

# Nature-Based (NB) Project Opportunity Pipeline for SARA Self-Investment

EAC 9/16/2022



## Nature-Based Infrastructure



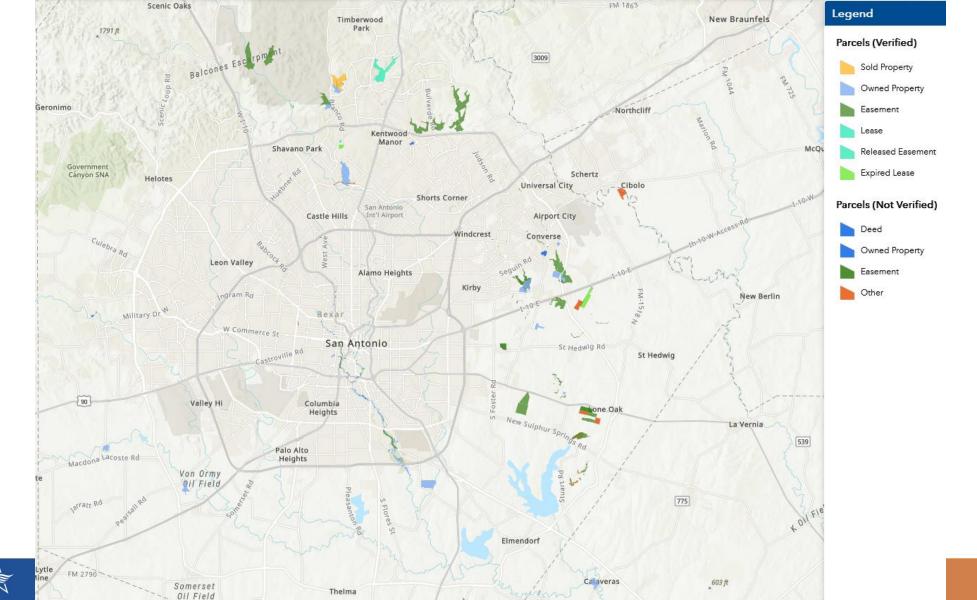


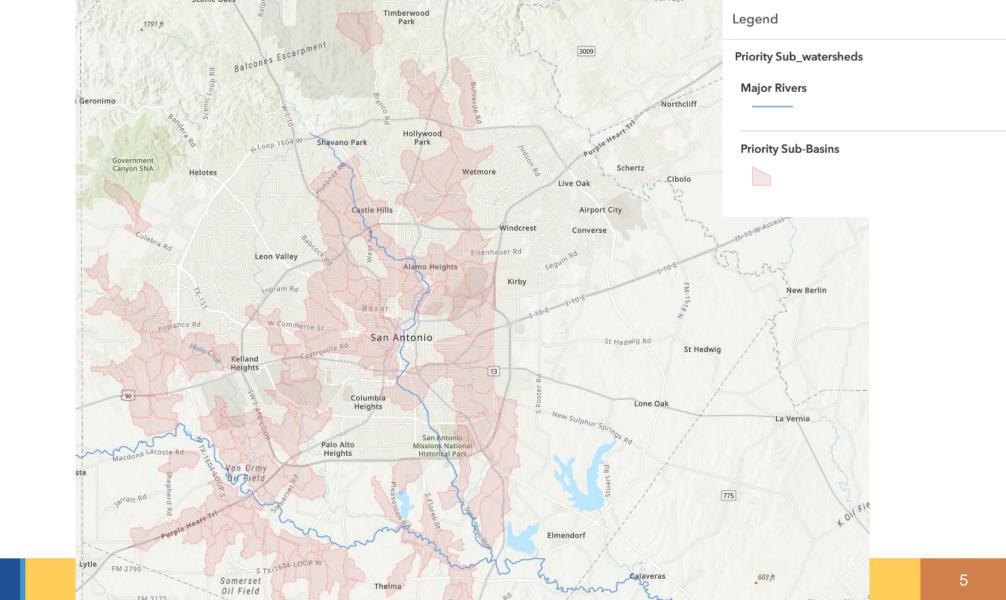


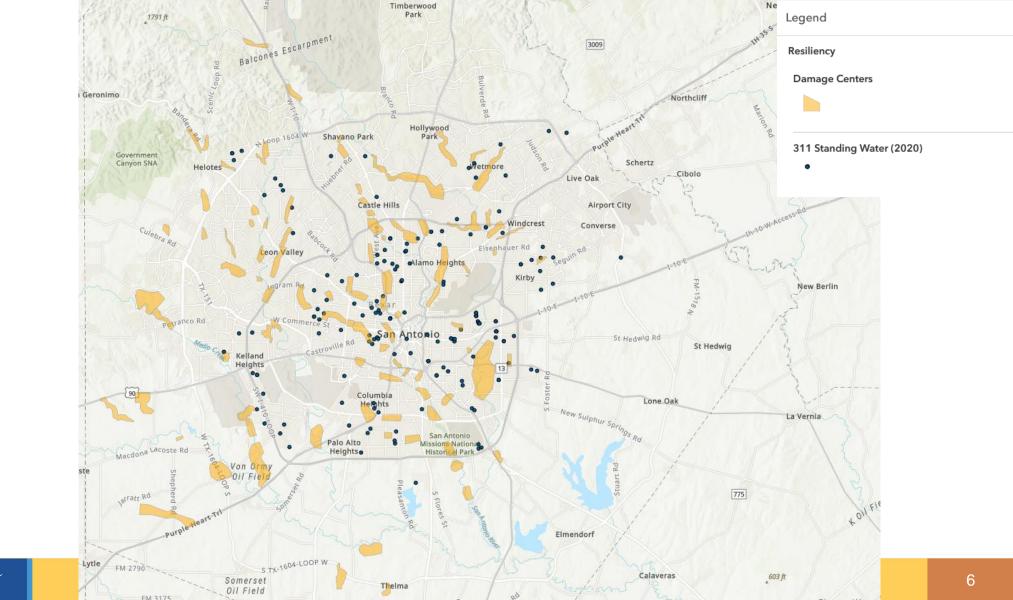
## Overview

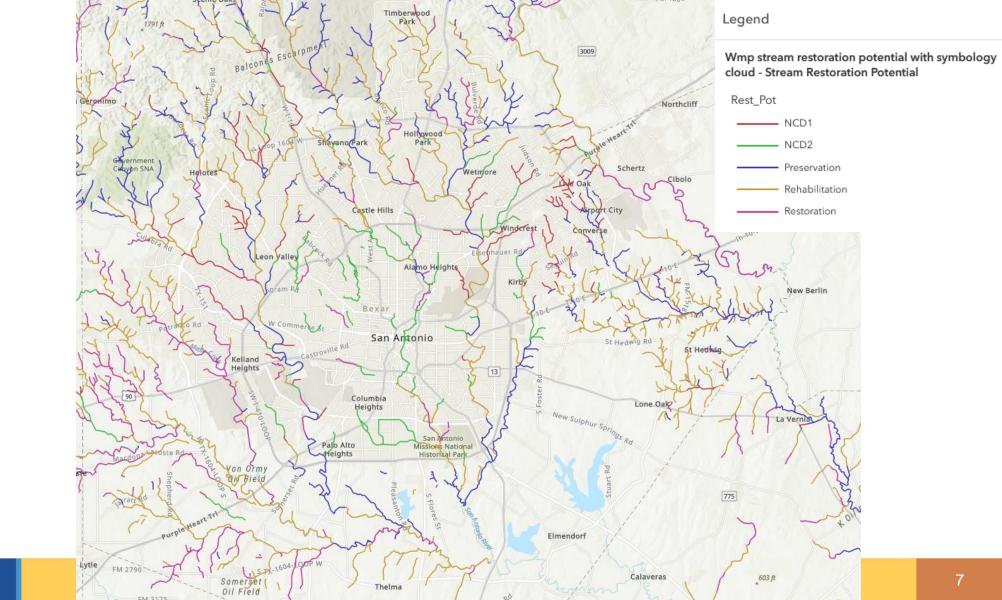
- Research opportunities to invest in NB infrastructure:
  - On SARA owned, operated, and maintained property.
  - In known priority areas; water quality, urban flooding, and in-stream.
  - To lead by example and achieve SARA's mission of safe, clean enjoyable creeks and rivers.



