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FINAL

# October 2010 Update to the Texas Water Quality Management Plan

Prepared by the:  
Office of Water, Water Quality Division

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



# **October 2010 Update to the Texas Water Quality Management Plan**

Compiled and distributed by the  
Water Quality Assessment Section  
Water Quality Division  
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P.O. Box 13087, MC-150  
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WQMP updates are also available on the TCEQ web site at:  
<[www.tceq.state.tx.us/nav/eq/eq\\_wqmp.html](http://www.tceq.state.tx.us/nav/eq/eq_wqmp.html)>

Developed in accordance with Sections 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.<sup>1</sup>

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 effluent limitations of wastewater facilities, total maximum daily loads (TMDLs), 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<sup>2</sup>, 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 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.

The October 2010 WQMP update addresses the following topics:

1. Projected Effluent Limits Updates for water quality planning purposes
2. Service Area Population for Municipal Wastewater Facilities
3. Total Maximum Daily Load Updates

The Projected Effluent Limit Update section provides information compiled from August 1, 2010 through October 31, 2010, 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.

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

<sup>2</sup> 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, 07/2007, 10/2007, 01/2008, 04/2008, 07/2008, 10/2008, 01/2009, 04/2009, 07/2009, 10/2009, 01/2010, 04/2010 and 07/2010.

The Service Area Population section 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 Total Maximum Daily Load (TMDL) Update section provides information on proposed waste load allocations for new dischargers and revisions to existing TMDLs and has been developed by the Water Quality Planning Division, TMDL Program.

## 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<sub>5</sub> – 5 Day Carbonaceous Biochemical Oxygen Demand, NH<sub>3</sub>-N – Ammonia-Nitrogen, BOD<sub>5</sub> – 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 flow 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 <sub>5</sub> (mg/L)	CBOD <sub>5</sub> (lbs/day)	NH <sub>3</sub> -N (mg/L)	NH <sub>3</sub> -N (lbs/day)	BOD <sub>5</sub> (mg/L)	BOD <sub>5</sub> (lbs/day)	DO (mg/L)	Months/ Comments
10065-001	0303	0022322	City of Bogata Red River	0.332	30	83.07	3	8.31			4	
11300-001	0803	0027677	Westwood Shores MUD Trinity	0.20	10	16.68	3	5.00			5	Outfall 002 Interim Phase
				0.257	10	21.43	3	6.43			4	Outfall 003 Final Phase
11449-001	2422	0066656	Gray Utility Service, L.L.C. Chambers	0.90	7	52.54	3	22.52			4	
14967-001	0821	0132527	CMH Parks, Inc. Collin	0.075	10	6.26	3.00	1.88			4	
14980-001	2421	0132748	Ocean MHP, L.L.C. Chambers	0.03					20	5.00	4	
14981-001	2204	0132756	Teen Challenge of Texas Nueces	0.009					20	1.50	2	
14987-001	1016	0132365	JMH Homes-Houston, L.L.C. – Hermann Oaks MHP Harris	0.019	10	1.58	3	0.48			4	

## Planning Information Summary

The Water Quality Planning Division 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 Service area population 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

Planning Agency	Service Area	Needs	Needs Year	Basin Name / COG	Segment	County	WQMP Date	Comments	Year	Population
Bryan, City of	Bryan, City of, Thompson Creek WWTP	T/C	2010	Brazos River Basin	1242	Brazos	10/01/2010	Treatment plant improvements.	2010	74,650
									2020	84,038
									2030	92,672
Buffalo Gap, City of	Buffalo Gap, City of	T/C	2010	Brazos River Basin	1232	Taylor	10/01/2010	Treatment plant improvements.	2010	499
									2020	511
									2030	522
									2040	528
Edinburg, City of	Edinburg, City of	T/C	2010	Rio Grande Basin	2491	Hidalgo	10/01/2010	Treatment plant improvements.	2005	55,021
									2010	62,464
									2020	80,507
									2030	103,762
Granite Shoals, City of	Granite Shoals, City of	T/C	2010	Colorado River Basin	N/A	Burnett	10/01/2010	Treatment plant and collection system improvements.	2010	5,426
									2020	6,614
									2030	8,062
									2040	9,828
Hutto, City of	Hutto, City of	C	2010	Brazos River Basin	1244	Williamson	10/01/2010	Collection system improvements.	2010	12,479
									2020	17,153
									2060	42,363
Jefferson County WCID #10	Jefferson County WCID #10	C	2010	Neches River Basin	0701	Jefferson	10/01/2010	Collection system improvements.	2010	5,858
									2015	6,157
									2020	6,801
									2029	7,077
Kilgore, City of	Kilgore, City of	C	2010	Sabine River Basin	0505	Gregg	10/01/2010	Collection system improvements.	2005	11,826
									2010	11,823
									2020	12,363
									2030	12,921
Melissa, City of	Melissa, City of and Anna, City of	C	2010	Trinity River Basin/NCTCOG	0821	Collin	10/01/2010	Collection system improvements.	2005	7,375
									2010	21,120
									2020	32,000
									2030	44,000
San Augustine, City of	San Augustine, City of	C	2010	Neches River Basin	0610	San Augustine	10/01/2010	Collection system improvements.	2010	2,688
									2020	2,742
									2030	2,812
									2040	2,897

