

TMDL Implementation Status for Upper San Antonio River Watersheds

Date of Status Report: May 2024, Year 6 & 7

I-Plan Approval Date: April 6, 2016

TCEQ Project Manager: Lauren Dawson

Responsible Party Abbreviations

AgriLife Extension - Texas A&M AgriLife Extension

BRWM - Bexar Regional Watershed Management Partnership

CoSA-CCDO - CoSA Center City Development & Operations Department

CoSA - City of San Antonio

CoSA-ACS - CoSA Animal Care Services

CoSA-PRD - CoSA Parks and Recreation Department

CoSA-PWD - CoSA Public Works Department

CoSA-RIO - CoSA River Improvement Overlay

CoSA-SWMD - CoSA Solid Waste Management Department

CRP - Clean Rivers Program

KSAB - Keep San Antonio Beautiful

PPR/PDPR - Preliminary Plan Review/Preliminary Development Plan Review

NOAA - National Oceanic and Atmospheric Association

NRCS - Natural Resources Conservation Service

RWWA - River Walk Watershed Alliance

SARA - San Antonio River Authority

SAWS - San Antonio Water System

Alamo SWCD - Alamo Soil & Water Conservation District

TCEQ - Texas Commission on Environmental Quality

TxDOT - Texas Department of Transportation

TSSWCB - Texas State Soil & Water Conservation Board

USFWS - United States Fish and Wildlife Service

WCTS - Wastewater Collection and Transmission System

Management Measures

Management Measure 1: Implement Wastewater Collection and Treatment System Operation and Maintenance Programs to Reduce Sanitary Sewer Overflows

Responsible Party	Implementation Goal	Status
SAWS	Continue to develop sanitary sewer overflow reduction principals that focus proactively on best management practices to improve program management; capacity assessment; remedial measures; capacity, management, operation, and maintenance; and information services.	<p>A management system was implemented to monitor and improve tracking of the sanitary sewer collection system. Every SAWS related sanitary sewer overflow is assessed. Causation factor is determined. Line is cleaned and a video of the system is performed within 24 hours (where practicable) and a ranking is assigned. These range from more frequent cleaning schedules to replacement of the line. Coordination with the capital improvement staff in Engineering is made to include those determined an emergency. Others are ranked and may be added to existing projects and scheduled based upon need.</p> <p>Weekly meetings are scheduled for an individual assessment of each sanitary sewer overflow. The incident is assigned, and a Work Order created.</p>

Management Measure 2: San Antonio Zoo UV Treatment System Implementation

Responsible Party	Implementation Goal	Status
CoSA-PWD, SAWS	Continue the ongoing operation and maintenance of the UV system. Additionally, continue to monitor the UV treatment efficiency and effectiveness as a part of the municipal separate storm sewer system permit.	<p>The facility is in service. Monthly samples are taken to ensure the disinfection of bacteria in the zoo discharge. Any elevation in the <i>E. coli</i> count is reported to the CoSA. Maintenance by CoSA is ongoing and is increased as necessary to maintain the 99% effectiveness.</p> <p>Ongoing operations and maintenance continue to ensure the efficiency and effectiveness of the Zoo stormwater effluent UV treatment system. Effluent sampling and analysis are conducted as required to evaluate any discharge of pollutants to the municipal separate storm sewer system. The discharge of bacteria and other potential pollutants from the system remain within acceptable levels.</p>

Management Measure 3: Advancement of Low Impact Development

Responsible Party	Implementation Goal	Status
SARA	Provide low impact development education and training.	<p>Fiscal Year 2022:</p> <p>SARA provided low impact development education and training to over 229 individuals directly through community presentations, low impact development credential course offerings, training by request, education booths, field trips, consultations, and workshops.</p> <p>SARA provided web-based low impact development education public services online, including the San Antonio River Basin Technical Design Guidance Manual and water quality modeling tools. SARA also provided web-based learning modules including: Interactive Green Infrastructure Map, Guenther/Euclid Stormwater Retrofit Project, How to Build Residential Rain Gardens, and How Can I Help?</p> <p>Fiscal Year 2023:</p> <p>SARA provided low impact development education and training to over 556 individuals directly through community presentations, low impact development credential course offerings, training by request, education booths, field trips, and consultations.</p> <p>SARA provided web-based low impact development education public services online including the San Antonio River Basin Technical Design Guidance Manual and water quality modeling tools. SARA also provided web-based learning modules including: Interactive Green Infrastructure Map, Guenther/Euclid Stormwater Retrofit Project, How to Build Residential Rain Gardens, and How Can I Help?</p>

