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FINAL

July 2008 Update to the Texas Water Quality Management Plan

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Water Quality Division

Texas Commission on Environmental Quality

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

TCEQ

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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 updates[2], 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 2008 WQMP update addresses the following topics:

1. Projected Effluent Limits Updates for water quality planning purposes
2. Total Maximum Daily Load Updates

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

[2]Fiscal 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, and 04/2008.

The Projected Effluent Limit Updates section provides information compiled from May 1, 2008 through July 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 Total Maximum Daily Load (TMDL) Updates section provides information on proposed waste load allocations for new dischargers and revisions to existing TMDLs.

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, $CBOD_5$ – 5 Day Carbonaceous Biochemical Oxygen Demand, NH_3-N – Ammonia-Nitrogen, BOD_5 – 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
10134-007	1102	0116581	City of Pearland Brazoria	6.0	5	250.20	2	100.08			4	
10375-001	2431	0023949	City of Texas City Galveston	12.4	10	1,034.16	3	310.25			4	
10410-003	2424	0114821	City of La Marque Galveston	3.0	10	250.20	3	75.06			4	
10485-002	0507	0055611	City of Greenville Hunt	6.0	10	500.40	3	150.12			4	
10488-001	1803	0027243	City of Gonzales Gonzales	1.5					10	125.10	6	Tinsley Creek
				2.25					10	187.65	4	Gonzales River
10825-001	1006	0032255	Aldine Community Care Center Inc. Harris	0.023	10	1.92	3	0.58			4	April-Oct.
				0.023	10	1.92	5	0.96			4	Nov.-Mar.
11692-001	0703	0064882	Texas Parks & Wildlife Dept. Jefferson	0.005					20	0.83	4	
11824-003	1009	0072346	Northwest Harris County MUD No. 5 Harris	0.80	7	46.70	2	13.34			6	
11933-001	1009	0075671	Woodcreek MUD Harris	0.95	7	55.46	2	15.85			6	
13168-001	0611	0098795	Woodmark Utilities Inc. Smith	0.40	10	33.36	3	10.01			4	
13628-001	1202	0111872	Fort Bend County MUD No. 112 Fort Bend	6.0	10	500.40	3	150.12			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
13786-002	1203	0113913	Double Diamond Utilities Co. Hill	0.10	10	8.34	3	2.50			4	
13894-001	1434	0131539	Bastrop County MUD No. 1 Bastrop	0.0495	10	4.13	2	0.83			5	
14859-001	0507	0130061	R & L Investment Property LLC Hunt	0.60	10	50.04	3	15.01			5	
14867-001	0701	0131369	Fannett Sewer Service and WSC Jefferson	0.12	10	10.01	3	3.00			4	
14874-001	1016	0067539	BCWK, L.P. Harris	0.10	10	8.34	3	2.50			4	
14882-001	1016	0083836	AMC Facilities, L.P. Harris	0.025	10	2.09	3	0.63			4	
14883-001	1203	0131474	Lake Whitney Resorts, L.L.C. Hill	0.065					10	5.42	4	
14886-001	1009	0097209	CW-MHP, Ltd. Harris	0.01	10	0.83	3	0.25			4	
14887-001	1228	0104558	City of Godley Johnson	0.36	10	30.02	3	9.01			4	
14889-001	1242	0129437	Cities of Waco, Woodway, Bellmead, Lacy-Lakeview, Robinson, Hewitt and Lorena McLennan	1.5	10	125.10	2	25.02			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
14890-001	0802	0131512	Escapee's Inc. Polk	0.030					20	5.00	4	
14891-001	1016	0131555	Lochinvar Golf Club Harris	0.005	10	0.42	3	0.13			4	
14894-001	0826	0131571	Realty Capital Belmont, Ltd. Denton	1.20	10	100.08	3	30.02			4	
14896-001	1009	0129852	Mason Westgreen, L.P. Harris	0.50	10	41.70	3	12.51			4	
14897-001	1016	0125326	Holy Trinity Episcopal School Harris	0.075	10	6.26	3	1.88			4	
14906-001	1908	0131628	Kendall County WCID No. 2 Kendall	0.80	5	33.36	1	6.67			5	

Total Maximum Daily Load Updates

The Total Maximum Daily Load (TMDL) Program works to improve water quality in impaired or threatened water bodies in Texas. The program is authorized by and created to fulfill the requirements of Section 303(d) of the federal Clean Water Act.

