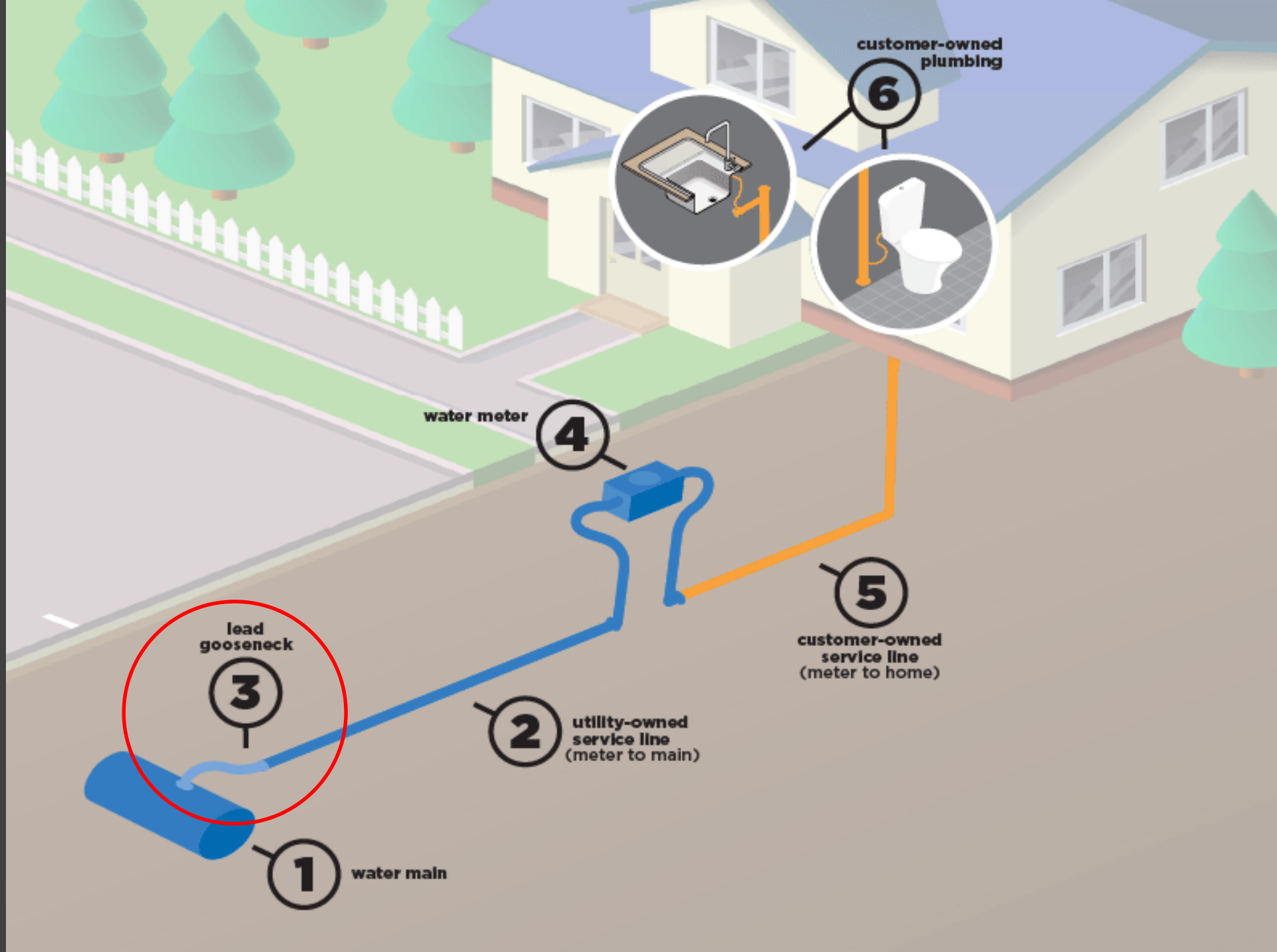


LEAD GOOSENECK REPLACEMENT PROJECT

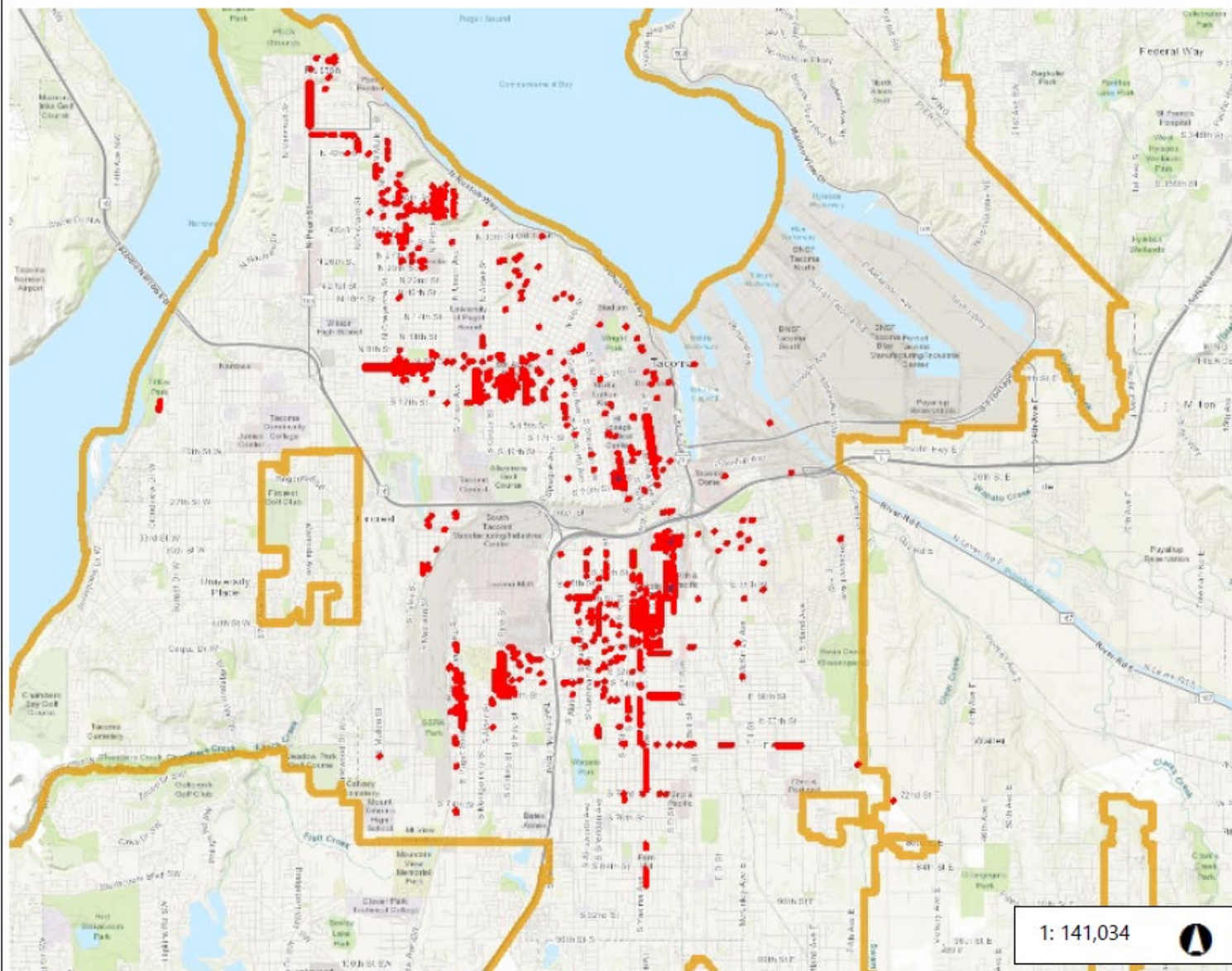
JONATHAN SCHLAUDRAFF
SYSTEM PLANNING

NOVEMBER 2019



PROJECT OBJECTIVES

- A. Replace all lead goosenecks within 5-years**
 - Distributed evenly through time
- B. Complete work in a geographically equitable manner**
- C. Provide relevant regular communication**
- D. Tactically coordinate and plan service replacements**
 - City Pavement Restoration Policy
 - Pavement condition
 - Project coordination
- E. Minimize disruptions to staffing levels and planned work**



23,505.7 0 11,752.84 23,505.7 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere
Tacoma Water Maps

