



Parks Water Strategy

Expanding Alternative Water Sources for Parks



Rio Paseo Park

Agenda

1. Strategic Plan Goal
2. Current Parks Water Use and Alternative Sources
3. Future Opportunities
4. Challenges
5. Cost Comparison
6. Path Forward



Rio Paseo Park



Rio Paseo Park

Strategic Plan Update

Increase City Non- Potable Water Uses

Develop strategies to transition Parks and Recreation Department's water usage to non-potable sources where possible.



Water Sources Used for Park Irrigation

Definitions of the water types referenced throughout this presentation

Water Type	Definition
Potable Water	Treated drinking water , used for both human consumption and irrigation.
Non-Potable Water	Water not intended for human consumption but suitable for uses such as landscape irrigation.
Reclaimed Water / Effluent (Non-potable)	Treated wastewater reused for non-drinking purposes such as landscape and park irrigation.
Irrigation District Water (RID) (Non-potable)	Non-potable water supplied through an irrigation district system.
Remediated Water (Non-potable)	Water recovered and treated through a remediation process for approved non-potable uses.



Water Sources by Name and Type

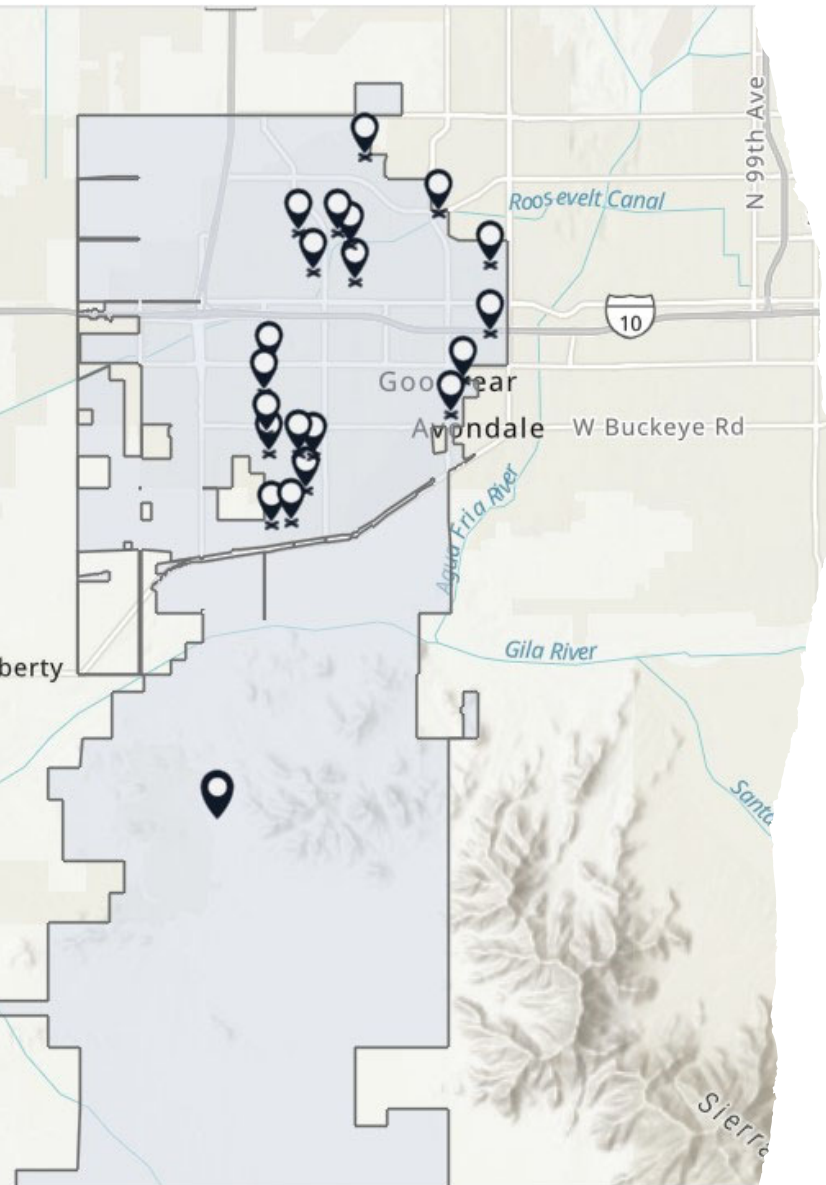
All current and potential irrigation water sources