Responsible Party	Implementation Goal	Status
SARA	<p>Unified Development Code</p> <p>Attend CoSA’s Master Development Plan meetings, Preliminary Plan Review meetings, and meetings of the Historic Design Review Commission, and under an Interlocal agreement with the city, identify upcoming developments within the River Improvements Overlay District and offer low impact development assessments and stormwater best management practice options. Also provide low impact development assessment assistance in coordination with CoSA on development plans that are self-identified as having low impact development components.</p>	<p>Fiscal Year 2022:</p> <p>SARA attended, at developer request, CoSA PPR/PDPR and developer requested design review meetings throughout the year. SARA met monthly with the CoSA Office of Historic Review and Public Works to coordinate development in the CoSA RIO Districts 1,2, 4-7 and perform low impact development/Stormwater, trail landscaping and connection design review. Also provide low impact development assessment for voluntary low impact development.</p> <p>Fiscal Year 2023:</p> <p>SARA attended, at developer request, CoSA PPR/PDPR and developer requested design review meetings throughout the year. SARA met monthly with the CoSA Office of Historic Review and Public Works to coordinate development in the CoSA RIO Districts 1,2, 4-7 and perform low impact development/Stormwater, trail landscaping and connection design review. Also, SARA provided low impact development assessment for voluntary low impact development.</p>
SARA	<p>SA2020</p> <p>Continue low impact development advocacy and promotion to relevant development parties to implement low impact development projects. Also, promote low impact development to at least eight significant development projects annually and work to implement more unified development code amendments in 2020, if necessary.</p>	<p>Fiscal Year 2022:</p> <p>Continued low impact development advocacy and promotion to relevant entities to implement such projects. This has been achieved by documenting and tracking low impact development in the community and within the River Authority and reporting that to SA2020, under the Environment Indicators. Incorporated a new Water Quality Indicator using the River Basin Report Card created and updated by the River Authority to track water quality in the San Antonio River Basin.</p> <p>Fiscal Year 2023:</p> <p>Continued low impact development advocacy and promotion to relevant development and community entities to implement low impact development projects, by documenting and tracking low impact development in the community and within the River Authority and reporting that to SA2020 under the Environment Indicators. Incorporated a new Water Quality Indicator using the River Basin Report Card, created and updated by the River Authority to track water quality in the San Antonio River Basin. The SA2020 dissolved in 2024.</p>

TMDL Implementation Status for Upper San Antonio River Watersheds

Responsible Party	Implementation Goal	Status
SARA	<p>Low Impact Development Best Management Practices Monitoring</p> <p>Continue current best management practices water quality monitoring at its Guenther Street and Euclid Avenue properties and conduct post-implementation monitoring to gauge effectiveness of the best management practices. Also, amend appropriate watershed master plans with recommendations based upon the described modeling efforts.</p>	<p>SARA has completed low impact development monitoring at the Guenther Street and Euclid locations.</p>