Trinity River Authority, Central Regional	20 Cities	T/C	2010	Trinity River Basin/NCTCOG	0841	Dallas	10/01/2010	Treatment plant improvements.	2003	1,114,723
									2015	1,342,336
									2030	1,704,769
									2040	1,896,688
Trinity River Authority, Denton Creek	Fort Worth, Haslet, Roanoke, Southlake, Keller, Flower Mound, & Denton County	C	2010	Trinity River Basin/NCTCOG	0826	Denton	10/01/2010	Collection system improvements.	2010	70,000
									2020	140,614
									2030	169,045

## Total Maximum Daily Load Updates

The Total Maximum Daily Load (TMDL) Program works to improve water quality in impaired or threatened waters 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 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.

The attached appendixes may reflect proposed waste load allocations for new dischargers and revisions to TMDLs. To be consistent, updates will be provided in the same units of measure used in the original TMDL document. And note that for bacteria TMDLs, loads may be expressed in counts for day, organisms per day, colony forming units per day, or similar expressions. These typically reflect different lab methods, but for the purposes of the TMDL program, these terms are considered synonymous.

## **Appendix I. Eight Total Maximum Daily Loads for Indicator Bacteria in Greens Bayou Above Tidal and Tributaries for Segment Numbers 1016, 1016A, 1016B, 1016C, and 1016D**

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TMDL Updates to the WQMP: Eight Total Maximum Daily Loads for Indicator Bacteria in Greens Bayou Above Tidal and Tributaries (Segments 1016, 1016A, 1016B, 1016C, and 1016D)

The document Eight Total Maximum Daily Loads for Indicator Bacteria in Greens Bayou Above Tidal and Tributaries: Segments 1016, 1016A, 1016B, 1016C, and 1016D was adopted by the TCEQ on 6/2/2010 and approved by EPA on 08/12/2010, and became an update to the state's Water Quality Management Plan (WQMP).

The TMDL document included individual Waste Load Allocations (WLAs) for bacteria for entities within the Greens Bayou watershed. The purpose of this update is to make the following changes and corrections to the TMDL:

- Assign WLAs to new permitted entities that have come online since the inception of the TMDL or that were inadvertently left out of the original TMDL. (Table 1)
- Adjust WLAs for permits that have been amended since the inception of the TMDL. (Table 2)
- Remove expired, revoked, or withdrawn permits from the TMDL permit list. (Table 3)

In addition, the TMDL equations will be adjusted accordingly (Table 4). The TMDL allocations in Table 17 of the TMDL document (page 46) are affected, but the allocations in Table 18 (page 47) are not. All the changes reflected in this update resulted in the shifting of allocations between the sum of the individual WLAs and the allowance for future growth within each assessment unit, as is reflected in Table 17 of the TMDL (and Table 4 here). In Table 18 of the TMDL, the WLAs for permitted facilities are the sum of the individual WLAs and the allowance for future growth within each assessment unit. This overall number did not change.

