

Table 3.12 Summary of Existing Average PCB Loads to Impaired Trinity River Assessment Units

Assessment Unit	Average Daily Loads (mg/day)							
	External Loads					Internal Load	Sum of External Loads to AU ^c	Load at Downstream Boundary of AU
	WWTFs	PS Runoff	NPS Runoff	Upstream Sources ^a		Sediment Exchange dS ^b		
Non-Impaired				Impaired				
0829_01	0	154	142	34 ^d	0	518	330	848
0806_01	0.008	691	162	151 ^e	848	-6	1,852	1,846
0841_02	371	113	0	10 ^f	1,846	6,960	2,340	9,300
0841_01	332	206	11	607 ^g	9,300	-2,186	10,456	8,270
0805_04	0.49	1,673	0	694 ^h	8,270	2,371	10,637	13,008
0805_03	602	162	0	130 ⁱ	13,008	10,064	13,902	23,966
0805_06	169	84	32	0	23,966	1,437	24,251	25,688
0805_02	59	20	90	183 ^j	25,688	-2,220	26,040	23,820
0805_01	0	0	78	0	23,820	-5,097	23,898	18,801
Overall	1,533	3,103	515	1,809		11,841		
	8%	17%	3%	10%		63%		

a upstream non-impaired designated Segments and impaired AUs

b Negative numbers indicate areas where there is net deposition of PCBs to sediments

c includes WWTFs, PS runoff, NPS runoff, upstream sources, and immediate upstream impaired AU

d Lake Benbrook (Segment 0830)

e Lake Worth (Segment 0807)

f Lake Arlington (Segment 0828)

g Mountain Creek Lake (Segment 0841A)

h Elm Fork Trinity River (Segment 0822)

i White Rock Lake (Segment 0827)

j East Fork Trinity River (Segment 0819)

Table 5.1 TMDL Calculations

Assessment Unit	Existing Load (mg/day)	Overall Required Reduction (%)	TMDL (mg/day)	Adjusted ^a Reduction (%)	Waste Load Allocation (mg/day)		Load Allocation (mg/day)			
					Individually Permitted Facilities	MS4	Upstream Sources		NPS	Internal (Sediment)
							Non-Impaired Segments	Impaired AUs		
0829_01	848	60%	339	63%	0	58	34	0	53	194
0806_01	1,846	76%	443	83%	0.008	119	151	339	28	-194
0841_02	9,300	86%	1,302	87%	359	15	10	443	0	475
0841_01	8,270	81%	1,571	84%	411	33	252 ^b	1,302	2	-429
0805_04	13,008	64%	4,683	68%	2	535	694	1,571	0	1,881
0805_03	23,966	74%	6,231	75%	432	40	130	4,683	0	946
0805_06	25,688	80%	5,138	80%	237	17	0	6,231	6	-1,353
0805_02	23,820	71%	6,908	72%	66	6	183	5,138	25	1,490
0805_01	18,801	65%	6,580	65%	0.087	0	0	6,908	27	-355

a adjusted to reflect that load reductions are not expected in non-impaired upstream segments

b for Mountain Creek Lake, an upstream segment for which a TMDL has been developed, the upstream load was calculated at the average flow and the water quality target of 0.57 ng/L. Current PCB loads exceed this level.

Table 3.1 Estimated PCB Loads from Individually Permitted Facilities Discharging to the Impaired Waterbodies

TCEQ Permit #	Name	Facility Name	AU	Permit Category	Effluent Type	Flow (MGD)		Estimated PCB Load (mg/day) ^b
						Permitted	Average self-reported ^d	
WQ0002831-000	Reagent Chemical & Research, Inc	Reagent Chemical & Research, Inc	0806_01	Industrial	Treated Wastewater	^a	<0.00001	<0.001
WQ0003730-000	Chevron USA, Inc.	Chevron USA, Inc.		Industrial	Treated Wastewater	^a	0.0025	0.008
WQ0010494-013	City of Fort Worth	Village Creek WWTP	0841_02	Public Domestic	Treated Wastewater	166	108.4	371
WQ0003993-000	Citgo Products Pipeline Company	Arlington Pump Station		Industrial	Treated Wastewater	^a	0.006	0.020
WQ0010303-001	Trinity River Authority of Texas	Central Regional WWTP	0841_01	Public Domestic	Treated Wastewater	189	137.2	328
WQ0011032-001	Andrews, Chester Alan	Alta Vista Mobile Home Park		Private Domestic	Treated Wastewater	0.008	0.005	0.017
WQ0012982-001	Regency Conversions Inc	Regency Conversions		Private Domestic	Treated Wastewater	0.005	0.003	0.010
WQ0001250-000	Extex LaPorte LP	Mountain Creek Steam Electric Station		Industrial	Storm Water	^a	0.022	0.073
WQ0003446-000	Hanson Pipe & Precast, Inc.	Grand Prairie Pressure Pipe Plant		Industrial	Treated Wastewater, Storm Water	^a	1.06	3.53
WQ0001441-000	Dallas-Fort Worth International Airport Board	Dallas-Fort Worth International Airport		Industrial	Storm Water	^a	None reported	
WQ0014699-001	Dallas County Park Cities MUD	Dallas County Park Cities Municipal Utility District Water Treatment Plant	0805_04	Public	Treated Filter Backwash	0.72	0.122	0.41
WQ0004161-000	2200 Ross LP	Chase Tower		Industrial	Treated Ground Water, Storm Water	0.155	0.166	0.55
WQ0004663-000	Buckley Oil Co.	Buckley Oil Co. WWTP		Industrial	Storm Water	^a	0.022	0.073
WQ0004765-000	IPC Dallas I, LP	San Jacinto Tower Office		Industrial	Treated Ground Water	0.029092	None reported	0.089
WQ0010060-001	City of Dallas	Central WWTP	0805_03	Public Domestic	Treated Wastewater	200	122.5	602
WQ0010060-006	City of Dallas	Southside WWTP	0805_06	Public Domestic	Treated Wastewater	110	64.5	169
WQ0004687-000	Univar USA, Inc.	Univar USA, Inc.		Industrial	Storm Water	^a	None reported	
WQ0014628-001	D-BAR-B Water-Wastewater Supply Corporation	D-BAR-B Water-Wastewater Supply Corporation		Private Domestic	Treated Wastewater	0.024	0.0015	0.005
WQ0010984-001	Trinity River Authority	Ten Mile Creek Plant	0805_02	Public Domestic	Treated Wastewater	24	14.9	49.6
WQ0013415-001	Trinity River Authority	Red Oak Creek Regional WWTP		Public Domestic	Treated Wastewater	6	2.58	8.59
WQ0014795-001	City of Palmer	City of Palmer WWTF		Public Domestic	Treated Wastewater	0.226	0.154	0.51
WQ0002519-000	Hanson Aggregates West, Inc.	Hanson Aggregates West, Inc.		Industrial	Storm Water	0.3	0	0
WQ0014471-001	Scurry-Rosser ISD	Scurry-Rosser WWTP	0805_01	Public Domestic	Treated Wastewater	0.04	None reported	0.067 ^c

^a Intermittent and flow variable

^b For the four sampled facilities, PCB load was calculated using measured PCB concentrations and self-reported flows, for the remainder, loads were calculated using average PCB from 4 major facilities (0.88 ng/L) times self-reported flows

^c Half of the permitted flow was used for load calculations due to lack of self-reporting data

^d from January 2004 to December 2008