



# Proposal to Update Water Conservation Incentives for Glendale Water Customers

Glendale Water Services – September 27, 2022





# Presentation Overview

---

- Today's workshop will provide information on changes to the existing rebate and creating new rebates.
- We are seeking Council consensus on:

## **CHANGES TO EXISTING REBATE**

- Increase rebate amount for residential and non-residential customers
- Discontinue rebate for landscape water budget
- Include artificial turf

## **CREATE NEW REBATES**

- High-Efficiency Toilet
- High-Efficiency Clothes Washer
- Smart Irrigation Controller
- Pool/Spa Removal
- Cooling Tower Water Management Technology



# Landscape Rebate History

---

- 1986 – Council approved a \$100 landscape rebate for residential customers
- 2005 – Council approved updates to the landscape rebate:
  1. Increased rebate amount for residential customers (existing homes and new homes)
  2. Created a new rebate for non-residential customers
- Over 5,600 residential and 55 non-residential customers have participated in the landscape rebate



# Current Landscape Rebate Dollar Amount

<b>RESIDENTIAL (EXISTING HOMES)</b>	<b>RESIDENTIAL (NEW HOMES)</b>	<b>NON-RESIDENTIAL</b>
<p data-bbox="295 596 698 665">\$150 to \$750</p> <ul data-bbox="122 782 759 1196" style="list-style-type: none"><li data-bbox="122 782 759 1196">• Tiered rate dependent on the amount of grass converted to xeriscape</li></ul>	<p data-bbox="1212 596 1360 665">\$200</p> <ul data-bbox="912 782 1656 925" style="list-style-type: none"><li data-bbox="912 782 1656 925">• Flat rate for xeriscape installation</li></ul>	<p data-bbox="1880 596 2277 665">Up to \$3,000</p> <ul data-bbox="1702 782 2446 1196" style="list-style-type: none"><li data-bbox="1702 782 2446 1025">• \$150 per every 1,000 square feet of grass converted to xeriscape</li><li data-bbox="1702 1039 2446 1196">• \$1,500 for landscape water budget</li></ul>



# Current Landscape Rebate Overview

---

- Landscape rebate funds are \$50,000 per fiscal year
- Landscape rebate requirements:
  - Glendale water customer
  - Grass was converted to xeriscape in the past 12 months
  - 75% of new plants must be low-water-use
  - Artificial turf, bare soil, and impermeable surfaces don't qualify

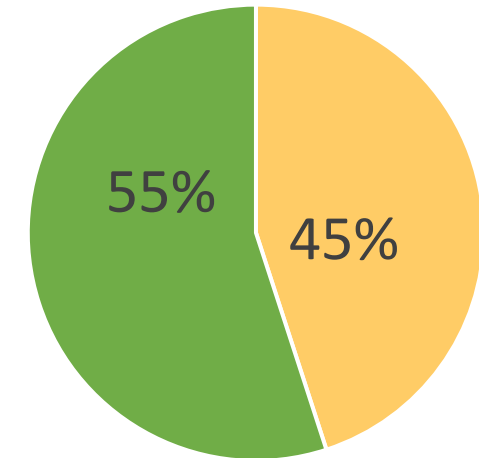
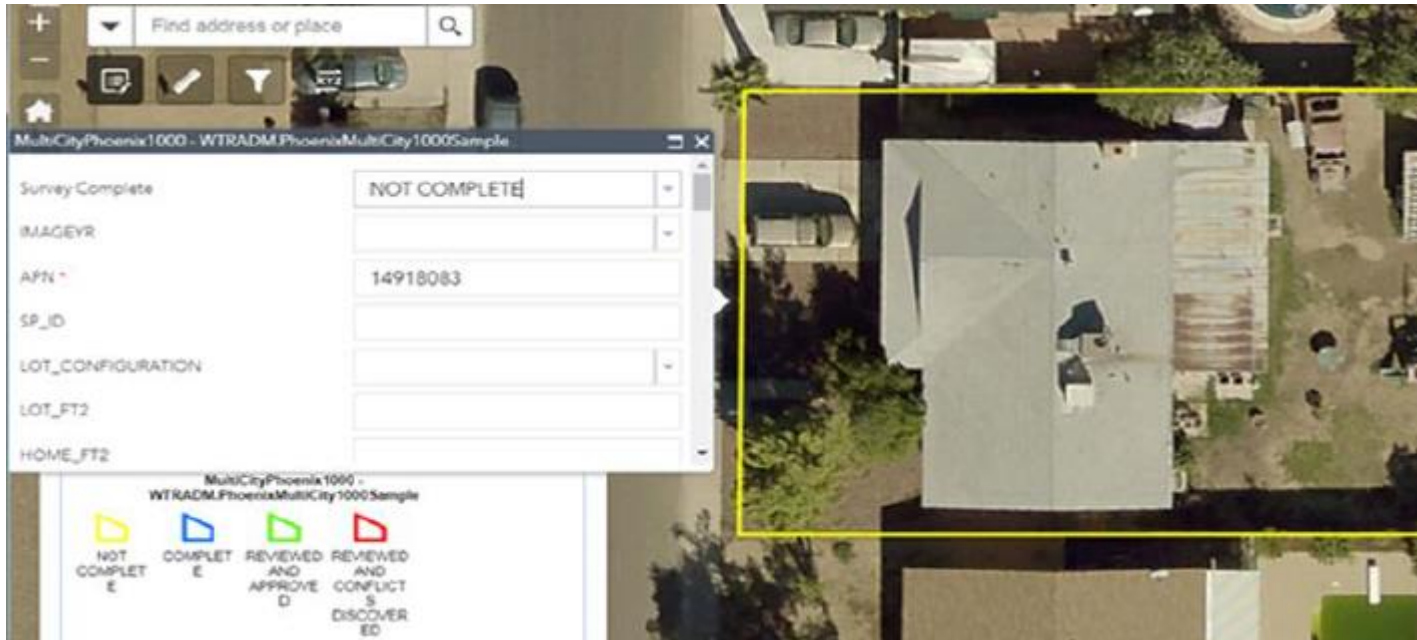


