NORTH TAHOE PUBLIC UTILITY DISTRICT
Board of Directors Special Meeting Agenda

Location: North Tahoe Event Center
8318 North Lake Boulevard, Kings Beach, CA

Friday, May 1, 2026, 12:00 P.M.

Welcome to a special meeting of the North Tahoe Public Utility District Board of Directors.

The District welcomes you to its meetings. Your opinions and suggestions are encouraged. With a few exceptions, all meetings are recorded and available online after the meeting has concluded. The meeting is accessible to people with disabilities. In compliance with Section 202 of the Americans with Disabilities Act of 1990 and in compliance with the Ralph M. Brown Act, anyone requiring reasonable accommodation to participate in the meeting should contact the North Tahoe Public Utility District office at (530) 546-4212, at least two days prior to the meeting.

In addition, all written public comments received by 11:00 a.m. on May 1, 2026, will be distributed to the District Board Members for their consideration, and all written comments will be included in the minutes. Pictures, graphics, or other non-written comments may be included in the minutes at the discretion of the Board of Directors. Written comments may be emailed to mmoga@ntpud.org, mailed or dropped-off at NTPUD's Administrative Offices located at 875 National Ave., Tahoe Vista, CA. 96148.

The Board of Directors may take action upon any item listed on the agenda at any time during the meeting. Scheduled items will be heard at or after the time noted, but the Directors may interrupt or defer discussion in order to deal with other matters. No action will be taken at the meeting on any business not appearing on the posted agenda except as permitted by Government Code Section 54954.2.

A. OPEN SESSION

B. PUBLIC COMMENT AND QUESTIONS (12:00 P.M.): *Any person wishing to address the Board of Directors on Items of interest to the District not listed elsewhere on the agenda may do so at this time. Please limit comments and questions to three (3) minutes since no action can be taken on items presented under Public Comment.*

C. GENERAL BUSINESS

1. Review, Discuss, and Provide Direction to Staff Regarding the District's Baseline Greenhouse Gas Emission Inventory *(Pages 2-31)*
2. CAPITAL IMPROVEMENT PROGRAM PROJECT WORKSHOP – NTPUD Watermain Capital Improvement Program Presentation and Discussion (*Pages 32-56)*
3. CAPITAL IMPROVEMENT PROGRAM PROJECT WORKSHOP – Review and Discussion of Draft Fiscal Year 2026/2027 Capital Improvement Program 5-year Plan (*Pages 57-73)*
4. Authorize the General Manager to Execute a Purchase Order for the Procurement of Information Technology Server and Network Equipment (*Pages 72-74)*

D. ADJOURNMENT

NORTH TAHOE
PUBLIC UTILITY DISTRICT

DATE: May 1, 2026 **ITEM:** C-1

FROM: Government and Community Affairs Manager

SUBJECT: Review, Discuss, and Provide Direction to Staff Regarding the District's Baseline Greenhouse Gas Emission Inventory

RECOMMENDATION:

The Board of Directors receives and discusses a presentation on the District's baseline Greenhouse Gas (GHG) Emission Inventory study and provides direction to staff regarding next steps.

DISCUSSION:

Background:

As part of the District's Five-Year Strategic Plan, the Board identified climate resilience and emergency preparedness as priorities across all service sectors. The Board and staff also identified Objectives and Tactics to:

1) Actively address emergency preparedness and climate resilience and adaptation in District operations;
2) Evaluate participation in the North Tahoe-Truckee Climate Transformation Alliance (CTA); and
3) Leverage CTA partnerships to evaluate carbon reduction opportunities and pursue supportive grant funding.

In January 2023, the Board approved joining the CTA. Participation in the CTA has provided the District with access to shared technical resources, regional coordination opportunities, and increased awareness of funding opportunities to advance climate resilience and mitigation objectives. As a CTA member, District staff began discussions with regional partners regarding the value of conducting a greenhouse gas (GHG) emissions inventory to establish a baseline of District operational emissions, support informed decision-making, and align with emerging State goals and requirements.

In May 2024, District staff worked with Tahoe City Public Utility District (TCPUD) staff to secure a grant from the California Tahoe Conservancy (CTC) in the amount of $81,000 to support the development of the GHG emissions inventory. Given the similar operational profiles of each district, CTC determined that a regional approach was appropriate and aligns with CTC's strategic goals. The Districts' General Managers executed a Project Cooperation Agreement with support from NTPUD General Counsel, with TCPUD acting as the lead agency for the grant.

In July 2024, TCPUD and NTPUD executed a professional services agreement with Sierra Business Council (SBC) to prepare the Districts' initial greenhouse gas emissions inventories and associated analysis using methodologies consistent with the Local Government Operations Protocol (LGOP), International Council for Local Environmental Initiatives (ICLEI) ClearPath, and reporting guidelines established by The Climate Registry.

- The Climate Registry (TCR) is a nonprofit that ensures consistency across all public agency and utility GHG reporting. TCR provides the "accounting" framework and reporting system to ensure GHG inventories are correct and consistent with industry best practices and California regulatory standards. TCR provides third-party data verification oversight and includes over 430 members across North America.
- In the Water/Wastewater industry category, TCR members include organizations such as the Metropolitan Water District of Southern California, Sonoma Water, City of Sacramento Department of Utilities, and the California Department of Water Resources.
- Additionally, input of the District's baseline GHG emission data into TCR's Water-Energy Nexus Registry allows the District to track and compare our verified emissions per unit of water delivered with other participating water districts and water providers.

In December 2025, the District executed a Letter of Agreement for Professional Consulting Services with Cameron-Cole, LLC to complete third-party verification of NTPUD's baseline GHG emissions inventory in accordance with The Climate Registry and the Water-Energy Nexus Registry protocols. Cameron-Cole is an accredited greenhouse gas verification body recognized by the California Air Resources Board (CARB) and has verified more than 1,000 GHG inventories nationwide.

Project:

This project included development of the District's 2023 baseline operational GHG inventory, including emissions associated with water delivery and treatment, wastewater transport, facilities, fleet operations, employee commute, and related operational activities, including Recreation & Parks and the North Tahoe Event Center.

The inventory identified total 2023 operational emissions of approximately 1,025 metric tons of carbon dioxide equivalent (MT CO2e), with electricity use for water delivery, wastewater transport, and facilities representing the District's largest emissions sources.

The project also included an evaluation of preliminary Climate Action Measures intended to help inform future Board discussion regarding potential emissions reduction opportunities, capital planning considerations, and operational efficiencies that could be pursued.

As part of the grant deliverables, SBC will finalize the NTPUD GHG Emissions Inventory Report, including an executive summary and infographic summarizing regional results for NTPUD and TCPUD.

Following the Board presentation, staff and SBC will incorporate final comments and submit the completed reports to the California Tahoe Conservancy to allow grant close-out and final reimbursement.

FISCAL ANALYSIS:

This project was funded through an $81,000 grant from the California Tahoe Conservancy, with District staff time and the third-party data verification provided by the District serving as a grant match.

STRATEGIC PLAN ALIGNMENT:

Goal 1: Provide safe, efficient, sustainable water and wastewater services focusing on industry best practices and continuous improvement – Objective D: Prioritize Capital Project planning and delivery toward uniform service using industry standards, asset condition data, and a focus on climate resilience and emergency preparedness.

Goal 3: Sustain and strengthen organizational resources, expertise, and culture – Objective G: Actively address emergency preparedness and climate resilience and adaptation in District operations – Tactic 4: Evaluate and consider participation and active engagement with the North Tahoe-Truckee Climate Transformation Alliance (CTA) – Activity a: Leverage CTA to evaluate and implement District energy, carbon footprint, sustainability, and other climate mitigation opportunities; and – Activity b: Leverage CTA to pursue supportive grant funding for related activities.

ATTACHMENTS:

- NTPUD Greenhouse Gas Inventory 2023 Baseline Presentation

REVIEW TRACKING:

Submitted By: _____
Justin Broglio
Government and Community Affairs Manager

Approved By: _____
Bradley A. Johnson, P.E.
General Manager/CEO

North Tahoe PUD Greenhouse Gas Inventory 2023 Baseline

Prepared by:
Sierra Business Council

Presented: May 1, 2026

What is the study about?

What is a greenhouse gas (GHG)?

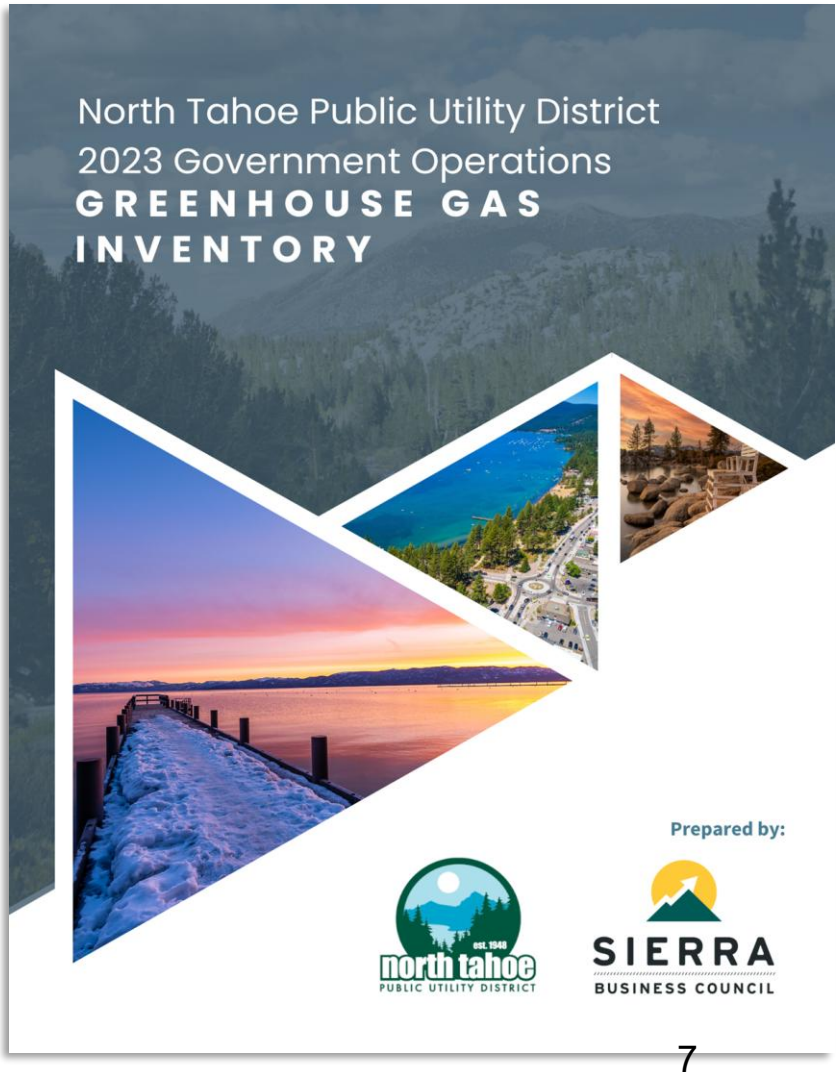
- A GHG is a gas in the air that holds heat in, like a blanket around the Earth.
- We create these gases when we use electricity and burn fossil fuels.

What is a GHG Inventory?

- A GHG Inventory measures the output of these three primary gasses across common business and industry sectors such as transportation, stationary energy (residential, commercial, and industrial), and solid waste.
- For common and accurate measurement, a GHG Inventory converts all greenhouse gas emissions into a **Carbon Dioxide equivalent (CO2e).**

Why are we doing this?

- To understand our climate impact and where our GHG emissions are coming from.
- To set a baseline year for future measurements and decision making.
- To help us make informed decisions about our operations and our impact.
- Local, State, Federal programs increasingly require this data, and it is valuable for grants and industry compliance.
- Inform future actions that could help to improve air quality and health in the Tahoe Basin.



How are we paying for it?

2024 – California Tahoe Conservancy Grant

- TCPUD and NTPUD
- Grant Timeline: August 2024 - May 2026
- Grant Budget: $81,000

PROJECT GOALS

- ✓ Develop first-ever greenhouse gas inventories for TCPUD & NTPUD operations for the calendar year 2023.
- ✓ Understand the Districts' operational carbon footprint (GHG Emissions) to inform future decision making.
- ✓ Identify opportunities to reduce measured emissions and measure progress toward local, regional, state, and federal carbon reduction goals.

Inventory Measurement Partners

DATA

Sierra Business Council

- Local nonprofit organization.
- Developed more than 30 greenhouse gas (GHG) emissions inventories for Sierra Nevada communities and agencies like: Nevada County, Mariposa County, Tahoe Truckee Unified School District.
- **Longtime agency partner with knowledge of TCPUD and NTPUD operations.**

VERIFICATION

Cameron Cole

- Environmental and regulatory compliance firm.
- **Accredited GHG emission verification body by the California Air Resources Board (CARB).**
- Verify data to ISO 14064-3 required by California.
- Successfully verified over 1,000 GHG inventories across the US, since 2010.

How do we ensure credibility and transparency?

THE CLIMATE REGISTRY
Credible Carbon Reporting

The Climate Registry

- Nonprofit that ensures consistency across all public agency and utility GHG reporting.
- **The "accounting" framework and reporting system to ensure GHG inventories are correct and consistent with California regulatory standards.**
- Provides third-party data verification oversight.
- **Over 430 members across North America.**
- **Water/Wastewater Industry Specific Focus -**
  - Metropolitan Water District of Southern California
  - Sonoma Water
  - City of Sacramento Department of Utilities
  - California Department of Water Resources

WATER-ENERGY NEXUS REGISTRY
POWERED BY THE CLIMATE REGISTRY

Water Energy Nexus Registry (WEN)

- Allows us to track and compare our verified emissions per unit of water delivered.

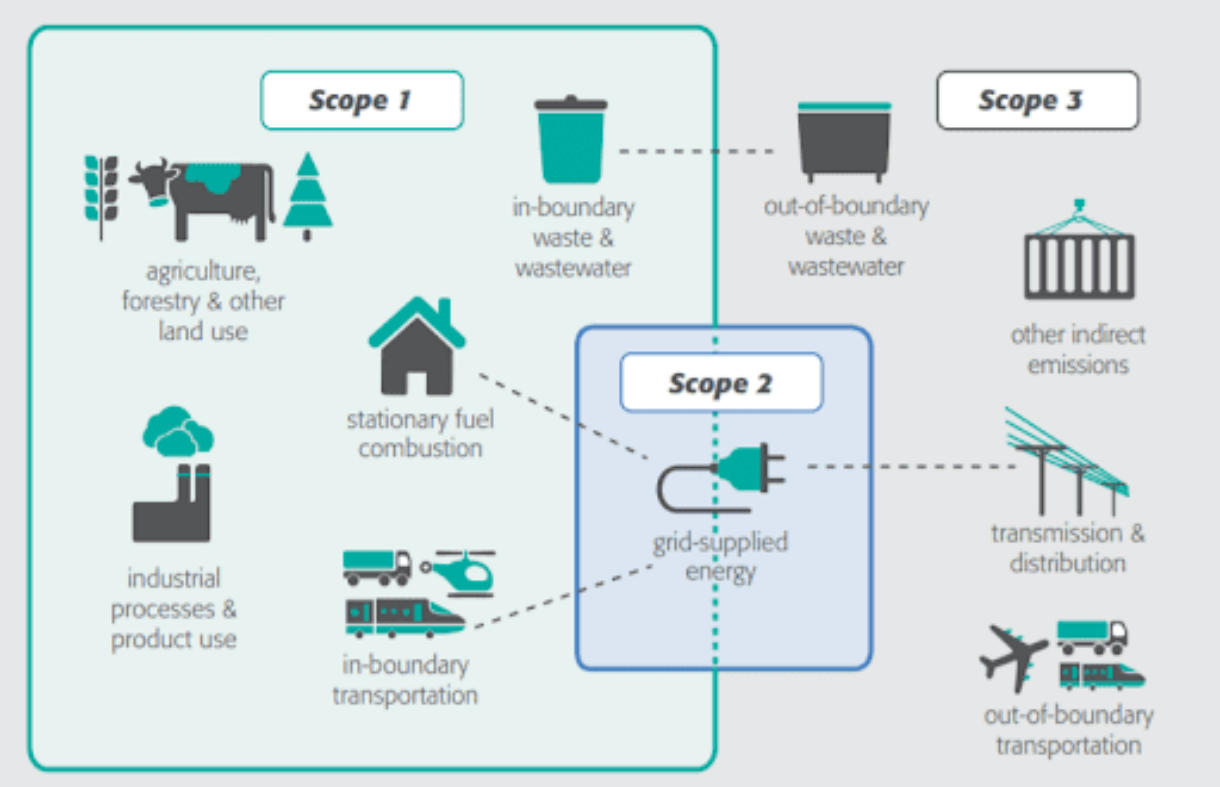
How did we organize this data?

GHG Inventories groups emissions by **Scope** to show where they come from and how much control we have over them.

Scope 1
- We create GHGs directly
- *Fuel our trucks burn*

Scope 2
- We use energy that creates GHG
- *Electricity we buy*

Scope 3
- GHGs are created because of our activities, but not by us directly
- *Our employee's commuting to work*



What did we measure?

Scope	Sector	Source or Activity	NTPUD Data Source
1 = Direct emissions generated within NTPUD control (i.e., driving trucks, heating offices with natural gas).	Buildings & Facilities	Natural Gas	Southwest Gas Bills
	Vehicle Fleet	On-Road Vehicles	Fuel Bills/Vehicle Logs
	Vehicle Fleet	Off-Road Vehicles & Equipment	Fuel Bills/Vehicle Logs
2 = Indirect emissions from activities that use energy generated outside NTPUD (i.e., pumping water and sewage, lighting offices).	Buildings & Facilities	Grid Electricity	Liberty Utility Bills
	Water & Wastewater Transport	Grid Electricity	Liberty Utility Bills
3 = Indirect emissions from activities that NTPUD doesn't directly control (i.e., employee commute and trash disposal).	Operations Solid Waste & Wastewater Produced	Landfilled Solid Waste & Wastewater Treatment	TTSD Bills TTSA Bills
	Employee Commute	On-Road Vehicles	Employee Survey

Data Collection

- NTPUD staff filled out data request spreadsheet with **activity data**.
- **Activity data** is the measurement of how much certain fuels or sources of greenhouse gas emissions were used by the NTPUD in the inventory year (2023).