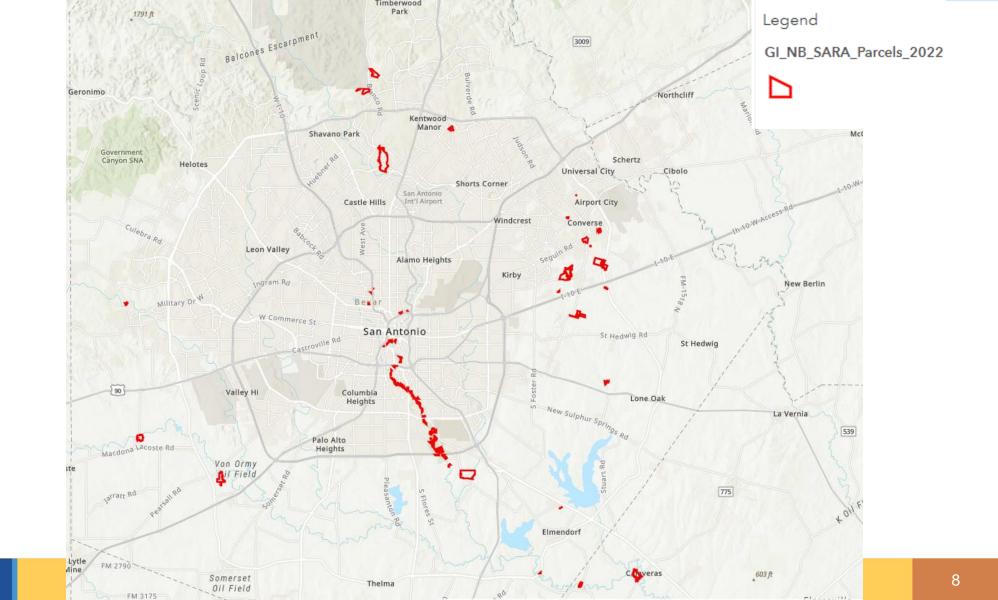












### SARA Self-Investment GI/NB Opportunities

Legend

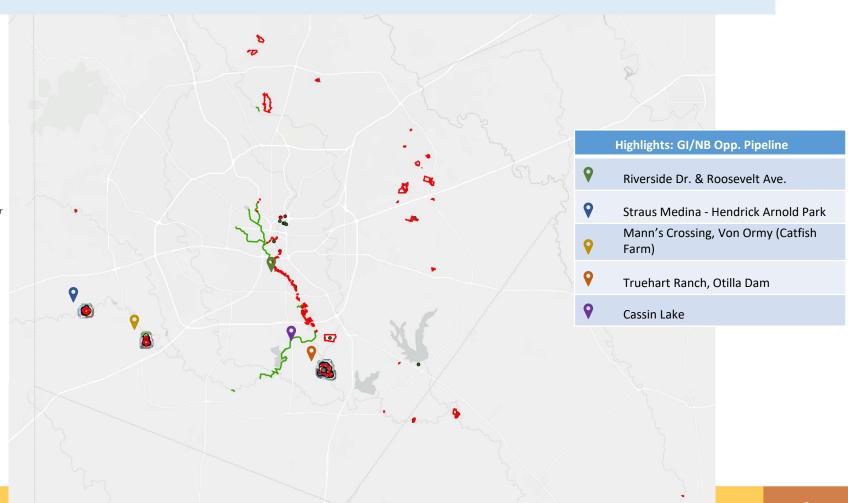
GI\_NB\_SARA\_Parcels\_2022

SARA RE Parcels that intersect with COSA Linear Creekways

SARA\_Facilities - Facilities

Parks\_Master\_Plan\_Georeference (DEV) - Park\_Boundaries







# Site Summary

							Construction											
							ready in 6	Ready to		Ready to			Priority	Priority				
							months? (4	construct		construct in			Subbasin	Subbasin				
Project ideas					Construction				Ready to construct	3 years or	Damage		(No.)(Aug	downstream	Stream Restoration Potential		Potential Grant	
categories: 🗡	Priority √8	by SAR ~	SARA Owned (partial, future)	Cost estimate: Y Cost (\$)	readiness:	Details	+ bidding)	year Y	in 2 year	more	Center (# 🗡	WMP-project (#)	2019)	′ (No.)	(No., Classification)	Grant Partner	Funding (\$)	O&M level (WPO-PW( Y
						Parks Work Group:												
6	Yes	Yes	Straus Medina [RE ID: 4107]		Idea Phase	Hendrick Arnold Park									ID: 640 Restoration			
			Von Ormy (SAWS-Catfish Farm -			Parks work Group:							313					
9	Yes	Yes	Mann's Crossing) [RE ID: 3183]		Idea Phase	Mann's Crossing							313		ID: 1613 & 1728 Rehabilitation	1		
						EE site visit identified												
						potential for stream												
						restoration of main							560		ID:504, 540, 563, & 577			
			Cassin Lake [RE ID: 4429, land title			spillway and suroundin	g								Preservation, Pond,			
21	Yes	Yes	survey, closed June 29th.		Idea Phase	waterways.								560	Restoration, & Preservation			
						Parks work Group:									l			
29	Yes	Yes	Truehart Ranch (Otilla Dam?)			Truehart Ranch Park												
									Treat stormwater						l			
									runoff on SARA						l			
						Need to discussion with	1		property, where						l			
						WPO since they also us	e		City, SARA,						l			
						this area. If we like, we			investments are						l			
						could approach COSA to	0		happening (ROAD,		l		1				COSA LID Bond	
						concider for the LID			LID, and Ped		l		1				Match, 319 Grant,	
30	Yes	Yes	Riverside Dr. & Roosevelt Rd.		Idea Phase	Bond Match.			Bridge projects.)		40		46	0		COSA, EPA, TCEQ	others?	
		•	•			•		•							•			