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION



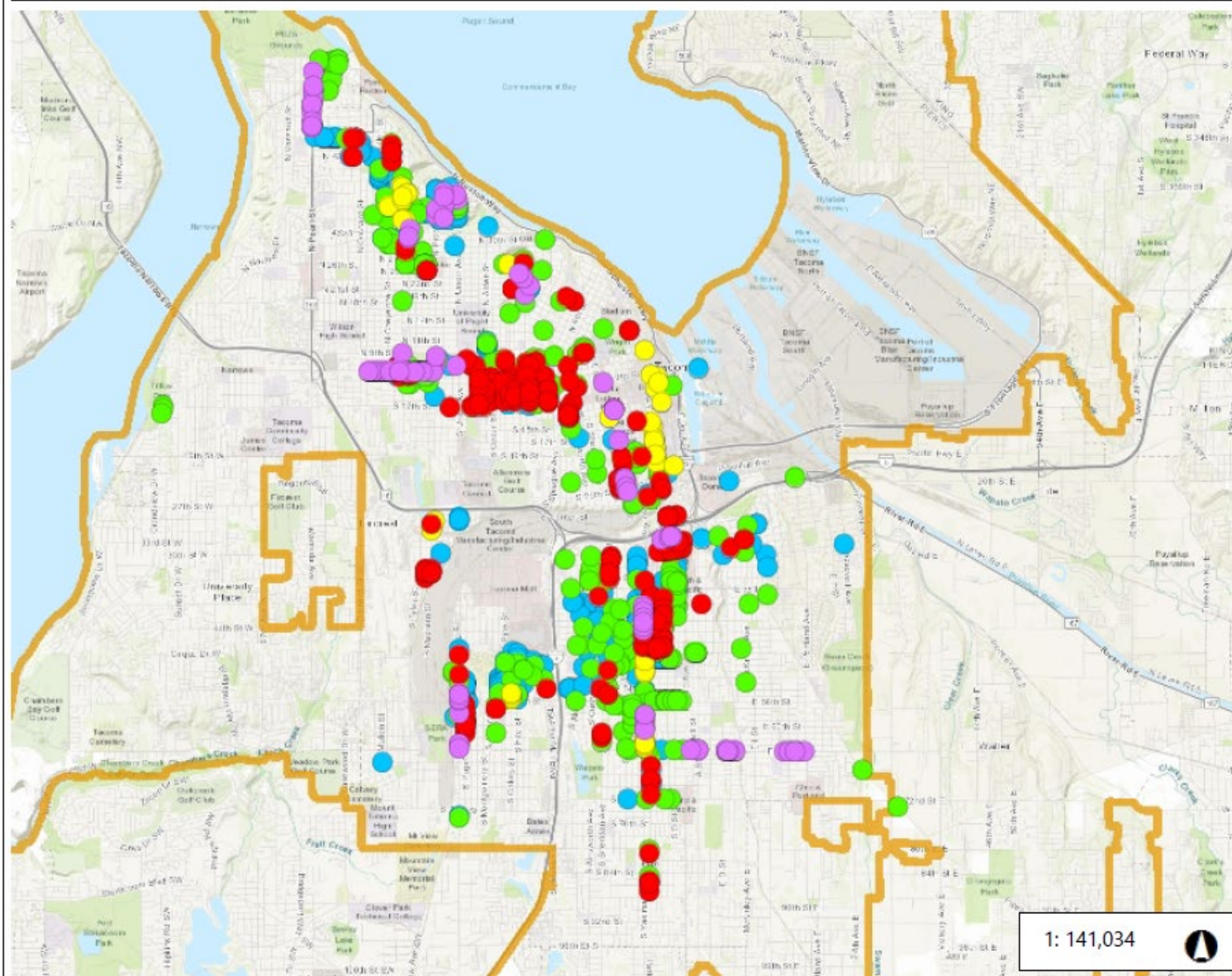
Legend

- Gooseneck Project Areas
- Service Area

1: 141,034



Notes



Legend

- Potential Lead Gooseneck
- Renewed- Lead Gooseneck Fc
- In Process
- Confirmed No Lead Gooseneck
- Renewed- No Lead Gooseneck
- ⊕ Retired- No Lead Gooseneck F
- Service Area

1: 141,034



Notes

23,505.7 0 11,752.84 23,505.7 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere
Tacoma Water Maps

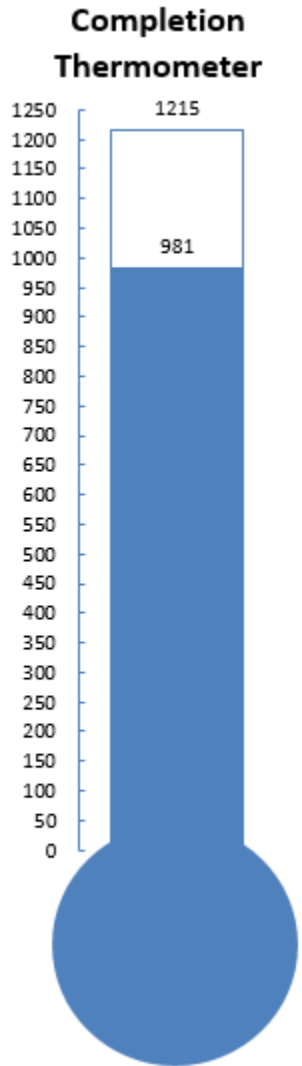
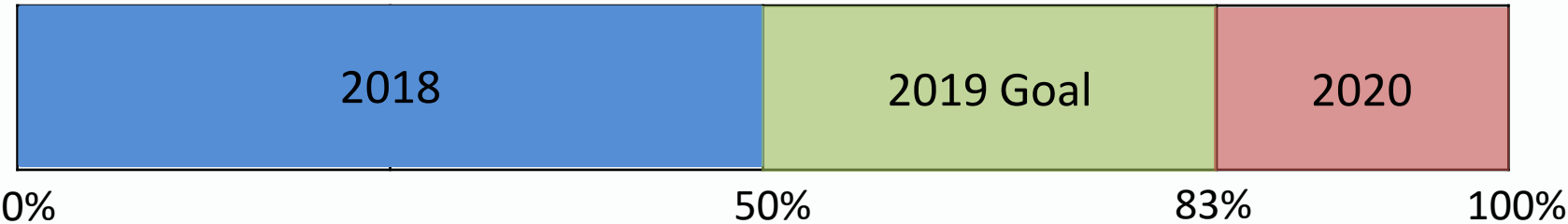
This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

PROGRESS

81% COMPLETE

981 RESOLVED OUT OF 1,215 IDENTIFIED



COMMUNICATION AND COORDINATION

ALL CUSTOMERS

- **Public Utility Board Update (annually)**
- **Community Council Update (annually)**

TARGETED LIST OF 1,215 CUSTOMERS WHO MIGHT HAVE A GOOSENECK CONNECTION

- **Direct Mail Letter**

PROJECT COORDINATION

- **Public Works Department**
- **Environmental Services Department**
- **17 Projects Identified (2018, 2019, 2020)**

