

# Year 2: Status of Gilleland Creek I-Plan Activities

Stakeholders met in March 2013 to discuss and evaluate the progress of I-Plan implementation. The following tables summarize the status of activities for each measure described in the I-Plan.

## **Management Measure 1: On-Site Sewage Facilities**

Responsible Parties	Implementation Measure	Implementation Milestones	Status
<ul style="list-style-type: none"> <li>• Travis County</li> <li>• COA</li> <li>• TCEQ</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect up to 15% of the highest priority OSSFs.</li> </ul>	<ul style="list-style-type: none"> <li>• # systems inspected</li> <li>• # malfunctioning systems repaired</li> <li>• load reduction based on # of failing systems corrected</li> </ul>	<ul style="list-style-type: none"> <li>• 27 systems inspected</li> <li>• 1 malfunctioning system repaired, 6 abandoned systems removed from service</li> <li>• No new partners</li> </ul>
<ul style="list-style-type: none"> <li>• LCRA, in conjunction with Travis County and COA</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct one workshop for OSSF owners.</li> </ul>	<ul style="list-style-type: none"> <li>• # of participants</li> <li>• # people requesting assistance</li> </ul>	<ul style="list-style-type: none"> <li>• Responsible parties opted to not host an OSSF workshop due to limited attendance in Year 1</li> </ul>
<ul style="list-style-type: none"> <li>• Travis County</li> <li>• COA</li> <li>• TCEQ</li> <li>• LCRA</li> </ul>	<ul style="list-style-type: none"> <li>• Provide educational materials to OSSF owners. Three existing LCRA educational booklets are available for distribution by Travis County and COA. COA and Travis County will mail the booklet to OSSF owners with their permits or as a separate, direct mail out or as needed</li> </ul>	<ul style="list-style-type: none"> <li>• # of materials distributed</li> </ul>	<ul style="list-style-type: none"> <li>• 59 letters mailed to property owners</li> <li>• LCRA materials available on request</li> </ul>
<ul style="list-style-type: none"> <li>• Travis County</li> <li>• COA</li> <li>• TCEQ</li> </ul>	<ul style="list-style-type: none"> <li>• Provide status reports to stakeholder group at a yearly meeting hosted by TCEQ. Status report to include number of OSSFs inspected and the number of malfunctioning OSSFs repaired or replaced.</li> </ul>	<ul style="list-style-type: none"> <li>• # of sustained partners and stakeholders participating</li> <li>• # new stakeholders and partners participating</li> <li>• # partners presenting information</li> </ul>	<ul style="list-style-type: none"> <li>• 20 people attended</li> <li>• All original stakeholders and partners participated</li> <li>• No new partners</li> </ul>