The goal of a TMDL is to restore the full use of a water body that has limited quality in relation to one or more of its uses. The TMDL defines an environmental target and based on that target, the state develops an implementation plan with waste load allocations for point source dischargers to mitigate anthropogenic (human-caused) sources of pollution within the watershed and restore full use of the water body.

The development of TMDLs is a scientifically rigorous process of intensive data collection and analysis. After adoption by the TCEQ, TMDLs are submitted to the U.S. Environmental Protection Agency for review and approval.

Table 2 reflects proposed waste load allocations for new dischargers and revisions to TMDLs.

Table 2. Total Maximum Daily Load Updates

State Permit Number	Segment Number	Permittee Name / County	Flow (MGD)	$CBOD_5$ (mg/L)	$CBOD_5$ (lbs/day)	NH_3-N (mg/L)	NH_3-N (lbs/day)	DO (mg/L)	Waste Load Allocation (WLA)	TMDL/Comments
13873-001	1245	City of Missouri City (Flat Bank Steep Bank) Fort Bend	6.0	-	-	-	-	-	8.9×10^{10} cfu *E. coli* per day	Bacteria in Upper Oyster Creek. Updates pages 32-37. Allocation Reach 1.
13691-001	0511	City of Bridge City Orange	0.02	20	3.3	8	1.3	2	9.5×10^{7} cfu *E. coli* per day	Dissolved Oxygen and Bacteria in the Orange County Watersheds. Updates Coon Bayou, Segment 0511B, Tables 19 (CBOD-page 43), 20 (NH3N-page 43) and 21 (bacteria - page 44).
11315-001	0511	Edward Ned Smith, Jr. Orange	0.009	30	2.3	8	0.57	4	4.3×10^{7} cfu *E. coli* per day	Dissolved Oxygen and Bacteria in the Orange County Watersheds. Updates Coon Bayou, Segment 0511B, Tables 19 (CBOD-page 43), 20 (NH3N-page 43) and 21 (bacteria - page 44).
13488-001	0511	Gulflander Partners Group, L.P. Orange	0.010	20	1.7	8	0.67	2	4.8×10^{7} cfu *E. coli* per day	Dissolved Oxygen and Bacteria in the Orange County Watersheds. Updates Coon Bayou, Segment 0511B, Tables 19 (CBOD-page 43), 20 (NH3N-page 43) and 21 (bacteria - page 44).
10188-001	1226	City of Hico Hamilton	0.250	-	-	-	-	-	2.1 lbs/day Total Phosphorus	Phosphorus in the North Bosque River. Updates pages 14-16.
11565-001	1226	City of Iredell Bosque	0.050	-	-	-	-	-	1.7 lbs/day Total Phosphorus	Phosphorus in the North Bosque River. Updates pages 14-16.

State Permit Number	Segment Number	Permittee Name / County	Flow (MGD)	$CBOD_5$ (mg/L)	$CBOD_5$ (lbs/day)	NH_3-N (mg/L)	NH_3-N (lbs/day)	DO (mg/L)	Waste Load Allocation (WLA)	TMDL/Comments
10113-002	1226	City of Meridian Bosque	0.45	-	-	-	-	-	5.9 lbs/day Total Phosphorus	Phosphorus in the North Bosque River. Updates pages 14-16.
10043-001	1226	City of Clifton Bosque	0.65	-	-	-	-	-	7.0 lbs/day Total Phosphorus	Phosphorus in the North Bosque River. Updates pages 14-16.
10307-001	1226	City of Valley Mills Bosque	0.36	-	-	-	-	-	3.0 lbs/day Total Phosphorus	Phosphorus in the North Bosque River. Updates pages 14-16.
14169-001	1226	City of Cranfills Gap Bosque	0.04	-	-	-	-	-	0.4 lbs/day Total Phosphorus	Phosphorus in the North Bosque River. Updates pages 14-16.
10290-001	1255	City of Stephenville Erath	3.0	-	-	-	-	-	25.4 lbs/day Total Phosphorus	Phosphorus in the North Bosque River. Updates pages 14-16.
14735-001	1255	Northside Subdivision Water Plant and Distribution Corp. Erath	0.033	-	-	-	-	-	0.28 lbs/day Total Phosphorus	Phosphorus in the North Bosque River. Updates pages 14-16.
04314-000	1255	Western Dairy Transport, L.P. Erath	0.01	-	-	-	-	-	0.08 lbs/day Total Phosphorus	Phosphorus in the North Bosque River. Updates pages 14-16.