



Discharge Locations Separate Separate

Improving Stormwater

Results

Site selection resulted in a 200 foot section of arroyo

Structure would contain three sections:

- Screen zone to remove large trash and debris
- Sediment zone comprised of rocks to decrease velocity and allow sediment to fall out
- Riparian area consisting of high-permeability soils and vegetation

Goals of structure:

- Extract heavy metals and chemicals through phytoremediation
- Decrease water velocity to promote infiltration and a safer environment
- Increase aesthetics for nearby community

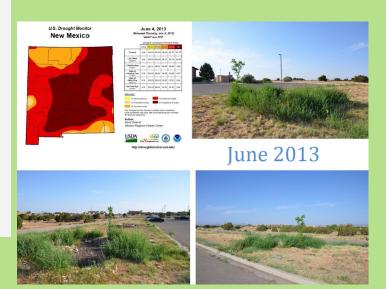
Future work:

- Model flow to understand dynamics
- Expand data collection city-wide to determine feasibility of multiple structures
- Implement structure and test water quality

Screen zone Sediment zone Riparian/Wetland zone Louis Vottero

Rain gardens work better!







Monthly Soil Moisture at Curb Cuts with and without Rain Gardens Rain Garden Rain Garden No Rain Garden No Rain Garden Average Precipitation (14.21 in/yr)

Objective:

• Complete a site selection analysis for an in-channel water treatment area with a focus on stormwater treatment

Data

- AMAFCA
- ABCWUA Water 2120
- Aaron Kauffman

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