## Abbreviations

BMPs best management practices

COA City of Austin

CRWR Center for Research in Water Resources

CRWN Colorado River Watch Network

LCRA Lower Colorado River Authority

NRCS Natural Resources Conservation Service

OSSF on-site sewage facilities

SWCD Soil and Water Conservation District

TPWD Texas Parks and Wildlife Department

TSSWCB Texas State Soil and Water Conservation Board

TWS Texas Wildlife Services

USFWS United States Fish and Wildlife Service

WWTF Wastewater Treatment Facility

**Management Measure 2: Riparian Zones**

Responsible Parties	Implementation Measure	Implementation Milestones	Status
<ul style="list-style-type: none"> <li>LCRA Creekside Conservation Program</li> <li>Landowners</li> </ul>	<ul style="list-style-type: none"> <li>Interested landowner contacts local NRCS office</li> <li>Conservation plan is developed and implemented on participating landowners' property</li> <li>LCRA, NRCS, and SWCD evaluate the project potential and selects projects for matching funds</li> <li>Conduct Landowner Field Day if needed</li> </ul>	<ul style="list-style-type: none"> <li># of landowners contacting LCRA/NRCS</li> <li># of landowner conservation plans developed</li> <li>Amount of cost-share spent to implement specific BMPs</li> <li># of acres covered by conservation plans</li> <li>Bacteria loading reduction based on completion of BMP implementation planned in Year 1</li> <li># of people participating in Field Day</li> <li># of landowners interested in participating in technical and financial assistance programs based on field day</li> </ul>	<ul style="list-style-type: none"> <li>LCRA received a federal 319(h) grant to augment the Creekside Program. However, no participation thus far in the Gilleland Creek Watershed.</li> <li>LCRA currently working with Travis County AgriLife to plan a Travis County Landowner Workshop on Land stewardship, riparian management, water quality, etc. No definite plans yet.</li> </ul>
<p>USFWS–Partners for Fish and Wildlife</p>	<ul style="list-style-type: none"> <li>USFWS works with landowners to implement projects</li> </ul>	<ul style="list-style-type: none"> <li>Progress toward completing projects demonstrated</li> </ul>	<ul style="list-style-type: none"> <li>No landowners in the watershed contacted USFWS for conservation planning assistance. For more information <a href="http://www.fws.gov/southwest/es/arlingtontexas/pfw.htm">http://www.fws.gov/southwest/es/arlingtontexas/pfw.htm</a></li> </ul>
<ul style="list-style-type: none"> <li>TSSWCB</li> <li>SWCD</li> <li>NRCS</li> <li>Landowners</li> </ul>	<ul style="list-style-type: none"> <li>Interested landowner contacts local SWCD office.</li> <li>WQMP is developed and implemented on participating landowners' property.</li> <li>SWCD, TSSWCB, and NRCS evaluate the specific BMPs to be implemented and recommends to landowners. appropriate state or federal cost-share assistance programs.</li> <li>Status reviews are conducted to ensure that the landowners implement BMPs as specified and agreed to in the WQMP implementation schedule.</li> </ul>	<ul style="list-style-type: none"> <li># of landowners contacting SWCD</li> <li># of WQMPs developed and certified</li> <li>Amount of cost-share spent to implement specific BMPs</li> <li># of acres covered by WQMPs</li> <li>Bacteria loading reduction based on completion of BMP implementation planned in Year</li> <li>Status reviews conducted and follow-up assistance needs documented</li> </ul>	<ul style="list-style-type: none"> <li>No landowners in the watershed contacted TSSWCB or SWCD for technical assistance to develop WQMPs.</li> <li>No financial incentives were paid to landowners.</li> </ul>
<p>TPWD</p>	<ul style="list-style-type: none"> <li>A wildlife management plan (WMP) is written by the landowner or with the assistance of biologist</li> </ul>	<ul style="list-style-type: none"> <li># of landowner WMPs completed</li> </ul>	<ul style="list-style-type: none"> <li>Staff position was lost due to layoffs.</li> </ul>
<ul style="list-style-type: none"> <li>TWS Feral Hog Abatement Program</li> <li>Landowners</li> </ul>	<ul style="list-style-type: none"> <li>Landowner contacts TWS</li> <li>TWS develops plan with landowner</li> <li>TWS conducts direct feral hog control</li> </ul>	<ul style="list-style-type: none"> <li># of landowners contacting TWS</li> <li># of plans developed with landowners</li> <li># of feral hogs removed from the watershed</li> <li>Bacteria loading reduction based on feral hogs removed in Year 1</li> </ul>	<ul style="list-style-type: none"> <li>Funding to continue support for an employee solely dedicated to feral hog abatement was cut in April 2011.</li> </ul>
<p>City of Pflugerville</p>	<ul style="list-style-type: none"> <li>Increase street sweeping as funding becomes available.</li> <li>Land acquired in riparian zone as funding allows.</li> </ul>	<ul style="list-style-type: none"> <li>Additional street sweeping near creeks and riparian zones within the City of Pflugerville</li> <li>Acres of land acquired</li> </ul>	<ul style="list-style-type: none"> <li>No street sweeping due to lack of funding and resources.</li> <li>City received park land donation of 9.809 acres.</li> </ul>