	A	B	C	D	E
1	**Water Delivery**				
2					
3	**Annual Water Delivery**				
4	**Item**	**Unit**	**2023 Value**		
5	Total electricity used to pump water	kWh	929,012		
6	Total gas used to pump water	therms	2,200		
7	Volume of water processed	MGD	329		
8					
9					
10	*Individual pumps/water conveyance facilities (if possible/desired): add a name or brief address for each facility, and then*				
11	**[Pump 1]: Annual Pump Station Energy Usage by Fuel Type**				
12	**Fuel Type**	**Unit**	**2023 Value**	**Address**	**Water or Wastewater**
13	Electricity	kWh or MWh	62,736	6600 DONNER RD WELL PUMP	Water
14	Natural Gas	therms	0		
15	Diesel - Backup Generators	gallons	TBD		
16	[Other non-utility fuels, e.g., CNG]	[e.g., scf]			
17					
18	**[Pump 2]: Annual Pump Station Energy Usage by Fuel Type**				
19	**Fuel Type**	**Unit**	**2023 Value**	**Address**	**Water or Wastewater**
20	Electricity	kWh or MWh	19,212	5101 N LAKE CARNELIAN WOOD #2	Water
21	Natural Gas	therms	1,200		
22	Diesel - Backup Generators	gallons	0		
23	[Other non-utility fuels, e.g., CNG]	[e.g., scf]			
24					
25	**[Pump 3]: Annual Pump Station Energy Usage by Fuel Type**				
26	**Fuel Type**	**Unit**	**2023 Value**	**Address**	**Water or Wastewater**
27	Electricity	kWh or MWh	67,612	5101 N Lake CARNELIAN WOODS Well	Water
28	Natural Gas	therms	0		
29	Diesel - Backup Generators	gallons	0		
30	[Other non-utility fuels, e.g., CNG]	[e.g., scf]			
31					
32	**[Pump 4]: Annual Pump Station Energy Usage by Fuel Type**				
33	**Fuel Type**	**Unit**	**2023 Value**	**Address**	**Water or Wastewater**
34	Electricity	kWh or MWh	673,727	7000 North Lake Blvd NAWTP	Water
35	Natural Gas	therms	1,000		
36	Diesel - Backup Generators	gallons	0		
37	[Other non-utility fuels, e.g., CNG]	[e.g., scf]			
38					
39	**[Pump 5]: Annual Pump Station Energy Usage by Fuel Type**				
40	**Fuel Type**	**Unit**	**2023 Value**	**Address**	**Water or Wastewater**
41	Electricity	kWh or MWh	29,559	1192 REGENCY WAY KWW 500 PUMP	Water
42	Natural Gas	therms	0		
43	Diesel - Backup Generators	gallons	0		
44	[Other non-utility fuels, e.g., CNG]	[e.g., scf]			
45					
46	**[Pump 6]: Annual Pump Station Energy Usage by Fuel Type**				
47	**Fuel Type**	**Unit**	**2023 Value**	**Address**	**Water or Wastewater**
48	Electricity	kWh or MWh	296	BEAVER ST CUST POLE	Water
49	Natural Gas	therms	0		
50	Diesel - Backup Generators	gallons	0		
51	[Other non-utility fuels, e.g., CNG]	[e.g., scf]			
52					
53	**[Pump 7]: Annual Pump Station Energy Usage by Fuel Type**				
54	**Fuel Type**	**Unit**	**2023 Value**	**Address**	**Water or Wastewater**
55	Electricity	kWh or MWh	459	936 COUNTRY CLUB DR FLOW METER	Water
56	Natural Gas	therms	0		
57	Diesel - Backup Generators	gallons	0		
58	[Other non-utility fuels, e.g., CNG]	[e.g., scf]			

Buildings & Facilities | Water Delivery (pump house ener | Wastewater Transport | Vehicle and Ec

How to Calculate Metric Tons of CO2e

GHG Emissions = (Activity Data) x (Emission Factor)

Activity Data (what we measure)
- Energy Use (kWh, therms)
- Vehicle Use (gallons, miles)
- Landfilled Waste (tons)

X

Emission Factor (conversion rate)
- Published, science-based, verified
- Specific to fuel type
- Converts usage into carbon impact

=

GHG Emissions (what we report)
- Metric Tons of CO2 equivalent (MT CO2e)
- Global standard GHG emission reporting unit

EXAMPLE for NTPUD Annex Building at 875 National Avenue

(26,158 kWh) x (0.2586 MT CO_2e /kWh) = **6.76 MT CO_2e**

Electricity used at 875 National Ave Annex

Emission factor from Liberty Utilities, 2023

What tools did the SBC team use?

ClearPath
AN ICLEI USA TOOL

ICLEI is a global network that helps over 2,500 local governments plan for and track sustainability efforts.

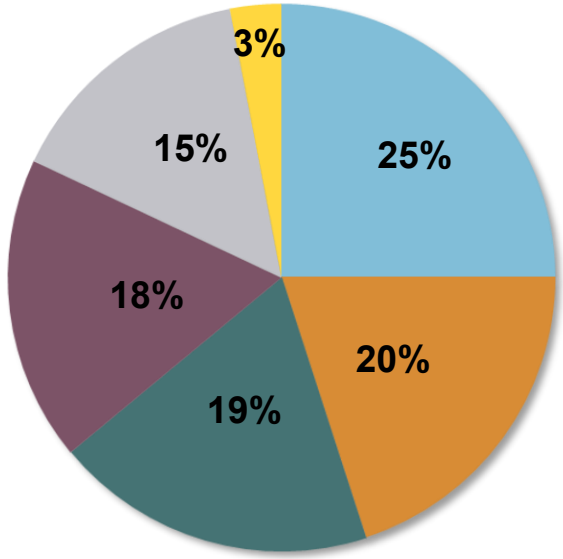
- SBC gathered our GHG activity data and relevant emission factors and entered that data into the ClearPath tool.
- ClearPath then converts that data into total greenhouse gas emissions equivalent **(CO_2e)** using established methods from the Local Government Operations Protocol (LGOP).

The Local Government Operations Protocol (LGOP) is the standard framework used in the U.S. and Canada to measure and report greenhouse gas emissions from municipal operations. It was developed by the California Air Resources Board (CARB), The Climate Registry, and ICLEI.

NTPUD Baseline GHG Emissions (2023)

Source	Total Emissions (MT CO_2e)	% of Total
Water Delivery & Treatment	253	25%
Buildings & Facilities	210	20%
Vehicle Fleet	191	19%
Wastewater Transport	187	18%
Employee Commute	155	15%
Operations Solid Waste & Wastewater	29	3%
Total	**1,025 (MT CO_2e)**	**100%**

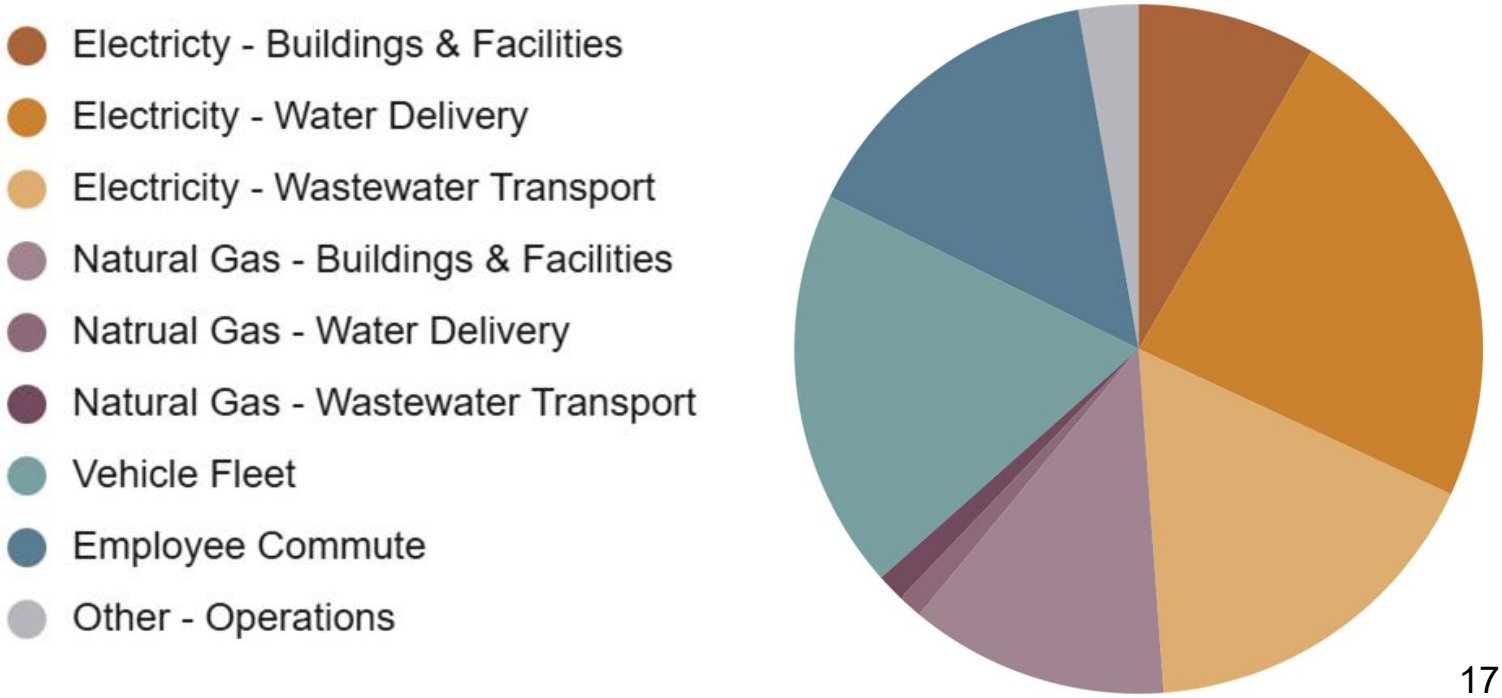
- Water Delivery & Treatment, 25%
- Buildings & Facilities Energy, 20%
- Vehicle Fleet, 19%
- Wastewater Transport, 18%
- Employee Commute, 15%
- Operations Solid Waste & Wastewater, 3%



NTPUD Baseline GHG Emissions by Source

- **Emissions from NTPUD's Electricity Usage (orange shades) make up nearly 1/2 of total emissions.**

- Emissions from driving (Vehicle Fleet: Green and Employee Commute: Blue) make up a 1/3 of total emissions.



Largest Emission Source – Electricity

NTPUD electricity is purchased from Liberty Utilities.

Two factors influence emissions from electricity:

1. The amount of electricity used by NTPUD
2. Liberty Utilities - **Power Content Label**

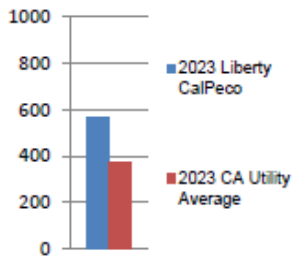
A **Power Content Label** is a yearly report that shows what types of energy your electricity provider used and how much pollution was created to make the power you use.

2023 Utility Emission Factors (lbs CO2e/MWh)		
Liberty	TDPUD	PG&E
570	396	12

Liberty

2023 POWER CONTENT LABEL
Liberty Utilities (CalPeco Electric) LLC
https://www.libertyutilities.com

Greenhouse Gas Emissions Intensity (lbs CO_2e/MWh)		Energy Resources	2023 Liberty Power Mix	2023 CA Power Mix
2023 Liberty CalPeco	2023 CA Utility Average	Eligible Renewable[1]	39.6%	36.9%
		Biomass & Biowaste	0.0%	2.1%
570	373	Geothermal	13.9%	4.8%
		Eligible Hydroelectric	0.0%	1.8%
		Solar	25.7%	17.0%
		Wind	0.0%	11.2%
		Coal	0.0%	1.8%
		Large Hydroelectric	0.0%	11.7%
		Natural Gas	0.0%	36.6%
		Nuclear	0.0%	9.3%
		Other	0.0%	0.1%
		Unspecified Power[2]	60.4%	3.7%
		TOTAL	100.0%	100.0%
		Percentage of Retail Sales Covered by Retired Unbundled RECs[3]:	1%	



[1]The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology.

[2]Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.

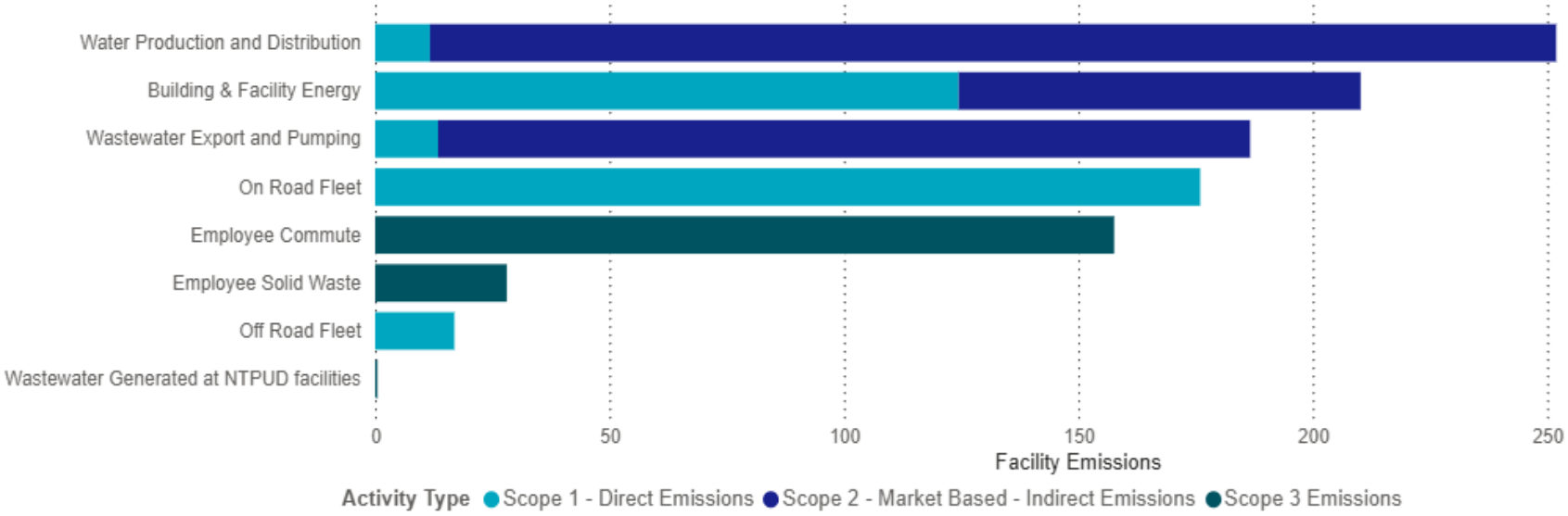
[3]Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.

For specific information about this electricity portfolio, contact:	Liberty Utilities (CalPeco Electric) LLC 1-800-782-2506
For general information about the Power Content Label, visit:	https://www.energy.ca.gov/programs-and-topics/programs/power-source-disclosure-program

NTPUD GHG Emissions Data Verification

THE CLIMATE REGISTRY
Credible Carbon Reporting

WATER-ENERGY NEXUS REGISTRY
POWERED BY THE CLIMATE REGISTRY



= Scope 1 – Direct emissions that NTPUD can control.

= Scope 2 – Indirect emissions from the electricity NTPUD buys and uses.

= Scope 3 – Indirect emissions from NTPUD activities outside NTPUD control.

So…

What does **1,025 MT CO_2e** mean for Lake Tahoe.

1,025 MT CO_2e is the equivalent of GHG emissions from -

213 **Homes' electricity use for one year.**

239 **Gasoline-powered passenger cars driven for one year.**

2,371 **Barrels of oil consumed.**

100,589 **Gallons of diesel fuel consumed.**

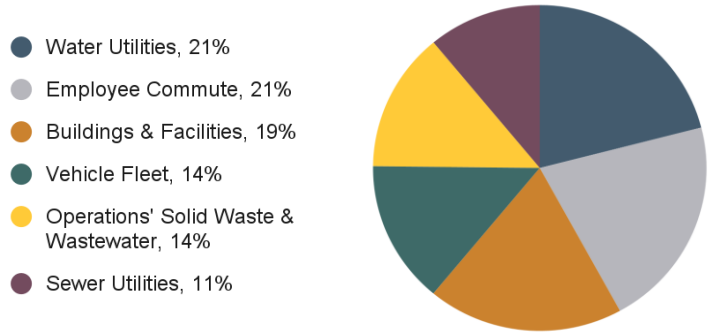
1,137,474 **Pounds of coal burned.**

https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

How does **1,025 MT CO_2e** compare in Tahoe?

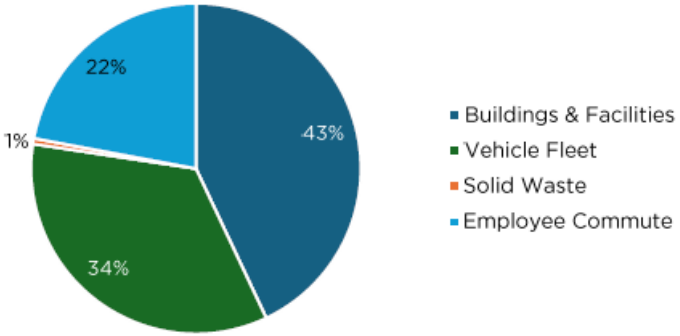
Tahoe City Public Utility District

1,494 (MT CO_2e)
2023



TOWN OF TRUCKEE

2,388 (MT CO_2e)
2023



TDPUD Commitment to Conservation

43,149 (MT CO_2e)
2022

Electricity Provider

Scope	Component	Component Emissions [Tons CO_2e]	Scope Emissions [Tons CO_2e]
1	Transport	475	9,394
	Building	155	
	Generation*	8,763	
2	Electricity Consumed	235	239
	Transmission Losses	3.50	
3	Employee Commutes	337	33,516
	Electricity Sold	32,701	
	Wastewater (water sold)	478	

Including District Equity Component

How does **1,025 MT CO_2e** compare in CA?