MORE INFORMATION

WEBSITE

TacomaWater.com/Lead

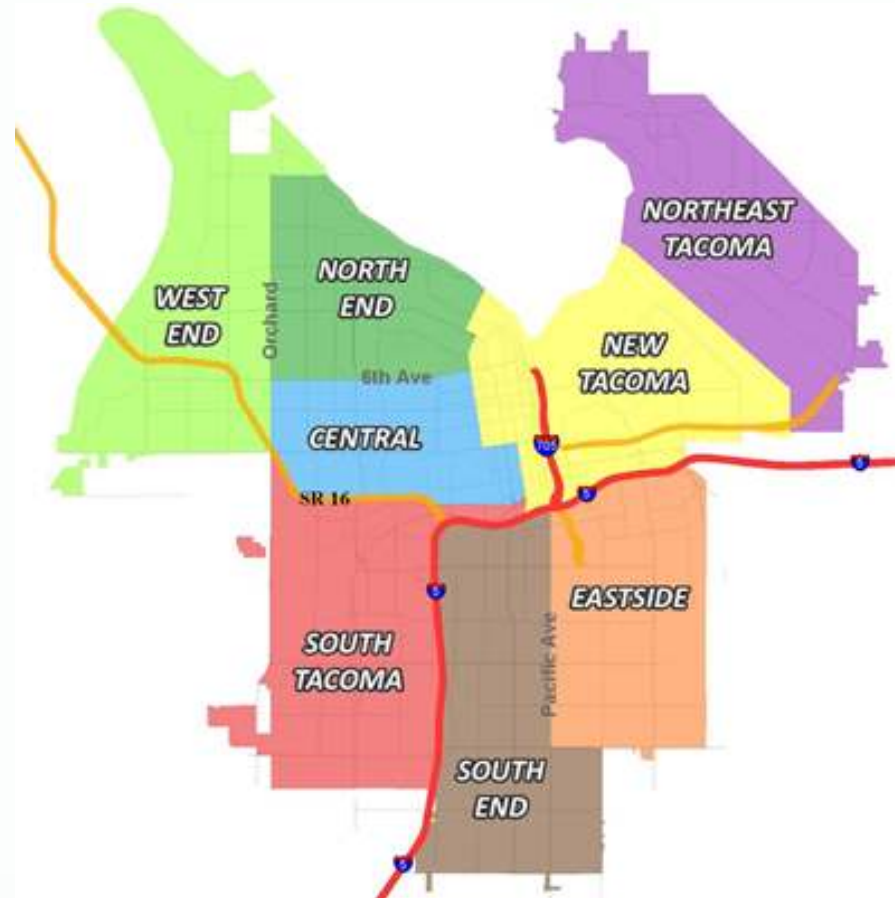
EMAIL

WaterQuality@cityoftacoma.org

SUPPLEMENTAL INFORMATION

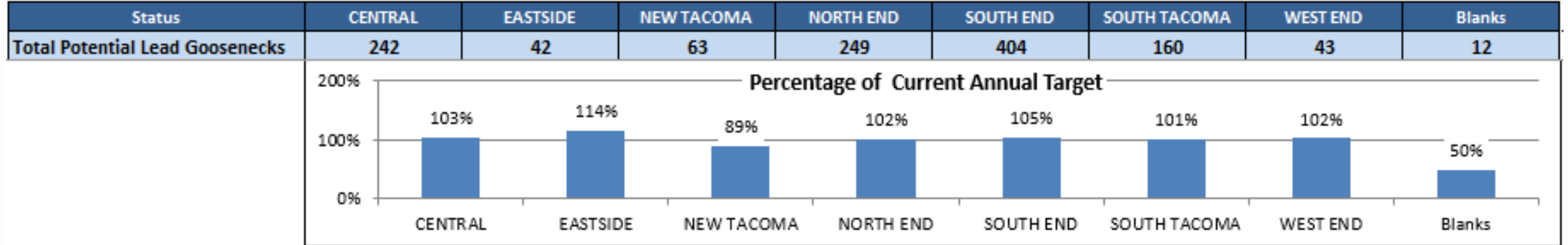
REPLACEMENT STRATEGY

- **EVENLY DISTRIBUTED THROUGH TIME**
- **EQUITABLY DISTRIBUTED GEOGRAPHICALLY (8 NEIGHBORHOOD DISTRICTS)**
- **PROJECT BLOCKS:**
 - **City Pavement Restoration Policy**
 - **Pavement Condition**
 - **Project Coordination**