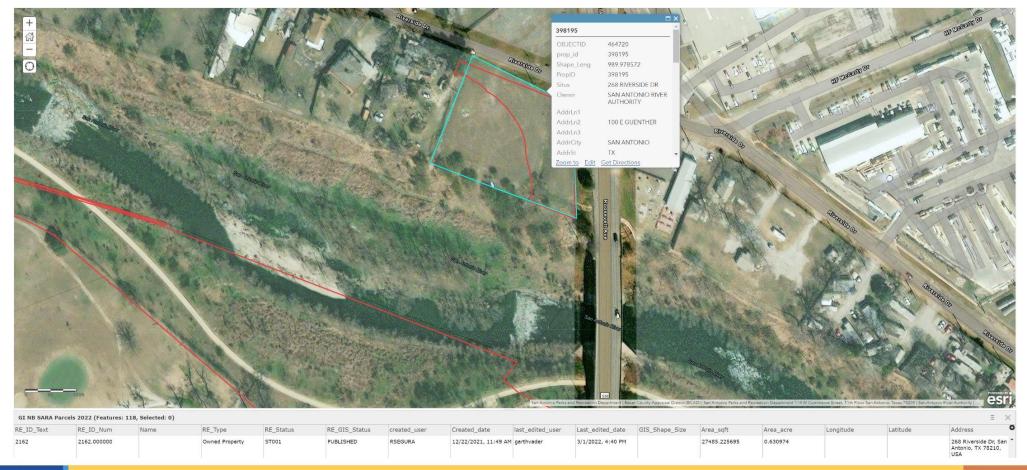


## Project Readiness

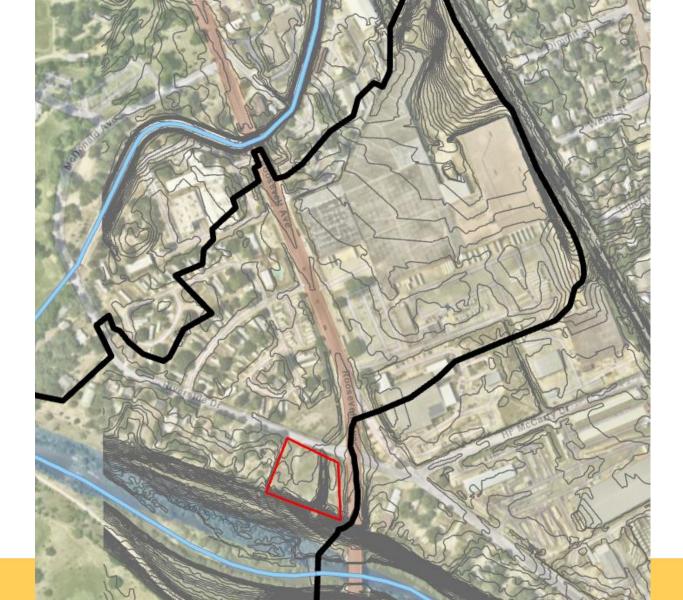
					V '( 6')		Idea developed,							
					Verify Site		ready for design,							
					should be		Preliminary Engineer			Partners and/or				
	_		Construction				Review (PER)		Design complete +		Agreement/ Contract		Post Construction	Operation &
Project ~	Priority √	Name ×	readiness:	Details	(WPO, RE, etc Y	Site Visit Y	complete	Design Phase Y	ready for bid	Funding Identifi∈ ~	Signed	Construction Phase	Inspection	Maintenance <u></u>
		Straus Medina (Hendrick												
6	Yes	Arnold)	Idea Phase	Parks Work Group										
		Von Ormy (SAWS-Catfish Farm												
9	Yes	- Mann's Crossing)	Idea Phase	Parks work Group										
		Cassin Lake [RE ID: 4429, land												
21	Yes	title survey, close June 29th.	Idea Phase	Ideation										
29	Yes	Truehart Ranch (Otilla Dam?)		Parks Work Group										
										City, SARA,				
										investments are				
				SARA Property at (COSA						happening (ROAD,				
				Bond LID & Ped Bridge						LID, and Ped				
30	Yes	Riverside Dr. & Roosevelt Ave.	Idea Phase	projects)						Bridge projects.)				
		·										-		