Scope 1 - Direct Emissions	Total CO2e (t)
Stationary Combustion - Scope 1	149.546333
Mobile Combustion - Scope 1	192.839991
Total	342.386324
Applied Offsets	
Net Total	342.386324

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)
Purchased Electricity - Market Based - Scope 2	499.154
Total	499.154
Applied Offsets	
Net Total	499.154

Liberty

Sonoma Water

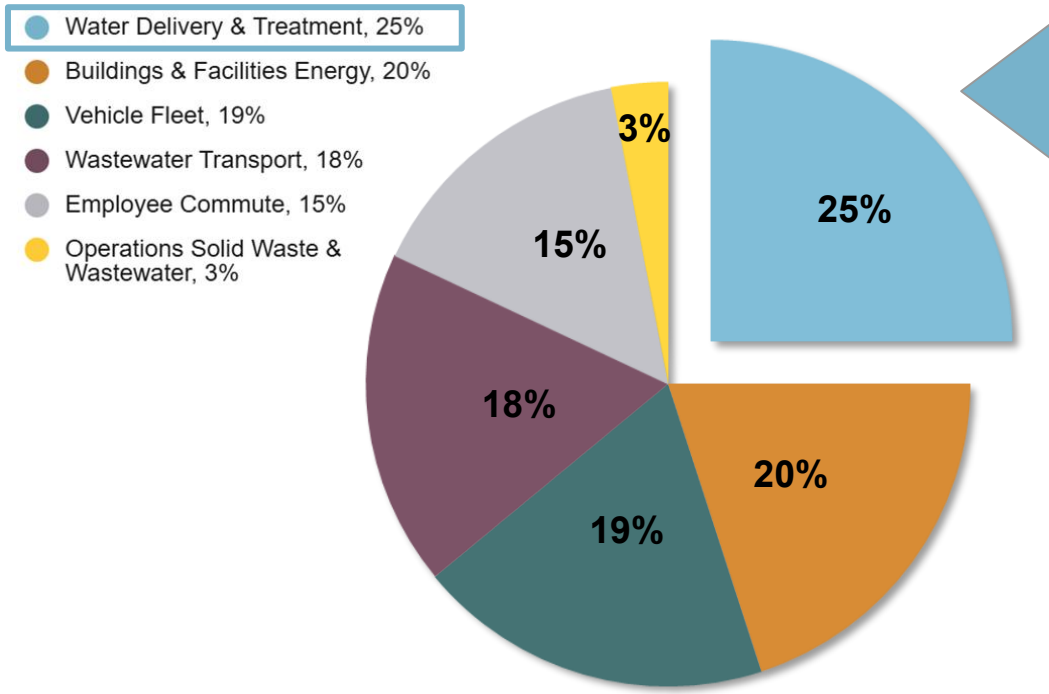
Scope 1 - Direct Emissions	Total CO2e (t)
Stationary Combustion - Scope 1	201.014109
Mobile Combustion - Scope 1	1,079.700012
Process - Scope 1	386.899997
Fugitive - Scope 1	153.506517
Total	1,821.120635
Applied Offsets	
Net Total	1,821.120635

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)
Purchased Electricity - Market Based - Scope 2	72.897885
Total	72.897885
Applied Offsets	

PG&E Pacific Gas and Electric Company + Sonoma Clean Power

Water Delivery & Treatment Emissions

Energy Type	Total Usage	GHG Emissions (MT CO_2e)	% of Total
Grid Electricity	929,012 kWh	241	95%
Natural Gas	2,200 therms	12	5%
Total		**253**	**100%**



Water Delivery & Treatment

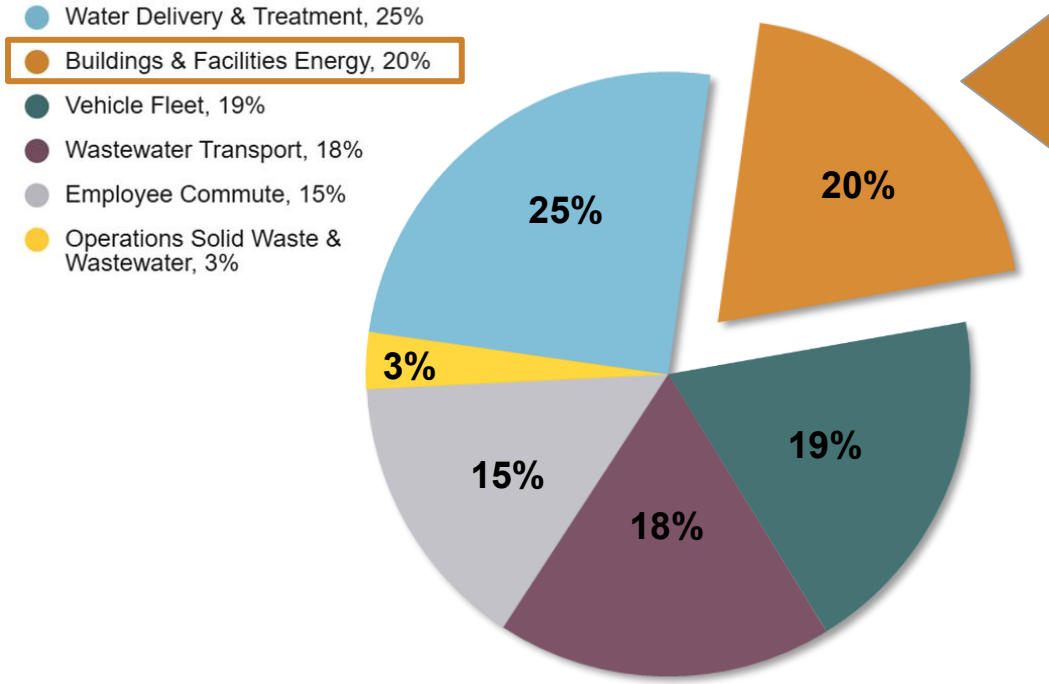
Represents 25% of NTPUD's total emissions.

Within this sector –

- The National Ave. Water Treatment Plant makes up 69% of the District's Water Delivery & Treatment emissions.

Buildings & Facilities Emissions

Energy Type	Total Usage	GHG Emissions (MT CO_2e)	% of Total
Natural Gas	23,400 therms	124	59%
Grid Electricity	331,677 kWh	86	41%
Total		**210**	**100%**



Buildings & Facilities

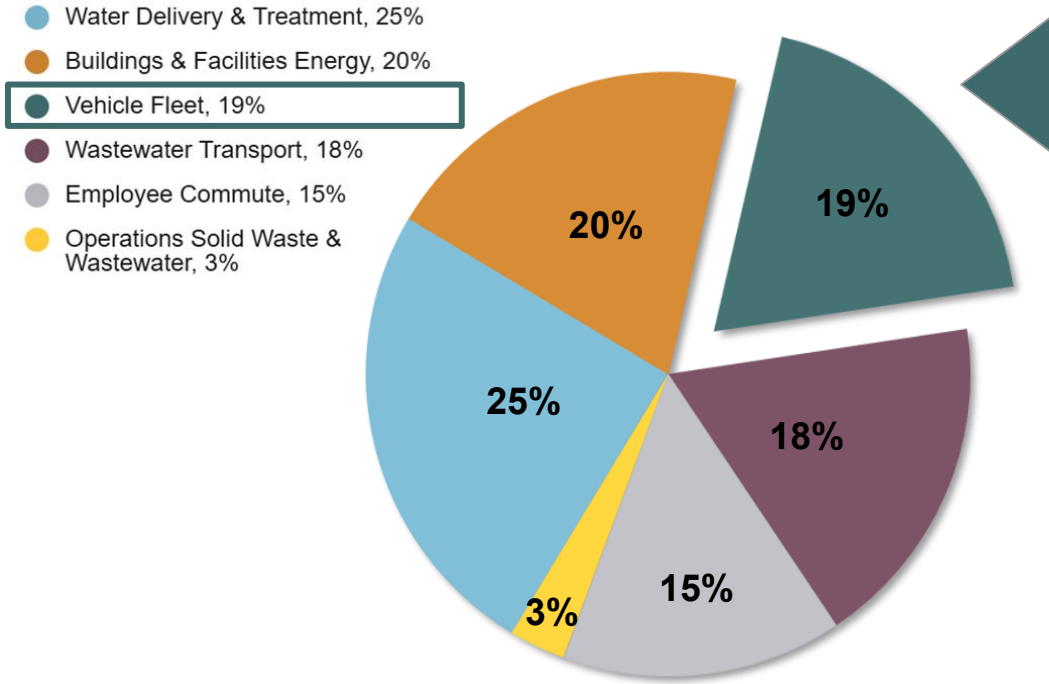
Represents 20% of NTPUD's total emissions.

Within this sector –

- The North Tahoe Event Center makes up 55% of this District's Buildings & Facilities emissions.

Vehicle Fleet Emissions

Fuel Type	Total Usage (gal)	GHG Emissions (MT CO_2e)	% of Total
Gasoline - On-Road	15,477	136	71%
Diesel - On-Road	3,898	38	20%
Diesel - Off-Road	1,353	16	8%
Gasoline - Off Road	66	1	<1%
Total	**21,031**	**191**	**100%**



Vehicle Fleet Emissions

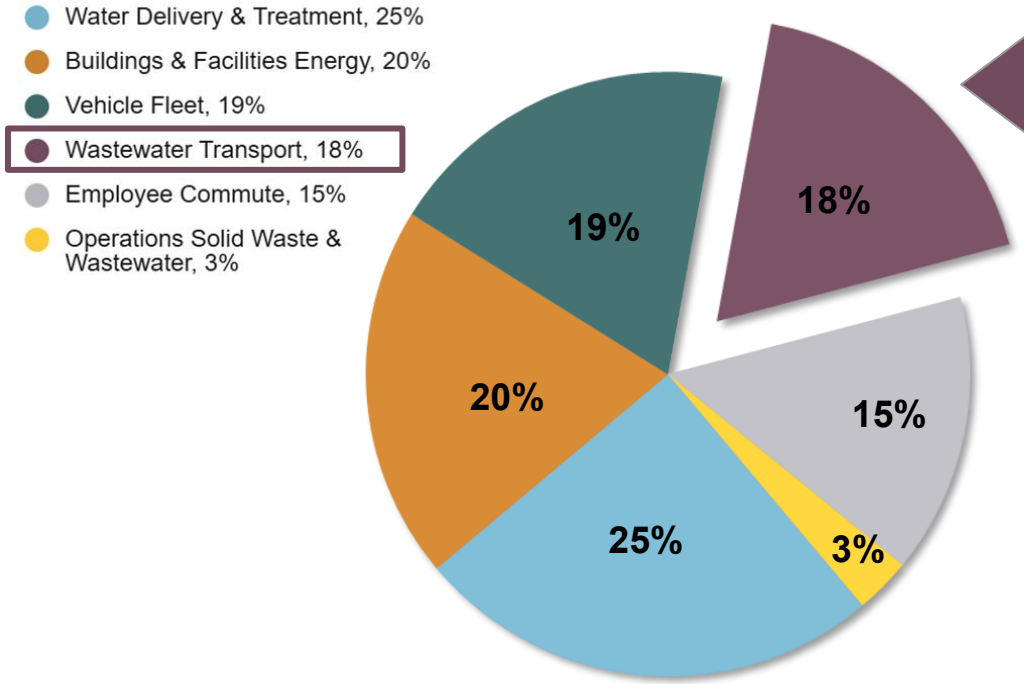
Represents 19% of NTPUD's total emissions.

Within this sector –

- The NTPUD Fleet drove a combined 143,100 miles in 2023.

Wastewater Transport Emissions

Energy Type	Total Usage	GHG Emissions (MT CO_2e)	% of Total
Grid Electricity	669,942 kWh	173	93%
Natural Gas	2,519 therms	14	7%
Total		**187**	**100%**



Wastewater Transport

Represents 18% of NTPUD's total emissions.

Within this sector –

- The Dollar Hill Lift Station makes up 63% of the District's Wastewater Transport emissions.

What can we do to reduce our emissions?

For Board Consideration

Climate Action Measures –
Projects and actions that we can study and implement to reduce our Greenhouse Gas Emissions over time.

These suggested measures provide an action-oriented lens that provides direction to staff on reducing emissions.

These suggested measures help the NTPUD make better informed budget and capital investment decisions.

What can we do to reduce our emissions?

Climate Action Measures

Category	Measures Drafted	Descriptions
Water	4	water loss and use reduction, conservation, and customer education
Energy	8	use reduction, analyze efficiency, and possible retrofits
Pump Energy	1	analyze efficiency, replace or upgrade equipment
Fleet	3	use alternative fuels and fleet conversion
Employee Commute	4	volunteer trip reductions, telework, other incentives
Solid Waste	3	zero waste policies, organic and green waste diversion
Natural & Working Lands	1	support regional landscape-scale projects such as meadow restorations and reforestation *(e.g. – California Tahoe Conservancy)*
Collaboration	6	continue and expand collaborations and education programs with local/regional partner agencies *(e.g. - Climate Transformation Alliance, Drink Tahoe Tap, TTSD Greenwaste Collection)*

Climate Action Measure - Example

EXAMPLE

Measure E-2: Convert all Interior and Exterior Lighting to LED

Convert all interior and exterior non-LED lighting to LEDs, including at parks and in public restrooms. Review any infrastructure required to replace fluorescent lighting fixtures with LED-compatible fixtures.

GHG Reduction Potential	Timeline	Cost
✸✸ Medium	? Short-term	$

Considerations

- *GHG reduction potential could be lower depending on the amount of lighting that still requires LED retrofits. However, lighting retrofit projects often result in high ROI.*

Measure Impact Key – Factors for Implementation

GHG Reduction	Timeline	Cost Range
✸ Low (0-4% reduction)	? Short Term (1-5 Years)	$ Little procurement required, low maintenance, some staff time
✸✸ Medium (5-9% reduction)	?? Medium Term (5-20 Years)	$$ Procurement of some expensive equipment, moderate maintenance, staff time
✸✸✸ High (10%+ reduction)	??? Long Term (20+ Years)	$$$ Significant procurement, high maintenance costs, and more staff time required

For Board Consideration

Next Steps –

Climate Action Measures

Should staff begin analysis and prioritization of these Climate Action Measures for implementation?

- This would be multi-year initiative that would require additional staff time with implementation of the measures having an impact to the District's Capital, Operations and Budget Planning.
- This may involve additional contractor support.

Thank You!

QUESTIONS?

PROJECT GOALS COMPLETED

- ✓ Develop first-ever greenhouse gas inventories for TCPUD & NTPUD operations for the calendar year 2023.
- ✓ Understand the Districts' operational carbon footprint (GHG Emissions) to inform future decision making.
- ✓ Identify opportunities to reduce measured emissions and measure progress toward local, regional, state, and federal carbon reduction goals.

NORTH TAHOE
PUBLIC UTILITY DISTRICT

DATE: May 1, 2026 **ITEM:** C-2/3

FROM: Office of the General Manager

SUBJECT: Review and Discuss NTPUD Watermain Capital Improvement Program and Draft Fiscal Year 2026/2027 Capital Improvement Program 5-year Plan

RECOMMENDATION:

Participate, discuss, and provide feedback on the Watermain Capital Improvement Program and the Fiscal Year 2026/2027 Capital Improvement Program 5-year Plan

DISCUSSION:

Receive two presentations from staff and provide discussion and feedback on the District's Watermain Capital Improvement Program and the Draft Fiscal Year 2026/2027 Capital Improvement Program 5-year Plan. No action by the Board of Directors is agendized for this item.

FISCAL ANALYSIS: No Fiscal Impact

STRATEGIC PLAN ALIGNMENT:

Goal 3: Enhance District governance and partnerships – Objective A: Maintain best practices in public agency governance throughout all levels of the District – Tactic 2: Budget and financial transparency – Activity a: Clearly identify methodologies for allocations and assumptions; and – Activity b: Hold educational sessions with Board and Commission as needed; and – Activity c: Ensure the annual budget is accessible and understandable to the public.