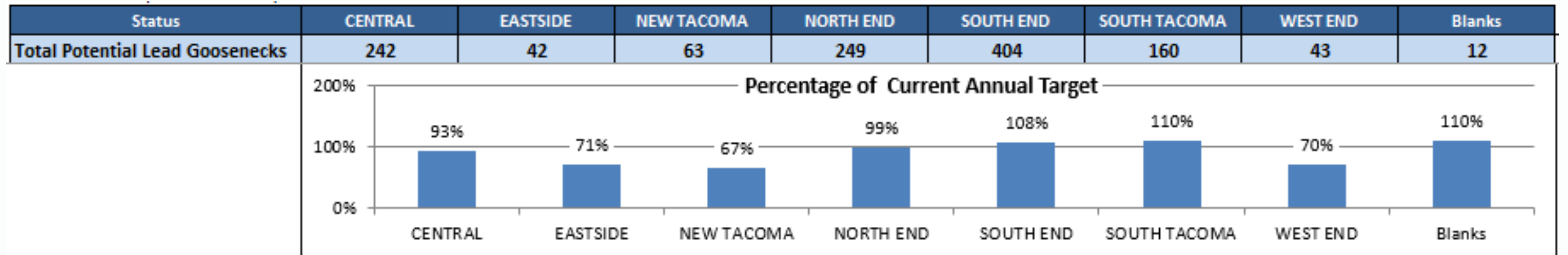


REPLACEMENTS BY YEAR AND NEIGHBORHOOD

REPLACEMENTS IN 2018



REPLACEMENTS IN 2019

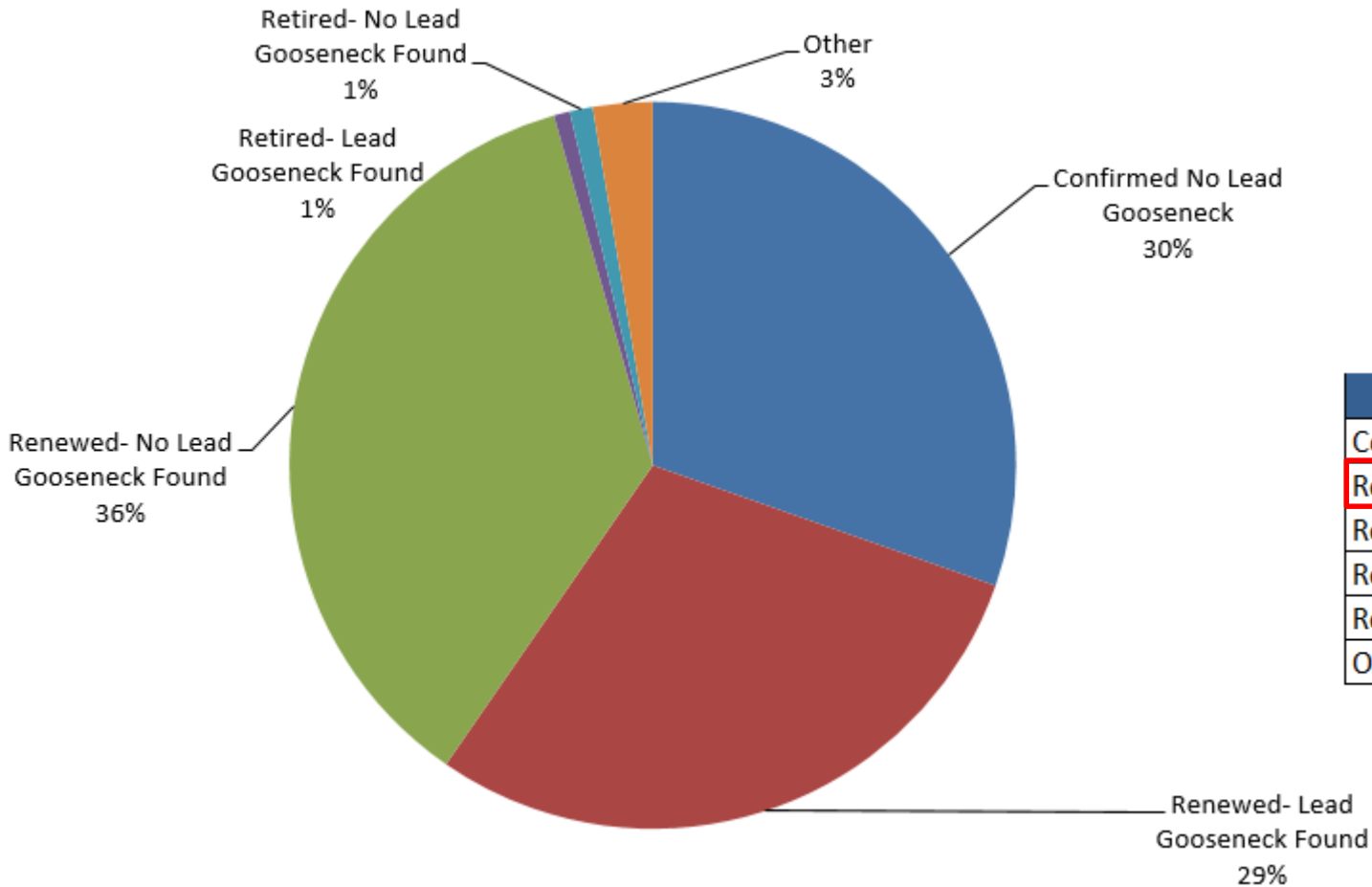


PROJECT COST SUMMARY

- **ORIGINAL PROJECT BUDGET: \$9.9M**
- **CURRENT PROJECT BUDGET: \$8.8M**
 - **Savings due to:**
 - Service pipes not requiring replacement
 - Project coordination
- **SPENT TO DATE: \$3.3M**
 - **981 total potential goosenecks resolved**
 - 640 services replaced (65% of total)
 - 294 lead goosenecks found and removed (30% of total)

NOVEMBER 2018

Breakdown of Resolved Goosenecks



Breakdown of Resolved Goosenecks	Quantity	Percent
Confirmed No Lead Gooseneck	298	30%
Renewed- Lead Gooseneck Found	287	29%
Renewed- No Lead Gooseneck Found	353	36%
Retired- Lead Gooseneck Found	7	1%
Retired- No Lead Gooseneck Found	10	1%
Other	26	3%
Total	981	100%

