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FINAL

April 2007 Update to the Texas Water Quality Management Plan

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Compiled and distributed by the
Water Quality Assessment Section
Water Quality Division
Texas Commission on Environmental Quality
P.O. Box 13087, MC-150
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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 April 2007 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, and 01/2007.

The Projected Effluent Limit Updates section provides information compiled from February 1, 2007 through April 30, 2007, 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
10086-002	1007	0035017	Fort Bend County WCID No. 2 Fort Bend	0.50	10	42.00	3	12.51			4	Apr.-Oct.
				0.50	10	42.00	5	20.85			4	Nov.-Mar.
10257-001	0827	0023931	North Texas Municipal Water District Dallas	4.75	10	396.15	2	79.23			6	Apr.-Nov.
				4.75	10	396.15	5	198.08			6	Dec.-Mar.
10495-003	1007	0034924	City of Houston Almeda Sims Fort Bend	28.0	10	2,335.20	2	467.04			6	Apr.-Oct.
				28.0	10	2,335.20	4	934.08			4	Nov.-Mar.
10495-023	1007	0063029	City of Houston Homestead Harris	4.0	10	333.60	3	100.08			4	
10495-037	1007	0062995	City of Houston Southwest MUD Harris	60.0	10	5,004.00	3	1,501.20			4	Apr.-Oct.
				60.0	10	5,004.00	4	2,001.60			4	Nov.-Mar.
10495-050	1007	0063045	City of Houston WCID No. 47 Harris	5.76	10	480.38	2	96.08			6	Apr.-Oct.
				5.76	10	480.38	5	240.19			4	Nov.-Mar.
10495-095	1007	0027201	City of Houston WCID No. 111 Harris	7.2	10	600.48	2	120.10			6	Apr.-Oct.
				7.2	10	600.48	4	240.19			4	Nov.-Mar.
10495-109	1014	0035017	City of Houston Turkey Creek Harris	12.0	10	1,008.80	2	200.16			6	June-Aug.
				12.0	10	1,008.80	4	400.32			6	Sept.-May
10495-110	1007	0026433	City of Houston Green Ridge MUD Fort Bend	7.05	10	587.97	2	117.59			5	Apr.-Oct.
				7.05	10	587.97	4	235.19			4	Nov.-Mar.

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
10495-111	1007	0065307	City of Houston Beltway Harris	13.34	10	1,112.56	3	333.77			4	Apr.-Oct.
				13.34	10	1,112.56	5	556.28			4	Nov.-Mar.
10495-119	1007	0098191	City of Houston Keegans Bayou Harris	23.1	10	1,926.54	3	577.96			4	Apr.-Oct.
				23.1	10	1,926.54	5	963.27			4	Nov.-Mar.
10569-002	0821	0129224	City of Gunter Grayson	0.950	5	39.62	1.2	9.51			6	
10688-001	2439	0047309	City of Galveston Galveston	13.0	10	1,084.20	3	325.26			6	
10688-002	2424	0027791	City of Galveston Airport Galveston	4.76					10	396.98	4	
10706-001	1014	0025747	City of Katy Fort Bend	3.075	10	256.46	2	51.29			6	
10851-001	0701	0020460	Trinity Bay Conservation District Chambers	1.98	10	165.13	3	49.54			4	Apr.-Sept.
				1.98	10	165.13	5	82.57			4	Oct.-Mar.
10952-001	1903	0129364	City of Castroville Medina	0.90					10	75.06	4	
11255-001	1006	0032034	Southwest Utilities, Inc. Harris	0.393	7	22.94	2	6.56			6	Apr.-Oct.
				0.393	10	32.78	5	16.39			4	Nov.-Mar.
11371-001	1012	0022080	Montgomery County MUD No. 8 Montgomery	0.3	7	17.51	2	5.00			6	Otfl 001
				0.6	7	35.03	2	10.01			6	Otfl 002
11553-001	1007	0053643	Blue Ridge West MUD Fort Bend	1.30	10	108.42	3	32.53			4	Apr.-Oct.
				1.30	10	108.42	4	43.37			4	Nov.-Mar.

