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FINAL

July 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
Austin, TX 78711-3087

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



H.S. Buddy Garcia, *Chairman*
Larry R. Soward, *Commissioner*

Glenn Shankle, *Executive Director*

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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 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, 01/2007 and 04/2007.

The Projected Effluent Limit Updates section provides information compiled from May 1, 2007 through July 31, 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
10001-001	1202	0025046	Brookshire MWD Waller	0.97	10	80.90	2	16.18			4	
10081-001	1416	0079804	City of Eden Concho	0.40	10	33.36	3	10.01			5	
10161-002	0102	0129500	City of Dumas Moore	1.94			8	129.44	10	161.80	4	
10195-001	1007	0053970	City of Jacinto City Harris	1.64	7	95.74	3	41.03			4	Apr.-Oct
				1.64	7	95.74	5	68.39			4	Nov.-Mar.
10203-003	0608	0095478	City of Kountze Hardin	0.4	30	100.08	3	10.01			5	Apr.-Sept.
				0.4			Report		30	100.08	5	Oct.-Mar.
10688-005	2424	0066125	City of Galveston- Terramar Galveston	1.0					10	83.40	4	
10729-001	0823	0024198	City of Krum Denton	0.137					30	34.28	4	
10917-001	1242	0023442	City of Bremond Robertson	0.22					30	55.04	4	
11201-001	1016	0027324	Emerald Forest UD Harris	1.5	10	125.10	3	37.53			4	
11283-001	0821	0056677	City of Anna Collin	0.25	30	62.55	4	8.34			5	Otl 001
				0.975	10	81.32	2	16.26			6	Otl 002
11414-002	1016	0033189	Eli Gravriel Sasson Harris	0.099	10	8.26	3	2.48			4	Apr.-Oct
				0.099	10	8.26	5	4.13			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
11630-002	1008	0129330	Harris County MUD No. 1 Harris	0.33	10	27.52	3	8.26			4	
11696-002	1014	0112585	Addicks UD Harris	0.80	7	46.70	2	13.34			6	
11818-001	1016	0071897	Harris County MUD No. 148 Harris	0.50	10	41.70	3	12.51			4	Apr.-Oct
				0.50	10	41.70	5	20.85			4	Nov.-Mar.
12144-001	1016	0079821	Northwest Harris County MUD No. 21, 22 and 23 Harris	1.50					10	125.10	4	
12294-001	1016	0085413	Harris County MUD No. 200 Harris	1.44					10	120.10	4	
12298-001	1014	0085448	Fort Bend County MUD No. 34 Fort Bend	1.0	10	83.40	2	16.68			6	
12934-001	1016	0097047	Rankin Road West MUD Harris	0.30	10	25.02	3	7.51			4	Apr.-Oct
				0.30	10	25.02	5	12.51			4	Nov.-Mar.
13152-001	1009	0098647	Northwest Harris County MUD No. 32 Harris	0.683	10	56.96	3	17.09			4	
13870-001	1016	0119067	Aqua Development Inc Harris	0.099	10	8.26	3	2.48			4	Apr.-Oct
				0.099	10	8.26	5	4.13			4	Nov.-Mar.
14118-001	1202	0119539	Sienna Plantation MUD No. 1 Fort Bend	1.2	10	100.08	3	30.02			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
14189-001	1434	0122840	Metro H2O, Ltd. Travis	1.5	5	62.55	1	12.51			6	1 mg/L P Limit
14347-001	1008	0124907	The Woodlands Land Development Co., L.P. Harris	3.0	10	250.20	2	50.04			4	
14434-001	1009	0125806	Westside Water L.L.C. Harris	0.24	10	20.02	3	6.00			4	
14468-001	1012	0126101	UA Holdings 1994-5 Montgomery	0.36	5	15.01	1.2	3.60			6	
14555-002	1012	0129526	Far Hills UD Montgomery	0.700	7	40.87	2	11.68			4	
14678-001	1221	0128473	Circle T Promotions Ltd. Hamilton	0.018					20	3.00	4	
14767-001	2107	0129305	Texas Department of Transportation Live Oak	0.010					10	0.83	2	
14776-001	1008	0129381	TWAN Development, L.L.C. Harris	0.020	10	1.67	3	0.50			6	
14777-001	2304	0129399	Val Verde Development Co. Val Verde	0.99	10	82.57	3	24.77			4	
14778-001	0821	0129402	Farmersville Investors, L.P. Collin	0.50	10	41.70	3	12.51			4	
14779-001	1402	0129429	Pine Cove Inc. Colorado	0.01					10	0.83	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
14781-001	2491	0087670	City of La Villa Hidalgo	0.4	10	33.36	3	10.01			4	
14782-001	1242	0129437	Cities of Waco, Woodway, Bellmead, Lacy-Lakeview, Robinson and Hewitt McLennan	1.5	10	125.10	3	37.53			5	
14783-001	0203	0129241	Double Diamond Utilities Co. Grayson	0.05					10	4.17	4	
14784-001	1016	0129445	Skymark Development Co., Inc. Harris	0.45	10	37.53	3	11.26			4	
14788-001	0203	0101346	FM 1417 Ltd. Grayson	0.009					30	2.25	4	
14790-001	0838	0095834	Texas Department of Transportation Johnson	0.011					20	1.83	2	
14790-002	0828	0095087	Texas Department of Transportation Johnson	0.011					20	1.83	2	
14793-001	1014	0129518	Skymark Development Co., Inc. Fort Bend	0.80	10	66.72	2	13.34			6	
14794-001	1014	0129534	South Central Water Co. Harris	0.36	10	30.02	2	6.00			6	
14796-001	0802	0125091	Texas Department of Transportation Polk	0.015					20	2.50	2	

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
14828-001	1009	0129771	Barker Utilities GP, L.L.C. Harris	0.05	10	4.17	3	1.25			4	
14833-001	1428	0129844	South Central Water Co. Bastrop	0.75	5	31.28	2	12.51			5	1 mg/L P limit

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
Orange County WCID No. 1	City of Vidor and Orange County	T/C	2007	Neches River	0601	Orange	06/28/07	Construction of a new wastewater treatment facility and collection system work.	2007	11,971
									2010	13,081
									2020	17,579
									2030	23,625

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
County of Zapata	County of Zapata	T/C	05/14/07	