Responsible Parties	Implementation Measure	Implementation Milestones	Status
<p>Texas AgriLife Extension Service</p>	<ul style="list-style-type: none"> <li>• Delivery of LSHS-Grazing Cattle curriculum</li> <li>• Delivery of LSHS-Horses curriculum</li> <li>• Delivery of LSHS-Feral Hog curriculum</li> </ul>	<ul style="list-style-type: none"> <li>• # of landowners participating in LSHS workshops</li> <li>• Documented change in BMP adoption rates based on pre- and post-surveys conducted at LSHS workshops</li> </ul>	<ul style="list-style-type: none"> <li>• A full time Extension Assistant was hired to spearhead feral hog removal in Travis, Hays, and Caldwell counties.</li> <li>• Feral hog education included: 69 site visits, 39 community presentations, development of web-based reporting tools to gather information on feral hog sightings, hogs removed, and methods of capture, 15 hardcopy news releases, 15 internet news releases, 16 hardcopy peer-edited articles (7 translated to Spanish), 35,268 downloads of internet copies of peer-edited articles, 31 Wild Wonderings Blog articles, Wild Wonderings Facebook page, 10 Youtube videos (156,000 views), 2 voice-over presentations, and 2 radio interviews.</li> </ul>
<ul style="list-style-type: none"> <li>• TSSWCB</li> <li>• SWCD</li> <li>• NRCS</li> <li>• LCRA Creekside Conservation Program</li> <li>• USFWS</li> <li>• TPWD</li> <li>• TWS</li> <li>• City of Pflugerville</li> <li>• AgriLife</li> <li>• TCEQ</li> <li>• Landowners</li> </ul>	<ul style="list-style-type: none"> <li>• Provide status reports to stakeholders at a yearly meeting hosted by TCEQ.</li> </ul>	<ul style="list-style-type: none"> <li>• # of sustained partners and stakeholders participating</li> <li>• # new stakeholders and partners participating</li> <li>• # partners presenting information</li> </ul>	<ul style="list-style-type: none"> <li>• 20 people attended</li> <li>• All original stakeholders and partners participated</li> <li>• No new partners</li> </ul>

**Management Measure 3: Retrofit Stormwater Detention Basins**

Responsible Parties	Implementation Measure	Implementation Milestones	Status
CRWR	<ul style="list-style-type: none"> <li>Apply for funding.</li> </ul>	<ul style="list-style-type: none"> <li>Successful funding of the grant project</li> </ul>	<ul style="list-style-type: none"> <li>Contract signed 10/20/11</li> </ul>
CRWR	<ul style="list-style-type: none"> <li>Develop QAPP</li> </ul>	<ul style="list-style-type: none"> <li>QAPP approved by TCEQ and EPA</li> </ul>	<ul style="list-style-type: none"> <li>QAPP approved 10/15/2012</li> </ul>
CRWR	<ul style="list-style-type: none"> <li>Secure two detention ponds cleaned and appropriate permits.</li> </ul>	<ul style="list-style-type: none"> <li>Permits received</li> </ul>	<ul style="list-style-type: none"> <li>No permits were required for modification</li> </ul>
City of Pflugerville	<ul style="list-style-type: none"> <li>Detention ponds cleaned and prepared for project.</li> </ul>	<ul style="list-style-type: none"> <li>Matching funds value of pond clean-out</li> </ul>	<ul style="list-style-type: none"> <li>Ponds were cleaned and repaired. Letter from Pflugerville documenting matching funds dated 5/22/12</li> </ul>
CRWR	<ul style="list-style-type: none"> <li>Design, retrofit and convert one of the basins from detention facility to water quality facility</li> </ul>	<ul style="list-style-type: none"> <li>Test basin is successfully retrofitted with automated controls</li> </ul>	<ul style="list-style-type: none"> <li>Automated control has been installed, but programming of the control is ongoing with expected completion by 1/31/13</li> </ul>
CRWR	<ul style="list-style-type: none"> <li>Monitors ponds during storm events</li> </ul>	<ul style="list-style-type: none"> <li># of storm events monitored at each pond</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring expected to begin February 2013</li> </ul>
<ul style="list-style-type: none"> <li>City of Austin</li> <li>City of Pflugerville</li> <li>City of Round Rock</li> <li>Travis County</li> </ul>	<ul style="list-style-type: none"> <li>Educational workshop/field tour (detention pond retrofit) and materials for developers</li> </ul>	<ul style="list-style-type: none"> <li># of attendees at workshop, # of materials developed and distributed</li> </ul>	<ul style="list-style-type: none"> <li>Expected to begin in Year 3</li> </ul>

