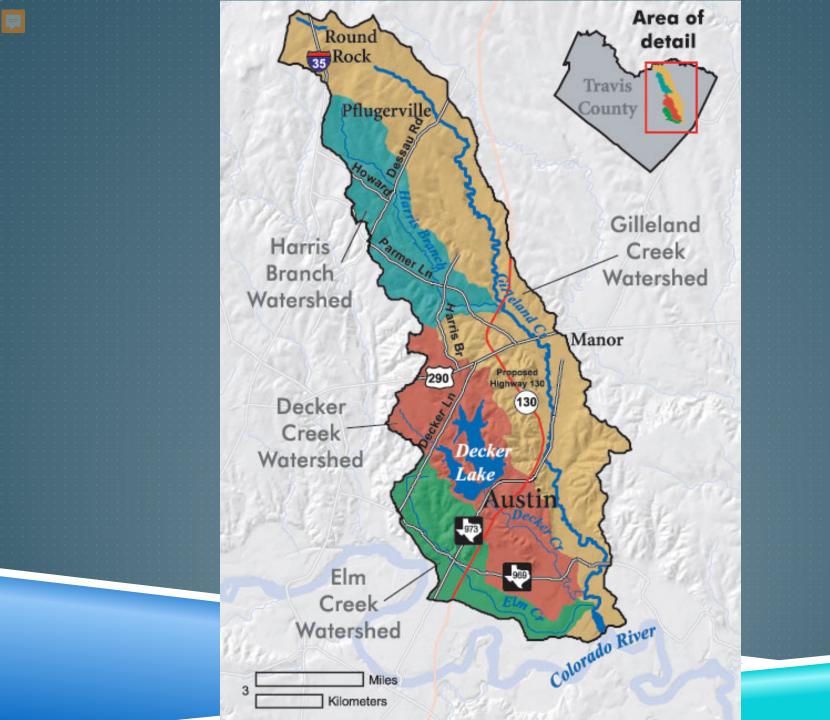


Lauren Young
TCEQ TMDL Program
Monday, April 7, 2014



THE TMDL PROCESS





WHY GILLELAND CREEK?

- 2004 303(d) list
 - Elevated E. coli densities
 - Contact recreation standard
- E. coli
 - Bacteria commonly found in human and animal waste
 - Often indicate the presence of disease-causing microorganisms
 - Can pose a threat to public health

GILLELAND CREEK PARTNERS

- City of Pflugerville
- City of Austin
- City of Round Rock
- Travis County
- Lower Colorado River Authority
- Austin Water Utility
- Windermere Utilities
- UT Center for Research in
- Water Resources

- Texas AgriLife Extension
 - Service
- Texas State Soil and Water
 - **Conservation Board**
- Natural Resources
- Conservation Service
- US Fish and Wildlife Service
- Texas Stream Team
- Volunteers in the watershed



ON-SITE SEWAGE FACILITIES

- Identify, prioritize, inspect and bring into compliance malfunctioning on-site sewage facilities
- Partners involved:
 - City of Austin
 - Travis County
 - TCEQ



OSSF IMPLEMENTATION MEASURES

- Inspect up to 25% of highest priority OSSFs
 - COA 40% inspected, 1 system repaired, 1 in progress
- Provide educational materials to OSSF owners
 - COA distributed EPA SepticSmart Program door hangers



CITY OF AUSTIN ADDITIONAL OSSF ACTIVITIES



Revised Ordinance

Adopted City Council 10/3/2013 and TCEQ 10/31/2013

Free homeowner training

- 2/22/2014
- Maintenance of aerobic treatment systems

NATURAL RESOURCE MANAGEMENT

- Programs to work with landowners to protect riparian areas
- Partners involved:
 - Governmental and Non-Governmental Programs
 - Local landowners



IMPLEMENTATION MEASURES

- LCRA Creekside Conservation Program
- USFWS-Partners for Fish and Wildlife
- TSSWCB/SWCD WQMPs developed
 - City of Pflugerville
- Texas AgriLife Extension Service



