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January 2014 Update to the Texas Water Quality Management Plan

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

January 2014 Update to the Texas Water Quality Management Plan

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WQMP updates are also available on the TCEQ web site at:

< www.tceq.texas.gov/waterquality/assessment/WQmanagement_updates.html >

Developed in accordance with Sections 205(j), 208,
and 303 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 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 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 United States 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 January 2014 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.

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 1974, 1975, 1977, 1978, 1979, 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, 07/2010, 10/2010, 01/2011, 04/2011, 07/2011, 10/2011, BPUB 2011, 01/2012, 04/2012, 07/2012, 10/2012, 01/2013, 04/2013, 07/2013, and 10/2013.

The Projected Effluent Limit Update section provides information compiled from November 1, 2013 through January 31, 2014, 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 Service Area Population 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, 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 flow volumes and effluent sets may be modified at the time of permit action. These limits are based on water quality standards (WQS) effective at the time of the TCEQ production of this update. WQS 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
10050-001	1231	TX0024261	City of Olney Archer	0.79	7	46.12	2	13.18			5	Outfall 002
10177-001	1229	TX0033316	City of Glen Rose Somervell	1.0	10	83.40	3	25.02			4	
10264-002	1244	TX0101940	City of Round Rock, City of Cedar Park and City of Austin Williamson	25	10	2085.00	2	417.00			6	
11090-001	1213	TX0020249	Bell County WCID No. 2 Bell	0.100					20	16.68	2	MOA
12346-001	1014	TX0086185	West Park MUD Harris	0.99	7	57.80	2	16.51			6	
14194-001	1202	TX0123013	Aqua Texas, Inc. Fort Bend	0.225	10	18.77	2	3.75			4	Relocation of Outfall
14259-001	0101	TX0053961	City of Canadian Hemphill	0.44	7	25.69	2	7.34			4	
15139-001	1009	TX0134759	Ryland Homes of Texas, Inc. Harris	0.48	10	40.03	3	12.01			6	
15145-001	1011	TX0134805	Bradbury Development, Ltd. Montgomery	5.0	5	208.50	1	41.70			6	
15163-001	2491	TX0134902	North Alamo WSC Hidalgo	0.50	10	41.70	3	12.51			4	
15192-001	1003	TX0134996	Quadvest, L.P. Montgomery	0.90	10	75.06	3	22.52			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
City of Arlington	City of Arlington	T/C	2014	Trinity River	0841	Tarrant	11/13/2013	Replace a section of the City's Kee Branch Sanitary Sewer and Lynn Creek Sewer.	2010	380,628
									2020	425,000
									2030	450,000
									2040	472,065
City of Ballinger	City of Ballinger	T/C	2014	Colorado River	1426	Runnels	11/14/2013	Rehabilitate and expand existing lagoon WWTP and effluent disposal by irrigation system.	2010	4,379
									2020	4,871
									2030	5,243
									2040	5,654
City of Dell	City of Dell	T/C	2014	Rio Grande	2300	Hudspeth	12/2/2013	Plan, design and install a land application disposal system near the City's wastewater treatment plant.	2010	3,207
									2020	3,485
									2030	3,626
									2040	3,626
City of Houston	City of Houston	T/C	2014	San Jacinto-Brazos Coastal/HGAC	1101	Harris	1/29/2014	Rehabilitate sewer pipe using pipe bursting and cured in place pipe rehabilitation methods at various locations throughout the City.	2010	2,240,974
									2020	2,520,926
									2030	2,798,278
									2040	3,073,268
City of Olney	City of Olney	T/C	2014	Brazos River	1231	Young	12/10/2013	Construction of a pump station and pipeline system to transport Olney WWTP effluent to Lake Olney for reservoir augmentation.	2010	3,429
									2020	3,504
									2030	3,509
									2040	3,469
City of Robstown	City of Robstown	T/C	2014	Bays & Estuaries / CBCOG	2485	Nueces	1/21/2014	Replace failing, vitrified clay sanitary sewer and associated deteriorated brick manholes along Matiana Ortiz Blvd to address inflow infiltration into the sewer system.	2010	12,727
									2020	12,727
									2030	12,727
									2040	12,727
City of Van Alstyne	City of Van Alstyne	T/C	2014	Red River	0821	Grayson	12/2/2013	Rehabilitation of the WWTP to include planning, design and construction of multiple components; and replacement of existing sanitary sewer mains throughout the City that are deteriorated.	2010	3,046
									2020	7,500
									2030	13,500
									2040	17,000

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.

