Medina River WPP Work Group Meeting Notes July 30-31, 2024

July 30, 2024

Ag & Urban Issues Work Group

LULC Updates Overview & Discussion

- Recap of previous meeting input on methodology for estimating land use and land cover (LULC) changes over time.
- Used 2021 National Land Cover Dataset (NLCD) layer and considered approved subdivisions as a proxy for rate of change over time
 - Rate of growth increased considerably in mid 90s Bexar Co
 - Rate of growth has even trajectory but with a couple big jumps Medina Co
 - Rate of change assessment looked at subdivisions approved between 2000 and 2023
 - Applied rate of change to the LULC types to estimate the change in acres available for each population type (livestock, deer, hogs)
 - Resulted in lower projected loads over time
 - No info from Atascosa or Bandera County subdivisions obtained

Population Projection Updates Overview & Discussion

- Recap of previous input on methodology for estimating population changes over time.
- Used Texas Demographic info found to be very conservative
 - Considered Medina Valley ISD (MVISD) quarterly population projections more analogous to Bexar Co growth
 - Results could still underestimated population growth
 - Updated watershed growth looks much more representative of what's actually happening
 - No qualms with updated growth rate applied
 - Rate of change in population applied to current loads in existing subbasin locations no analysis of potential loads from future WWTFs in new locations or subbasins

Priority Areas and Management Measures

- E.coli loads by subbasin were standardized by subbasin size: load/acre for management recommendation purposes. This compensates for differences in subbasin size in comparing overall loads.
 - o Better illustrates loads in rural areas as opposed to urban
- Livestock & rural animal-based sources
 - Should compare livestock number requirements for ag valuations with appraisal districts against density in analysis
 - Subbasin 1 doesn't have many livestock at all (few to no sheep/goats due to predators)
 - Other Livestock management measures not shown on slide could be included. Many practices not shown could be included in Conservation Plans or Water Quality Management Plans. For example:
 - Erosion control/grade structures
 - Nutrient management
 - White-tailed Deer
 - No additional ideas
 - Feral Hogs
 - No additional ideas

Wastewater & Population-based sources

- WWTFs
 - added Forest Glen 3 new facility under construction, starting in 2026 (anticipated date in Public Utility Commission filing)
 - Medio Creek load calculations used reported flows rather than permitted due to reuse obligations
 - All others used permitted maximum flow rates
 - Actual loadings are likely much less than permitted load
 - Analysis is a worst-case potential load doesn't represent actual load
 - SAWS asked if WPP can include discussion of actual E. coli concentrations reported
 - Definitely acknowledge situation in WPP
 - No new management suggested
- OSSFS
 - o Failure rates based on local feedback
 - Upper end of watershed has higher potential to directly impact ground water (Edwards outcrop & recharge zones)
 - Management Measures
 - Interest expressed for additional support for Authorized Agent capacity
 - Discuss enforcement in WPP
 - Application of high population growth to OSSF numbers may not be appropriate
 - New high-density growth may be more apt to be in subdivisions with WWTFs
 - May need to acknowledge this in WPP language
 - Bexar Co Authorized Agent was told 10 years ago that they wouldn't be permitting new OSSFs - they are actually permitting more systems than ever
- Dogs
 - o No new thoughts on population increases or management
- Total Load from all identified sources
 - o Predicted to increase 140% by 2036 due largely to population growth
 - Landscape based loads decrease; human population-based loads increase
 - o When will area be fully built out?
 - Look at Alamo COG to see if they have planned that out
- Urban Stormwater
 - LID/Green Infrastructure needed for stormwater reduction
 - SARA Green Infrastructure Master Plan
 - Stormwater management best approach for addressing urban stormwater derived loads
 - Existing resources for diverse audiences in watershed
 - Operation and maintenance of these facilities is problematic
 - Need plenty of E&O to inform folks of these needs
 - Bexar Co does have rules/regs on stormwater implementation; HOA usually gets responsibility for maintaining stormwater features and they do a poor job in most cases
 - Works great when things work
 - Requires intensive training for landscapers/maintainers

 Bexar Co conducts helicopter surveillance of waterways annually to ID illicit discharge and works to reduce/eliminate those instances

Stream Restoration

- Great concept but does it create new/better wildlife habitat, which can actually increase E. coli loads
 - Highlights the issues of E. coli as a poor indicator of actual human health risks
- At end of day, could more beneficial than harmful
 - Prioritize high use locations such as parks
- Maybe some interest in long-term conservation easements
 - o Speak to land trusts, COSA, EAA, Green Spaces Alliance
 - o REPI program also active in area (JBSA-LAK; Camp Bullis too)
- Keep mention of EAA abandon well program in plan
- Bacteria Load Assessments
 - Noyes Rd. Large cattle feeding operation right along river that may be contributor (M&M Cattle)

Load Reduction Analysis

- Agreement that mid-range and low flow conditions are what should be the focus of planned management
- Use LDC reduction goals developed using data from 2024 Integrated Report, rather than long-term historical data

Next Stakeholder meeting

End of August early September

July 31, 2024

Education & Outreach Working Group

Review of population trends overview

New projections seem more reasonable/appropriate than original numbers

Review of LULC and Development Trends

All ok with those projections based on last 20 years growth rate

Messaging/Recruitment

- Thoughts?
 - What is on slides is good
- What it Means/What is promoted
 - o Other thoughts?
 - Correcting dis- and mis-information that exists watershed coordinator needs to understand what the misinformation is and where it's being spread, e.g. NextDoor
 - Keep tabs on what those topics are
 - Make points that environmental stewardship is everyone's responsibility
 - Hands on demonstrations and events make a big difference in reaching people

- Golf Course/Private Industry need information too on landscape & stormwater management
- City of New Braunfels has spot at local movie theater (Santikos) on watershed management
- City of San Antonio has video on trees and benefits they provide
- Local resources, such as YouTubers could be helpful
- SARA Bio Blitz is very popular
- How do you get people to want to do these things?
 - o Should we target elected officials?
 - Educate on importance of conservation mindset
 - Work to get them to create influence on path forward, e.g. New ordinances; restrictions on approvals; etc.
 - o Developers need to be exposed to concepts of developing with the environment in mind
 - Really need to highlight the importance of connecting with people where they are to provide information that they want and need (even if they don't know they need it)
- Promote responsible recreation
 - o Pick up after yourself
 - Pick up after your critters
 - Don't overload the environment (love it to death)
- · Monitor effectiveness of methods
 - What's working and what isn't
 - Make sure its adaptive
- Be sure to promote successes of program
 - o Helps increase folks interest in the waterbody; desire to use; etc.
- Use presence of Medina River natural area
 - o Staff tasked with providing educational programming
- Castroville Regional Park decent birding community use
 - Signage opportunity?
- Incentives
 - Explore creation of a Medina River certified something acknowledge doing the right thing
 - o Promote the good works of folks

E&O Resources

- New landowner info what do they need to know
 - Grazing
 - OSSFs (types and their operation & maintenance)
 - Wildlife
 - Land stewardship
 - o Financial/Technical resources
 - Talk with Jim Welch about what he needs as returning landowner
- Lawn & landscape information for subdivisions
 - o Dog waste management
- LID maintenance training for landscapers
- Landlord/Tenant Farmer issues that don't support/promote conservation