

Management Measures Proposed for the Geronimo and Alligator Creeks Watershed Protection Plan

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Vote for the Cover Picture



Geronimo and Alligator Creeks Watershed Protection Plan

**Developed by
The Geronimo and Alligator Creeks Watershed Partnership**

October 2011



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A photograph of a creek with a barbed wire fence in the foreground and lush green vegetation on the banks. The water is calm and reflects the surrounding greenery. The sky is not visible, and the overall scene is a natural, rural landscape.

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Management Measures Chapter

- Urban nonpoint sources
- Wastewater nonpoint sources
- Agricultural nonpoint sources

Urban Stormwater Runoff Common Goals

- Seek funding for a detailed engineering analysis to identify and prioritize new and retrofitted stormwater management practices that should be implemented
- Implement components of Phase II permits in advance of program requirements.
- Provide guidelines and training for effective nutrient management.

New Braunfels' Goals

- Implement Phase II Stormwater permit activities
 - Initiate a public education and outreach program
 - Create opportunities for public involvement in the stormwater program
 - Establish an illicit discharge detection and elimination program
 - Manage construction site stormwater runoff
 - Manage post-construction runoff
 - Establish pollution prevention and good housekeeping practices for municipal operations

More New Braunfels' Goals

- Utilize results of the stormwater engineering analysis to seek funding for implementation
- Implement a spay/neuter program for pets
- Install additional pet waste stations
- Provide nutrient management training to ISDs, city and county maintenance and parks departments and others

Seguin's Goals

- Enhance funding for the City of Seguin pet spay/neuter program and expand it to areas outside the city
- Identify areas to install pet waste stations within the watershed and seek funding to purchase and install
- Encourage establishment of pet waste ordinances
- Conduct an outreach and education program to dog owners in the city about the importance of proper pet waste management, in light of the new “dog park”

More of Seguin's Goals

- Development of stormwater management strategies that incorporate:
 - Public education and outreach
 - Public involvement and participation
 - Illicit discharge detection and elimination
 - Construction site stormwater runoff controls
 - Post-construction stormwater management

Questions, comments and
discussion of the proposed
Urban Management Measures

Wastewater Management Measures

- Incorporate NBU's and the City of Seguin's Sanitary Sewer Overflow Initiatives agreement with TCEQ into the WPP
 - Routine, frequent sewer line inspections
 - Replacement/repair of failing sewer lines
 - Upgrade the lift station to the Geronimo Creek WWTF
- Extend sanitary sewer service to Oak Village North

Wastewater Management Measures

- Seek funding for educational programs for homeowners with septic systems
- Seek funding sources to provide for repair/replacement/upgrade of failing septic systems
- Explore ways to expand sanitary sewer systems to areas served by septic systems
- Continue with current inspection and enforcement programs for septic systems
- Seek funding for annual household hazardous waste cleanups in the watershed

Questions, comments and
discussion of the proposed
Wastewater Management
Measures

Agricultural Management Measures

- Develop Water Quality Management Plans for livestock and cropland operations in the watershed
- WQMPs are voluntary, site-specific management plans for individual operations

County	Subwatershed	Animal Units	Number of Farms	Recommended # of WQMPs
Comal	1	54	2	1
Guadalupe	2	126	4	1
	3	128	4	1
	4	249	8	2
	5	149	5	1

Agricultural Management Measures

- Pursue funding to create a new position for the local SWCD to assist agricultural producers with design and implementation of WQMPs
- Provide educational programs for agricultural producers targeting nonpoint source pollution control to include Riparian Workshops

Feral Hog Control

- Organize and conduct annual feral hog education workshops for landowners and managers
- Employ a full-time position to focus specifically on feral hog management in the Geronimo and Alligator Creeks watershed. The position will work directly with landowners to remove animals from the watershed.

Questions, comments and
discussion of the proposed
Agricultural Management
Measures

Watershed Coordinator

- Pursue funding for a Watershed Coordinator position located in the watershed
- The position will provide leadership for project activities and actively seek additional funding to facilitate implementation of management measures identified in the plan.
- Additional duties: facilitate Partnership meetings, conduct educational programs, website maintenance, implementation tracking and reporting.

Measures of Success and Project Implementation

Chapters 7 and 8
of the draft WPP

Measures of Success

- Utilizes a 10-yr implementation period
- Targeted water quality monitoring program to track progress

Year	<i>E. coli</i> Concentration (cfu/100mL)
	Haberle Road Sampling Location
2012	162
2013	158
2014	154
2015	150
2016	146
2017	142
2018	138
2019	134
2020	130
2021	126

Measures of Success

- The WPP will utilize Adaptive Implementation
 - ongoing, cyclic implementation and evaluation process to focus efforts and optimize impacts
- Optional tools for the future
 - modified runs of SELECT and/or Bacterial Source Tracking

Questions, comments and
discussion of the proposed
Measures of Success

Project Implementation

- Technical assistance needs are outlined
- 10 year schedule for implementation of the management measures
- Cost estimates and potential sources of funding identified
- Estimates of load reductions by source

Questions, comments and
discussion of the proposed
Project Implementation Chapter

Next Meeting/Tour

- Tuesday, November 1st, 1:30 start time
- Take a tour of the watershed to highlight proposed implementation activities
 - Urban
 - Wastewater
 - Agricultural
- More information will be coming out soon

Urban



Wastewater



Agricultural



Timeline

- January 2011- begin formal public comment period for the draft WPP
 - Be present locally during the day to receive comments
 - Hold public meetings in each city
 - Possible dates
 - New Braunfels : January 17
 - Seguin: January 18

2011 Central Texas Environmental Summit *"Collaboration Along the Corridor"*

*Hosted by
the Texas Commission on Environmental Quality*

**Thursday, Nov. 3, 2011
9:00 a.m.–2:00 p.m.
Schertz Civic Center
1400 Schertz Parkway
Schertz, TX 78154**

You're invited! Come learn about and discuss solutions to environmental issues along the I-35 corridor.

At this event, you'll:

- **Participate in discussions with TCEQ commissioners and elected officials about local environmental issues**
- **Browse exhibits from the TCEQ, and local and state agencies**

Plan to attend this free, educational event that's open to all—the public, political leaders, neighborhood associations, nonprofits, businesses, and students.

**Check for details, or register, at
TexasEnviroHelp.org**



Use your mobile device to scan this code for more information.