**Management Measure 4: Public Awareness Campaign Targeted to Unregulated Sources, Especially Pet Waste**

Responsible Parties	Implementation Measure	Implementation Milestones	Status
<ul style="list-style-type: none"> <li>City of Pflugerville</li> <li>Travis County</li> </ul>	<ul style="list-style-type: none"> <li>Install additional mutt mitt and waste containers as needed</li> <li>Waste receptacles and signage at pilot parks</li> </ul>	<ul style="list-style-type: none"> <li># of mutt mitt, waste receptacles, and signs installed</li> <li>matching funds provided by partners</li> </ul>	<ul style="list-style-type: none"> <li>Travis Co. Northeast Metro Park has 2 receptacle stations and signage. Approximately 800 mitts were dispensed.</li> <li>Travis County has not sought funding from external sources for this implementation.</li> <li>City of Pflugerville added an additional 50 pet waste stations.</li> <li>1,720,000 mitts given away by City of Austin.</li> <li>City of Round Rock installed 6 new pet waste stations, total of 61 stations throughout the City.</li> </ul>
LCRA CRWN	<ul style="list-style-type: none"> <li>Volunteer monitoring</li> </ul>	<ul style="list-style-type: none"> <li>Volunteer monitoring</li> </ul>	<ul style="list-style-type: none"> <li>54 <i>E.coli</i> sampling events.</li> <li>79 hours, 41 minutes; valued at \$1,600.00.</li> </ul>
<ul style="list-style-type: none"> <li>LCRA</li> <li>City of Austin</li> <li>City of Pflugerville</li> <li>City of Round Rock</li> <li>Travis County</li> </ul>	<ul style="list-style-type: none"> <li>Educational campaign utilizing partner resources</li> </ul>	<ul style="list-style-type: none"> <li># signs, brochures, and educational events</li> </ul>	<ul style="list-style-type: none"> <li>City of Round Rock distributed 900 brochures, ran 2 utility bill inserts that reached 30,000 customers and saw a 57% increase in web page traffic. The City also conducted an attitude survey with 246 responses.</li> <li>City of Pflugerville distributed 400 door hangers, informal videos on website and local access channel, Stormwater Awareness Month activities, 2,900 water quality/conservation materials, pool drainage guidance, 300 Clean Water –Everybody’s Business distributed at library, water conservation brochure available in lobby of Planning/Engineering Permit Building, Facebook page, pollution prevention handout distributed along with announcement of City’s Annual Clean Up, Earth/Arbor Day, education kiosk, and Drop by Drop Rebate Program.</li> </ul>
<ul style="list-style-type: none"> <li>LCRA CRWN</li> <li>City of Austin</li> <li>City of Pflugerville</li> <li>City of Round Rock</li> <li>TCEQ</li> <li>Travis County</li> </ul>	<ul style="list-style-type: none"> <li>Provide status reports to stakeholders at a yearly meeting hosted by TCEQ.</li> </ul>	<ul style="list-style-type: none"> <li># of sustained partners and stakeholders participating</li> <li># new stakeholders and partners participating</li> <li># partners presenting information</li> </ul>	<ul style="list-style-type: none"> <li>20 people attended</li> <li>All original stakeholders and partners participated</li> <li>No new partners</li> </ul>

**Management Measure 5: Develop and Adopt Ordinances**

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
<ul style="list-style-type: none"> <li>• COA</li> <li>• City of Round Rock</li> <li>• City of Pflugerville</li> <li>• Travis County</li> </ul>	<ul style="list-style-type: none"> <li>• Present ordinance and to inform and seek approval from appointed officials</li> <li>• Conduct workshops for development community and appointed officials</li> </ul>	<ul style="list-style-type: none"> <li>• # of jurisdictions presenting ordinances to appointed officials</li> <li>• # of attendees at workshop</li> </ul>	<ul style="list-style-type: none"> <li>• City of Austin: Watershed Protection Ordinance in process. Additional stakeholder meetings December 14, 2012 – March 2013.</li> <li>• In 2012, Travis County adopted revisions to development standards for water quality protection. Staff of the County presented the proposed rules to the County Commissioners Court on 3 occasions, including a public hearing on 2/7 and recommended adoption on 7/31 and 8/14. The rules were adopted and became effective on August 14, 2013. The rules require waterway setbacks of up to 300 feet in the Gilleland Creek Watershed. The setbacks extend towards headwater areas of up to drainages of 64 acres or greater.</li> <li>• No workshops have been conducted.</li> <li>• Travis County and City of Pflugerville executed an inter-local agreement on stormwater management on 9/11/12. The ILA clarified responsibilities for implementing development controls, inspection duties, site plan review, and illicit discharge prevention and elimination (IDDE) within Pflugerville’s ETJ.</li> </ul>
<ul style="list-style-type: none"> <li>• City of Austin</li> <li>• City of Pflugerville</li> <li>• City of Round Rock</li> <li>• TCEQ</li> <li>• Travis County</li> </ul>	<ul style="list-style-type: none"> <li>• Provide status reports to stakeholder entity at a yearly meeting hosted by TCEQ</li> </ul>	<ul style="list-style-type: none"> <li>• # of sustained partners and stakeholders participating</li> <li>• # new stakeholders and partners participating</li> <li>• # partners presenting information</li> </ul>	<ul style="list-style-type: none"> <li>• 20 people attended</li> <li>• All original stakeholders and partners participated</li> <li>• No new partners</li> </ul>