Planning Agency	Service Area	DMA Needs	DMA Date
City of Dell	City of Dell	T/C	8/27/2013
City of Olney	City of Olney	T/C	10/14/2013
City of Robstown	City of Robstown	T/C	5/17/2010
City of Van Alstyne	City of Van Alstyne	T/C	8/13/2013

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 EPA 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. Also 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. Eighteen Total Maximum Daily Loads for Bacteria in Buffalo and Whiteoak Bayous and Tributaries For Segment Numbers 1013, 1013A, 1013C, 1014, 1014A, 1014B, 1014E, 1014H, 1014K, 1014L, 1014M, 1014N, 1014O, 1017, 1017A, 1017B, 1017D, and 1017E

TMDL Updates to the Water Quality Management Plan (WQMP): Buffalo and Whiteoak Bayous and Tributaries (Segments 1013, 1013A, 1013C, 1014, 1014A, 1014B, 1014E, 1014H, 1014K, 1014L, 1014M, 1014N, 1014O, 1017, 1017A, 1017B, 1017D, and 1017E)

The document *Eighteen Total Maximum Daily Loads for Bacteria in Buffalo and Whiteoak Bayous and Tributaries For Segment Numbers 1013, 1013A, 1013C, 1014, 1014A, 1014B, 1014E, 1014H, 1014K, 1014L, 1014M, 1014N, 1014O, 1017, 1017A, 1017B, 1017D, and 1017E* was adopted by the TCEQ on 04/08/2009 and approved by EPA on 06/11/2009, and became an update to the state's Water Quality Management Plan (WQMP). Eight subsequent WQMP updates prior to this one have updated the list of individual waste load allocations (WLAs) found in the original TMDL document. Additionally, an addendum to the original TMDL was submitted through the April 2013 WQMP update. This addendum added one new assessment unit (AU) to the original TMDL project.

The purpose of this update is to make the following changes to the TMDL, presented in Table 1:

- remove one canceled permit;
- update the WLA for one facility that has increased its permitted discharge; and
- update the name of one facility.

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 (AFG) in one AU. This was originally presented in Table 53 in the TMDL document, and the affected AU is included here as Table 2.

In Table 54 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. Therefore, these overall numbers did not change, and Table 54 of the TMDL remains the same.

Table 1 – Change to Individual Waste Load Allocation (Updates Table 45, pp. 99-103 in the TMDL document.)

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
12346-001	001	TX0086185	1014H_02	WEST PARK MUD	0.99	2.361	Increased discharge
14635-001	001	TX0128082	1014H_02	HARRIS COUNTY MUD 449	N/A	N/A	Name changed
15036-001	001	TX0133493	1017_01	MCDONALDS CORP.	N/A	N/A	Canceled permit (had already been removed under earlier permit number, so no change to TMDL equations)

Table 2 - *E. coli* TMDL Summary Calculation (Updates Table 53, pp. 118-119 in the TMDL document.)

Assess-ment Unit	TMDL (Billion MPN/day)	WLA _{ww} ^{TF} (Billion MPN/day)	WLA ^{StormWater} (Billion MPN/day)	LA (Billion MPN/day)	MOS (Billion MPN/day)	Upstream Load (Billion MPN/day)	Future Growth (Billion MPN/day)
1014H_02	175.43	27.72	125.93	13.99	0	0	7.79

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

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 06/2/2010 and approved by EPA on 08/12/2010, and became an update to the state's Water Quality Management Plan (WQMP). It has had four subsequent WQMP updates prior to this one that provided individual Waste Load Allocations (WLAs) for permitted facilities.

The purpose of this update is to make the following change to the TMDL, presented in Table 1:

- remove a permit application that has been withdrawn and include the permit that is replacing it.

The changes reflected in this update resulted in no changes to allocations between the sum of the individual WLAs and the allowance for future growth (AFG) in any assessment units (AUs). This was originally presented in Table 17 in the TMDL document. Because there were no changes to this table, it is not updated 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. Therefore, these overall numbers did not change, and Table 18 of the TMDL remains the same.