Table 1 - Waste Load Allocations for Permitted Facilities – New Discharges

State Permit Number	Outfall	EPA Permit Number	Segment Number	Permittee Name	Flow (MGD)	Waste Load Allocation (WLA) - <i>E. coli</i> in Billion MPN/day	TMDL Comments
04914-000	001	TX0132489	1016_03	Pondera Capital Management	0.86	2.05	Add to Table 15, pp. 39-42
14987-001	001	TX0132365	1016_03	JMH Homes-Houston LLC	0.019	0.0453	Add to Table 15, pp. 39-42
12070-002	001	TX0094188	1016C_01	Aldine ISD	0.06	0.143	Add to Table 15, pp. 39-42

Table 2 - Waste Load Allocations for Permitted Facilities –Amended Discharges

State Permit Number	Outfall	EPA Permit Number	Segment Number	Permittee Name	Flow (MGD)	Waste Load Allocation (WLA) - <i>E. coli</i> in Billion MPN/day	TMDL Comments
10763-002	001	TX0034401	1016A_02	Humble-South	5.53	13.2	Table 15, pp. 39-42
14419-001	001	TX0125661	1016A_03	Land Tejas Park Lakes	0.8	1.91	Table 15, pp. 39-42

Table 3 - Permitted Facilities – Expired, Revoked, or Withdrawn Permits

State Permit Number	EPA Permit Number	Segment Number	Permittee Name	Flow (MGD)	Waste Load Allocation (WLA) - <i>E. coli</i> in Billion MPN/day	TMDL Comments
10495-115	TX0054798	1016_01	Houston-Northborough MUD	NA	NA	Remove from Table 15, pp. 39-42
11884-001	TX0073407	1016_01	NW Harris Co. MUD 006	NA	NA	Remove from Table 15, pp. 39-42
14446-001	TX0095265	1016_01	1920 Interpark	NA	NA	Remove from Table 15, pp. 39-42
04018-001	TX0078638	1016_02	Dresser Industries	NA	NA	Remove from Table 15, pp. 39-42
11597-001	TX0058076	1016_02	North Belt UD	NA	NA	Remove from Table 15, pp. 39-42
11678-001	TX0064424	1016_02	Yazdcorp Funds V LLC	NA	NA	Remove from Table 15, pp. 39-42

State Permit Number	EPA Permit Number	Segment Number	Permittee Name	Flow (MGD)	Waste Load Allocation (WLA) - <i>E. coli</i> in Billion MPN/day	TMDL Comments
12149-001	TX0081388	1016_02	MLR Management	NA	NA	Remove from Table 15, pp. 39-42
13066-001	TX0097276	1016_02	Hoajey, Ltd.	NA	NA	Remove from Table 15, pp. 39-42
12626-001	TX0091847	1016_03	Thurber	NA	NA	Remove from Table 15, pp. 39-42
14557-001	TX0087840	1016_03	Mumtaz Builders	NA	NA	Remove from Table 15, pp. 39-42
02685-001	TX0094196	1016A_02	Tiampo, Jamie	NA	NA	Remove from Table 15, pp. 39-42
10763-003	TX0073989	1016A_02	Humble-Timberwood	NA	NA	Remove from Table 15, pp. 39-42
12418-001	TX0088111	1016A_02	Panalpina Inc.	NA	NA	Remove from Table 15, pp. 39-42
14405-001	TX0079570	1016A_02	International Airport Sq Inves	NA	NA	Remove from Table 15, pp. 39-42
14289-001	TX0124346	1016A_03	Austofield Partners #1	NA	NA	Remove from Table 15, pp. 39-42

Table 4 - *E. coli* TMDL Summary Calculations for Greens Bayou Assessment Units

Assessment Unit	Sampling Location	Stream Name	TMDL (Billion MPN/day)	WLA <sub>WWTF</sub> (Billion MPN/day)	WLA <sub>StormWater</sub> (Billion MPN/day)	LA (Billion MPN/day)	MOS (Billion MPN/day)	Future (Billion MPN/day) Growth
1016_01	11371	Greens Bayou Above Tidal	403	65.0	293	0	20.2	24.8
1016_02	11371	Greens Bayou Above Tidal	1,020	112	789	0	51.2	67.8
1016_03	11369	Greens Bayou Above Tidal	1,780	206	1,050	231	89.0	204
1016A_02	11125	Garners Bayou	197	21.4	138	5.69	9.84	22.1
1016A_03	11125	Garners Bayou	419	59.1	214	31.0	21.0	93.9
1016B_01	20024	Unnamed Tributary of Greens Bayou	15	0	12.4	1.86	0.751	0
1016C_01	11124	Unnamed Tributary of Greens Bayou	94.1	1.03	88.2	0	4.70	0.170
1016D_01	16676	Unnamed Tributary of Greens Bayou	79.7	13.3	35.8	6.51	3.99	20.1

## Appendix II. Three Total Maximum Daily Loads for Chloride, Sulfate, and Total Dissolved Solids in Petronila Creek Above Tidal for Segment Number 2204

TMDL Updates to the WQMP: Petronila Creek Above Tidal (Segment 2204)

The document Three Total Maximum Daily Loads for Chloride, Sulfate, and Total Dissolved Solids in Petronila Creek Above Tidal For Segment Number 2204 was adopted by the TCEQ on 1/10/2007 and approved by EPA on 3/14/2007, and became an update to the state's Water Quality Management Plan (WQMP).