**Management Measure 6: Annual Visual Inspection of Wastewater Collection Systems**

Responsible Parties	Implementation Measure	Implementation Milestones	Status
<ul style="list-style-type: none"> <li>• COA</li> <li>• City of Pflugerville</li> <li>• Dessau Fountain Estates</li> <li>• Windermere Utilities</li> </ul>	<ul style="list-style-type: none"> <li>• WWTFs will inspect the collection systems within 100 ft of the creek and tributaries, complete inspection report form, and repair systems where failures identified.</li> </ul>	<ul style="list-style-type: none"> <li>• # collection systems miles inspected</li> <li>• # of failures identified and repaired</li> <li>• Loading reductions based on repairs</li> <li>• Reports submitted to TCEQ TMDL staff</li> </ul>	<ul style="list-style-type: none"> <li>• Dessau: no longer has a WWTF, tied directly to COA.</li> <li>• Windermere: 1.4 miles inspected, 0 failures identified, 1 report submitted</li> <li>• COA: 6.64 miles inspected, 0 failures identified, 1 report submitted</li> <li>• COP: 3.6 miles inspected, 0 failures identified</li> </ul>
<ul style="list-style-type: none"> <li>• COA</li> <li>• City of Pflugerville</li> <li>• Dessau Fountain Estates</li> <li>• Windermere Utilities</li> </ul>	<ul style="list-style-type: none"> <li>• GPS coordinates of collection system components are added to available GIS layers</li> </ul>	<ul style="list-style-type: none"> <li>• # components with GPS coordinates</li> </ul>	<ul style="list-style-type: none"> <li>• Windermere: manholes and collection systems identified via map</li> <li>• COP: 81 manholes</li> </ul>
<p>Interested WWTFs—possibly to include COA, City of Pflugerville, Dessau Fountain Estates, Windermere Utilities</p>	<ul style="list-style-type: none"> <li>• Collection systems join TCEQ’s SSO Initiative</li> </ul>	<ul style="list-style-type: none"> <li>• # of WWTF entering into agreements with TCEQ through the SSO Initiative</li> <li>• decrease in the number of SSOs</li> </ul>	<ul style="list-style-type: none"> <li>• 0</li> <li>• City of Austin SSOI almost finalized</li> </ul>

**Control Action 1: Monitor and Report *E. coli* Concentrations in Effluent from WWTFs**

Responsible Parties	Implementation Measure	Implementation Milestones	Status
<ul style="list-style-type: none"> <li>• COA</li> <li>• City of Pflugerville</li> <li>• Windermere Utilities</li> <li>• TCEQ</li> </ul>	<ul style="list-style-type: none"> <li>• WWTFs to monitor effluent <i>E.coli</i> concentrations as required by their discharge permits and report monitoring results in DMRs to TCEQ</li> </ul>	<ul style="list-style-type: none"> <li>• # of WWTF <i>E.coli</i> monitoring within permit limits</li> <li>• # of monthly DMRs submitted to TCEQ</li> <li>• # operational changes made based on values that exceed monitoring limit</li> <li>• Load values reduced based on operational changes</li> </ul>	<ul style="list-style-type: none"> <li>• Windermere: monitoring conducted 5 days/week, 0 permit exceedances in past 5 years, DMRs submitted monthly to TCEQ, monitoring limit not exceeded</li> <li>• City of Austin: 429 monitoring events, DMRs submitted monthly to TCEQ, 1 exceedance (UV lamp accidentally switched off momentarily, operational protocol modified)</li> <li>• City of Pflugerville: 52 monitoring events, DMRs submitted monthly to TCEQ, monitoring limit not exceeded</li> </ul>
<ul style="list-style-type: none"> <li>• COA</li> <li>• City of Pflugerville</li> <li>• Windermere Utilities</li> <li>• TCEQ</li> </ul>	<ul style="list-style-type: none"> <li>• Provide status reports to stakeholder entity at a yearly meeting hosted by TCEQ</li> </ul>	<ul style="list-style-type: none"> <li>• # of sustained partners and stakeholders participating</li> <li>• # new stakeholders and partners participating</li> <li>• # partners presenting information</li> </ul>	<ul style="list-style-type: none"> <li>• 20 people attended</li> <li>• All original stakeholders and partners participated</li> <li>• No new partners</li> </ul>