TACOMA'S WATER IS SAFE

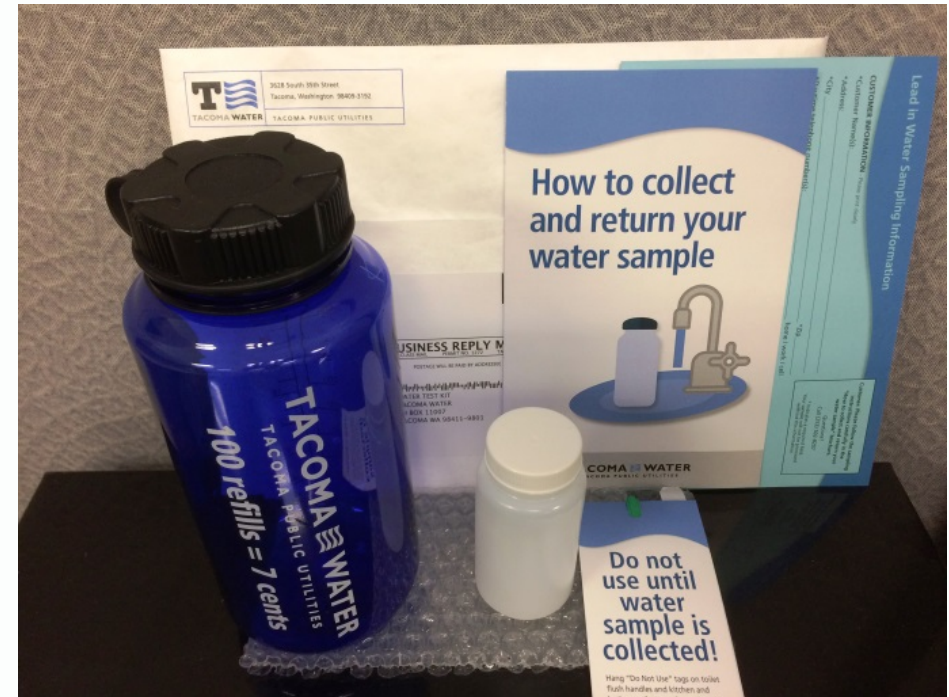
FREE CUSTOMER LEAD TEST KITS

LEAD TEST KIT WATER SAMPLING RESULTS

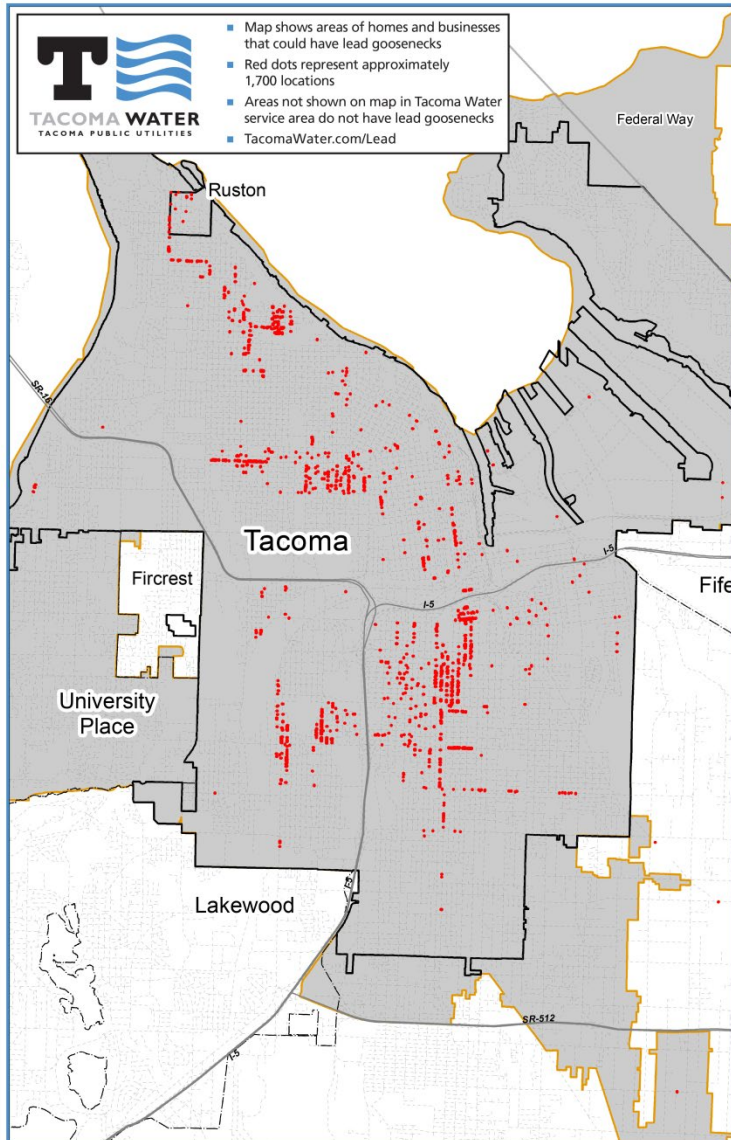
- 1,289 test kits mailed
- 638 test kits returned
- 90.0% of samples contained less than 1.1 parts per billion (ppb) of lead
- 99.7% less than 15 ppb (EPA action level is 15 ppb)

REQUEST A KIT:

TacomaWater.com/TestKit



POTENTIAL GOOSENECK SELECTION PROCESS



POTENTIAL LEAD GOOSENECK LOCATIONS (TACOMA'S CRITERIA)

Services that were:

- **2-inches or smaller AND**
- **Classified in records as “galvanized”, “unknown”, or “blank” AND**
- **Installed earlier than 1940 AND**
- **Installed on mains that were older than 1940 AND**
- **Where no service renewal had occurred beyond this timeframe**

Note: Dates prior to 1940 selected to allow 10 years beyond oldest known lead gooseneck installation in Tacoma (1929)

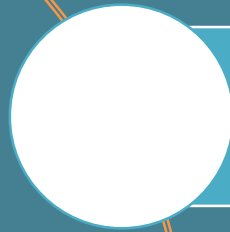
A photograph of a waterfront city scene. In the foreground, a wooden pier with several white boats is visible. In the background, a dense urban skyline features various modern buildings, including a prominent white, curved structure on the left and a tall, white, rectangular building on the right. The sky is clear and blue.