TEXAS AGRILIFE EXTENSION SERVICE FERAL HOG EDUCATIONAL EFFORTS

- Dan Gaskins, new Extension Agent (Gatesville)
- Workshops/trainings/outreach programs
- Social media
 - Wild Wonderings blog
 - iPhone app
 - New Youtube videos
 - Facebook
 - Twitter
 - Online feral hog reporting system



RETROFITTING STORM WATER DETENTION BASINS

Determine the effectiveness of retrofitting existing flood control facilities (storm water detention basins) to also perform as water quality facilities

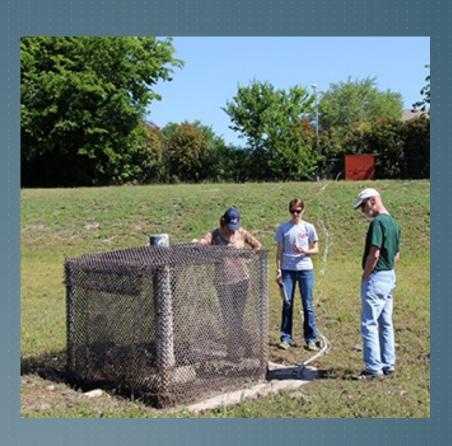
Partners:

- Center for Research in Water Resources at the University of Texas
- City of Pflugerville



STORM WATER DETENTION FACILITIES







IMPLEMENTATION MEASURES

- Sampled 2 storm events 2013
- Amended QAPP



EDUCATION AND OUTREACH

Coordinate with partners to develop a general campaign to raise public awareness of nonpoint-source contributions of bacteria pollution, specifically pet waste

Partners
LCRA
City of Austin
City of Pflugerville
City of Round Rock
Travis County





VOLUNTEER MONITORING



- LCRA CRWN
- 7 sites
- 50 monitoring events
- 65+ volunteer hours



PET WASTE IMPLEMENTATION MEASURES

- Education/outreach
- Install additional mutt mitt and waste containers





PFLUGERVILLE EDUCATION ACTIVITIES

- Stormwater
- Water quality
- Water conservation
- Pollution prevention



WATER QUALITY ORDINANCES

Develop and adopt equivalent water quality ordinances between government jurisdictions

Partners:

City of Austin

City of Pflugerville

Travis County

City of Round Rock

WASTEWATER COLLECTION SYSTEMS

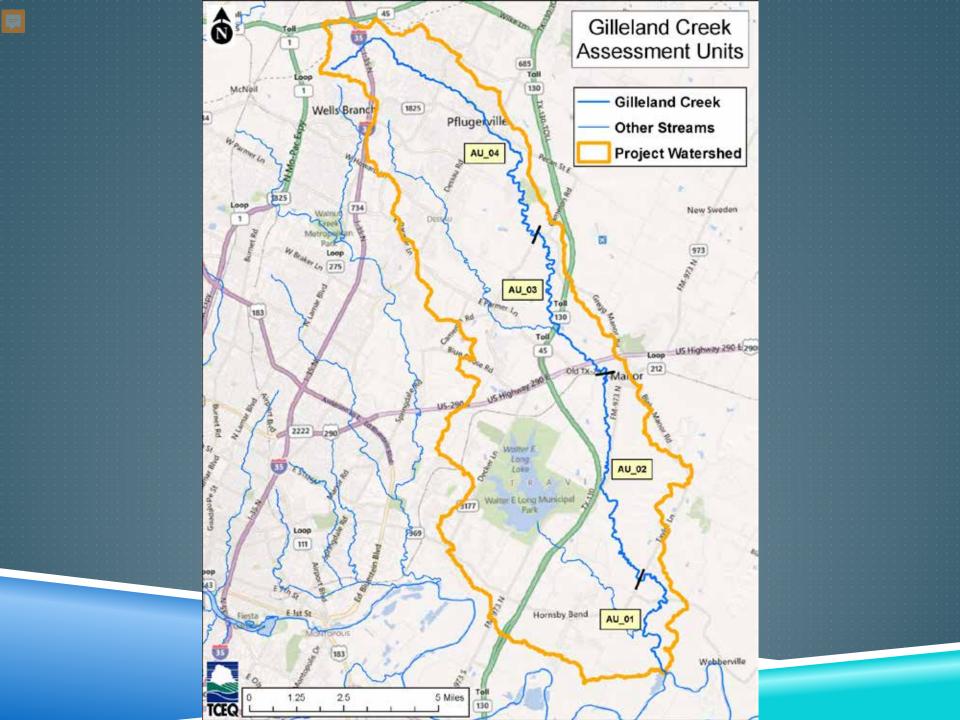
Annual visual inspection of collection systems within 100 feet from the centerline of the Gilleland Creek and its tributaries.