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SARA	<p>Modeling</p> <p>Amend appropriate watershed master plans with recommendations based upon modeling efforts</p>	<p>The River Authority has updated the water quality models, from November 2020 to June 2023, for the Upper San Antonio River and Salado Creek watersheds and with more recent meteorological data, with the simulation period of 2011-2019. Additionally, full build-out conditions have also been simulated to understand the effects on the receiving water bodies' water quality. During the project, coordination occurred with agencies such as Edwards Aquifer Authority, City of San Antonio, San Antonio Water System, United States Geologic Survey, and Texas Commission on Environmental Quality for data collection. In some cases, discussion on incorporation of data, such as sanitary sewer overflows, into these models. Estimations of load reductions required have also been conducted. Further analysis has been conducted, using the models, to quantify and determine where water quality improvements are needed for the streams to meet the current primary contact recreation 1 standard. A map of these locations has been added to the Watershed Master Plan viewer, (https://experience.arcgis.com/experience/d9e510a7bfbb456fa3243c9f7ba20766), for internal and external use for encouraging water quality mitigation measures.</p>

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Responsible Party	Implementation Goal	Status
SARA	<p>Watershed Master Plans</p> <p>Update the Upper San Antonio River and Salado Creek Watershed Master Plans annually.</p>	<p>Fiscal Year 2022:</p> <p>Project recommendations for low impact development projects pertaining to the 2022 City of San Antonio Bond Projects within Upper San Antonio and Salado watersheds, were developed and submitted to CoSA for consideration of incorporation.</p> <p>Fiscal Year 2023:</p> <p>Floodplains have been updated to incorporate the latest NOAA Atlas 14 Rainfall data, newer topography, and additional structural data. Areas previously identified as needing flood mitigation in the original (pre-Atlas 14) analysis were re-evaluated to determine if mitigation is still required. Additionally, new areas have been identified as requiring flood mitigation. The next step will be to develop project recommendations for these areas that need flood mitigation, within the Salado and Upper San Antonio watersheds.</p> <p>SARA also revisited the Watershed Masterplan Viewer for potential updates. All data used in the Watershed Masterplan Viewer was reviewed to ensure it is up to date. Planned enhancements include a redesign of the viewer’s interface to enhance its utility for project sharing/planning and prioritization. The Watershed Masterplan Viewer is an interactive tool designed to support stakeholders by providing project recommendations for low impact development implementation. The tool is actively used by SARA to share essential data and project recommendations with stakeholders, facilitating collaborative and informed engagement. Plan enhancement will be done next fiscal year.</p>

<p>SARA</p>	<p>Long Term Monitoring</p> <p>Review monitoring annually with TCEQ and other monitoring partners in a coordinated monitoring process. Provide the TMDL I-Plan group, at its annual meeting, an updated monitoring map, and a summary of changes in <i>E. coli</i> concentrations at all on-going routine monitoring sites in the I-Plan area.</p>	<p>Up-to-date CRP and SARA routine surface water monitoring sites are on the CRP Coordinated Monitoring website at: https://cms.lcra.org</p> <p>Fiscal Year 2022:</p> <p>SARA staff and other interested parties met with TCEQ on 4/12/2022.</p> <p>Fiscal Year 2023:</p> <p>SARA staff and other interested parties met with TCEQ on 4/16/2023.</p> <p>In fiscal year 2022, four out of twenty-one monitoring sites in the Upper San Antonio Watershed had geometric means that were at or below 126 colony forming units/100 milliliter for <i>E. coli</i> bacteria. In fiscal year 2023, two out of nineteen monitoring sites were at or below 126 colony forming units/100 milliliter for <i>E. coli</i> bacteria.</p> <p>Based on limited data of one year, the sites in 2022 that were at or below 126 colony forming units/100 milliliter were:</p> <ul style="list-style-type: none"> • 12751 - Martinez Creek at Ruiz Street in San Antonio. • 12897 - San Antonio River at IH 410 low water crossing Camino Coahuilatchan 0.25 kilometer below the bridge in San Antonio. • 15722 - San Antonio Zoo outfall No. 1 discharge channel 27 meters downstream of discharge culvert at southeast corner of zoo outside zoo property. • 16731 - San Antonio River approx. 835 meters upstream of the Medina River confluence. <p>In 2023, the sites that were at or below 126 colony forming units/100 milliliters were:</p> <ul style="list-style-type: none"> • 12880 - San Antonio River at FM 541 near Poth. • 16731 - San Antonio River approx. 835 meters upstream of the Medina River confluence. <p>When comparing sites that were sampled in both fiscal year 2022 and fiscal year 2023, twelve sites had geometric means that increased from fiscal year 2022 to fiscal year 2023 and seven sites had geometric means that decreased.</p>
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Management Measure 4: Municipal Separate Storm Sewer System Related Activities and Municipal Separate Storm Sewer System Phase 1 Water Quality Protection Activities