Serving our customers

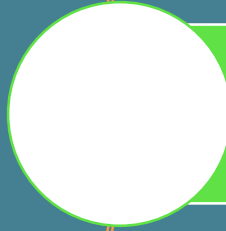
Customer Energy Programs: 2020-2021 Program Plan

Steve Bicker

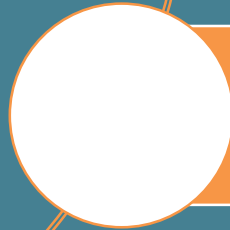
We plan our portfolio using three guiding principles:



Programs must be cost effective



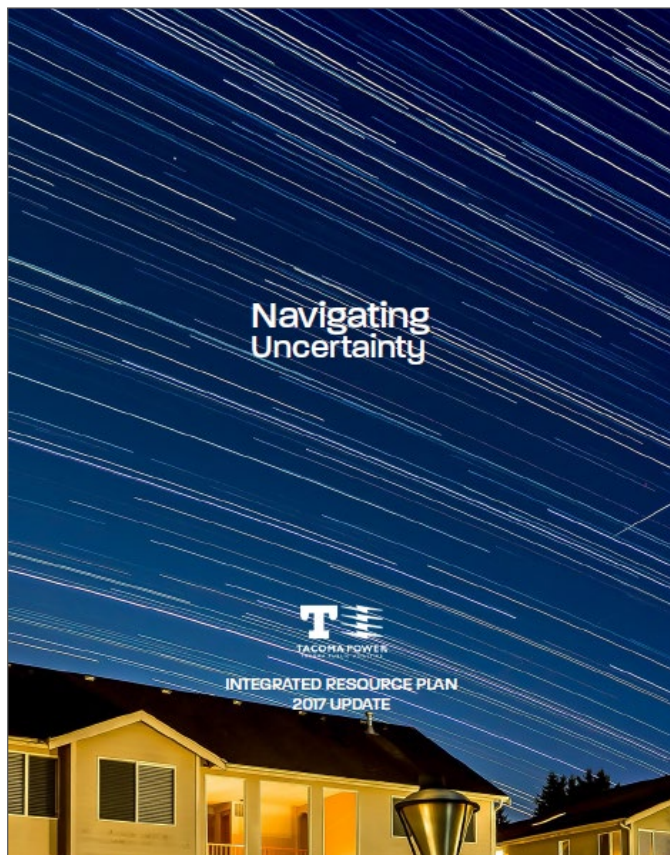
Programs must benefit customers



Program offers must be equitable



Programs must be cost effective



Most people know conservation is a utility's greenest resource.

It's also Tacoma Power's least expensive resource.

Cost effective conservation is also required by Washington's Energy Independence Act.

Programs must benefits customers

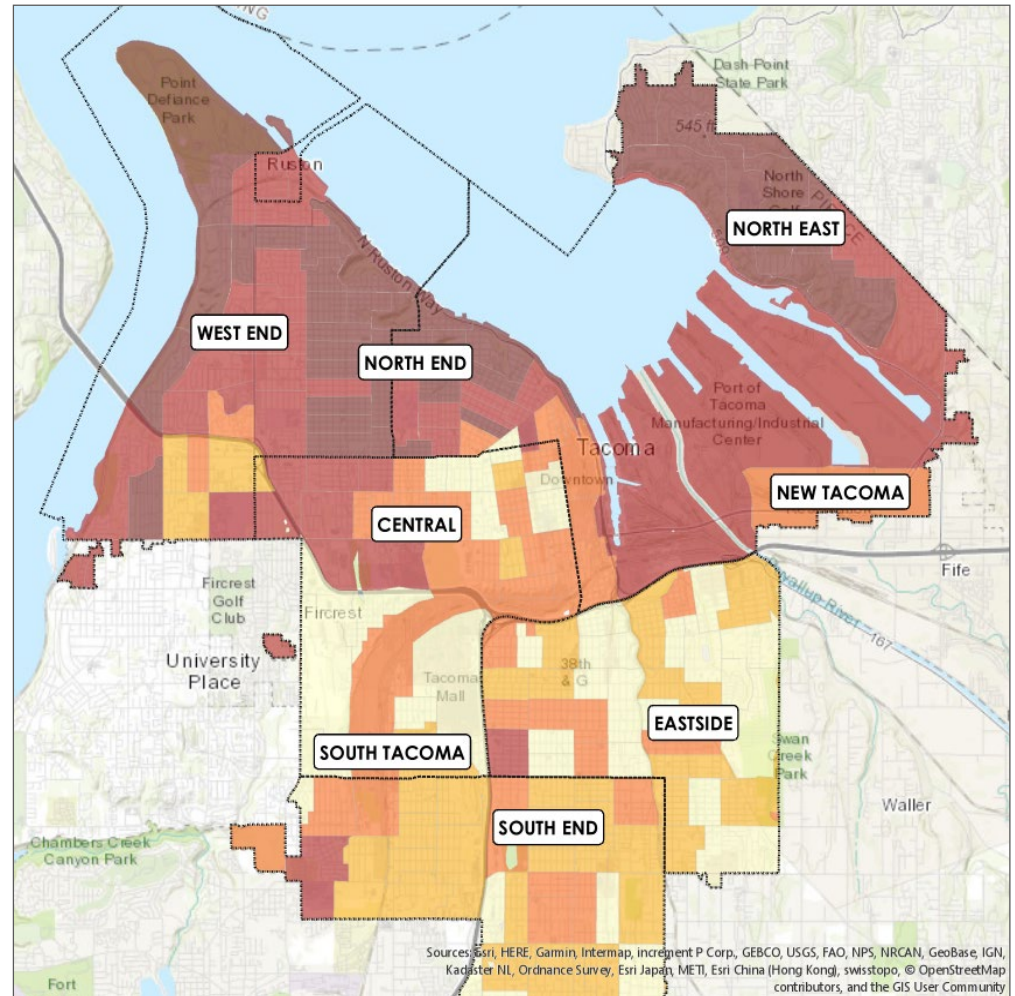
Participation must be a positive experience in every way possible.