Partners
City of Austin
City of Pflugerville
Windermere Utility

早

WASTEWATER MONITORING

- Monitor and report *E. coli* concentrations from wastewater treatment facilities
- Partners
 - City of Austin
 - City of Pflugerville
 - Windermere Utility



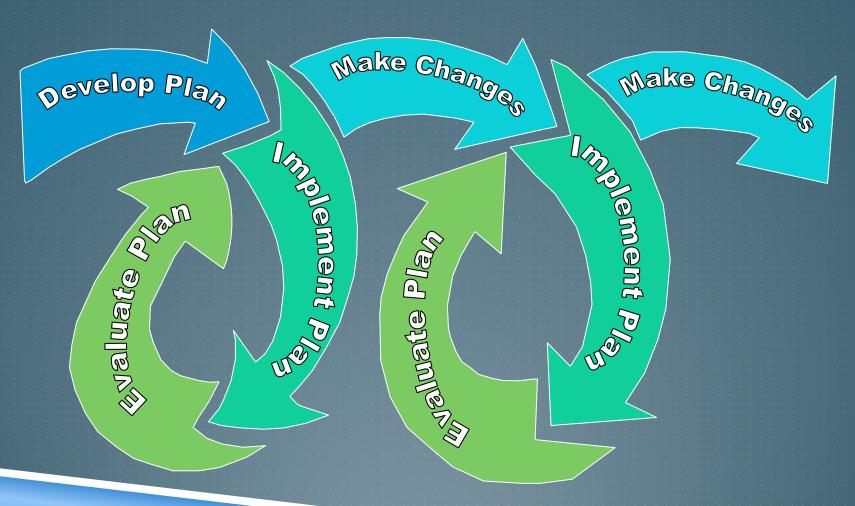


TEXAS INTEGRATED REPORTS

	2004	2006	2008	2010	2012
1428C_01	240	170.0	166.35	129.37	128.82
1428C_02	NA	NA	147.32	109.43	112.25
1428C_03	NA	NA	175.55	175.55	172.58
1428C_04	NA	NA	135.20	144.72	239.84

Standard: 126 cfu/100ml

WHAT'S NEXT?



TELLING OUR STORY

- Other events, activities, tasks
- Hyperlinks to project pages, maps, news stories
 - **PSAs**
- Press releases
 - Photos
- Graphs, charts



- Cleanups, Remediation
- Emergency Response
- Licensing
- Permits, Registrations
- Preventing Pollution
- Recycling
- Reporting
- Rules





Forms



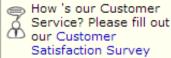
Public Notices



Q Records



- About Us
- Contact Us



Gilleland Creek: Implementing a TMDL to Protect Recreational Uses

The goal of this current project is to keep recreation safe in Gilleland Creek by reducing bacteria levels. The adopted TMDL and the approved I-Plan combined are the road map to improving water quality in the creek.