Responsible Party	Implementation Goal	Status
SAWS, CoSA	Continue to manage the municipal separate storm sewer system permit in compliance with its requirements and identify bacteria reduction related best management practices that can be implemented.	<p>The new TCEQ permit was issued to the CoSA and SAWS in 2022 and an updated Storm Water Management Plan was developed. All activities are current and additional best management practices are included in the project, where deemed effective or viable.</p> <p>The June 2022 Municipal Separate Storm Sewer System Storm Water Management Program permit – which requires to progress towards meeting TMDLs – continues to be implemented in accordance with the municipal separate storm sewer system permit renewed with significant amendments in December 2021.</p>

Management Measure 5: Avian Management for the River Walk and Other Riparian Areas

Responsible Party	Implementation Goal	Status
CoSA-CCDO	Continue to use a falconer for six months of the year, and a laser device the other six months of the year to reduce the grackle population in the downtown area. Also, utilize continued effort through public awareness and early detection to aid in the reduction of avian-related load contributions.	<p>Reducing the downtown grackle population using falconers, laser devices, or other methods is an intractable problem; wildlife discouraged from occupying one location generally move to alternate location nearby. Regardless, there is an ongoing citywide effort to inform the public about the harmful effects of feeding wildlife. In 2016, CoSA-CCDO implemented a USFWS compliant program to remove unoccupied Yellow Crowned Night Heron nests, above several restaurants along the River Walk. The program was successful in moving heron nesting to alternate locations and has not been needed in past several years.</p>

Management Measure 6: Expansion of Pooper Scooper Program

Responsible Party	Implementation Goal	Status
CoSA-PRD	Continue installation of Mutt Mitt® Stations with future linear creek way trail projects and community outreach.	CoSA-PRD resupplies Mutt Mitt® bag dispensers at parks, dog parks, natural areas, and linear creek way trailheads each weekday. New dog waste bag dispenser stations are incorporated into the designs of all new park improvements, including the new linear park trailways of the 2022 Bond Program. New station locations are also identified for installation at existing parks and greenways.

Management Measure 7: Increase Awareness and Enforcement of Pet Control Ordinance

Responsible Party	Implementation Goal	Status
CoSA-ACS	Continue education and outreach programs for relevant topics such as animal vaccinations and spay and neutering programs.	CoSA-ACS continues education and outreach to increase awareness of free pet spay/neuter, vaccination, and microchip services available to city residents as detailed on the ACS website (https://www.sa.gov/Directory/Departments/ACS).

Management Measure 8: Best Management Practice Assessment, Pilot Studies, and Mission Drive-In Redevelopment

Responsible Party	Implementation Goal	Status
CoSA-PWD	Provide on-going operations and maintenance at the Mission Drive-In project.	The Mission Drive-In project low impact development feature operations and maintenance responsibilities are unclear to CoSA-PWD. A spring/summer 2024 meeting between CoSA and SARA is planned to clarify and continue low impact development feature operations and maintenance responsibilities for the project.

Responsible Party	Implementation Goal	Status
SARA	Complete monitoring of Mission Drive-In Library, erosion control project at SARA’s Environmental Center, rain garden education videos and educational website, Leadership in Energy and Environmental Design certification for maintenance facility, and pre- and post-construction monitoring on Hausman Road, Ray Ellison Drive and at Hemisfair Park. Also, complete the stormwater improvement project at SARA’s main office.	All monitoring has been completed. Leadership in Energy and Environmental Design certification was given to the maintenance facility and monitoring has been completed for Hausman Road, Ray Ellison Drive, and Hemisfair Park. Stormwater improvements and monitoring have been completed, including several small raingardens, cisterns, and permeable pavers that were installed in the parking lot at SARA’s Guenther location.

