



Storm Water Pollution Prevention Program

***Bexar County Infrastructure Services
September 2008***



Phase II Storm Water Program

- ***Review of Program Requirements***
- ***Previous Actions - 2003 to present***
- ***Update on Current Activities***
- ***Funding Issues***
- ***Timeline to Implement Program***
- ***Actions Required***



Federal Phase II Storm Water Program Review

- ***Required by the Clean Water Act***
- ***Storm water discharges from “small municipal separate storm sewer systems” - called MS4’s must be covered by a discharge permit***
- ***MS4’s are defined as any conveyance including roads with bar ditches owned by a political subdivision***
- ***Discharge permits can be issued as individual permits or general permits***
- ***Follow up to Phase I which regulated municipalities greater than 100,000 (all filed as individual permits)***



6 Requirements of Phase II ***(to be implemented over a 5 year period*** ***4 years remaining)***

Known as the Stormwater Management Plan or
(SWMP)

- ***Public Education and Outreach***
- ***Public Involvement/Participation***
- ***“Illicit Discharge” Detection and Elimination***
- ***Construction Site Runoff Control***
- ***Post Construction BMP’s (Runoff control)***
- ***Good Housekeeping: Pollution Prevention Program***



Previous Actions

- *June 2003, HB 2031 (78th Legislature) granted Bexar Co. the authority to implement a Storm Water Program*
- *December 2003, Commissioners Court approved the Bexar County's proposed SWMP required by the program*
- *Federal challenges delayed Phase II Program Implementation and use of general permits nationwide.*
- *In July 2005, the District Attorney's Office determined that current authority granted by HB 2031 (78th Legislature) in 2003 was not sufficient to move forward and develop a funding mechanism to cover the program.*
- *June 2007, SB 1932 was passed allowing entities flexibility in developing a funding mechanism.*
- *On August 13, 2007, TCEQ finally approved a general permit allowing entities like Bexar County Phase II coverage.*
- *October 23, 2007 Commissioner Court approved the Bexar County's updated SWMP required by the program*
- *On September 2, 2008 Commissioner Court approved Bexar County's Federal Stormwater Fee schedule.*



Phase II Storm Water Program

State/Federal Regulatory Action

TCEQ Adopted Phase II MS4
General Permit on 8/13/07
Requiring local areas to submit an
NOI & SWMP



Storm Water Management Plan (SWMP)

- Public Education
- Public Involvement
- Illicit Discharge Detection/Elimination*
- Construction Inspection*
- Post Construction*
- Good Housekeeping for Facilities

Notice of Intent (NOI)

Recent Local Actions

1. Submit **NOI** and **SWMP**
Update **SWMP** originally approved by
Court in 12/2003
Submit **NOI** & **SWMP** to TCEQ by
2/11/08
2. *Approved Local Court Order
(Regulations) Containing 6 Programs
Measures in **SWMP***
3. *Approved Local Court Order funding
Stormwater*



Parcel Information

Unincorporated Bexar County (per B.C.A.D.)	2003	2007
Total Parcel Count (includes vacant)	55,897	94,661
Total Improved Parcels (less, agriculture & public)	34,581	71,114