# Historical Landscape Rebate Data

Fiscal Year	Total Participants	Grass Conversion (square feet)	Rebate Dollars
FY18	112	211,163	\$39,327
FY19	76	122,487	\$25,122
FY20	57	98,309	\$18,241
FY21	62	101,337	\$19,782
FY22	67	121,881	\$23,783



# Quantification of Grass Lawns in Glendale



- No Grass
- Some Grass

Data: Phoenix Metropolitan Area Multi-City Water Use Study



# Proposed Change to Landscape Rebate for Residential (Existing Home)

1. Change rebate funding from tiers to \$0.50 per square foot of grass converted to xeriscape
2. Increase rebate cap from \$750 to \$2,250

Grass Conversion (square feet)	Existing Rebate	Proposed Rebate
500 - 1,500	\$150	\$250 - \$750
1,501 - 2,500	\$300	\$750.50 - \$1,250
2,501 - 3,500	\$450	\$1,250.50 - \$1,750
3,501 - 4,500	\$600	\$1,750.50 - \$2,250
4,501+	\$750	Cap at \$2,250



## Proposed Changes to Landscape Rebate (Non-Residential)

1. Change rebate funding from flat rate to \$0.50 per square foot of grass converted to xeriscape.
2. Discontinue \$1,500 for landscape water budget since this is already a requirement to receive the rebate.
3. Increase rebate cap from \$3,000 to \$5,000

Grass Conversion (square feet)	Existing Rebate	Proposed Rebate
1,000	\$150	\$500



## Proposed Change to Include Artificial Turf in the Landscape Rebate

---

- \$0.25 per square foot of grass converted to artificial turf (maximum of 1,000 square foot for Residential and Non-Residential).



# New Rebate - High-Efficiency Toilet\*

WaterSense Certified Toilet - flushes no more than 1.28 gallons

➤ Residential (Single-family)

- \$100 per toilet

➤ Residential (Multi-family)

- \$100 per toilet

➤ Non-Residential

- \$100 per toilet



\*Estimated water savings of 13,000 gallons/year.





# New Rebate - High-Efficiency Clothes Washer\*

EnergyStar Labeled Clothes Washer

- Residential (Single-family)
  - \$200 per washer



\*Estimated water savings of 5,000 gallons/year.



# New Rebate – Smart Irrigation Controller\*

WaterSense Certified Weather-based Irrigation Controller

➤ Residential

- \$150 per controller

➤ Non-Residential – currently piloting this technology through a U.S. Bureau of Reclamation grant, which expires at the end of CY2023.



\*Estimated water savings of 15,000 gallons/year.



# New Rebate – Pool/Spa Removal

## Pool/Spa Removal

- Residential - \$1.00 per square foot of water surface area converted to a desert landscape.



\*Estimated water savings of 25,000 gallons/year.



# New Rebate – Cooling Tower Water Management Technology

Upgrades to existing cooling towers to provide better water management practices and installation of water-saving technologies

➤ Non-Residential, Up to \$1,000

- Remote read controllers
- Water monitoring and leak detection hardware
- Conductivity controllers
- Sub-meters



\*15-20% estimated water savings.



# Proposed Water Conservation Rebate Budget

REBATE	RESIDENTIAL	NON-RESIDENTIAL	TOTAL
Landscape	\$55,000	\$15,000	\$70,000
High-Efficiency Toilet	\$10,000	\$10,000	\$20,000
High-Efficiency Clothes Washer	\$10,000		\$10,000
Smart Irrigation Controller	\$6,250	Pilot Testing	\$6,250
Pool/Spa Removal	\$2,500		\$2,500
Cooling Tower Water Management Technology		\$5,000	\$5,000
			<b>\$113,750</b>



## Rebate Scenario for a Residential Customer

REBATE	TOTAL
Landscape Rebate (1,000 sq. ft. of grass converted to xeriscape)	\$500
2 High-Efficiency Toilets	\$200
1 High-Efficiency Clothes Washer	\$200
1 Smart Irrigation Controller	\$150
1 Pool Removal (450 sq. ft. of pool converted to xeriscape)	\$450
	<b>\$1,500</b>



# Items for Consensus

---

## 1. Changes to Existing Landscape Rebate

- a. Increase rebate amount (\$0.50 per square foot for xeriscape and \$0.25 per square foot for artificial turf) for residential and non-residential customers
- b. Discontinue rebate for landscape water budget
- c. Include artificial turf

## 2. Create New Rebates

- a. High-Efficiency Toilet
- b. High-Efficiency Clothes Washer
- c. Smart Irrigation Controller
- d. Pool/Spa Removal
- e. Cooling Tower Water Management and Efficiency Technology



# Questions