ATTACHMENTS:

- Watermain Capital Improvement Program PowerPoint Presentation
- NTPUD Draft Fiscal Year 2026/27 Capital Improvement Program 5-year Plan PowerPoint Presentation

REVIEW TRACKING:

Submitted By: _____
Bradley A. Johnson, P.E.
General Manager/CEO

NTPUD Watermain Capital Improvement Program

Past, Present, & Future

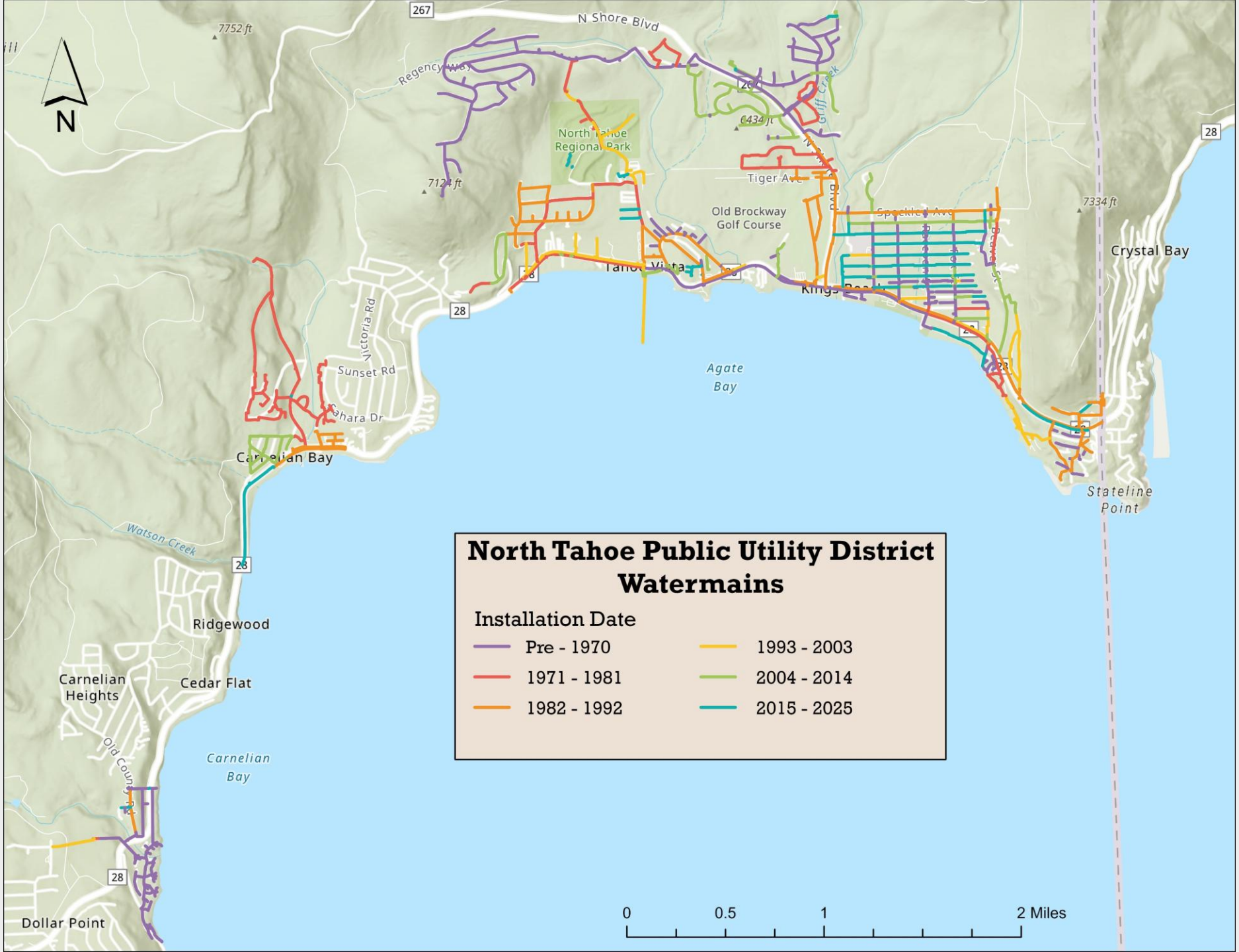
May 1, 2026

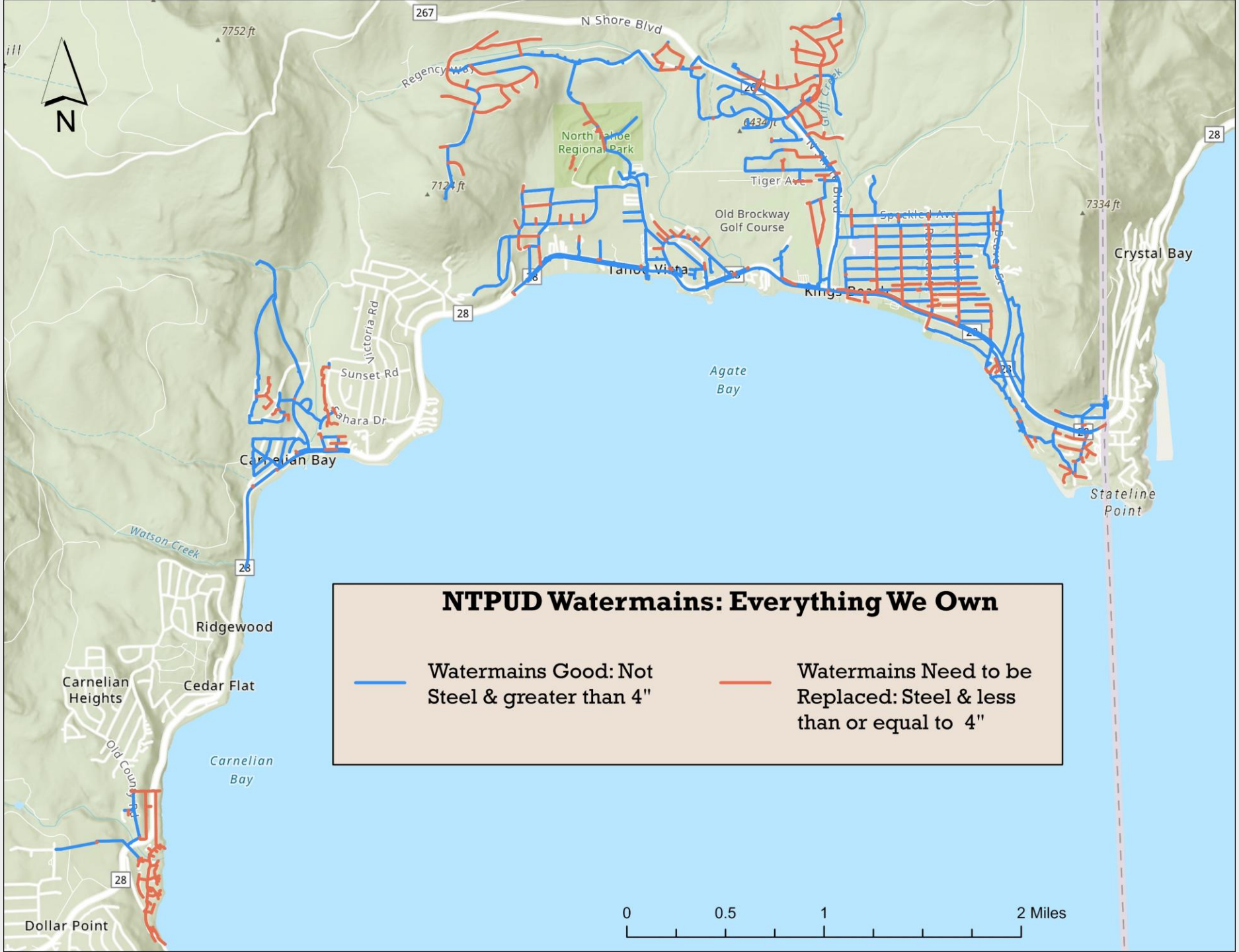
NTPUD Water Assets

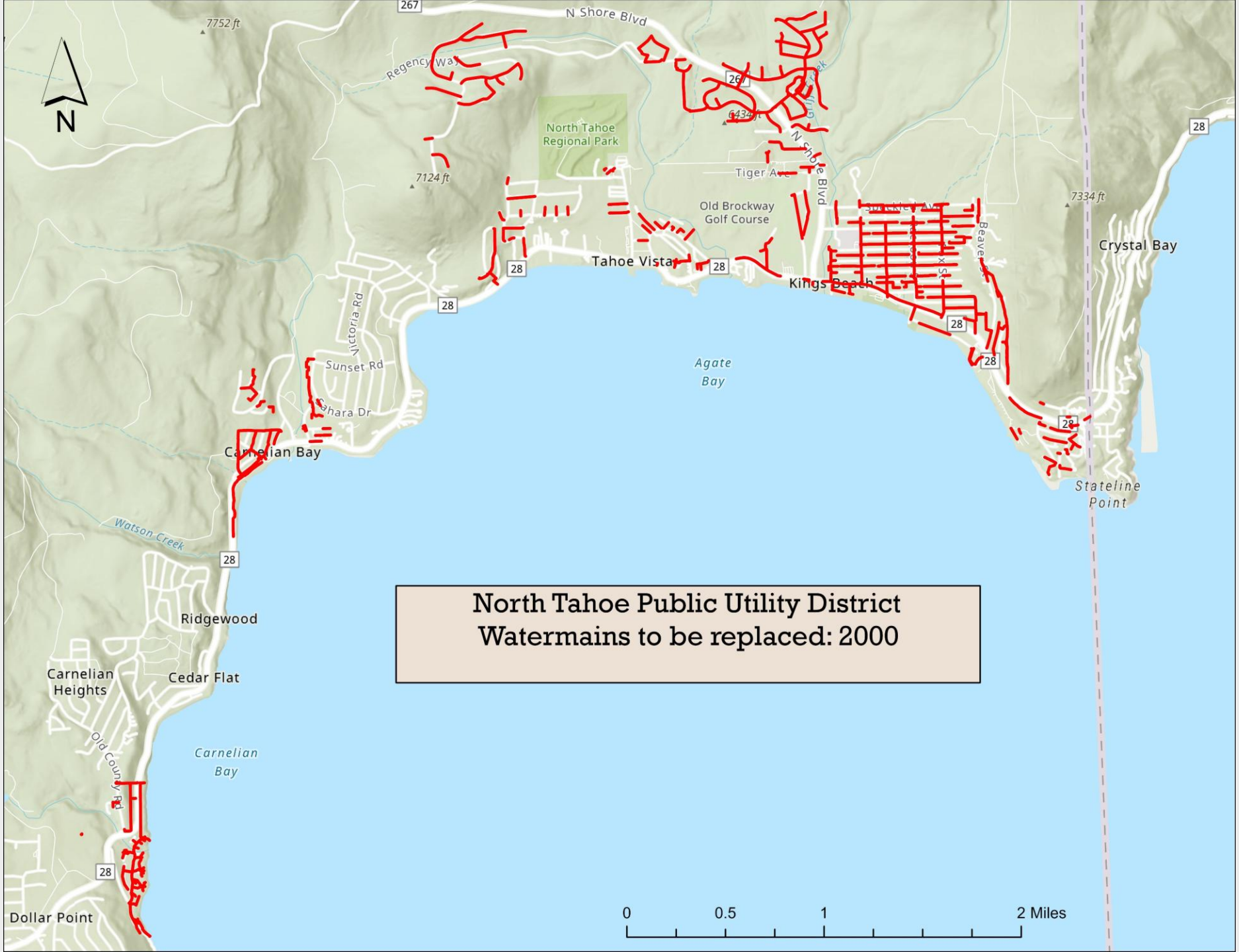
- 3,985 water customers
- 52.4 miles of pipe
- 370 fire hydrants
- 4,650,000 gallons of water storage
- 2 groundwater wells & 1 lake intake source
- Interconnect with TCPUD

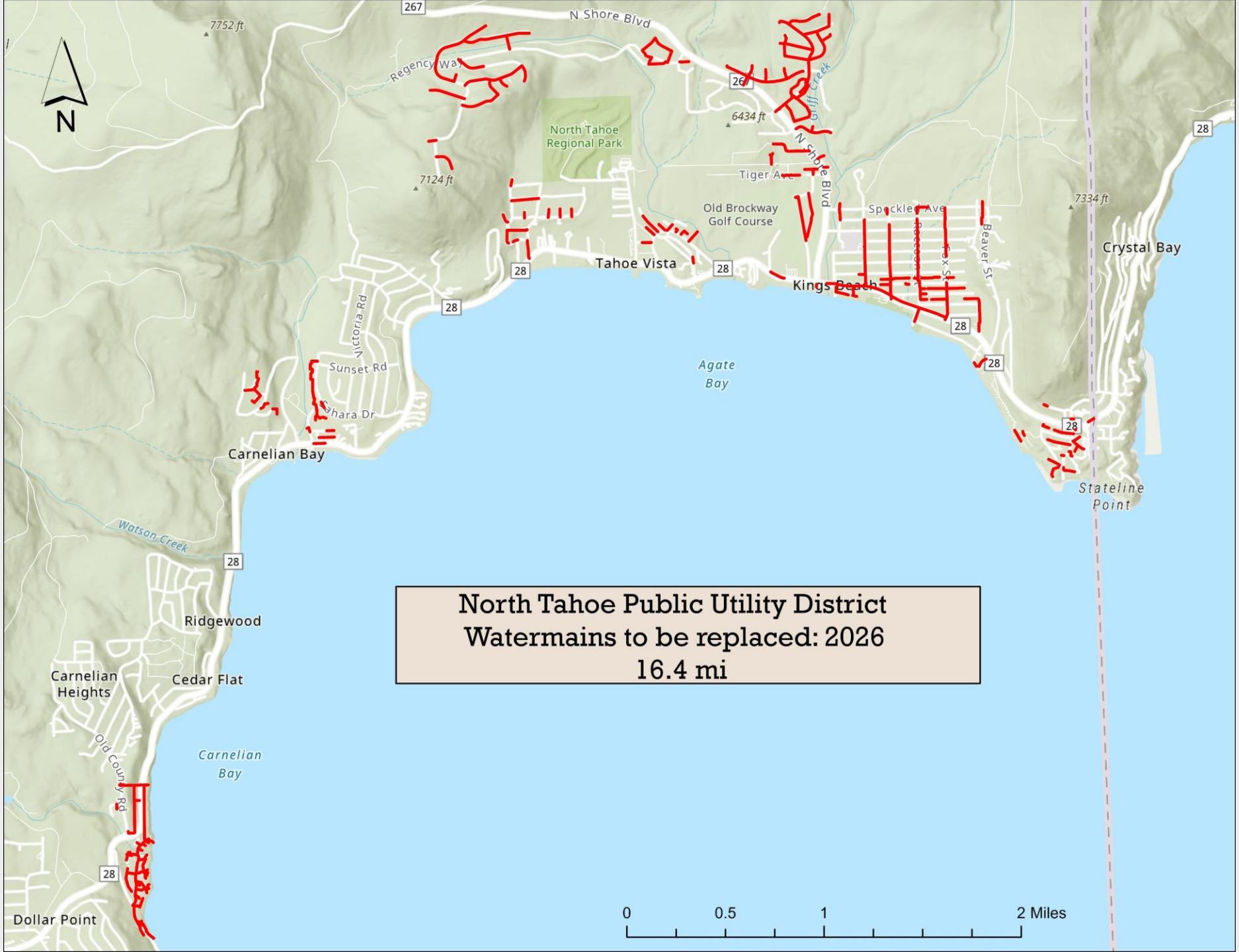
Watermain Master Plans

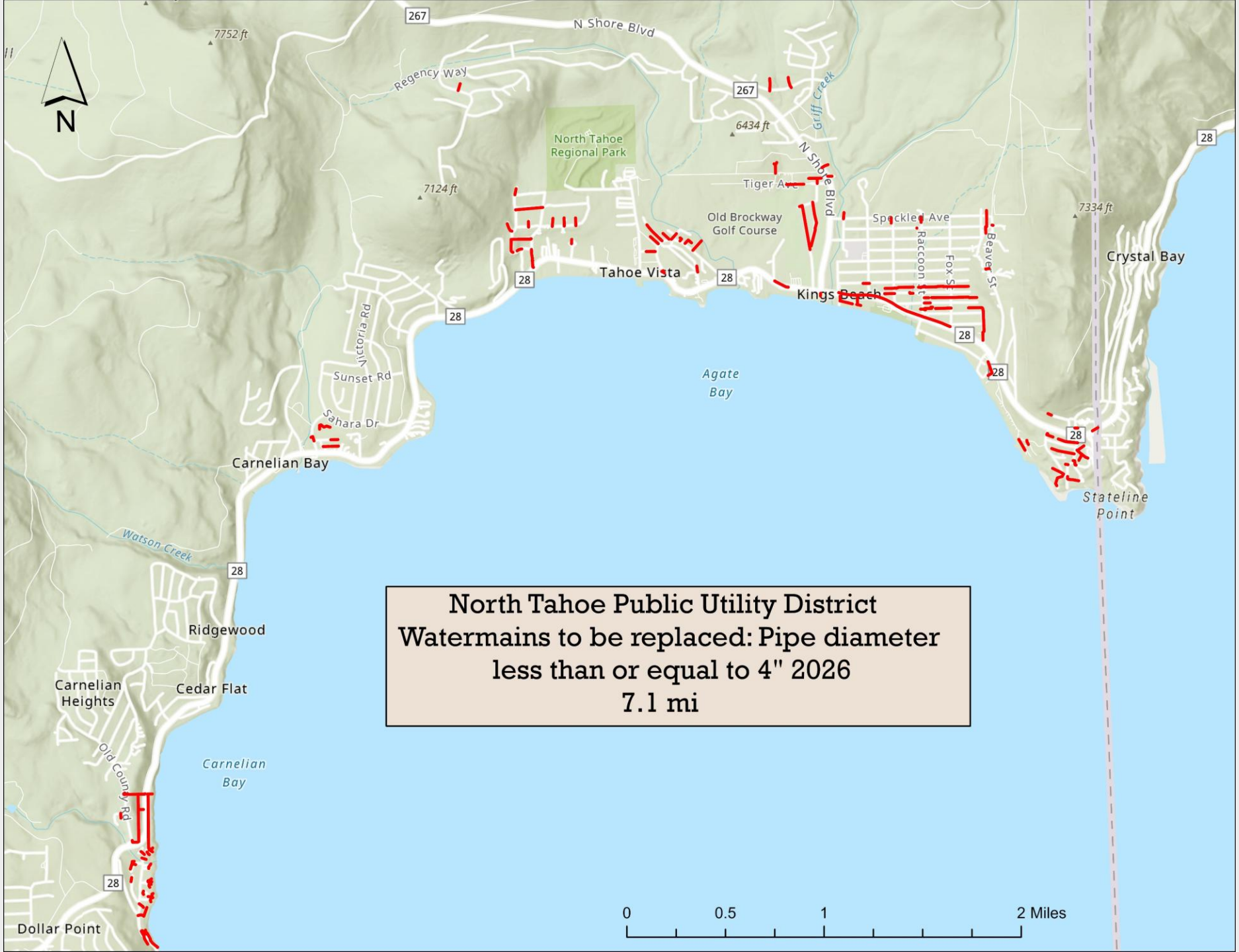
- Master Water Plan – 1987, 11.4 miles @ $5.4 million
- Master Water Plan Update – 1999, 10.8 miles @ $11.1 million
- Kings Beach Grid Waterline Replace Project Preliminary Design Report – 2007, 5.6 miles @ $10.2 million
- Placer County Water Agency Northwest Lake Tahoe Area Water System Master Plan – 2010
- Capital Improvement Programming Guide – 2017
- District Water Model – 2013 to Present