Management Measure 9: Feral Hog Management

Responsible Party	Implementation Goal	Status
AgriLife Extension, TSSWCB, SARA	Host feral hog workshops in the affected watershed.	No additional update is available
TSSWCB, SARA	Promote feral hog abatement activities in different stakeholder meetings in the watershed.	SARA continued to trap and remove feral hogs in their parks.

Management Measure 10: Livestock Management

Responsible Party	Implementation Goal	Status
TSSWCB, Alamo SWCD, Wilson County SWCD, NRCS, SARA	Promote programs that help implement best management practices for grazing livestock and develop water quality management plans on livestock operations within affected watershed.	SARA works with Alamo SWCD and NRCS to incentivize agricultural best management practices, that include but are not limited to, livestock management. SARA provided a 10% incentive for producers that implemented the NRCS approved water quality best management practices. We provide Alamo SWCD \$25,000.00 per fiscal year, to support the program. This same program is in place for Wilson, Karnes and Goliad soil and water conservation districts.
TSSWCB, Alamo SWCD, Wilson County SWCD	Promote annual status reviews on existing WQMPs in the affected watershed.	No additional update is available

Management Measure 11: Inspection of New Construction Sites

Responsible Party	Implementation Goal	Status
Bexar County	Ensure that all construction sites over one acre are permitted and inspect all permitted construction sites at regular intervals.	No additional update is available

Management Measure 12: Evaluate Restoration of Westside Creeks

Responsible Party	Implementation Goal	Status
CoSA-PWD, CoSA-PRD, SARA, Bexar County	Finish construction on Elmendorf Lake Park improvements (Apache Creek).	<p>Construction has been completed with best management practices installed.</p> <p>Upon review of stormwater data, it is believed that the Elmendorf Lake best management practice monitoring is complete.</p> <p>The Elmendorf Lake Park improvements project was completed in January 2017. Several low impact development features, including a rain garden, were installed to improve the water quality of discharges to Apache Creek.</p>

Management Measure 13: Mission Reach Ecosystem Restoration and Recreation Project

Responsible Party	Implementation Goal	Status
SARA	Provide project and technical management, and coordinate between project partners. Conduct ongoing operations and maintenance activities after project completion. Implement a trash collection system at outfalls if feasible.	Operation and maintenance activities with the United States Army Corps of Engineers are ongoing in accordance with the operations and maintenance document.

Responsible Party	Implementation Goal	Status
SARA, KSAB, CoSA-PWD	Promote the “Adopt a Spot” program, and secure at least one sponsor in areas that drain to Mission Reach and at least five sponsors in areas that drain to Museum Reach.	<p>SARA has the River Warriors volunteer program, that assists with the Mission Reach and other areas within the San Antonio Basin.</p> <p>The Adopt-A-Spot program is promoted through the City’s “Remember the River” website (https://www.sanantonio.gov/Remember-the-River/Home). One organization has adopted locations that drain to Museum Reach and four organizations have adopted areas that drain to the Mission Reach.</p>

Management Measure 14: Environmental Investigators

Responsible Party	Implementation Goal	Status
SARA	Environmental Investigators will continue to investigate activities and conditions in the San Antonio River Basin adjacent to rivers, creeks, and waterways that have the potential for adverse environmental impact or that threaten public health and safety.	<p>In fiscal year 2022, SARA’s Environmental Investigator conducted the following investigations:</p> <ul style="list-style-type: none"> • Chemical /Fuel Spill (4) • Construction Runoff (4) • Dumping (4) • Fish Kill (3) • Other (6) • Sewage (4) • Water Quality (9) <p>In fiscal year 2023, SARA’s Environmental Investigator conducted the following investigations:</p> <ul style="list-style-type: none"> • Chemical /Fuel Spill (4) • Construction Runoff (5) • Dumping (7) • Fish Kill (4) • Other (5) • Sewage (7) • Water Quality (13)