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
12132-001	1017	0079634	White Oak Owners Assoc. Inc. Harris	0.059	10	4.92	3	1.48			4	Apr.-Oct.
				0.059	10	4.92	5	2.46			4	Nov.-Mar.
12195-001	1242	0083399	City of Lorena McLennan	1.5	10	125.10	3	37.53			5	
12206-001	1016	0083381	North Green MUD Harris	0.60					10	50.04	4	
12223-001	1014	0083496	West Harris County MUD No. 15 Harris	0.60	10	50.04	2	10.01			6	Apr.-Oct.
				0.60	10	50.04	3	15.01			4	Nov.-Mar.
12499-001	1007	0089621	West Harris County MUD No. 6 Harris	0.50	10	41.70	3	12.51			6	Apr.-Oct.
				0.50	10	41.70	5	20.85			4	Nov.-Mar.
12605-002	0823	0091448	Briarwood Lutheran Ministries Denton	0.005					10	0.42	4	
12631-001	1016	0019101	Harris County MUD No. 202 Harris	0.725	10	60.47	3	18.14			4	Apr.-Oct.
				0.725	10	60.47	5	30.23			4	Nov.-Mar.
13172-002	1014	0098965	Cinco MUD No.1 Fort Bend	0.91	10	75.89	2	15.18			6	Apr.-Oct.
				0.91	10	75.89	3	22.77			6	Nov.-Mar.
13518-001	0828	0105872	D & K Development Corp. Tarrant	0.0963	10	8.03	3	2.41			4	Apr.-Oct.
				0.0963	10	8.03	5	4.02			4	Nov.-Mar.
13834-001	0831	0099732	City of Willow Park Parker	0.6	5	25.02	1.5	7.51			5	
14163-001	1205	0122271	South Central Water Co. Parker	0.15	10	12.51	3	3.75			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
14769-001	0817	0129348	Trucker's Corner, L.P. Hill	0.015					10	1.25	4	
14771-001	1912	0129356	Medio Water Co., L.L.C. Bexar	0.99	10	82.57	3	24.77			4	
14772-001	0511	0129313	Orangefield WSC Orange	0.75	10	62.55	2	12.51			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 Liberty	City of Ames, Hardin and Liberty	T/C	2007	Trinity River	0801	Liberty	03/20/07	Improvements to the treatment and collection system.	2005	10,064
									2010	10,290
									2020	10,755
									2025	11,201
City of Marfa	City of Marfa	C	1981	Rio Grande River	2306	Presidio	02/15/07	Replace Imhoof tank facilities with pond system.	2005	2,121
									2010	2,585
									2015	2,855
									2028	3,092
City of Rio Grande City	City of Rio Grande, El Tanque WSC and El Sauz WSC	T/C	1989	Rio Grande River	2302	Starr	03/20/07	Improvements to the lift system, treatment and collection system.	2005	15,928
									2010	17,532
									2020	19,185
									2025	20,067
City of Roscoe	City of Roscoe	T/C	1978	Brazos River	1232	Nolan	02/15/07	Construction of a new wastewater treatment plant.	2005	1,378
									2010	1,443
									2020	1,498
									2030	1,523
City of Taylor Landing	City of Taylor Landing	T/C	2007	Neches-Trinity Coastal Basin	0701	Jefferson	03/08/07	Construction of a new wastewater treatment plant.	2000	223
									2010	273
									2020	313
									2025	337

Planning Agency	Service Area	Needs	Needs Year	Basin Name	Segment	County	WQMP Date	Comments	Year	Population
Zapata County Waterworks	Zapata County	T/C	2007	Rio Grande Basin	2303	Zapata	04/25/07	Expand capacity of wastewater treatment plant and improvements on the collection system.	2005	10,277
									2010	11,295
									2020	13,511
									2025	14,678

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 (c) 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/Comments
City of Roscoe	City of Roscoe	T/C	03/13/07	City Limits
City of Taylor Landing	City of Taylor Landing	T/C	03/1/07	City Limits