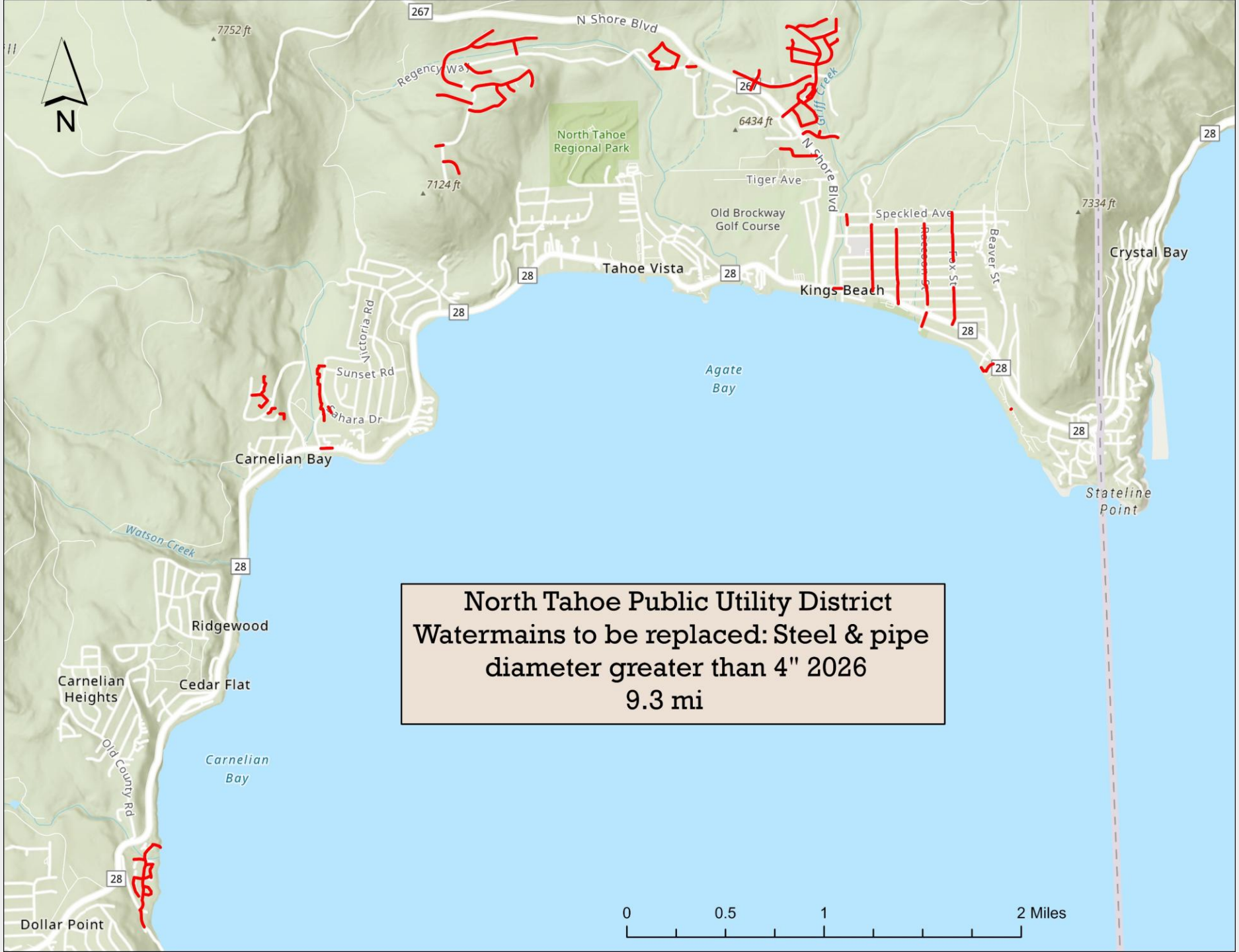

N
North Tahoe Public Utility District
Watermains
Installation Date
Pre - 1970
1971 - 1981
1982 - 1992
1993 - 2003
2004 - 2014
2015 - 2025
0
0.5
1
2 Miles
N Shore Blvd
Regency Way
North Tahoe Regional Park
Tiger Ave
Griff Creek
Old Brockway Golf Course
Speckled Ave
Crystal Bay
Stateline Point
Agate Bay
Sunset Rd
Victoria Rd
Shara Dr
Carnelian Bay
Watson Creek
Ridgewood
Carnelian Heights
Cedar Flat
Carnelian Bay
Old County Rd
Dollar Point
7752 ft
7124 ft
6434 ft
7334 ft
267
28

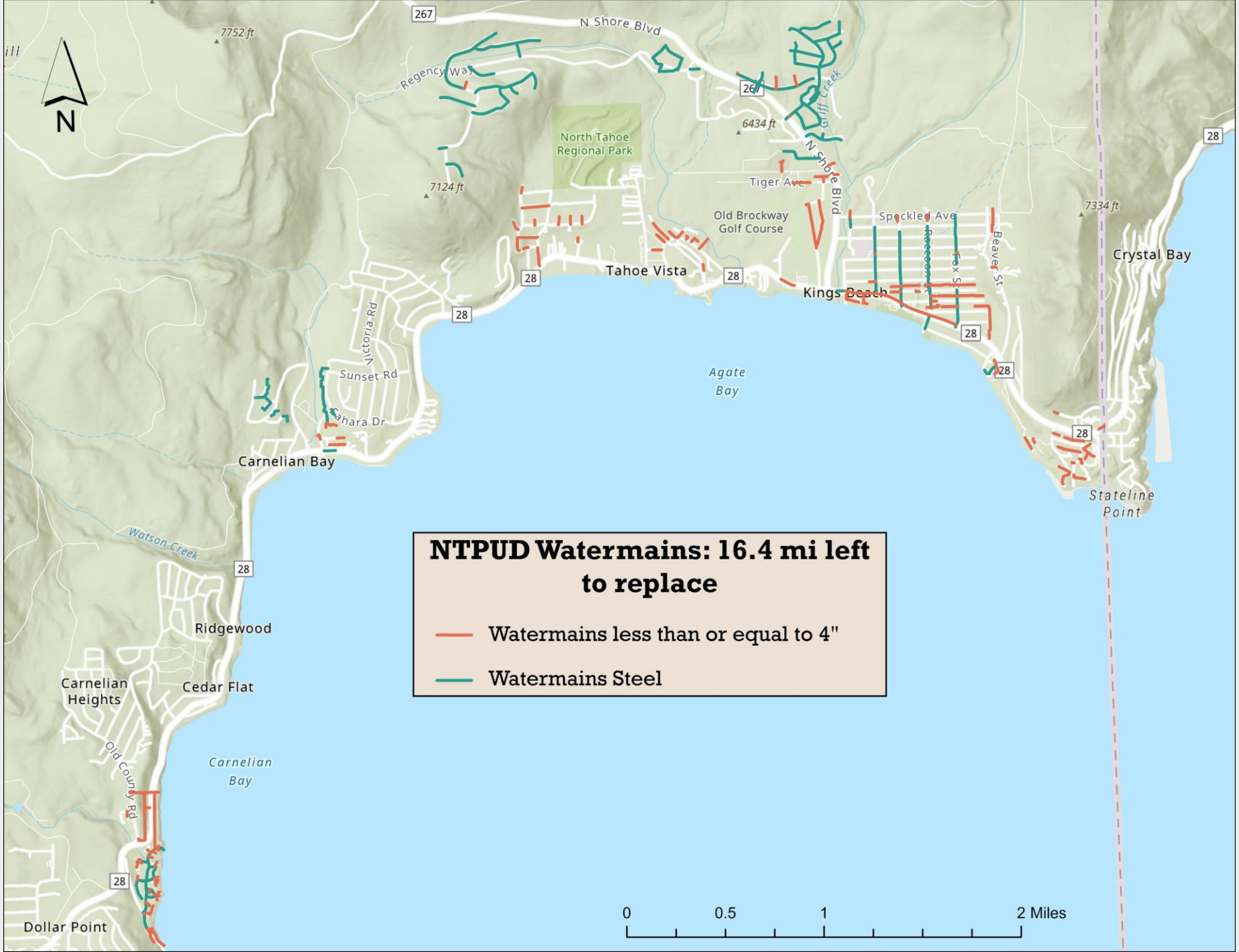

N
N Shore Blvd
267
28
North Tahoe Regional Park
Old Brockway Golf Course
Tiger Ave
Crystal Bay
Agate Bay
Stateline Point
Sunset Rd
Victoria Rd
Shara Dr
Carnelian Bay
Watson Creek
Ridgewood
Carnelian Heights
Cedar Flat
Carnelian Bay
Old County Rd
Dollar Point
7752 ft
7124 ft
7334 ft
NTPUD Watermains: Everything We Own
Watermains Good: Not Steel & greater than 4"
Watermains Need to be Replaced: Steel & less than or equal to 4"
0
0.5
1
2 Miles


N
North Tahoe Public Utility District
Watermains to be replaced: 2000
0
0.5
1
2 Miles
N Shore Blvd
Regency Way
North Tahoe Regional Park
Tiger Ave
N Shore Blvd
Old Brockway Golf Course
Tahoe Vista
Kings Beach
Crystal Bay
Agate Bay
Stateline Point
Victoria Rd
Sunset Rd
Sahara Dr
Carnelian Bay
Watson Creek
Ridgewood
Carnelian Heights
Cedar Flat
Old County Rd
Carnelian Bay
Dollar Point
7752 ft
7124 ft
6434 ft
7334 ft
267
28

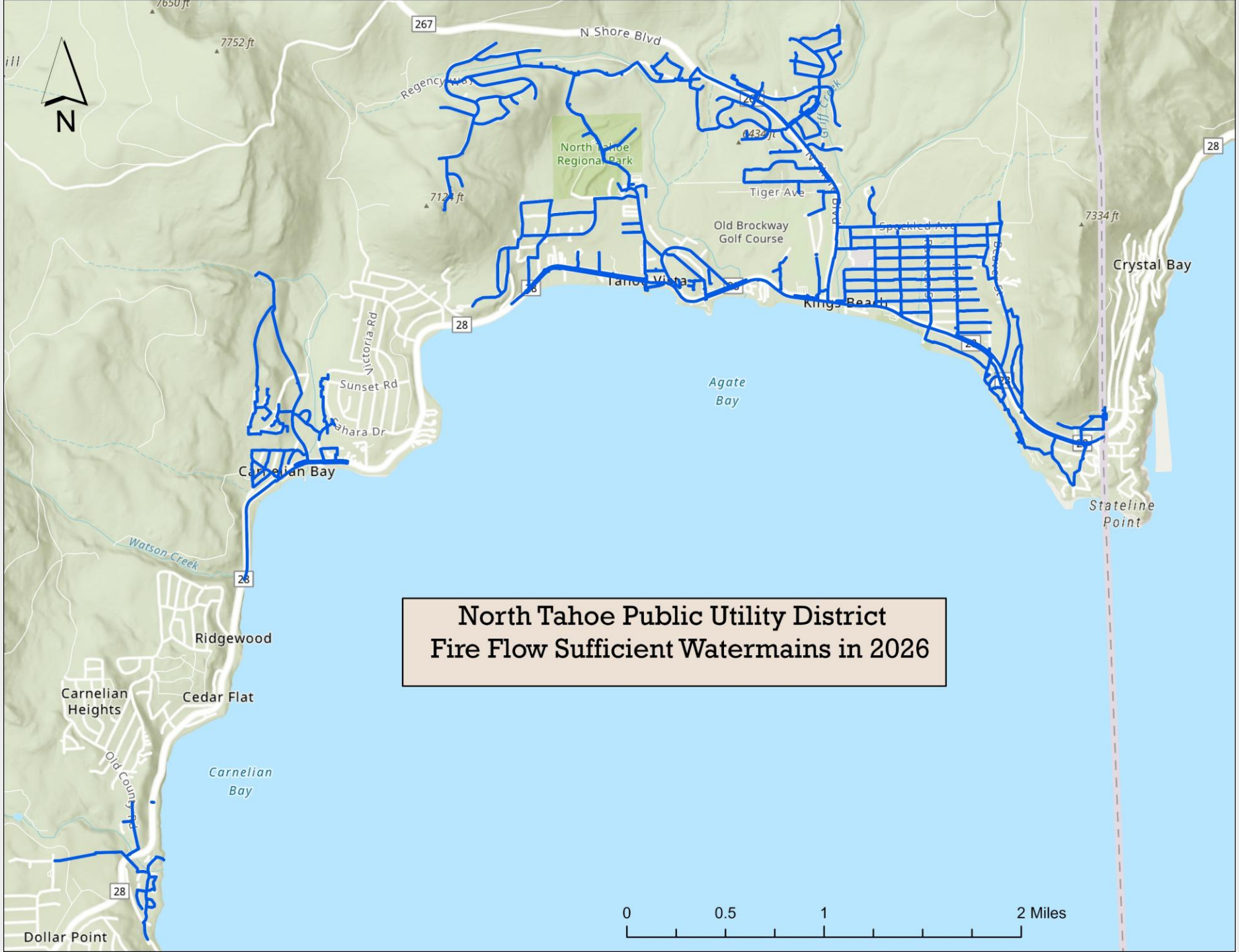

North Tahoe Public Utility District
Watermains to be replaced: 2026
16.4 mi
N
N Shore Blvd
Regency Way
North Tahoe Regional Park
Tiger Ave
Old Brockway Golf Course
Speckled Ave
Raccoon St
Fox St
Beaver St
Tahoe Vista
Kings Beach
Crystal Bay
Stateline Point
Agate Bay
Victoria Rd
Sunset Rd
Shara Dr
Carnelian Bay
Watson Creek
Ridgewood
Carnelian Heights
Cedar Flat
Old County Rd
Carnelian Bay
Dollar Point
7752 ft
7124 ft
6434 ft
7334 ft
0
0.5
1
2 Miles

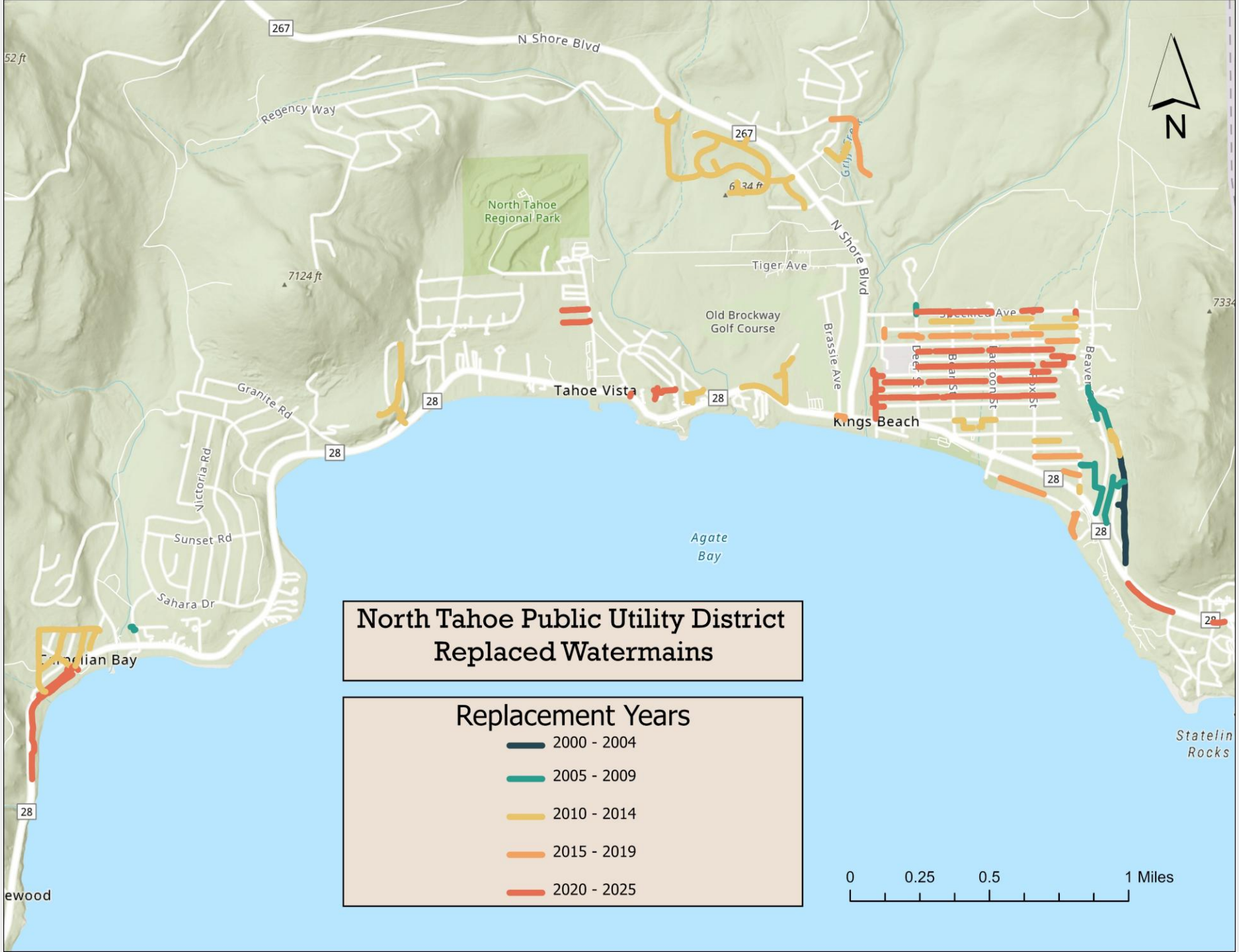

N
7752 ft
267
N Shore Blvd
Regency Way
North Tahoe Regional Park
6434 ft
Griff Creek
7124 ft
Tiger Ave
N Shore Blvd
Old Brockway Golf Course
Speckled Ave
Raccoon St
Fox St
Beaver St
7334 ft
Crystal Bay
28
Tahoe Vista
Kings Beach
Victoria Rd
Sunset Rd
Sahara Dr
Agate Bay
Carnelian Bay
Watson Creek
Ridgewood
Carnelian Heights
Cedar Flat
Old County Rd
Carnelian Bay
Stateline Point
Dollar Point
North Tahoe Public Utility District
Watermains to be replaced: Pipe diameter less than or equal to 4" 2026
7.1 mi
0
0.5
1
2 Miles

