted Designated Management Agencies (DMA) resolutions to the TCEQ. The TCEQ submits this DMA information to the EPA for approval as an update to the WQMP.

Section 208 (c)(2) Requirements for Management Agency:

- 208(c)(2)(A): to carry out portions of an area-wide waste treatment plan.
- 208(c)(2)(B): to manage waste treatment works.
- 208(c)(2)(C): directly or by contract to design and construct new works.
- 208(c)(2)(D): to accept and utilize grants.
- 208(c)(2)(E): to raise revenues, including assessment of waste treatment charges.
- 208(c)(2)(F): to incur short and long term indebtedness.
- 208(c)(2)(G): to assure community pays proportionate cost.
- 208(c)(2)(H): to refuse to receive waste from non-compliant dischargers.
- 208(c)(2)(I): to accept for treatment industrial wastes.

Table 3. Designated Management Agencies Updates to the Water Quality Management Plan

Planning Agency	Service Area	DMA Needs	DMA Date	DMA Area/Comment
City of Eastland	City of Eastland	T/C	06/23/2008	City Limits.
Harris County MUD No. 46	Harris County MUD No. 46	T/C	03/12/2008	Harris County MUD No. 46
Trinity River Authority	Denton Creek Regional System	T/C	04/23/2008	Parts of north Tarrant County and southwest Collin County.
Trinity River Authority	Ten Mile Creek Regional System	T/C	10/22/2008	Parts of south Dallas County and north Ellis County.