Management Measure 15: "Be Watershed Wise" Campaign

Responsible Party	Implementation Goal	Status
SARA	Utilize the "Be Watershed Wise" initiative and related stormwater education outreach to reach over 75,000 individuals and have over 1,500 citizens signed up to be Watershed Wise Warriors/Citizen Scientists.	The Be Watershed Wise campaign has evolved over the years to include the Don't Let Litter Trash Your River campaign and soon we'll be launching Your River Way campaign.
SARA	Conduct a statistically valid public survey and compare results with previous surveys to determine if trends indicate a growing appreciation of the San Antonio River Watershed and knowledge of sustainability issues.	No additional update is available.
SARA	Offer and promote a training opportunity in association with the Paseo del Rio Association for restaurant operators to train staff on "Don't feed the wildlife" and other water quality best management practices associated with the River Walk area.	No additional outreach campaign has been completed specifically targeting the Paseo del Rio Association. New basin-wide campaigns include the Don't Trash Your River, and the upcoming Your River Way Campaign.

Management Measure 16: Homeless and Vagrant Population: Cleaning and Control of Brush and Dumping at Encampments

Responsible Party	Implementation Goal	Status
CoSA-CCDO, CoSA-PWD, CoSA-Code Department, CoSA-Police Department, CoSA-SWMD	Continue to coordinate with the CoSA Code and Police Departments and document through their annual report to TCEQ the amount of debris removed at encampments along drainage structures by this management measure.	From October 2022 through September 2023, CoSA-SWMD conducted 249 homeless encampment cleanups, which included encampments along stream channels. A total of 814.15 tons of trash and debris was removed from the encampments.

Management Measure 17: Inspection and Repair of Septic Systems

Responsible Party	Implementation Goal	Status
Bexar County	Continue to educate and inspect septic systems that have been identified in older developed areas that are not being served by public sanitary sewer as a part of the County's One-Site Sewage Facility Program.	No additional update is available

Management Measure 18: Specially Designed Boat (Lady Eco)

Responsible Party	Implementation Goal	Status
CoSA-CCDO, CoSA-PWD	Continue to remove trash and debris from the river annually.	CoSA-PWD regularly collects trash and debris from approximately 90 linear creek miles throughout the city. CoSA-CCDO continues to operate the River Walk Lady Eco skimmer vessel to remove floatable trash and debris from the Downtown River Loop. From October 2022 through September 2023, Lady Eco was deployed more 300 times and removed approximately 116 tons of trash and debris.

Management Measure 19: Implement Measures to Improve Maintenance and Cleaning Operations for River Loop Area

Responsible Party	Implementation Goal	Status
CoSA-CCDO, CoSA-PRD	Improve maintenance practices to reduce runoff and chemical spills and continue to implement the zero-tolerance policy.	CoSA-CCDO controls and reduces power washing discharge on the River Walk by capturing wash water runoff in sidewalk height plant beds. No chemicals are used for River Walk maintenance and power washing wastewater does not contain chemicals or surfactants.

Management Measure 20: Street Sweeping Activities

Responsible Party	Implementation Goal	Status
Bexar County	Continue to perform street sweeping within the unincorporated area of the county.	No additional update is available

Responsible Party	Implementation Goal	Status
CoSA-PWD	Continue to perform street sweeping in the downtown area (except for two holidays), twice a year for residential streets, and four times a year for arterial/collector streets.	CoSA-PWD street sweeping continues to remove debris and pollutants from the City’s residential, arterial and collector streets. All residential streets are swept two times per year, while collector/arterial streets are swept four times per year, and central business district streets are swept 362 days per year. Additionally, streets are swept for ten city celebration events and after each roadway deicing event. A total of 4,092 tons of sediment and debris was collected by street sweeping from October 2022 through September 2023.

Management Measure 21: San Antonio River Loop Sediment Removal

Responsible Party	Implementation Goal	Status
CoSA-PWD, CoSA-CCDO, SARA	Continue to review the River Loop every two years (even numbered years) and evaluate and clean as necessary, the River Loop, Loop Extension, and Main Channel, if feasible.	The Downtown River Loop and Loop Extension were last drained in January 2022. The Main Channel was drained in January 2024 and a total of 1,926 tons of sediment was removed.