Water Provider	Water Types Provided
City of Goodyear	Potable and Reclaimed
Phoenix-Goodyear Airport (PGA) South Superfund Site	Remediated water
Avondale School District Water	Well water
Liberty Utilities	Potable and Reclaimed/Effluent
Estrella	Reclaimed
Roosevelt Irrigation District (RID)	Irrigation district water

Strategic Plan Action: What Success Could Look Like

- Prioritize non-potable water opportunities
- Coordinate with water providers
- Evaluate cost, reliability, and feasibility
- Plan phased implementation
- Include non-potable water in future park projects





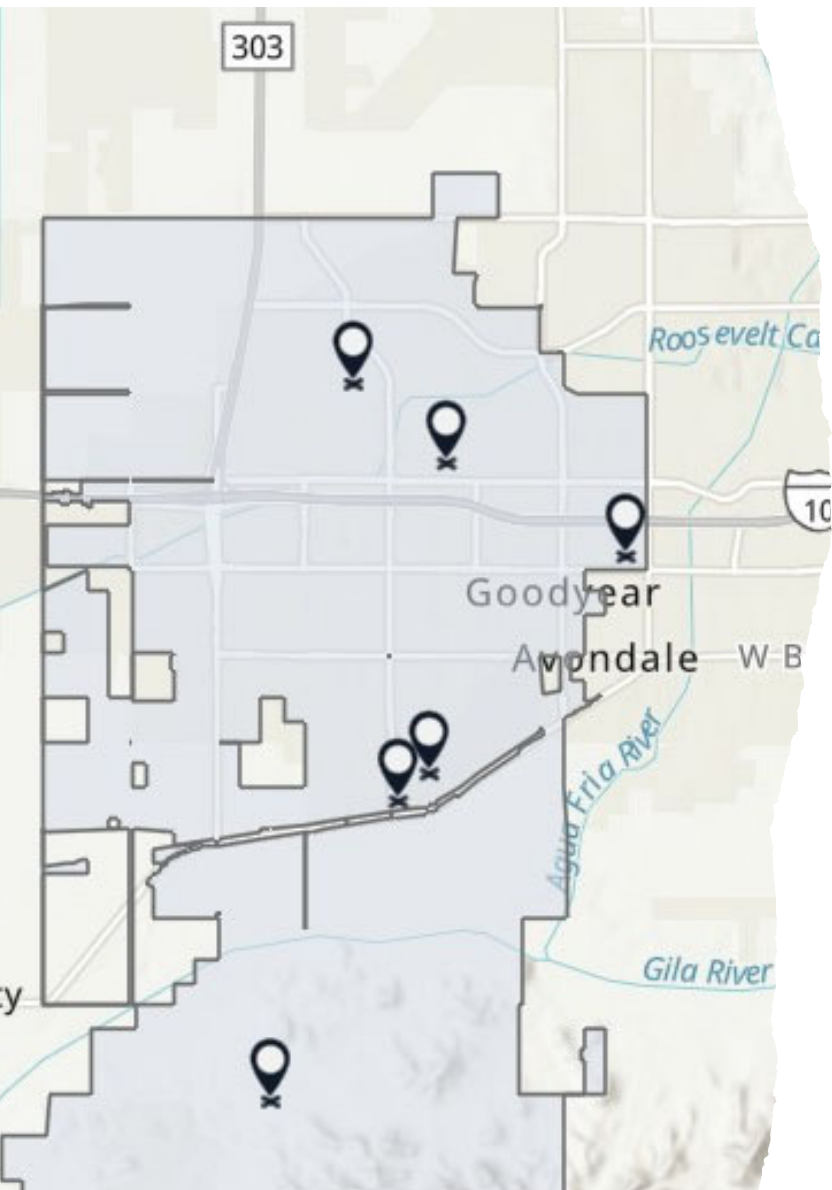
City Of Goodyear Parks

- **Community Parks (4)**
- **Neighborhoods Parks (11)**
- **Specialty Parks (6)**
- **Linear Parks (2)**