#### Riverside Dr. & Roosevelt Ave.



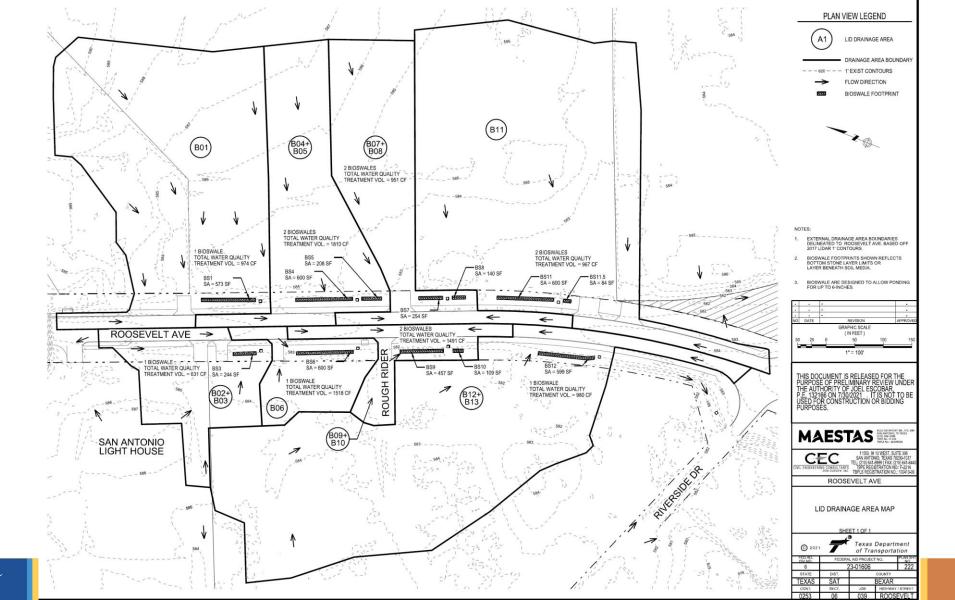


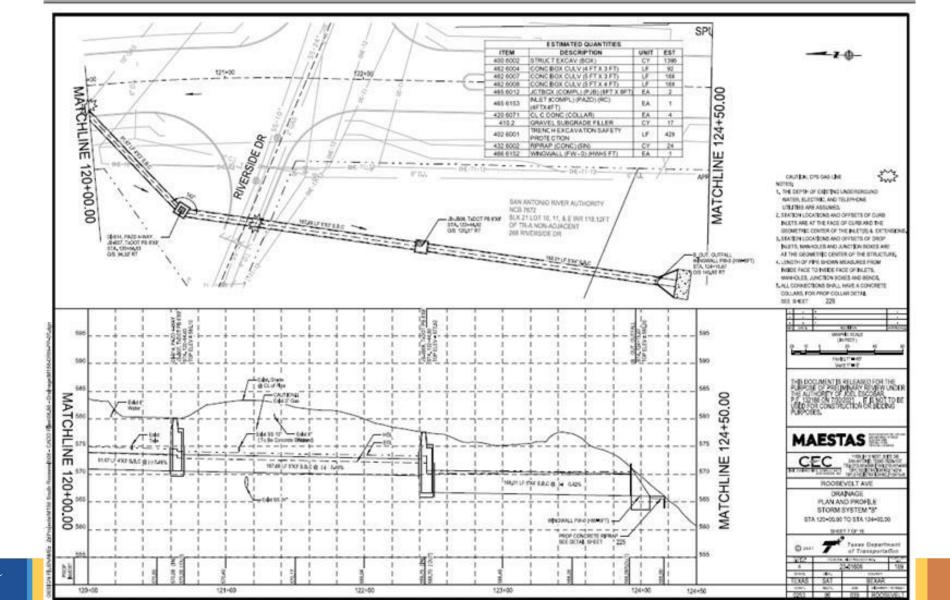




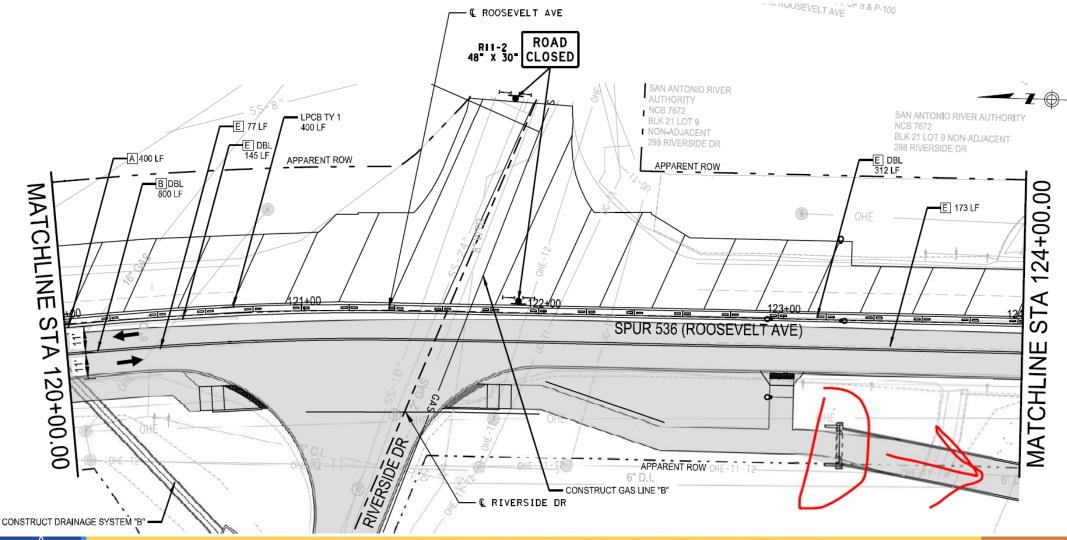


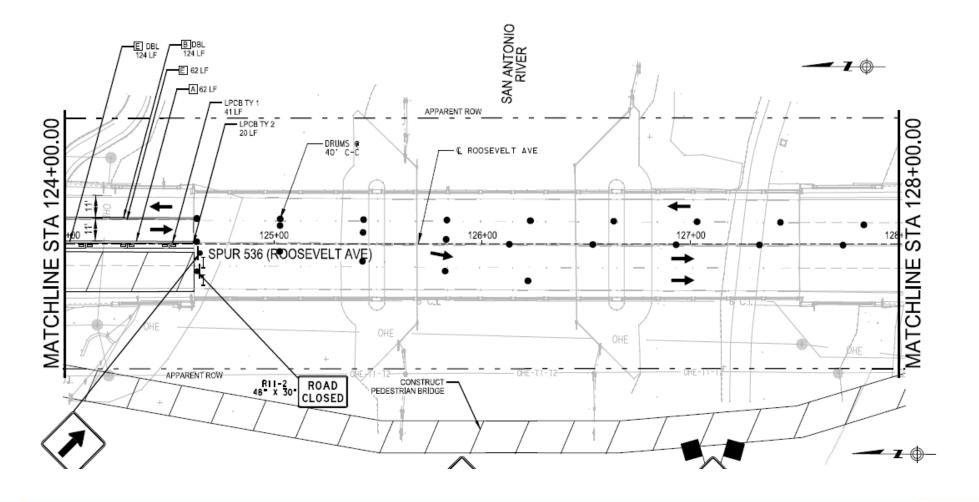


















Parks Master Plan: Trueheart Ranch Park, Manns Crossing Park, Hendrick Arnold Park (DEV) - gisParkPOI - Trueheart Ranch

Acequia Interpretive Station Amenity Campground

Bird Watching Station

Blackland Prairie Restoration

Butterfly Garden

R Compost Restroom

Cultural Historical Interpretation

Equestrian Area

Fishing Area

Maintenace Facility

🔼 Nature Themed Playground

Observation Tower

Off-Road Skills Development Course

Outdoor Classroom

Parking with Raingardens

S Passive Bio Swale

Pecan Orchard

Picnic & Open Play

Prairie Grass Restoration

Primitive Campground

RV Campground

Reforestation

River Access

Scenic View

Trail Head & Restrooms

Trail Head & Restrooms with Cyclist Amenities

Trueheart Ranch Campus

Wetlands Conservation

Milderness Campground

Parks Master Plan: Trueheart Ranch Park, Manns Crossing Park, Hendrick Arnold Park (DEV) - gisParkAOI - Trueheart Ranch