The TMDL document included individual Waste Load Allocations (WLAs) for the constituents of concern, and a WQMP update memorandum was submitted in January 2009 updating the allocations and correcting some errors in the original TMDL equations. The purpose of this update is to remove the allocation for a permit that expired and replace it with the facility's new permit, making an adjustment for a new, lower permitted discharge. The TMDL equations will be adjusted accordingly.

Table 1 – Changes to Individual Waste Load Allocations

State Permit Number	Outfall	EPA Permit Number	Segment Number	Permittee Name	Flow (MGD)	Permit Implementation	Waste Load Allocation (WLA) in lbs/day	TMDL Comments
11689-001*	001	TX0064408	2204	City of Coastal Bend Youth City	n/a	n/a	n/a	Updates Table 7, p. 28
14981-001	001	TX0132756	2204	Teen Challenge of Texas	0.009	Chloride Limit	107	Updates Table 7, p. 28
14981-001	001	TX0132756	2204	Teen Challenge of Texas	0.009	Sulfate Limit	36	Updates Table 7, p. 28
14981-001	001	TX0132756	2204	Teen Challenge of Texas	0.009	TDS Limit	285	Updates Table 7, p. 28

\* This permit expired, and was replaced with 14981-001. Therefore, it has no allocations.

The adjustment above also changes the overall TMDL equations for chloride, sulfate, and TDS, given in Tables 11, 12, and 13 respectively the TMDL document (pp. 32-33). Due to the decrease in the permitted discharge, a small allocation will be set aside as an allowance for future growth. The total TMDL equations should be updated as follows.

Table 2 – Changes to TMDL Equations

	TMDL (lbs/year)	WLA (lbs/year)	LA (lbs/year)	MOS (lbs/year)	Allowance for Future Growth (lbs/year)
Chloride	4.50E+07	3.09E+06	3.96E+07	2.25E+06	5.95E+04
Sulfate	2.06E+07	1.03E+06	1.85E+07	1.03E+06	3.98E+04
TDS	9.76E+07	8.24E+06	8.42E+07	4.88E+06	2.79E+05

## **Appendix III. Six Total Maximum Daily Loads for Bacteria in Waters of the Upper Gulf Coast for Segment Numbers 2421, 2422, 2423, 2424, 2432 and 2439.**

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TMDL Updates to the WQMP: Six Total Maximum Daily Loads for Bacteria in Waters of the Upper Gulf Coast (Segments 2421, 2422, 2423, 2424, 2432, and 2439)

The document *Six Total Maximum Daily Loads for Bacteria in Waters of the Upper Gulf Coast: Segments 2421, 2422, 2423, 2424, 2432, and 2439* was adopted by the TCEQ on 8/20/2008 and approved by EPA on 02/04/2009, and became an update to the state's Water Quality Management Plan (WQMP). Three subsequent memos have updated the list of individual waste load allocations (WLAs) found in the original TMDL document, adding some permitted facilities, and removing others.

The TMDL team was notified that an application was received requesting a new discharge in the project's watershed. The purpose of this memo is to provide an individual WLA to reflect this change. Note that this is a concentration-based TMDL, and therefore there are no final TMDL equations to be affected by this change.

Table 1 - Daily Loads for WWTF based on Concentration Allocations

State Permit Number	Outfall	Segment Number	Permittee Name	Flow (MGD)	Waste Load Allocation (WLA)	Waste Load Allocation (WLA)	Waste Load Allocation (WLA)	TMDL/ Comments
					Fecal Coliform (org/day)*	<i>E. coli</i> (org/day) *	Enterococcus (org/day) *	
14980-001	001	2421	Ocean MHP, LLC	0.03	227,124,707	143,088,565	39,746,824	Updates p. A-1

\*Concentrations limits will be based on the applicable indicator bacteria criterion geometric means (Fecal coliform or *E. coli* or Enterococcus).