Table 1 – Change to Individual Waste Load Allocation (Updates Table 15, pp. 39-42 in the TMDL document.)

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
05105-000	001	TX0135038	1016_01	R&A HARRIS SOUTH LP	0.006	0.0143	New permit (replaces withdrawn permit 15085-001; TX0134457); the flow and WLA did not change

Appendix III. Fifteen Total Maximum Daily Loads for Indicator Bacteria in Watersheds Upstream of Lake Houston For Segment Numbers 1004E, 1008, 1008H, 1009, 1009C, 1009D, 1009E, 1010, and 1011

TMDL Updates to the Water Quality Management Plan (WQMP): Watersheds Upstream of Lake Houston (1004E, 1008, 1008H, 1009, 1009C, 1009D, 1009E, 1010, and 1011)

The document *Fifteen Total Maximum Daily Loads for Indicator Bacteria in Watersheds Upstream of Lake Houston For Segment Numbers 1004E, 1008, 1008H, 1009, 1009C, 1009D, 1009E, 1010, and 1011* was adopted by the TCEQ on 04/06/2011 and approved by EPA on 06/29/2011, and became an update to the state's Water Quality Management Plan (WQMP). Eight subsequent WQMP updates prior to this one have updated the list of individual waste load allocations (WLAs) found in the original TMDL document. Additionally, an addendum to the original TMDL was submitted through the October 2013 WQMP update. This addendum added six new assessment units (AUs) to the original TMDL project.

The purpose of this update is to make the following changes to the TMDL, presented in Tables 1 and 3:

- update the WLA for one facility that has increased its permitted discharge,
- add one new permit, and
- remove two expired permits from the list in the October 2013 addendum and update the permittee names.

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 (AFG) in four AUs. This was originally presented in Table 18 in the original TMDL document, and the four affected AUs are included here as Table 2.

In Table 19 of the original TMDL, the WLAs for permitted facilities are the sum of the individual WLAs and the allowance for future growth within each assessment unit. Therefore, these overall numbers did not change, and Table 19 of the TMDL remains the same.

Table 1 – Changes to Individual Waste Load Allocations (Updates Table 16, pp. 49-56 in the TMDL document.)

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
15145-001	001	TX0134805	1011_01*	BRADBURY DEVELOPMENT, LTD.	5.0	11.92	New permit
15139-001	001	TX0134759	1009D_01	RYLAND HOMES OF TEXAS, INC	0.48	1.14	Increased flow

*Upstream contributor to listed AU (1011_02)

Table 2 - *E. coli* TMDL Summary Calculations for Lake Houston Assessment Units (Updates Table 18, pp. 61 in the TMDL document.)

Assessment Unit	Sampling Location	Stream Name	TMDL (Billion MPN/day)	WLA _{WWTF} (Billion MPN/day)	WLA _{StormWater} (Billion MPN/day)	LA (Billion MPN/day)	MOS (Billion MPN/day)	Future Growth (Billion MPN/day)
1009_03	11328	Cypress Creek	1340	159	299	690	67.0	125
1009_04	11324	Cypress Creek	1550	197	338	779	77.4	157
1009D_01	17481	Spring Gully	20.5	4.56	4.09	8.13	1.02	2.69
1011_02	17746	Peach Creek	422	17.1	0	383	21.1	0.290

In addition, Table 3 below provides updates to Table 11 found in the October 2013 addendum to this TMDL project (*Addendum One to Fifteen Total Maximum Daily Loads for Indicator Bacteria in Watersheds Upstream of Lake Houston: Six Additional Total Maximum Daily Loads for Indicator Bacteria in Watersheds Upstream of Lake Houston For Segments 1008B, 1008C, 1008E, and 1011 Assessment Units 1008B_01, 1008B_02, 1008C_01, 1008C_02, 1008E_01, and 1011_01*). Two of the permits expired during the development of that addendum, and the names of nine other facilities have been updated to give their permitted names rather than their facility names. The WLAs for the facilities with expired permits have already been addressed in previous WQMP updates, and will not be further updated here.