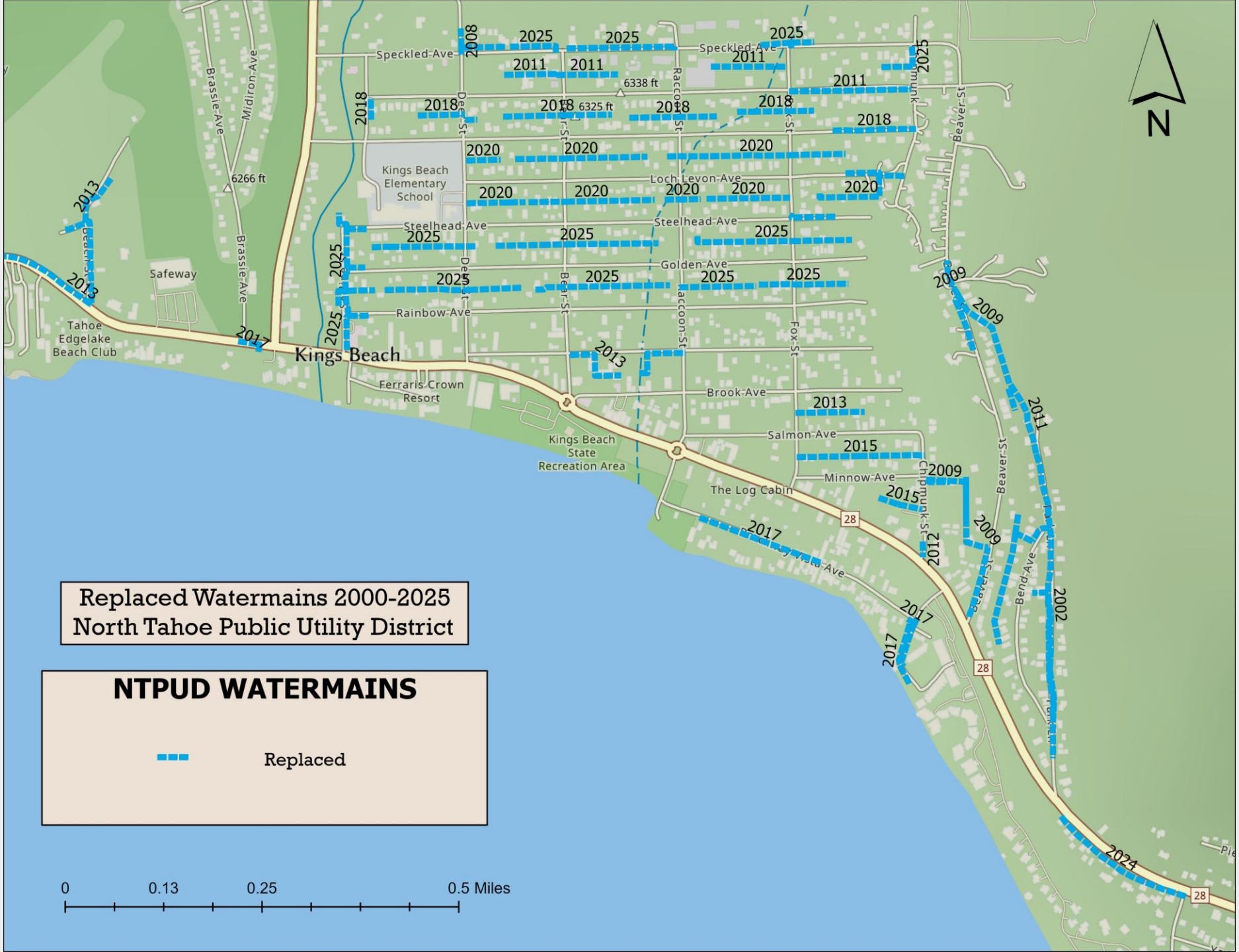

N
267
N Shore Blvd
7752 ft
Regency Way
North Tahoe Regional Park
6434 ft
7124 ft
Griff Creek
N Shore Blvd
Tiger Ave
Old Brockway Golf Course
Speckled Ave
Beaver St
Fox St
7334 ft
Crystal Bay
Tahoe Vista
Kings Beach
28
Victoria Rd
Sunset Rd
Agate Bay
Carnelian Bay
Watson Creek
Ridgewood
Carnelian Heights
Cedar Flat
Old County Rd
Carnelian Bay
Stateline Point
Dollar Point
North Tahoe Public Utility District
Watermains to be replaced: Steel & pipe diameter greater than 4" 2026
9.3 mi
0
0.5
1
2 Miles

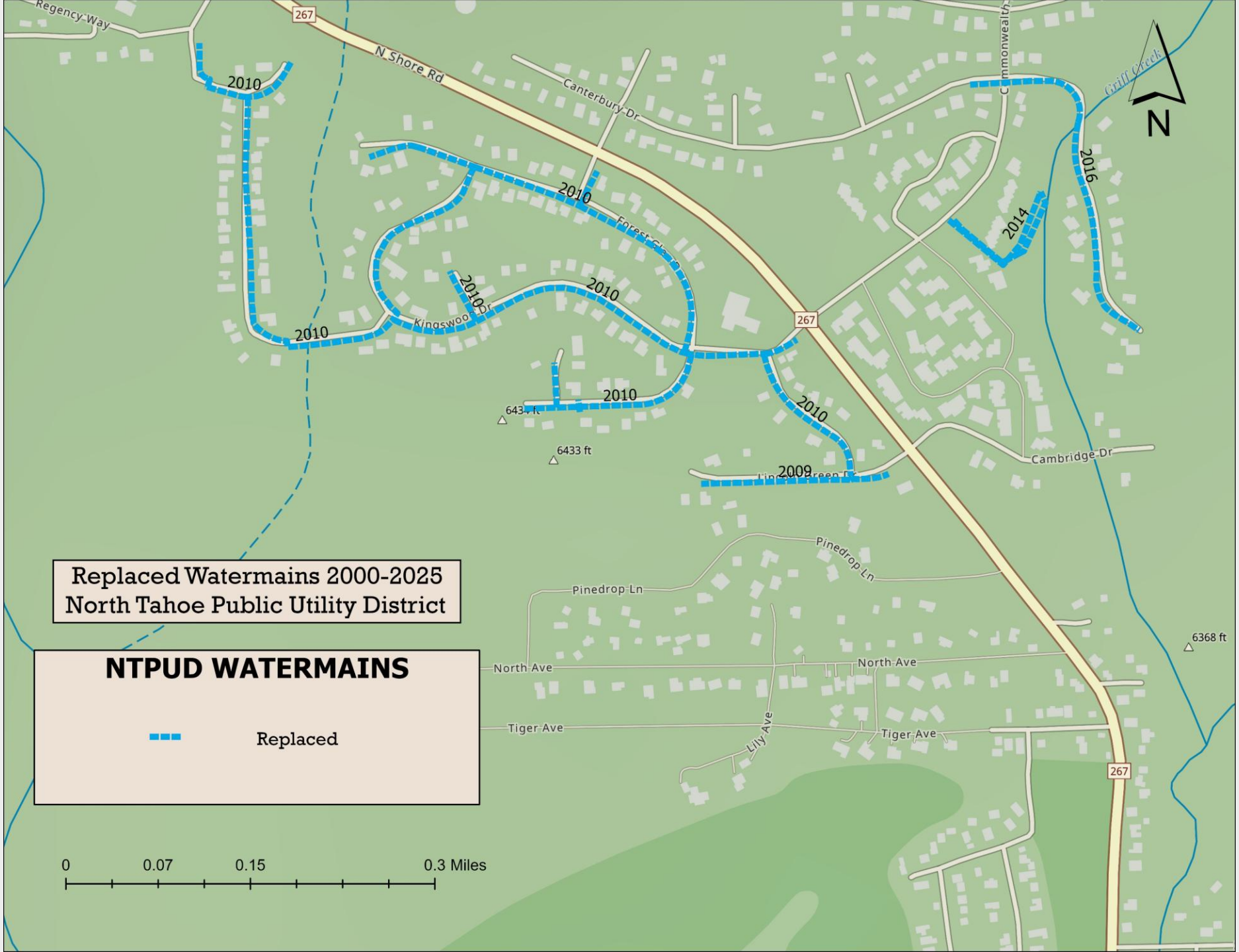

N
267
N Shore Blvd
7752 ft
Regency Way
North Tahoe Regional Park
6434 ft
Griff Creek
N Shore Blvd
Tiger Ave
7124 ft
Old Brockway Golf Course
Speckled Ave
7334 ft
Crystal Bay
28
Tahoe Vista
Kings Beach
Beaver St
Fox St
Victoria Rd
Sunset Rd
Ohara Dr
Agate Bay
Carnelian Bay
Stateline Point
Watson Creek
Ridgewood
Carnelian Heights
Cedar Flat
Old County Rd
Carnelian Bay
Dollar Point
NTPUD Watermains: 16.4 mi left to replace
Watermains less than or equal to 4"
Watermains Steel
0
0.5
1
2 Miles


North Tahoe Public Utility District
Fire Flow Sufficient Watermains in 2000
N
N Shore Blvd
267
28
Regency Way
North Tahoe Regional Park
7752 ft
7124 ft
6434 ft
7334 ft
Tiger Ave
Griff Creek
Old Brockway Golf Course
Tahoe Vista
Kings Beach
Crystal Bay
Speckled Ave
Beach St
Fox St
Grove St
Victoria Rd
Sunset Rd
Sahara Dr
Carnelian Bay
Agate Bay
Stateline Point
Watson Creek
Ridgewood
Carnelian Heights
Cedar Flat
Old County Rd
Carnelian Bay
Dollar Point
0
0.5
1
2 Miles

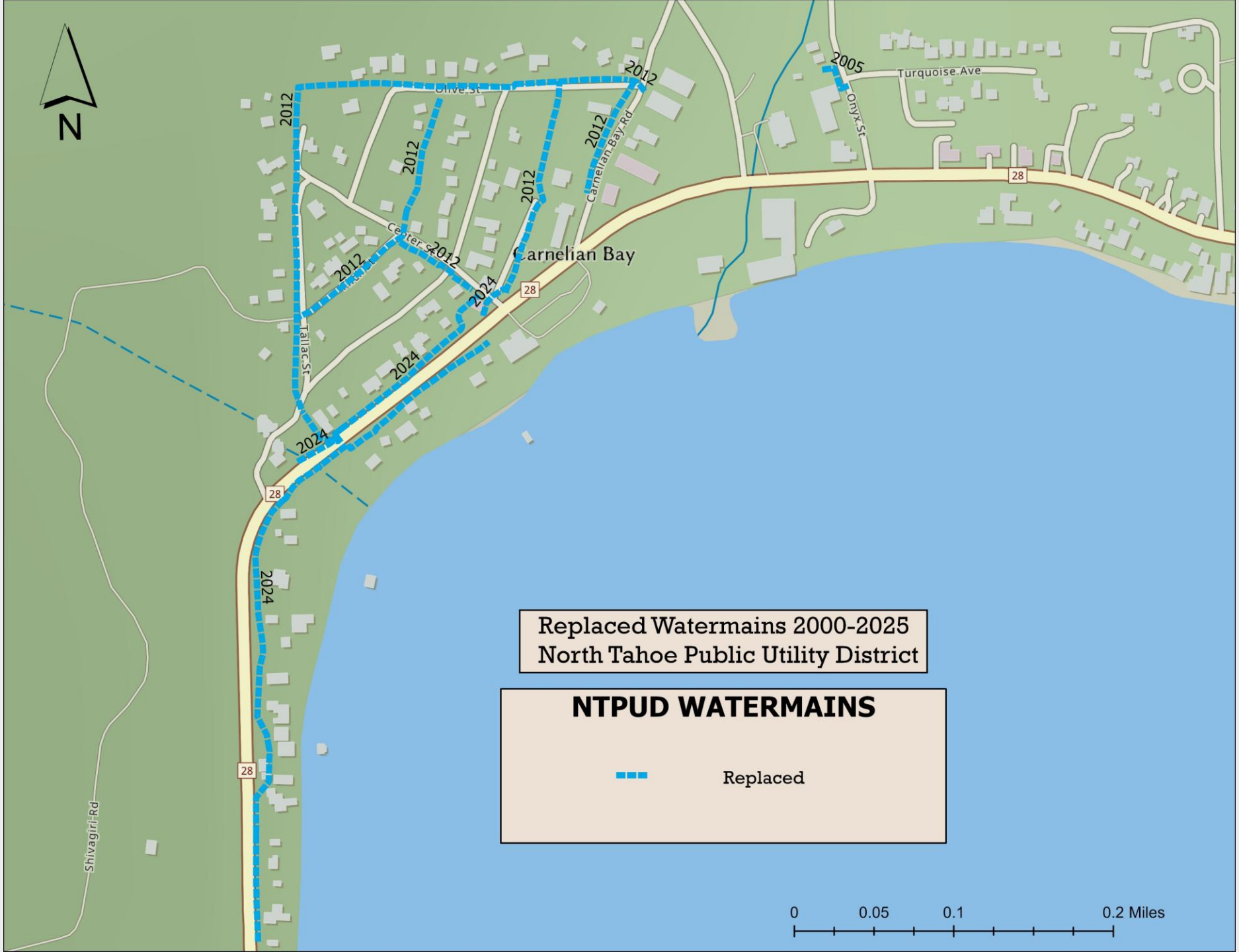

North Tahoe Public Utility District
Fire Flow Sufficient Watermains in 2026
N
N Shore Blvd
267
28
Regency Way
North Tahoe Regional Park
Tiger Ave
Old Brockway Golf Course
Griff Creek
Crystal Bay
Kings Beach
Tahoe Vista
Agate Bay
Victoria Rd
Sunset Rd
Ohara Dr
Carnelian Bay
Watson Creek
Ridgewood
Carnelian Heights
Cedar Flat
Old County Rd
Carnelian Bay
Dollar Point
Stateline Point
7752 ft
7650 ft
7124 ft
7334 ft
0 0.5 1 2 Miles


North Tahoe Public Utility District
Replaced Watermains
Replacement Years
2000 - 2004
2005 - 2009
2010 - 2014
2015 - 2019
2020 - 2025
0
0.25
0.5
1 Miles
N
N Shore Blvd
Regency Way
North Tahoe Regional Park
7124 ft
Tiger Ave
Old Brockway Golf Course
Brassie Ave
Tahoe Vista
Kings Beach
Granite Rd
Victoria Rd
Sunset Rd
Sahara Dr
Agate Bay
Statelin Rocks
267
28


Replaced Watermains 2000-2025
North Tahoe Public Utility District
NTPUD WATERMAINS
Replaced
0
0.13
0.25
0.5 Miles
N
Kings Beach
Speckled Ave
Loch Levon Ave
Steelhead Ave
Golden Ave
Rainbow Ave
Brook Ave
Salmon Ave
Minnow Ave
Kings Beach Elementary School
Kings Beach State Recreation Area
Ferraris Crown Resort
Tahoe Edgelake Beach Club
Safeway
The Log Cabin
Brassie Ave
Midiron Ave
Deer St
Bear St
Raccoon St
Fox St
Chipmunk St
Beaver St
Bend Ave
6338 ft
6325 ft
6266 ft
28


Replaced Watermains 2000-2025
North Tahoe Public Utility District
NTPUD WATERMAINS
Replaced
0
0.07
0.15
0.3 Miles
N
N Shore Rd
Canterbury Dr
Regency Way
Commonwealth
Griff Creek
Kingswood Dr
Forest Glen
Cambridge Dr
Pinedrop Ln
North Ave
Tiger Ave
Lily Ave
6433 ft
6368 ft
267
2010
2009
2014
2016


N
Regional Park
Shelter-Rd
2015
National-Ave
6408 ft
Wildwood-Rd
Mountain-Cir
Estates-Dr
Idlewood-Rd
2023
Gray-Ln
2023
Toyon-Rd
6260 ft
W-Agatam-Ave
Pino-Ave
Agatam-Ave
Pino-Grande-Ave
6232 ft
Fawn-Ln
2013
2013
2013
Laurel-Dr
28
Tahoe Vista
2021
2021
2021
2010
Replaced Watermains 2000-2025
North Tahoe Public Utility District
NTPUD WATERMAINS
Replaced
0
0.1
0.2
0.4 Miles


N
Olive St
Center St
Tallac St
Carnelian Bay Rd
Onyx St
Turquoise Ave
Carnelian Bay
Shivagiri Rd
28
2012
2024
2005
Replaced Watermains 2000-2025
North Tahoe Public Utility District
NTPUD WATERMAINS
Replaced
0
0.05
0.1
0.2 Miles

Watermain Projects

2000-2004	2005-2009	2010-2014	2015-2019	2020-2025
Total Project Length 4,775 FT	Total Project Length 6,106 FT	Total Project Length 18,437 FT	Total Project Length 11,888 FT	Total Project Length 16,923 FT
Total Cost $736,885	Total Cost $1,151,430	Total Cost $3,066,962	Total Cost $3,703,233	Total Cost $12,569,550
Avg. Cost Per FT $154.5	Avg. Cost Per FT $172	Avg. Cost Per FT $220	Avg. Cost Per FT $337	Avg. Cost Per FT $696.5

What NTPUD has completed:

- Total feet/miles and cost of watermain pipes that have been replaced between the years 2000 and 2025:

