Engineering Report

Lubbock County

Storm Water Management Plan

February 2008

PSC Project # 01274307

TABLE OF CONTENTS

_	_	
- 1	n.	 _
- 1	-	 74

	YANES OR VIOLET ON	4
1.0	INTRODUCTION	
	1.1 Executive Summary	
	1.2 List of Acronyms	
	1.3 Municipality Background	2
2 0	PLAN DEVELOPMENT ROCESS	5
2.0	2.1 Purpose and Scope	
	2.2 BMP Selection	
	2.2.1 Step One	
	2.2.2 Step Two	
	2.3 Selection of Measurable Goals and Implementation Schedule	
	2.4 Development and Review Process	
	2.5 Public Participation	7
• •	Y TOTAL OF DATE OF THE PARTY OF THE COAL CLAND IN DISTRIBUTE A PROPERTY OF THE PARTY OF THE PART	
3.0	LIST OF BMP'S, MEASURABLE GOALS, AND IMPLEMENTATION SCHEDULE	
	3.1 MCA 1: Public Education and Outreach on Storm Water Impacts	
	3.1.1 Specific Requirements	
	3.1.2 Overall Program	9
	3.2 MCM 2: Public Involvement/Participation	
	3.2.1 Specific Requirements	12
	3.2.2 Overall Program	12
	3.3 MCM 3: Illicit Discharge Detection and Elimination	14
	3.3.1 Specific Requirements	
	3.3.2 Overall Program	15
	3.4 MCM 4: Construction Site Storm Water Runoff Control	
	3.4.1 Specific Requirements	
	3.4.2 Overall Program	
	3.5 MCM 5: Post-Construction Storm Water Management in New	
	Development and Redevelopment	20
	3.5.1 Specific Requirements	20
	3.5.2 Overall Program	
	3.6 MCM 6: Pollution Prevention/Good Housekeeping for Municipal Operations	
	3.6.1 Specific Requirements	
	3.6.2 Overall Program	
	3.6.2 Overall Program	23
4.0	MEASURABLE GOAL EVALUTION PROCESS	25
5.0	PARTICIPATING ENTITIES	25
6.0	ASSESSMENT OF NON-STORM WATER DISCHARGES	26
	DECORPORAÇÃO AND DEDODIMA	07
7.0	RECORD KEEPING AND REPORTING	
	7.1 Record Keeping	
	7.2 Reporting	27

APPENDICES

APPENDIX A – NOTICE OF INTENT

APPENDIX B - TRAINING AGENDA

TABLES

TABLE 3.1 - PUBLIC EDUCATION AND AWARENESS BMPs

TABLE 3.2 - PUBLIC INVOLVEMENT/PARTICIPATION BMPs

TABLE 3.3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION

TABLE 3.4 - CONSTRUCTION SITE STORM WATER RUNOFF CONTROL BMPs

TABLE 3.5 - POST-CONSTRUCTION SITE STORM MANAGEMENT BMPs

TABLE 3.6 – POLLUTION PREVENTION/GOOD HOUSEKEEPING MUNICIPAL OPERATIONS BMPSs

1.0 INTRODUCTION

1.1 EXECUTIVE SUMMARY

Lubbock County has developed a storm water management program (SWMP) as required for coverage under the Texas Pollutant Discharge Elimination System General Permit No. TXR040000. The SWMP includes a listing of Best Management Practices (BMP's) that will be implemented by the County in order to achieve the regulatory standard of reducing pollutants in the County's storm water to the "maximum extent practicable."

Existing Lubbock County storm water programs and activities designed to protect the County's water quality will be supplemented with new BMP activities. Measurable goals and an implementation schedule were developed for each of the BMP's in the SWMP. The BMP's, measurable goals, implementation schedule, and final SWMP were developed with input from the County's staff. BMP's, measurable goals, and the implementation schedule were selected based upon their ability to meet specific permit requirements and to reduce pollutants in the County's storm water to the maximum extent practicable. They were also selected based upon a general assessment of BMP effectiveness, applicability to Lubbock County, and costs associated with implementation of the BMP's. Effectiveness of the selected BMP's, and success in achieving the selected measurable goals will be reviewed annually.

1.2 LIST OF ACRONYMS

BMP	Best Management Practice
AND AT ALL	20001120010000110110110110110

CWA Clean Water Act

EPA U.S. Environmental Protection Agency

ETJ Extra Territorial Jurisdiction

MCM Minimum Control Measure

MEP Maximum Extent Practicable

MS4 Municipal Separate Storm Sewer System

NOC Notice of Change

NOI Notice of Intent

NOT Notice of Termination (to terminate coverage under a general permit)

NPDES National Pollutant Discharge Elimination System

O&M Operation and Maintenance

SPCC Spill Prevention, Control, and Countermeasures

SWMP Storm Water Management Program

SWPPP, SWP3 Storm Water Pollution Prevention Plan

TAC Texas Administrative Code

TCEQ Texas Commission on Environmental Quality

TPDES Texas Pollutant Discharge Elimination System

1.3 MUNICIPALITY BACKGROUND

Lubbock County was created in 1876 by state legislation which divided the South Plains into 48 counties. The center of the county is at 33°35' north latitude and 101°52' west longitude. The county seat is the City of Lubbock. The county covers a total area of approximately 901 square miles of flat tableland which slopes generally from the northwest to the southeast, with elevations ranging from 2,900 to 3,400 feet.

The county is classified as semiarid with an average rainfall of 18.41 inches. Approximately 920 playa lakes exist in the county and range in size from less than one (1) acre to 50 acres in size.

Lubbock County is located on the Brazos River Basin. The Blackwater Draw and the Yellow House Draw combine in Lubbock County to form the North Fork Double Mountain Fork of the Brazos River. Buffalo Springs Lake was developed by ponding the fork in southeast Lubbock County.

From the 2000 US Census, the EPA determined there are twelve (12) urbanized areas outside the city limits of Lubbock and Wolfforth in Lubbock County. The following map (Figure 1) is based on EPA's map of Lubbock, Texas Urbanized Areas (2002).

The 2000 US Census identified a total population of the twelve (12) urbanized areas outside the city limits of Lubbock and Wolfforth to be 4,134 individuals. The area primary land usages are as described below:

- Area #1 is low income housing and agricultural use,
- Area #2 is low income housing,
- Area #3 is industrial,
- Area #4 is undeveloped land,

- Area #5 is single family housing and agricultural,
- Area #6 is a trailer park and some businesses along the SH 114,
- Area #7 is single family housing,
- Area #8 is single family housing,
- Area #9 is low-income single family housing,
- Area #10 is a state correctional facility (Montford unit compound and farm),
- Area #11 is a trailer park, and
- Area #12 is single family housing, livestock facilities and some industrial and commercial businesses near the major thoroughfares.

Lubbock County has only transportation and drainage facilities in these urbanized areas. These facilities are used for municipal separate storm sewer system (MS4), and include the following:

- Streets,
- Ditches,
- Alleys,
- Channels,
- Culverts, and
- Other similar means of collecting or conveying runoff that do not connect with a wastewater collection system.