Table 4 below provides updates to Table 12 found in the October 2013 addendum to this TMDL project. The addendum added six AUs that were not included in the original TMDL. Five of these (1008B_01, 1008B_02, 1008C_01, 1008C_02, and 1008E_01) were lumped together as contributing loading to 1008_03 and 1008_04. This table provides the specific allocations for these five AUs, which do not change anything in the original TMDL. The sixth additional AU (1011_01) was treated as an upstream contributing load to 1011_02 in the original TMDL. A new facility (15145-001/ TX0134805) that discharges to 1011_01 has come online, and will affect the loadings of both 1011_02 as well as the original TMDL AU 1011_01.

In this case, the loading from this new facility exceeds the allowance for future growth (AFG) indicated in the TMDL addendum. Following protocols established in earlier WQMP updates, additional AFG loading (11.92 billion MPN/day) is effectively being “borrowed” from the downstream AU, 1011_02.

Table 3– Changes to Individual Waste Load Allocations and Permittee Names (Updates Table 11, p. 23 in the TMDL Addendum document.)

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
WQ0012597-001	001	TX0091715	1008B_01	SAN JACINTO RIVER AUTHORITY	No change	No change	Changed to give permittee name
WQ0011401-001	001 & 002 ^a	TX0054186	1008C_02	SAN JACINTO RIVER AUTHORITY	No change	No change	Changed to give permittee name
WQ0013697-001	001	TX0090000	1008C_01	CEDARSTONE ONE INVESTORS, INC.	No change	No change	Changed to give permittee name
WQ0014141-001	001	TX0120073	1008E_01	AQUA TEXAS INC.	No change	No change	Changed to give permittee name
WQ0014918-001	001	TX0131725	1008E_01	WOODLANDS DB LP	N/A	N/A	Permit expired (addressed in April 2013 WQMP update)
WQ0014909-001	001	TX0131652	1008E_01	LINCOLN MANUFACTURING INC.	N/A	N/A	Permit expired (addressed in October 2013 WQMP update)
WQ0014013-001	001	TX0118028	1008E_01	AQUA TEXAS INC.	No change	No change	Changed to give permittee name
WQ0012703-001	001	TX0092843	1008E_01	MAGNOLIA ISD	No change	No change	Changed to give permittee name
WQ0013389-001	001	TX0102512	1011_01	CITY OF SPLENDORA	No change	No change	Changed to give permittee name
WQ0011143-001	001	TX0082511	1011_01	SPLENDORA ISD	No change	No change	Changed to give permittee name
WQ0011143-002	001	TX0117463	1011_01	SPLENDORA ISD	No change	No change	Changed to give permittee name

^a This facility has two permitted outfalls. Their combined full permitted flow is 7.8 MG

Table 4– E. coli TMDL Summary for Impaired AUs of the Addendum (Updates Table 12, p. 26 in the TMDL Addendum document.)
Loads are in billion MPN/day.

AU	Stream Name	TMDL	MOS	WLA _{WWTF}	WLA _{SW}	LA _{AU}	LA _{RES}	LA _{TOTAL}	Future Growth
1008B_01	Upper Panther Branch	102.7	5.14	18.60	39.64	27.84	0	27.84	11.50
1008B_02	Upper Panther Branch	109.0	5.45	19.91	56.29	14.78	0	14.78	12.53
1008C_01	Lower Panther Branch	282.5	2.91	18.61	30.62	2.10	224.2	226.3	4.06
1008C_02	Lower Panther Branch	282.0	2.89	18.60	31.90	0.32	224.2	224.5	4.06
1008E_01	Bear Branch	91.10	4.56	1.31	75.22	8.98	0	8.98	1.02
1011_01	Peach Creek	214.1	10.7	12.83*	3.05	198.1	0	198.1	1.33 (-10.59)*

*Since the development of the addendum, a new facility (15145-001/TX0134805) has been added to the watershed of 1011_01. It exceeds the AFG for this AU, but additional capacity is available in the downstream AU (1011_02), and is effectively being borrowed from it, leaving the 1.33 billion MPN/day for AFG from the original equation in the addendum. This “borrowing” is shown in Table 2 above. (To make the numbers add up to the TMDL for this AU in Table 4, use an AFG of -10.59 billion MPN/day. Again, this indicates future loading borrowed from downstream.)

In Table 13 of the TMDL addendum, the WLAs for permitted facilities are the sum of the individual WLAs and the allowance for future growth within each assessment unit. Therefore, these overall numbers did not change, and Table 13 of the TMDL remains the same.