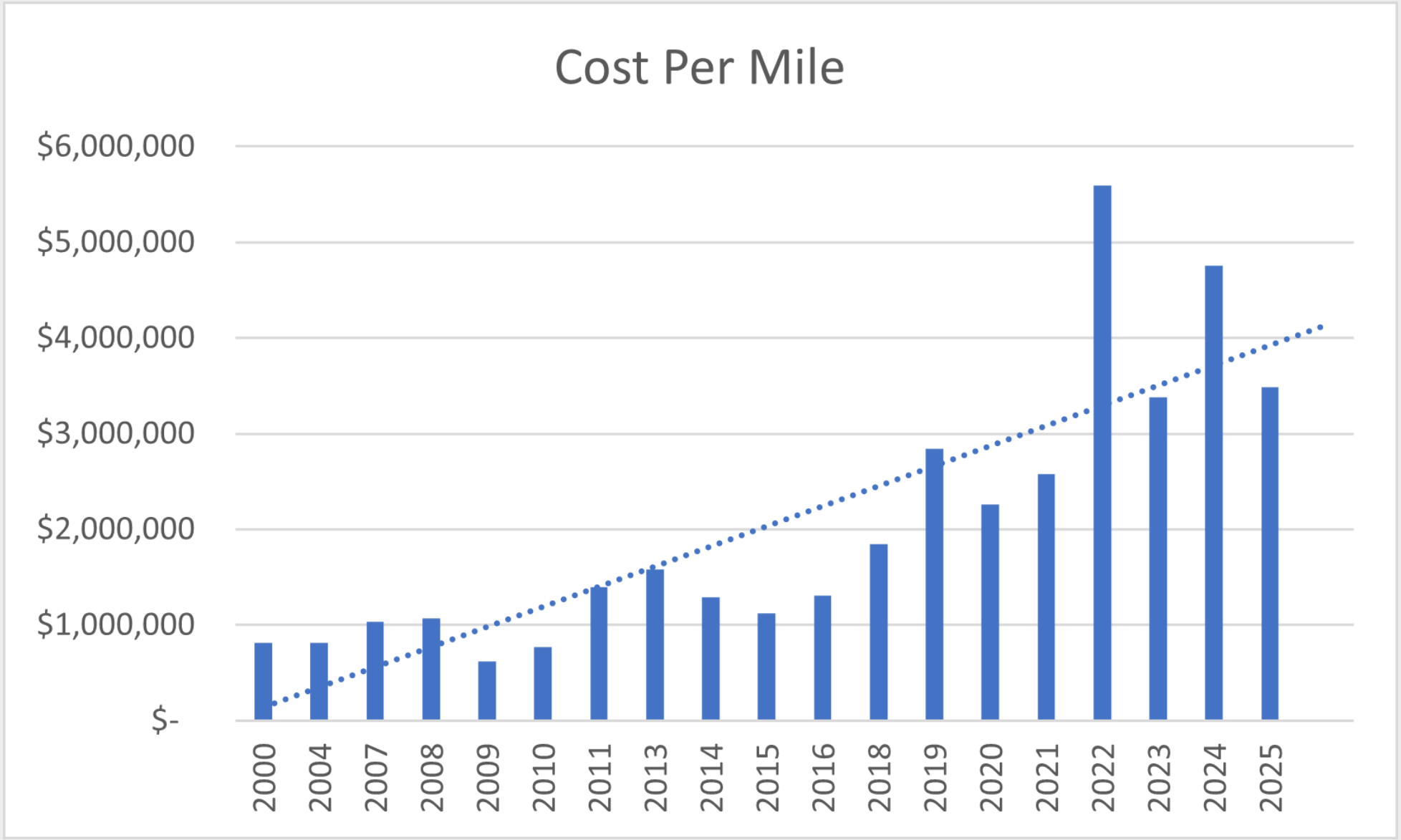
62,052 ft 11.75 mi	$21,228,060

- Total miles of watermain pipes replaced in the last 5 years:

4.12 mi

- Out of the 4.12 mi replaced:

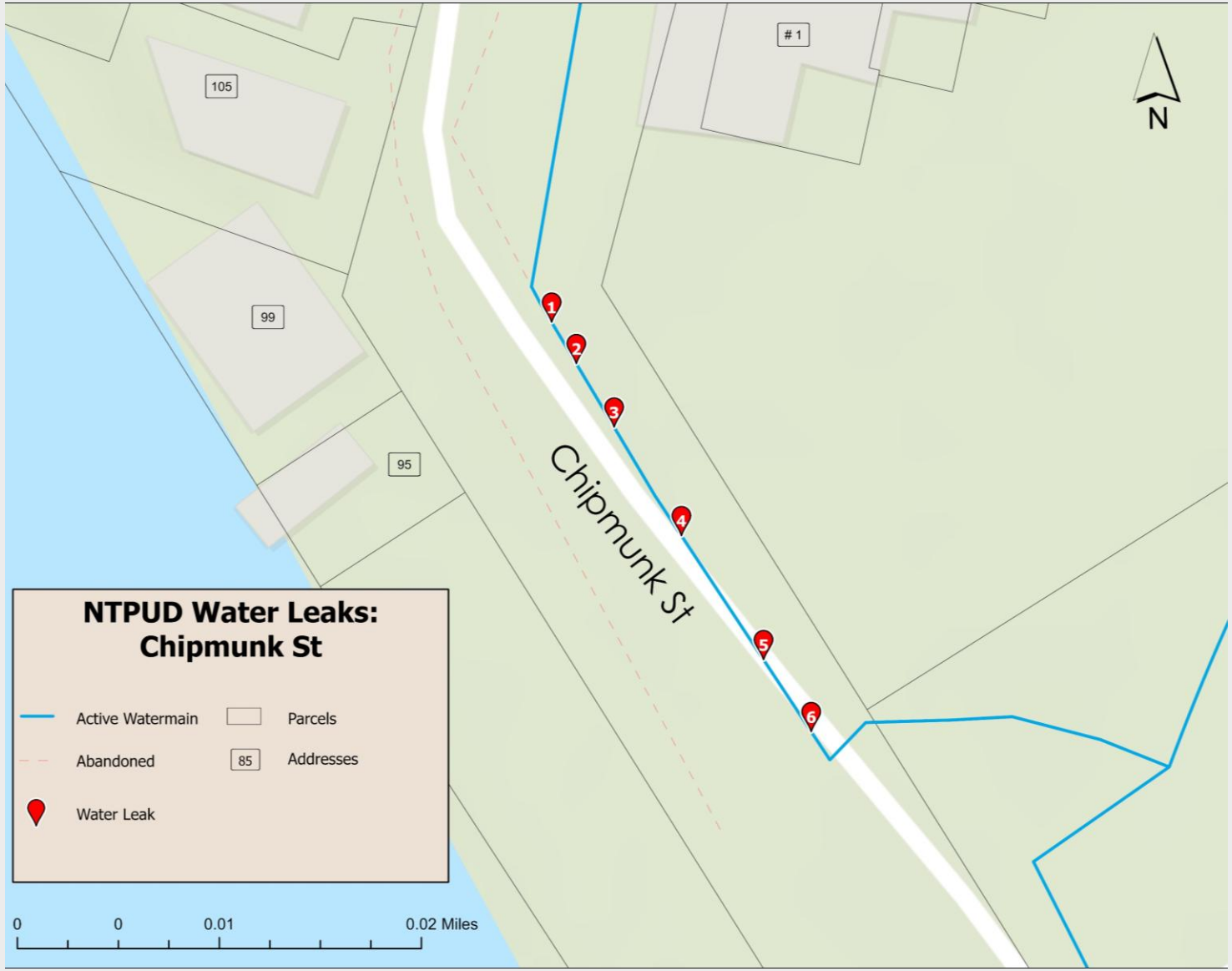
Fire Flow: 4.01 mi	$14,747,000
Non-Fire Flow: 0.11 mi	$405,000

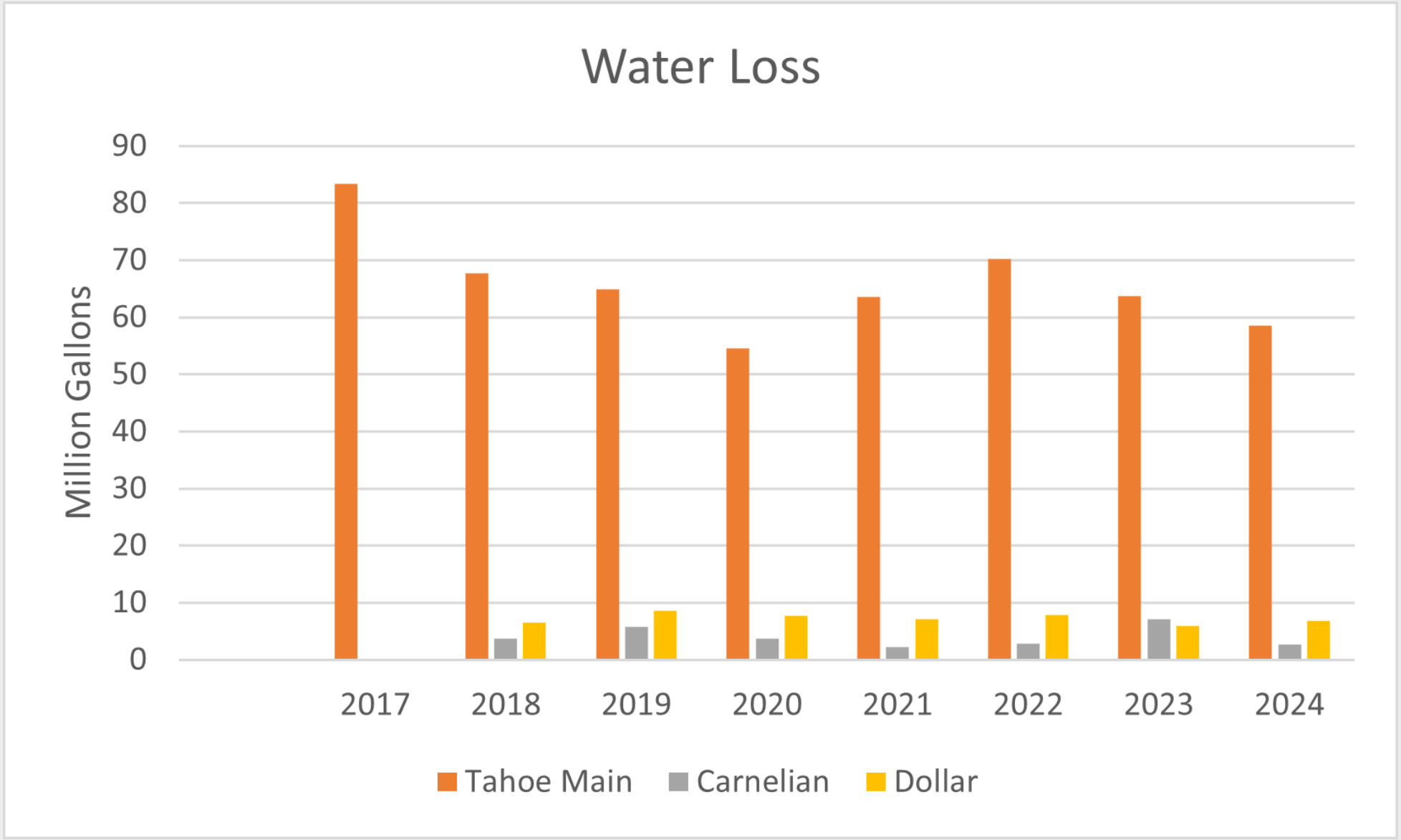

Cost Per Mile
$6,000,000
$5,000,000
$4,000,000
$3,000,000
$2,000,000
$1,000,000
$-
2000
2004
2007
2008
2009
2010
2011
2013
2014
2015
2016
2018
2019
2020
2021
2022
2023
2024
2025

How do we choose which projects to focus on?

- Case Example: Six leak repairs on Chipmunk St completed within the past two years.

- 8/28/25 Involved installing 7 clamps




Water Loss
Million Gallons
90
80
70
60
50
40
30
20
10
0
2017
2018
2019
2020
2021
2022
2023
2024
Tahoe Main
Carnelian
Dollar

What NTPUD still has ahead:

- Total feet/miles of watermain pipes that still need to be replaced, and cost estimated using today's cost:

  86,543 ft (16.4 mi) $57,177,000

- Out of the 16.4 mi that need to be replaced:

  Non-Fire Flow: 9.3 mi $33,544,000

  Fire Flow: 7.1 mi $23,633,000 (50% Grant Eligible)

- District Commitment in Todays Dollars:

$45,360,000 (Assuming 50% grants) – 15-years at $3,000,000/year

$57,177,000 (Assuming no grants) – 19-years at $3,000,000/year

Capital Improvement Program
5-Year Capital Plan Presentation (FY 2026/27 – FY 2030/31)

Draft Capital Improvement Plan for FY 2026/27

NTPUD – Board of Directors Workshop

May 1, 2026

Budget Schedule

April 24, 2026 (Complete)

- Fiscal Year 2026/27 Strategic Focus and Draft Budget Parameters

May 1, 2026 (Today)

- FY 2026/27 Capital Improvement Budget
- 5-Year Capital Improvement Plan (2026/27 - 2030/31)

May 12, 2026

- FY 2026/27 Budget Workshop

June 9, 2026

- Proposed Budget Approval

Discussion Topics

- Capital Improvement Program – 5-year Plan
  - Cost-of-Service Study (COSS) Completed with 5-year Water and Wastewater Rate Adjustments – March 7, 2024
  - Entering Year 3 of Rate Adjustments
  - CFO completed analysis of cash flow and fund balance
  - No inflation shock built in. Utilized historical construction cost inflation in CIP. Adjusted project estimates on recent bids
  - AI and data centers affecting electrical work and computers
  - Utilization of Fund Balance for Water and Sewer Projects
- State and Federal Funding Opportunities

5-Year CIP Fund Level Comparisons

5-Year CIP (FY 2024/25-FY 2028/29)	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	TOTAL
WASTEWATER	$ 879,750	$ 1,274,758	$ 1,663,077	$ 2,226,195	$ 2,737,617	$ 8,781,397
WATER	$ 1,852,650	$ 2,131,738	$ 3,093,323	$ 3,345,030	$ 3,889,673	$ 14,312,414
RECREATION & PARKS	$ 1,165,000	$ 610,000	$ 430,000	$ 1,580,000	$ 946,250	$ 4,731,250
GENERAL & ADMINISTRATIVE AND BASE	$ 355,000	$ 70,000	$ 40,000	$ 40,000	$ 80,000	$ 585,000
FLEET	$ 205,000	$ 675,000	$ 150,000	$ 750,000	$ 150,000	$ 1,930,000
5-Year COSS CIP Planned Expenditures	$ 4,457,400	$ 4,761,496	$ 5,376,400	$ 7,941,225	$ 7,803,540	$ 30,340,061

5-Year CIP (FY 2024/25-FY 2028/29)	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	TOTAL
WASTEWATER	$ 650,500	$ 1,309,000	$ 1,936,000	$ 2,586,500	$ 2,683,000	$ 9,165,000
WATER	$ 3,300,000	$ 3,527,000	$ 989,500	$ 3,185,500	$ 2,849,000	$ 13,851,000
RECREATION & PARKS	$ 1,180,000	$ 1,480,000	$ 820,000	$ 860,000	$ 900,000	$ 5,240,000
GENERAL & ADMINISTRATIVE AND BASE	$ 355,000	$ 100,000	$ 40,000	$ 40,000	$ 80,000	$ 615,000
FLEET	$ 255,000	$ 700,000	$ 175,000	$ 750,000	$ 150,000	$ 2,030,000
5-Year CIP Plan Previously Approved	$ 5,740,500	$ 7,116,000	$ 3,960,500	$ 7,422,000	$ 6,662,000	$ 30,901,000

5-Year CIP (FY 2025/26-FY 2029/30)	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	TOTAL
WASTEWATER	$ 1,790,000	$ 2,040,000	$ 2,280,000	$ 2,225,000	$ 2,055,000	$ 10,390,000
WATER	$ 2,016,000	$ 2,100,000	$ 2,295,000	$ 3,270,000	$ 3,085,000	$ 12,766,000
RECREATION & PARKS	$ 3,320,000	$ 1,250,000	$ 1,380,000	$ 930,000	$ 1,420,000	$ 8,300,000
GENERAL & ADMINISTRATIVE AND BASE	$ 580,000	$ 100,000	$ 115,000	$ 80,000	$ 100,000	$ 975,000
FLEET	$ 401,000	$ 1,200,000	$ 970,000	$ 70,000	$ 60,000	$ 2,701,000
5-Year CIP Previously Approved	$ 8,107,000	$ 6,690,000	$ 7,040,000	$ 6,575,000	$ 6,720,000	$ 35,132,000

5-Year CIP (FY 2026/27-FY 20230/31)	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	TOTAL
WASTEWATER	$ 2,915,000	$ 2,810,000	$ 1,885,000	$ 1,890,000	$ 2,080,000	$ 11,580,000
WATER	$ 3,190,000	$ 3,975,000	$ 3,820,000	$ 3,455,000	$ 3,515,000	$ 17,955,000
RECREATION & PARKS	$ 1,890,000	$ 1,630,000	$ 1,330,000	$ 1,700,000	$ 1,820,000	$ 8,370,000
GENERAL & ADMINISTRATIVE AND BASE	$ 1,575,000	$ 285,000	$ 90,000	$ 100,000	$ 40,000	$ 2,090,000
FLEET	$ 1,175,000	$ 920,000	$ 170,000	$ 130,000	$ 70,000	$ 2,465,000
5-Year CIP Plan Proposal	$ 10,685,000	$ 9,620,000	$ 7,295,000	$ 7,275,000	$ 7,440,000	$ 42,460,000

Comparison with Prior Year 5-Year CIP Plan

Division	5-Year CIP (FY 2025/26-FY 2029/30)	5-Year CIP (FY 2026/27-FY 2030/31)	Change
WASTEWATER	$ 10,390,000	$ 11,580,000	$ 1,190,000
WATER	$ 12,766,000	$ 17,955,000	$ 5,189,000
RECREATION & PARKS	$ 8,300,000	$ 8,370,000	$ 70,000
GENERAL & ADMINISTRATIVE AND BASE	$ 975,000	$ 2,090,000	$ 1,115,000
FLEET	$ 2,701,000	$ 2,465,000	$ (236,000)
Total Changes	$ 35,132,000	$ 42,460,000	$ 7,328,000

- Wastewater – Satellite Pump Station Cost Increases
- Water – 5-year Watermain Replacement Program @ ~ 2,600 feet per year
- Water – National Avenue Water Treatment Plant Construction Cost
- Recreation & Parks – Secline Property Improvements
- General & Administrative – Annex Garage and Seismic Improvements
- Fleet – 2nd Vac-Con Truck

Wastewater 5-Year CIP – What is Changing?