Back to TMDL Projects

Watershed County: Travis

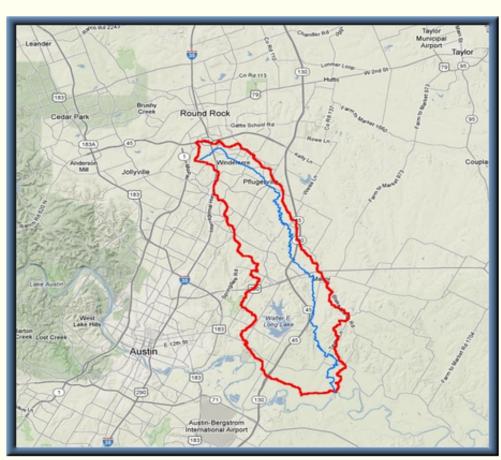
Parameter: Bacteria River Basin: Colorado Segment: 1428C

 Overview Water quality and the project for Gilleland Creek



Get Involved

- Partners
- Status and Activities
- · Videos, News, Maps, and Photo Galleries
- Reports and other Documents
- Adopted TMDL & Approved I-Plan
- Contact Us



Click map to see monitoring stations, permitted discharges, flood control project sites, and educational inititatives



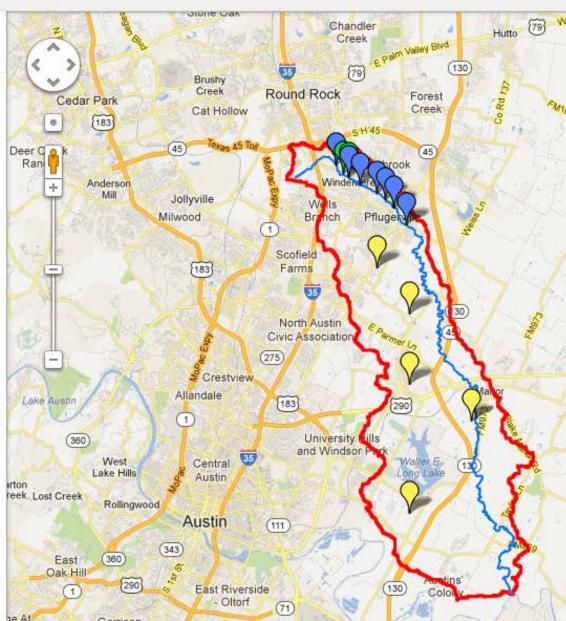
Get directions My places

Displaying content from www.tceq.texas.gov

The content displayed below and overlaid onto this map is provided by a third party, and Google is not responsible for it. Information you enter below may become available to the third party.

Contents

- Gilleland Creek
 - 🛨 🔲 Gilleland-AUs
 - dilleland Creek Watershed
 - Monitoring Stations
 - General Information
 - Retrofitting Flood Control



Cedar

Breaks Park

Stone Oak

Brushy

Creek

Wr ods Of Brushy Creek

Cat Hollow

Co Rd 175

Stone

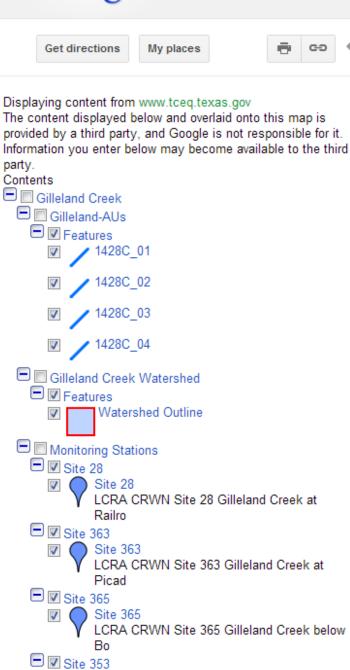
Canyon

Vista Oaks

Russell Park

h Rd 224





LCRA CRWN Site 363

Gilleland Creek at Picadilly Lane

LCRA's Colorado River Watch Network (CRWN) is the first and largest regional volunteer network of water quality monitors in Texas. Trained volunteers submit water quality data that is reviewed and analyzed by CRWN staff, creating an early warning system that alerts LCRA to potential water quality threats.



Project Web Page

Directions Search nearby Save to map more ▼

QUESTIONS

Lauren Young
TCEQ TMDL Program
512-239-3182
lauren.young@tceq.texas.gov

http://www.tceq.texas.gov/waterquality/tmdl/nav/69-gillelandcreekbacteria