Management Measure 22: Urban Horse Stable Assessment

Responsible Party	Implementation Goal	Status
CoSA-ASC	Provide number of citations/warnings issued as well as the number of animals impounded. Inspect all private livestock pens annually during the existing permit process and provide number of citations and warnings issued as well as number of animals impounded.	CoSA-ACS conducts livestock inspections for each complaint received. Complaints and inspections are documented along with any warnings or citations issued. Current livestock permit and pet owner requirements were promulgated in 2010 by City Ordinance, Chapter 5, Animals, Sec. 5-51 and 5-113.

Management Measure 23: Creek Book

Responsible Party	Implementation Goal	Status
SARA	A new revision of the Creek Book will be scheduled with plans to enhance the content on low impact development and sustainability.	The Creek Book was reviewed, no update was needed. The Creek Book is posted on our new website (revised February 2024). (www.sariverauthority.org/maps-reports/resources-downloads/)

Management Measure 24: Best Management Practice Assessment Report – 2010

Responsible Party	Implementation Goal	Status
SARA, BRWM Water Quality Focus Group	Identify and assess potential sources of bacteria, and to evaluate best management practices to control those sources.	The Environmental Investigator responded to pollution complaints (See Management Measure # 14). The Atlanta Street best management practice monitoring was completed, and the data assessed to determine its effectiveness.

Management Measure 25: Provide Illegal Dumping Signs for Existing Vegetated Swales/Filter Strips

Responsible Party	Implementation Goal	Status
CoSA-PWD, SARA	Conduct site inspections to verify that refuse is no longer being dumped into the buffer area and place signs to discourage dumping.	Each year, CoSA-PWD conducts four cycles of inspections for all stormwater channels, channel banks, and vegetative buffers. Illicit dumping and its detrimental effects are addressed in detail on the “Remember the River” website where the reporting of dump sites is encouraged. The “See A Dump, Be A Grump Report It” brochure is distributed at public events. “No Dumping” signs are placed at problem locations and vehicle access is blocked when needed.

Management Measure 26: Animal Pound Wash-Down

Responsible Party	Implementation Goal	Status
CoSA-ACS	Reduce potential load from routine wash-down practices at the animal control center near the San Antonio Zoo.	CoSA-ACS operated the service center west of the San Antonio Zoo (210 Tuleta Dr.) in 2016 when wash-down practices were modified to control non-stormwater runoff from the site, which was a potential source of surface water pollutants including bacteria. However, as of 2023, the service center has been operated by a private entity.

Management Measure 27: Wildlife – Bat Colony in Houston Street Bridge

Responsible Party	Implementation Goal	Status
CoSA-CCDO	Examine roost beneath Houston Street Bridge and perform work to keep the bats from roosting in the future. Perform annual inspections to verify that the colony is not roosting under any bridges in the River Walk area.	Completed prior to I-Plan development.

Management Measure 28: SAWS' 'Recycled Water Program and Streamflow Augmentation Discharges

Responsible Party	Implementation Goal	Status
SAWS	Increase water quality by augmenting streams as a part of the Recycled Water Program to increase flow and reduce concerns for DO and fecal coliform.	Completed prior to I-Plan development.

Management Measure 29: Connection of 117 Homes in the Espada Community Located on Southwest Bexar County

Responsible Party	Implementation Goal	Status
SAWS	Connect 117 homes in the Espada community to sewer service from private septic systems.	Completed prior to I-Plan development.

Management Measure 30: San Antonio River Walk Implementation Project and Plan (to include new sections of the River Walk)

Responsible Party	Implementation Goal	Status
CoSA, SARA, Bexar County, RWWA	Educate citizens on bacteria controls and identify merchants' and patrons' behaviors that contribute to elevated bacteria levels.	Completed prior to I-Plan development.