Current Alternative Water Sources

Alternative Water Sources in Use Today



Existing Alternative Water Locations:

- Foothills Community Park
- Loma Linda Park
- Rio Paseo Park
- Reds Development Complex
- Guardians Development Complex
- Bullard Wash Park II



Foothill Community Park

- Location: 12795 S. Estrella Pkwy
- Size: 19 acres for phase I
- Amenity: Sport Fields
- Water Use: Estrella non – potable water



Loma Linda Park



- Location: at 400 E. Loma Linda Blvd
- Size: 5 acres
- Amenity: Open park space
- Water Use: Well water Avondale School District



Rio Paseo Park

- Location: 15200 W. Virginia Ave
- Size: approximately 14 acres
- Amenity: Waterfall pond
- Water Use: Liberty Utilities non-potable water





Reds & Guardians Development Complexes



- Located south of Yuma Road and east of Estrella Parkway
- Overall Ballpark site: approximately 105 acres
- Part of the Goodyear Ballpark development
- Water Use: PGA South remediated water, City of Goodyear potable and reclaimed water.



Bullard Wash Park II

- Located along 152nd Ave, from McDowell Rd. to Virginia Ave.
- Size: 31 acres
- Amenity: Walking and biking pathway
- Water Use: Liberty Utilities non-potable water





Expanding Non-Potable Water: Acreage Impact

Citywide irrigated acreage: approximately 395 acres (255 park acres + 140 Ballpark acres)

CURRENT

27%

of park acreage on non-potable water

68 of 255 park acres today

PROPOSED

~74%

of irrigated acreage after conversion

293 of 395 acres

Key Message: Expand non-potable water use where reliable sources are available, reducing reliance on potable water for irrigation. Approximately 370 acre-feet of annual demand shifts to non-potable sources.



Current Water Challenges



Current Challenges



Reliability



Availability



Cost



Current Challenges

Reliability:

- Disruptions in service due to inability to meet quality levels required
- High salinity levels (primarily an issue with reclaimed water)



Current Challenges

Availability:

- Distribution demands vs. production rates or inability to distribute due to circumstantial restrictions (holding and distribution infrastructure required)
- Increasing demand for limited potable water reserved for human consumption



Current Challenges

Cost:

- High cost of potable water
- One-time cost of infrastructure for alternative sources