Facility

Fishing Area

Gateway

Prairie Grass Restoration

Rain Garden Area

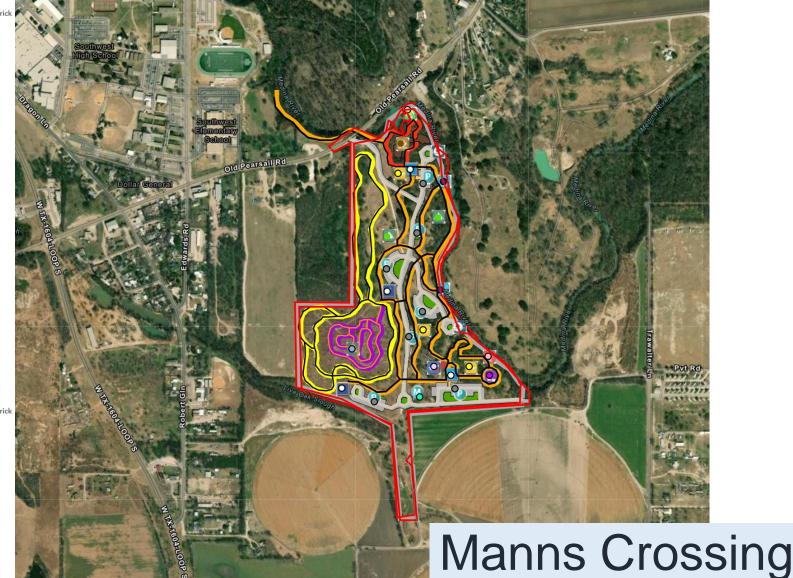
Roadway

Seating Block

Walk

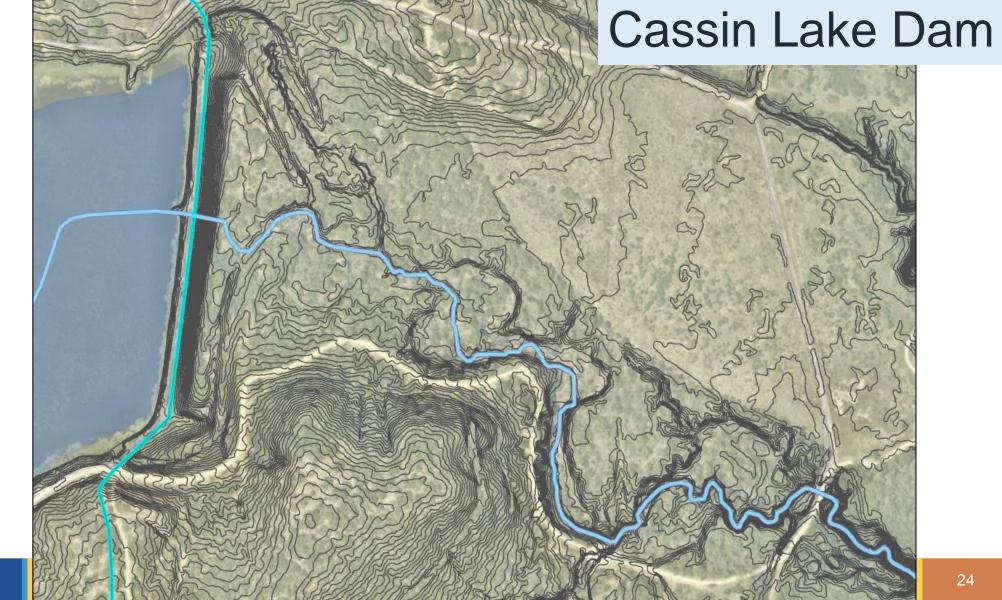
Walkway

Wetlands Conservation



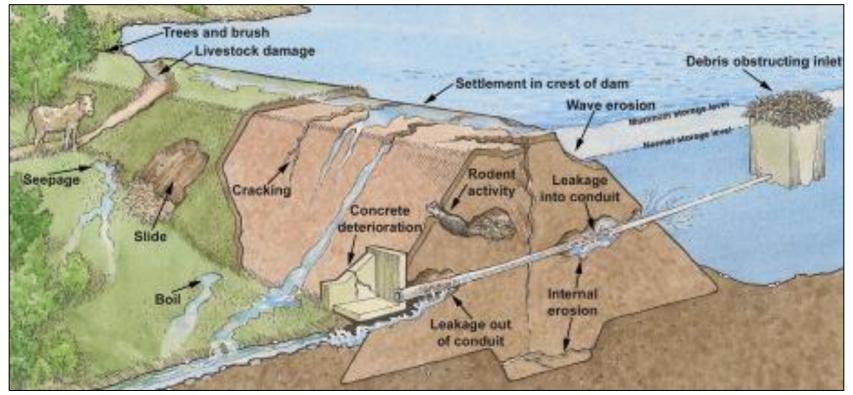
Walkway

Wetlands Conservation





## Inspection & Repair



https://theconstructor.org/water-resources/causes-failures-earthfill-dams/2287/



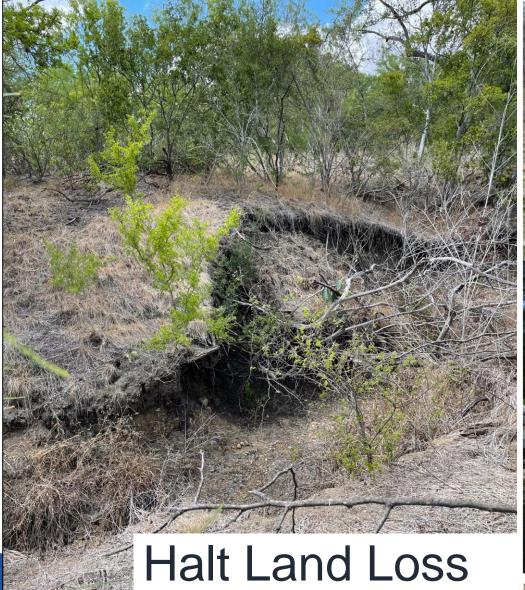


















## Next Steps

- Develop Projects
  - Design
  - Cost
  - Constructability Timeline
- Run Projects Through Scoring Tool
  - In Development
- Continue Searching for Sites with Potential



## **Draft** Scoring Criteria and Goals

#### Safe

- Flooding
- Stream stability/Erosion
- Population impacted/Equity

#### Clean

- Water quality priority
- Pet, livestock, wildlife waste
- Heat island mitigation
- Habitat restoration & protection

#### Enjoyable

- Connectivity
- Quality experience
- New parks & Trails
- Trash reduction

#### Fiscal Stewardship

- Design & construction cost estimates
- O&M costs
- Project dependencies
- Partner funding
- Procurement
- Reuse materials