WASTEWATER CIP

- Changes from FY 2025/26 5-year CIP to FY 2026/27 5-year CIP
  - Construction Cost Increase to 8 Satellite Sewer Pumping Stations. $3.1M To $5.3M after opening bids in Fall 2025
  - Replacement of SCADA Infrastructure at multiple Pump Stations
- Status Quo Projects in the CIP
  - Sewage Export System Analysis/Inspection – Complete system analysis and evaluation of condition assessment technologies
  - Sewer main rehabilitation projects begins in 2028/29 based on review of condition assessment data – After Sewer Pump Stations are Complete
  - Utilize condition assessment from EAM (Lucity) to prioritize gravity sewer main & District owned lateral rehabilitations
  - State Route 28 adjust structures contract with CalTrans

Proposed 5-Year Wastewater CIP

WASTEWATER	Return to Reserves	Rollforward	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	Total Budget
Sewage Export System Improvements	$ -	$ 91,630	$ 750,000	$ 500,000				$ 1,250,000
Satellite PS Improvements Project - 3 Stations Phase 1	$ -	$ (749,531)	$ 800,000					$ 800,000
State Route 28 Adjust Structures - Wastewater	$ -	$ 133,038						$ -
Lower Lateral CIPP Rehabilitation	$ 85,000	$ -						$ -
Sewer Force Main Improvements	$ 34,446	$ -						$ -
Sewer Collection System Improvements	$ 85,000	$ -						$ -
SCADA Infrastructure Improvements	$ 10,953	$ -						$ -
Sewage Pump Station Improvements	$ (9,668)	$ -						$ -
Satellite PS Improvements Project - 2 Stations Phase 2	$ -	$ (6,018)	$ 500,000	$ 900,000				$ 1,400,000
Satellite PS Improvements Project - 3 Stations Phase 3			$ 120,000	$ 1,000,000	$ 1,000,000			$ 2,120,000
Sewer Gravity Main Improvements					$ 200,000	$ 1,500,000	$ 1,600,000	$ 3,300,000
Lower Lateral CIPP Rehabilitation			$ 85,000	$ 85,000	$ 85,000	$ 90,000	$ 90,000	$ 435,000
Sewer Force Main Improvements			$ 85,000	$ 85,000	$ 85,000	$ 90,000	$ 90,000	$ 435,000
Sewer Collection System Improvements			$ 85,000	$ 85,000	$ 85,000	$ 90,000	$ 90,000	$ 435,000
Sewage Pump Station Improvements			$ 85,000	$ 85,000	$ 85,000	$ 85,000	$ 90,000	$ 430,000
Lower Lateral Replacement			$ 85,000		$ 85,000		$ 85,000	$ 255,000
Dollar Main SCADA Infrastructure Improvements			$ 85,000					$ 85,000
SCADA Infrastructure Improvements			$ 85,000					$ 85,000
C-1 SCADA Infrastructure Improvements			$ 60,000					$ 60,000
D-3 SCADA Infrastructure Improvements			$ 60,000					$ 60,000
Pavement Maintenance - Slurry Seal					$ 30,000			$ 30,000
Grinder Pump Station Replacement				$ 40,000	$ 200,000			$ 240,000
Joint Sewer Facility Capital			$ 30,000	$ 30,000	$ 30,000	$ 35,000	$ 35,000	$ 160,000
Total Wastewater Capital	**$ 205,731**	**$ (530,881)**	**$ 2,915,000**	**$ 2,810,000**	**$ 1,885,000**	**$ 1,890,000**	**$ 2,080,000**	**$ 11,580,000**

Water 5-Year CIP – What is Changing?

WATER CIP

- Changes from FY 2025/26 5-year CIP to FY 2026/27 5-year CIP
  - Increase Project Budget for National Ave Water Treatment Project
  - Watermain Replacement @ ~2,600 ft per year for 5-years
  - Replacement of SCADA Infrastructure at Kingswood & Carnelian Pump Stations
  - Carnelian and Park Well Assessments
- Status Quo Projects in the CIP
  - Annual projects to repair and replace water infrastructure assets (pumps, valves, motors, building improvements)
  - Infill Water Service line replacement projects

Proposed 5-Year Water CIP

WATER	Return to Reserves	Rollforward	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	Total Budget
National Ave Water Treatment Plant Equipment Improvements Project	$ -	$ (251,817)	$ 400,000	$ 1,700,000	$ 1,400,000			$ 3,500,000
State Route 28 Adjust Structures - Water	$ -	$ 21,000						$ -
2026 Watermain Replacement Project	$ -	$ (1,824,700)	$ 2,000,000					$ 2,000,000
Water System Consolidation	$ -	$ 70,779						$ -
Water PS Mechanical and Electrical Improvements			$ 85,000	$ 85,000	$ 85,000	$ 90,000	$ 90,000	$ 435,000
Water Facility Improvements			$ 85,000	$ 85,000	$ 85,000	$ 90,000	$ 90,000	$ 435,000
2027 Brook, Salmon, Yacht & Dip Drinking Water and Fire			$ 250,000	$ 1,800,000				$ 2,050,000
2028 Dollar Cove Drinking Water and Fire Protection Infrastructure				$ 50,000	$ 2,200,000			$ 2,250,000
2029 Brockway Fire Protection Infrastructure					$ 50,000	$ 2,300,000		$ 2,350,000
2030 Kings Beach SR 28 Water and Fire Infrastructure						$ 100,000	$ 3,000,000	$ 3,100,000
Kingswood West SCADA Infrastructure Improvements			$ 85,000					$ 85,000
SCADA Infrastructure Improvements			$ 85,000					$ 85,000
Western Approach Watermain Relocation - Placer County				$ 225,000				$ 225,000
Brockway Hillside Service Replacements						$ 200,000		$ 200,000
Carnelian Woods Service Replacements						$ 300,000		$ 300,000
Plaza Circle Loop Watermain						$ 250,000		$ 250,000
Kings Beach Tank Site Security Improvements						$ 75,000		$ 75,000
Carnelian Well Rehabilitation			$ 200,000					$ 200,000
Park Well Rehabilitation						$ 50,000	$ 300,000	$ 350,000
Pavement Maintenance - Slurry Seal				$ 30,000			$ 35,000	$ 65,000
Total Water Capital	**$ (74,003)**	**$ (1,984,739)**	**$ 3,190,000**	**$ 3,975,000**	**$ 3,820,000**	**$ 3,455,000**	**$ 3,515,000**	**$ 17,955,000**

R&P 5-Year CIP – What is Changing?

RECREATION CIP

- Changes from FY 2025/26 5-year CIP to FY 2026/27 5-year CIP
  - NTEC Roof Replacement Design
  - NTEC Tree Lighting
  - Community Gathering Space Art – Grant Funded
  - NTRP Field #4 Turf Replacement, Tennis/Pickleball Court Resurfacing
  - NTEC North Restroom Remodel Lakeview Suite
- Status Quo Projects in the CIP
  - Secline Supplemental Environmental Project Design and Construction
  - Dredging and Floating Dock Replacement tentative for Spring 2027
  - Pinedrop Trail Reconstruction and Snow Creek Connector Trail
    - $400,000 Grant Funding in FY 26/27 for Design. No construction funds budgeted.
  - NTRP Asphalt Replacement, Field #5 ADA, Field #1 Electrical, Infill Amenity (skatepark/basketball)
  - NTEC Carpet and HVAC Controls
  - Recurring CIP for small projects at NTRP and NTEC
  - Continue NTRP Parking Management Project

Proposed 5-Year Recreation & Parks CIP

RECREATION & PARKS	Return to Reserves	Rollforward	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	Total Budget
Secline Property Improvements **	$ -	$ (85,072)	$ 300,000	$ 1,000,000				$ 1,300,000
Regional Park Parking Management **	$ -	$ 122,573						$ -
Pinedrop Trail Reconstruction (Final Design)			$ 350,000					$ 350,000
Snow Creek Connector Trail (Final Design)			$ 300,000					$ 300,000
Pavement Maintenance - Slurry Seal			$ 40,000				$ 40,000	$ 80,000
Parks Building - Roof Replacement				$ 60,000				$ 60,000
Park Facility Improvements			$ 60,000	$ 60,000	$ 60,000	$ 60,000	$ 60,000	$ 300,000
TVRA - Dredging Project			$ 400,000					$ 400,000
TVRA - Floating Dock Replacement			$ 100,000					$ 100,000
TVRA - Bathroom Remodel (Design)						$ 60,000		$ 60,000
TVRA - East End Improvements (Design)							$ 60,000	$ 60,000
NTRP - Community Gathering Space Art			$ 120,000					$ 120,000
NTRP - Field #4 Parking and Drive AC Replacement				$ 50,000	$ 500,000			$ 550,000
NTRP - Ramada					$ 150,000			$ 150,000
NTRP - Lower Field Support Facility Improvements					$ 100,000			$ 100,000
NTRP - Field #1 Electrical Improvements						$ 250,000		$ 250,000
NTRP - Field #4 Turf Replacement						$ 1,000,000		$ 1,000,000
NTRP - Infill Amenity Improvements (Design)						$ 50,000	$ 300,000	$ 350,000
NTRP - ADA/Parking Improvements at Field #5						$ 60,000	$ 600,000	$ 660,000
NTRP - Tennis/Pickleball Court Resurface							$ 100,000	$ 100,000
NTEC - Facility Improvements			$ 60,000	$ 60,000	$ 60,000	$ 60,000	$ 60,000	$ 300,000
NTEC - Tree Lighting			$ 60,000					$ 60,000
NTEC - Roof Replacement			$ 100,000	$ 400,000				$ 500,000
NTEC - North Restrooms					$ 300,000			$ 300,000
NTEC - Carpet Replacement					$ 160,000			$ 160,000
NTEC - HVAC Controls Improvements						$ 100,000		$ 100,000
NTEC - Lakeview Suite Renovation						$ 60,000	$ 600,000	$ 660,000
Total Recreation and Parks Capital	**$ (8,187)**	**$ 37,501**	**$ 1,890,000**	**$ 1,630,000**	**$ 1,330,000**	**$ 1,700,000**	**$ 1,820,000**	**$ 8,370,000**

Fleet and Base

- Administration/Base
  - Annex Garage and Seismic Improvements – Increase $800K
  - Master Plan and Corp Yard Design – No construction funds budgeted
  - Recurring project for Base Admin Building Improvements
  - Network server replacements – Memory cost escalation (AI demands)
- Fleet
  - Vac-Con Truck Replacement – Ordered in 2025 and arrives in July
  - Regular ½ Ton Service Truck Purchases
  - Park Compact Utility Tractor Replacement
  - Vacuum Excavation/Valve Exerciser combination machine
  - Miscellaneous smaller equipment

Proposed 5-Year Base CIP

GENERAL & ADMINISTRATIVE AND BASE	Return to Reserves	Rollforward	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	Total Budget
Master Plan: Corporation Yard Layout (Land Use Planning)	$ -	$ (97,524)	$ 200,000	$ 100,000				$ 300,000
Annex Vactor Bay Addition	$ -	$ (1,015,415)	$ 1,200,000					$ 1,200,000
Server and Network Equipment Replacement	$ -	$ 15,000						$ -
Electric Vehicle Charging Station				$ 60,000				$ 60,000
Base Facility Improvements			$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 125,000
Server and Network Equipment Replacement			$ 150,000	$ 25,000	$ 25,000	$ 15,000	$ 15,000	$ 230,000
Administration Building Carpet Replacement				$ 75,000				$ 75,000
Pavement Maintenance - Slurry Seal					$ 40,000			$ 40,000
Administration Building Interior Paint						$ 60,000		$ 60,000
Total G&A Capital	**$ (12,374)**	**$ (1,097,939)**	**$ 1,575,000**	**$ 285,000**	**$ 90,000**	**$ 100,000**	**$ 40,000**	**$ 2,090,000**

Proposed 5-Year Fleet CIP

FLEET	Return to Reserves	Rollforward	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	Total Budget
11-Yard Vac-Con	$ -	$ (665,357)	$ 700,000					$ 700,000
Vaccuum Excavation Trailer/Valve Exerciser	$ -	$ 15,000	$ 175,000					$ 175,000
5-Yard Vac-Con			$ 10,000	$ 800,000				$ 810,000
Truck: 1/2 ton 1500HD 4x4 GMC Sierra			$ 70,000	$ 70,000	$ 70,000	$ 70,000	$ 70,000	$ 350,000
Mechanical Wheelbarrow			$ 25,000					$ 25,000
Pavement Wet Saw			$ 35,000					$ 35,000
Sewer CCTV Camera Muti-Conductor Wheeled			$ 45,000					$ 45,000
Sewer CCTV Camera			$ 55,000					$ 55,000
Recreation and Parks Compact Utility Tractor			$ 60,000					$ 60,000
Crane Truck				$ 50,000	$ 100,000			$ 150,000
GMC Van						$ 60,000		$ 60,000
Total Fleet Capital	**$ 142,421**	**$ (650,357)**	**$ 1,175,000**	**$ 920,000**	**$ 170,000**	**$ 130,000**	**$ 70,000**	**$ 2,465,000**

State and Federal Funding

- Federal Funding for Water Infrastructure for Fire Suppression
  - $766K in FY 27/28
- Bureau of Reclamation Water Meters
- Placer County/NTCA TOT/TBID Grants
  - Targeted for Secline Project and NTRP Amenity Infill Project
- Placer County Park Dedication Fees
  - Targeted for Field #4 Turf Replacement and NTRP Amenity Infill Project
- California Tahoe Conservancy Grants
  - Targeted for Secline Project and TVRA Restroom Improvements
- Other State of California Grants
  - NTEC Climate Resiliency Center Opportunity
  - Habitat Conservation Fund - Trails

NORTH TAHOE
PUBLIC UTILITY DISTRICT

DATE: May 1, 2026 **ITEM:** C-4

FROM: Planning and Engineering Department

SUBJECT: Authorize the General Manager to Execute a Purchase Order for the Procurement of Information Technology Server and Network Equipment

RECOMMENDATION:

Authorize the General Manager to execute a Purchase Order with Spearus in the amount of $139,400 for the procurement of information technology server and network equipment.

DISCUSSION:

The North Tahoe Public Utility District Information Technology (IT) technical environment consists of three (3) environments: Administrative Office Complex, the North Tahoe Event Center, and off-site Recreation and Parks locations. There are now approximately fifty (50) workstations, five (5) customer service point of sale locations, and a number of network appliances, systems, and software applications. The District hosts on premises servers in a virtualized environment and utilizes cloud-based services. Remote access is provided to staff as needed for field and remote work. Desktops, laptops, tablets and phones are used across the District. The complexity and sophistication of the IT service environment evolves at a rapid pace and requires a combination of staff and a managed service provider to provide a functioning and secure IT system.

The District's IT server and network equipment are approaching the end of their useful service life and require a comprehensive replacement to ensure continuous performance requirements and to meet storage needs and security standards. The equipment to be replaced includes:

- Network Servers – two (2)
- Dedicated Network Storage Device – one (1)
- Network Switches (Ethernet traffic controller) – two (2)

District Staff worked with our Information Technology Managed Service Provider, Infinity Technologies, to specify the equipment requirements and solicit a proposal from a certified Technology Provider. As the quote details IT security critical equipment and is not subject to public disclosure in accordance with California law, it is not attached to this memorandum but can be made available to District Board members for review on an as requested basis.

Importantly, the quote provided by Spearus is via the Omnia Partners Cooperative Procurement Agreements list, in which Spearus is an authorized reseller of Dell Technologies (NCPA OMNIA Contract – SLED [01-137]). Omnia Partners aggregates competitively

solicited cooperative purchasing contracts for the Public Sector, including K-12 and Governments, to provide leveraged, competitively solicited, and cooperatively shared procurement contracts.

Additionally, Spearus has submitted an application with the California Procurement Division under California Multiple Award Schedules (CMAS), which they expect final approval in the coming weeks. Spearus has submitted the same pricing to CMAS as they have for OMNIA. CMAS offers a wide variety of commodity, non-IT Services, and IT products and services at prices that have been assessed to be fair, reasonable, and competitive. The CMAS Program creates a pool of suppliers that an agency can solicit offers from. The District has used CMAS for IT equipment, telecommunication services, as well as printer leasing.

FISCAL ANALYSIS:

The cost of network servers and network storage devices are experiencing significant cost increases because data centers and Artificial Intelligence investments are consuming all available random access memory (RAM) and storage memory. It has even been nicknamed RAMageddon as prices increased 15% in the first quarter of 2026 alone. The quote being provided by Spearus for the purchase of the server and network is only valid for seven days because of this rapidly increasing costs. It is expected that if we delay making this purchase for 60-days to make the purchase after July 1, the total cost of the equipment will increase by up to $20,000.

In authorizing the proposed Purchase Order, the Board would be committing to the purchase of the server and network equipment, but the delivery of the equipment and payment will not be made until after July 1 in Fiscal Year (FY) 2026/27.

The FY 2025/26 Capital Improvement Budget includes $15,000, and the proposed FY 2026/27 Capital Improvement Budget includes $150,000, in General & Administrative and Base Fund, for Server and Network Equipment Replacement for a total proposed budget of $165,000.

STRATEGIC PLAN ALIGNMENT:

Goal 4: Sustain and strengthen organizational resources, expertise, and culture – Objective E: Ensure reliability and security of the District's information technology systems.

MOTION:

Approve Staff Recommendation

REVIEW TRACKING:

Submitted By: 
Joseph J. Pomroy, P.E.
Engineering & Operations Manager

Approved By: 
Bradley A. Johnson, P.E.
General Manager/CEO

Reviewed By: _____

Patrick Grimes
Chief Financial Officer