Estimated 5 year Implementation of the 6 Programs

BEXAR COUNTY STORM WATER MANAGEMENT PROGRAM COST ESTIMATE - PREPARED BY PBS&J								DRAFT
PREPARED October 22, 2003								
SUMMARY OF ALL COSTS	ANNUAL TOTAL COSTS					5-YR Permit Cycle Cost	Y6 (Post Startup Ongoing Annual Cost)	Remarks
MCM	Y1	Y2	Y3	Y4	Y5			
MCM-1 - PUBLIC EDUCATION AND OUTREACH	\$ 10,940	\$ 15,240	\$ 12,440	\$ 12,440	\$ 12,440	\$ 63,500	\$ 12,440	
MCM-2 - PUBLIC PARTICIPATION AND INVOLVEMENT	\$ 89,840	\$ 89,360	\$ 89,360	\$ 89,360	\$ 95,260	\$ 453,180	\$ 90,500	
MCM-3 - ILLICIT DISCHARGE DETECTION AND ELIMINATION	\$ 375,835	\$ 316,535	\$ 310,715	\$ 307,515	\$ 304,115	\$ 1,614,715	\$ 301,915	
MCM-4 - CONSTRUCTION SITE RUNOFF CONTROL	\$ 149,965	\$ 232,890	\$ 416,730	\$ 416,730	\$ 416,730	\$ 1,633,045	\$ 416,730	
MCM-5 - POST CONSTRUCTION RUNOFF CONTROLS	\$ 22,560	\$ 272,460	\$ 238,140	\$ 245,740	\$ 270,740	\$ 1,049,640	\$ 280,540	
MCM-6 - GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS	\$ 15,400	\$ 15,400	\$ 32,600	\$ 27,000	\$ 27,000	\$ 117,400	\$ 27,000	
ADMINISTRATIVE COSTS (Annual Reporting, Etc.)	\$ 50,271	\$ 83,376	\$ 80,291	\$ 46,225	\$ 53,211	\$ 313,374	\$ 43,980	
EXISTING COSTS:	\$ 498,385	\$ 485,385	\$ 485,385	\$ 471,665	\$ 471,665	\$ 2,412,485	\$ 471,665	
NEW COSTS:	\$ 216,426	\$ 539,876	\$ 694,891	\$ 673,345	\$ 707,831	\$ 2,832,369	\$ 701,440	
PHASE II COMPLIANCE TOTAL COSTS:	\$ 714,811	\$ 1,025,261	\$ 1,180,276	\$ 1,145,010	\$ 1,179,496	\$ 5,244,854	\$ 1,173,105	
COSTS ADJUSTED FOR INFLATION	\$ 714,811	\$ 1,056,019	\$ 1,252,155	\$ 1,251,183	\$ 1,327,534		\$ 1,359,950	3% Annual Inflation
								National Cost Estimate (for City of 50,000)
POPULATION (2000 CENSUS) ¹	116,991							
PER CAPITA COST (Annual): <i>using non-inflated costs</i>	\$ 6.11	\$ 8.76	\$ 10.09	\$ 9.79	\$ 10.08	\$ 8.97	\$ 10.03	\$1.28 - \$7.34 / yr
TOTAL HOUSEHOLDS (2000 CENSUS) ²	83,468							
HOUSEHOLD COST (Annual): <i>using non-inflated costs</i>	\$ 8.56	\$ 12.28	\$ 14.14	\$ 13.72	\$ 14.13	\$ 12.57	\$ 14.05	
HOUSEHOLD COST (Monthly): <i>using non-inflated costs</i>	\$ 0.71	\$ 1.02	\$ 1.18	\$ 1.14	\$ 1.18	\$ 1.05	\$ 1.17	
LIGHT VEHICLE TIME (hours)	7,248	8,244	11,284	11,423	11,684		11,785	
EXISTING LIGHT VEHICLE VTEs	3.51	3.51	3.51	3.40	3.40		3.40	Vehicle Time Equivalent (VTE) (see "Cost Items" for VTE hour estimate)
NEW LIGHT VEHICLE VTEs	0.47	1.01	2.68	2.87	3.01		3.07	
VTE - VEHICLE TIME EQUIVALENT (see "Cost Items" for VTE hour estimate)	3.98	4.52	6.19	6.27	6.41		6.47	

¹ Population Calculated by subtracting City Populations within Bexar County (1,275,940) from Bexar County Population (1,392,931) = 116,991 [City populations from AACOG population statistics]

² Households Calculated by subtracting City of San Antonio Households (405,474) from Bexar County Households (488,942) = 83,468 [Does not account for other incorporated areas within Bexar County]

Federal Stormwater Fee Structure

Federal Stormwater Program Cost for Bexar County, Texas					
Unincorporated Area of Bexar County Only			Square Footage		Annual Collection Rate w/ Maintenance Program
			Lo	High	
Residential					
Tier 1	RT1	0	4,999	\$ 9.95	
Tier 2	RT2	5,000	+	\$ 13.14	
Multifamily					
Tier 1	MT1	0	21,999	\$ 22.22	
Tier 2	MT2	22,000	43,999	\$ 69.20	
Tier 3	MT3	44,000	131,999	\$ 209.85	
Tier 4	MT4	132,000	+	\$ 998.56	
Commercial/General					
Tier 1	CT1	0	21,999	\$ 56.62	
Tier 2	CT2	22,000	43,999	\$ 154.90	
Tier 3	CT3	44,000	86,999	\$ 277.60	
Tier 4	CT4	87,000	131,999	\$ 478.46	
Tier 5	CT5	132,000	+	\$ 1,057.09	
Site Development Permit Fee					
Site Disturbance			Greater than 1 Acre	\$ 500.00	



Activity

- ***Developed an updated 5 year Implementation schedule and costs for the program:
-Completed March 2008***
- ***Coordinated with Budget on financial management of the program and completed proposed budget:
-Completed April 2008***
- ***Coordinated with Tax Office collection of a potential fee and agreed to terms:
-Completed May 2008***
- ***Coordinate with affected Bexar County departments to determine a funding mechanism.
-Completed July 2008***



Actions

- 9 September 2008 Bexar County Commissioners Court Approved Bexar County Regulations for Stormwater Pollution Prevention
- Effective date 1 October 2008