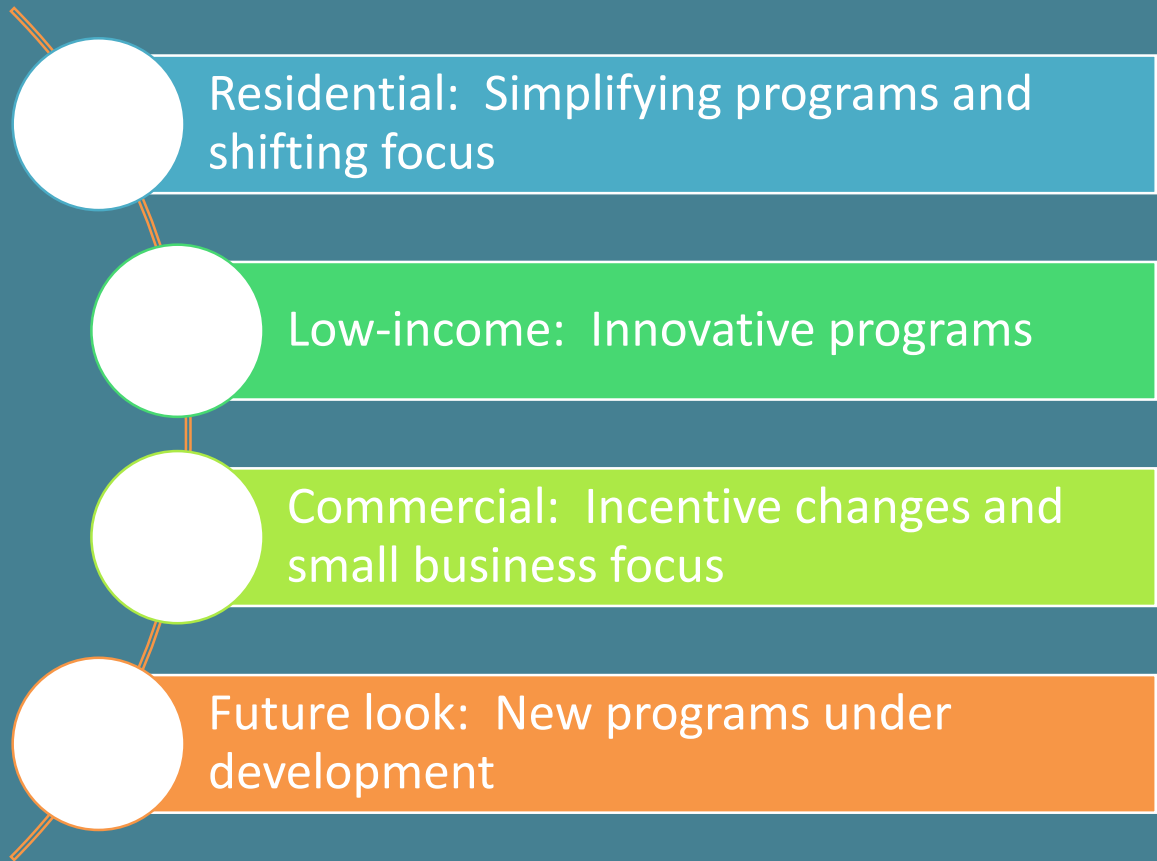
Program offers must be equitable

All customers pay for programs in rates.

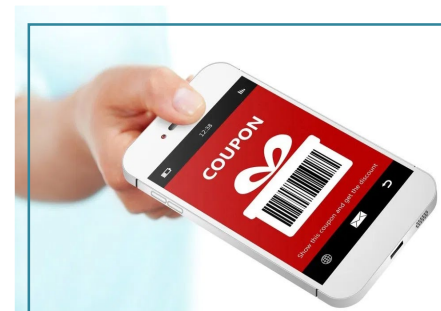
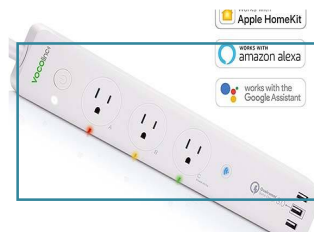
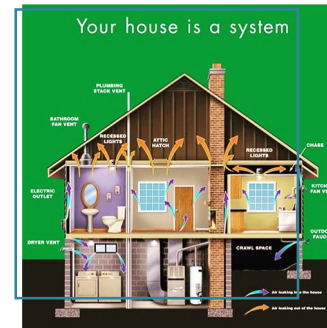
All customers have access to programs.



Changes for 2020-2021 Energy Programs Offers



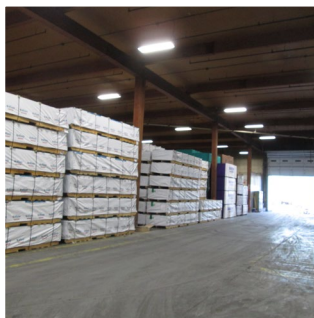
Shifting residential focus



Innovative low-income programs



Focus on small businesses



New lighting
incentives

Small business
focus



Higher HVAC
incentives

Future look: New programs under development

Digital
Engagement



Demand
Response



Electrification



Thank you

Steve Bicker

Assistant Power Manager / Customer Energy Programs

sbicker@cityoftacoma.org

