Year 2: Status of I-Plan Activities for Guadalupe River Above Canyon Lake

Stakeholders met in March 2014 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.

Abbreviations

BMPs best management practices OSSF on-site sewage facilities

CWA Clean Water Act TCEQ Texas Commission on Environmental Quality

NA not applicable TxDOT Texas Department of Transportation

NPS nonpoint source TMDL total maximum daily load UGRA Upper Guadalupe River Authority

Management Measures 1, 2, and 3: Reduce bird feeding at Louise Hays Park and Kerrville-Schreiner Park

Install bird exclusion/deterrent devices on the Highway 16 and Loop 534 bridges over the water

Manage the waterfowl population at Louise Hays Park and Kerrville-Schreiner Park

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
UGRA, City of Kerrville	Implement the public education campaign.	 Number of signs installed Number of pamphlets distributed	 Annual Easter press release issued in March 2013 urged citizens not to feed waterfowl. "Do Not Feed the Ducks" sign and information displayed at UGRA booth at six events.
UGRA, TxDOT	Install bird exclusion/deterrent devices.	 Number of bird deterrent devices installed Funding match provided to complete installation of bird deterrent devices Reduction in the number of birds roosting as a result of bird deterrent devices Reduction in bird bacteria loading values 	 Exclusion netting installed over three spans of SH16 bridge. Matching funds provided by UGRA, TxDOT, and City of Kerrville. No birds roosted in the three spans where the exclusion netting was installed. Bacteria level reductions will be evaluated in the project summary report in August 2014.
TxDOT	Design traffic safety plan when installation of devices occurs.	Complete safety plan Safely installation of devices	TxDOT provided superb traffic control during installation of bird exclusion devices.
Kerr County, City of Kerrville	Remove waterfowl from Louise Hays Park and Kerrville-Schreiner Park.	Number of waterfowl successfully relocated to Kerr County Animal Control	Due to the closure of Louise Hays Park in August 2013, this measure has not yet been addressed but will be in Year 3. Park is due to open in 2015.

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
continued	Measures 1, 2, and 3		
UGRA	Conduct animal surveys at local parks and where implementation measures have been installed.	 Number of animal surveys and the reduction in the number of birds Reduction in the bacteria contributions per bird 	 24 animal surveys were completed. No waterfowl removals have been conducted since 2009 and flock sizes have increased slightly.
UGRA	Continue Water Quality Monitoring.	Number of water quality samples taken Percentage of water quality samples below contact recreation standard	 101 samples collected. 84 samples (83%) were below contact recreation standard.

Management Measure 4: Reduce human contributions through ongoing lateral sewage line replacement, sewer inspection, and rehabilitation, and ongoing septic system plan review and registration

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
City of Kerrville	Improve wastewater collection systems.	 Amount spent to improve collection system Lateral feet of collection line system repaired or replaced Number of lift stations rehabilitated/improved Number of sanitary manholes replaced Number of broken customer cleanouts repaired Footage of gravity main inspected, smoked tested, and cleaned 	 \$7,120,038.22 spent on improvements. 303 lateral feet of collection line repaired/replaced. Lift stations: 1 replacement, 1 replacement in progress, 9 improved/repaired. 1 manhole replaced. O manholes rehabilitated. O city cleanouts replaced. 25 broken customer cleanouts repaired. 27,776 lateral feet inspected through CCTV camera 175,798 lateral feet cleaned/vacuumed 200 lateral feet root sawed
Kerr County	Continue OSSF plan review and registration.	 Number of septic systems plans reviewed and registered Number of septic systems inspected, repaired or replaced 	Rescheduled to Year 3.
UGRA, Kerr County	Distribute additional public information through public service announcements, brochures, or workshops as needed; possible distribution of the Homeowner's Septic Guide by realtors	Number of materials distributed Public reached through public service announcements or workshops Number of realtors distributing information	Rescheduled to Year 3.

Management Measure 5: Implement an education program for pet owners and install pet waste stations at public parks

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
UGRA, City of Kerrville, Kerr County	Install additional pet waste containers, signs, and collection bins if funding is available.	Number of pet waste containers installedNumber of signs installedNumber of collection bins installed	Rescheduled to Year 3.
UGRA, Kerr County	Evaluate results of areas with and without collection systems.	Percentage of change in people's behavior before and after installation of pet waste containers, signs, and collection bins	 Pet waste stations continue to be used frequently and less pet waste is observed on the ground in the parks where the containers are located. UGRA monitors the waste collected at the 7 Flat Rock Park stations on a weekly basis. In Year 2, 1,032 pounds of pet waste was removed. In Year 2, Kerr County contributed 104 hours of staff time maintaining the stations.

Management Measure 6: Reduce contributions from general urban runoff through street sweeping, river clean ups, and storm water education programs

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
City of Kerrville	Conduct street sweeping.	 Miles of streets swept Frequency of street sweeping	322 hours of street sweeping.
UGRA	Conduct up to 2 river cleanups.	Pounds of trash and debris removed	 UGRA's Annual River Clean Up collected 6,830 pounds of trash with the help of 337 volunteers UGRA's routine crossing cleanup program removed 18,065 pounds of trash. Two community groups organized quarterly or monthly clean ups.
UGRA	Implement education program including educational kiosk, workshops, or educational materials.	 Number of people viewing educational materials Number of people attending workshops Number of educational materials distributed 	The kiosk was used at Riverside Nature Center and the Butt-Holdsworth Library. In total 1,371 modules were accessed in English and 216 in Spanish.

Control Action 1: Monitor and report E. coli concentrations from WWTFs

Responsible Parties	Implementation Measure	Implementation Milestones	Current Status
WWTFs	Monitor and report bacteria data as required by individual wastewater permits to TCEQ	Number of monitoring events submitted Percentage of monitoring events below the water quality standard Repairs or items corrected reported to TCEQ	NA, Kerrville WWTF has zero contribution due to its downstream location and Hill Country Camp permit is not currently operational