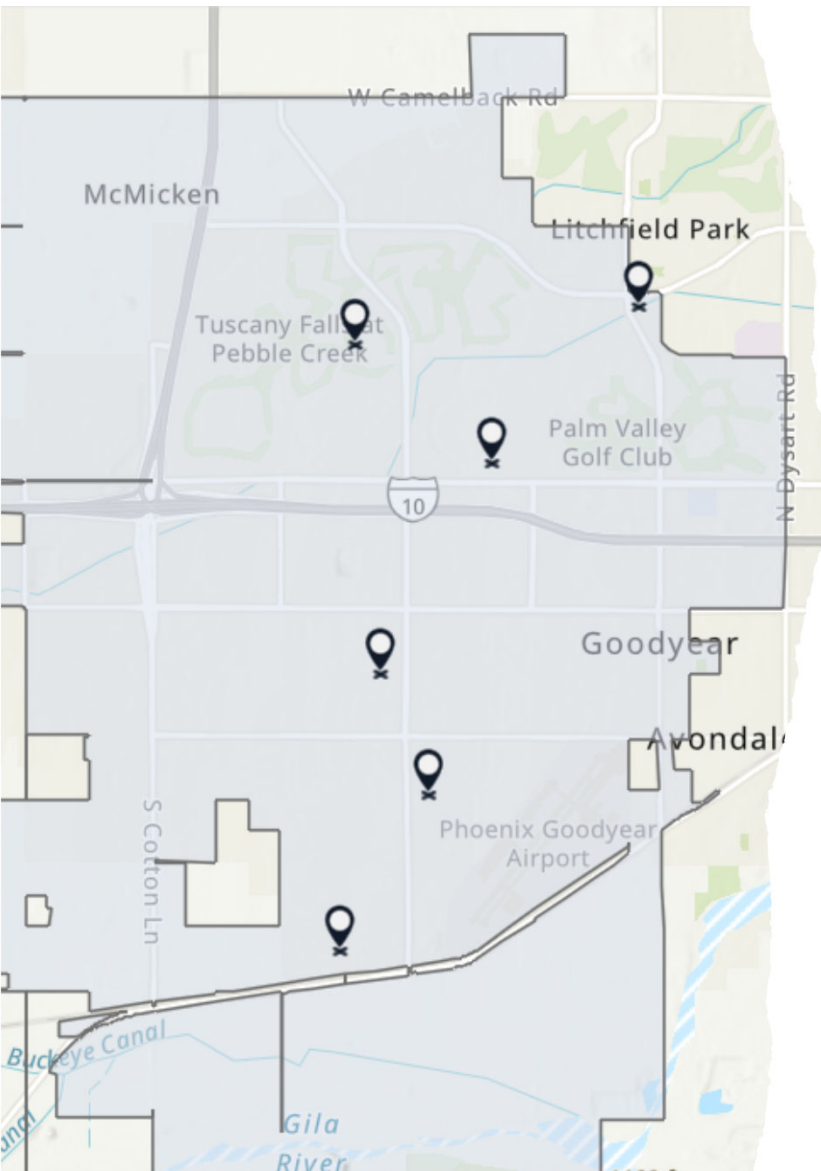
Future Opportunities



Future Opportunities

- Potential Roosevelt Irrigation District (RID) connections
- Potential city of Goodyear non-potable sources
- Potential PGA South





Opportunities:

- **Goodyear Community Park**
- **Goodyear Recreation Campus Phase I & II**
- **Rio Paseo Park**
- **Goodyear Ballpark**
- **Roscoe Dog Park**
- **Bullard Wash Park II**



Water Source Opportunities

Evaluation of candidate sites and supply options

Opportunities	Existing Water Source	Future Water Source	Location	Availability	Reliability	Lower Operational Cost
Goodyear Community Park	City of Goodyear potable water	RID	✓	✓	✓	
Goodyear Recreation Campus Phase I & II	City of Goodyear potable water	RID	✓	✓	✓	✓
Rio Paseo Park	Liberty Utilities Non-Potable Water	RID	✓	✓	✓	
Bullard Wash Park II	Liberty Utilities Non-Potable Water	RID	✓	✓	✓	
Roscoe Dog Park	City of Goodyear potable water	City of Goodyear non-potable water	✓	✓	✓	
Goodyear Ballpark	City of Goodyear potable water	PGA South	✓	✓	✓	✓



Cost Comparison



Water Source Cost Comparison

Potable and non-potable supply options with unit costs

Water Source	Cost per Acre-Foot	Comments
POTABLE SOURCES		
Potable Water	Up to \$2,900	Highest unit cost; treated municipal drinking water supply
NON-POTABLE SOURCES		
PGA South	No Cost	No-cost supply; lowest-cost option where location allows
Avondale Elementary District	\$57	Very low cost; availability tied to district agreement
Liberty Utilities – Effluent	\$430	Reclaimed effluent; moderate cost, not reliable supply
Estrella Non-Potable	\$1,140	Higher-cost non-potable option
RID Water	\$1,466	Highest-cost non-potable source; location serves park site within close proximity



Next Steps



Next Steps

Parks & Recreation Opportunities

Prioritize: Identify existing parks with opportunities for non-potable water sources as well as parks within the capital improvement program.

Coordinate: Partner with Water Resources and other utilities to confirm availability, infrastructure, and reliability.

Implement: Include non-potable water options in future park projects, renovations, and irrigation improvements.



Goodyear Recreation Campus



Questions?