

# Plano, TX Approach to EPA's Water Service Line Inventory

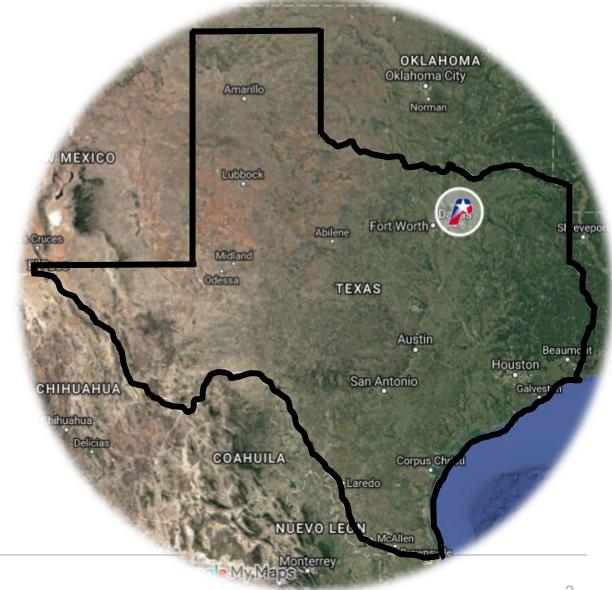
Abby Owens

Director of Public Works

City of Plano, TX

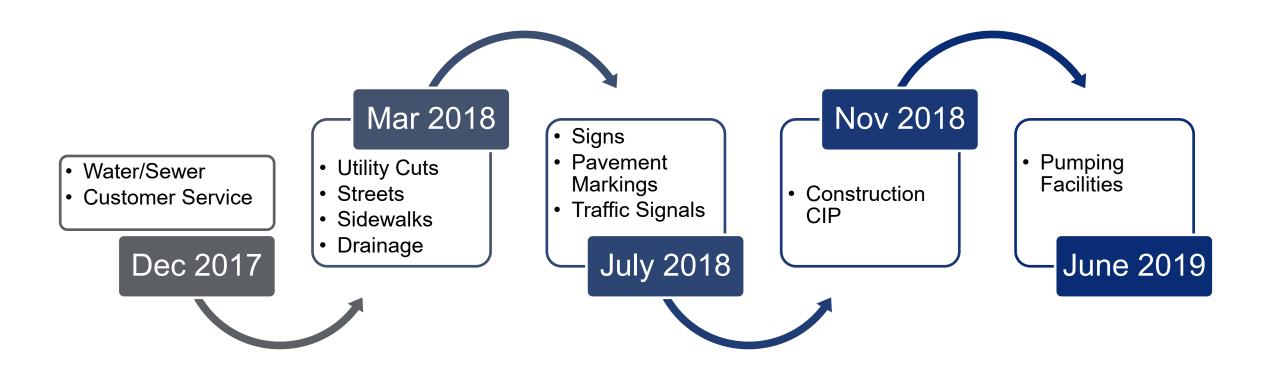


- 72 square miles
- 295,000 population
- 84,000+ water accounts
- Median Year Structure Built
   1993





## Plano's Asset Management Journey





# OpenGov/Cartegraph

102,619 water mains 52,889 valves Water & 17,009 fire hydrants 181 101 87,368 water meters Sewer 10 pump/lift stations Pads Users 22 water storage tanks

Signs &

Traffic

44,849 signs

24,561 supports

8165 pavement markings

256 signalized intersections

13,639 traffic assets



21,621 sewer mains

15,650 manholes

600,000+

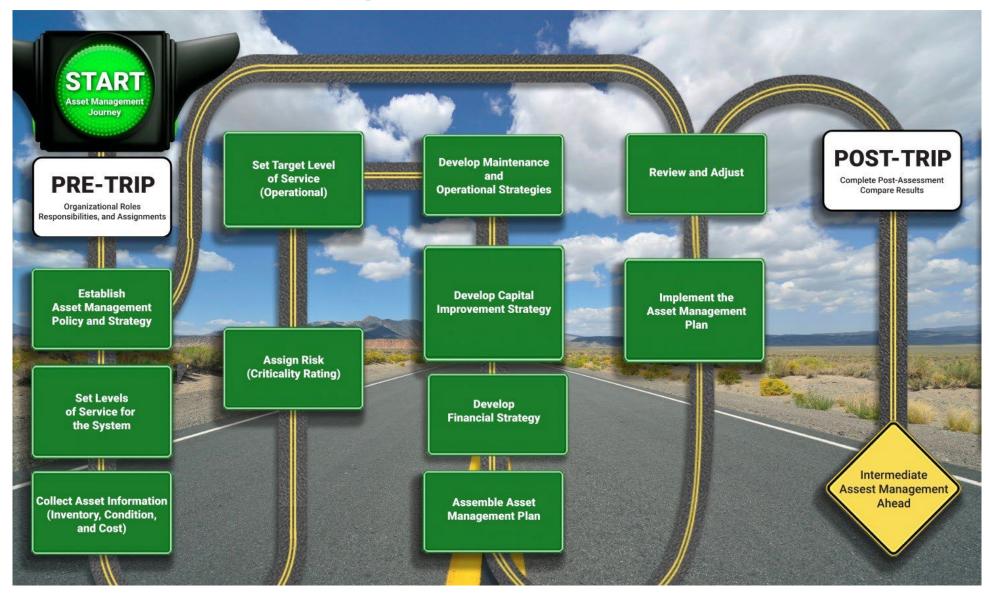
Assets

4,986 alleys 14,222 streets 96,990 storm assets 34,556 sidewalks 2,522 screening walls 193 guardrails

340 bridges



# **APWA Asset Management Road Map**



## **Water Service Line Inventory**

#### Goal:

- Visual representation of service line for public map
- Classify material by EPA guidelines
- Process to track actual material (public & private)
- Document Verification Methods
- Maintain data for annual updates to state





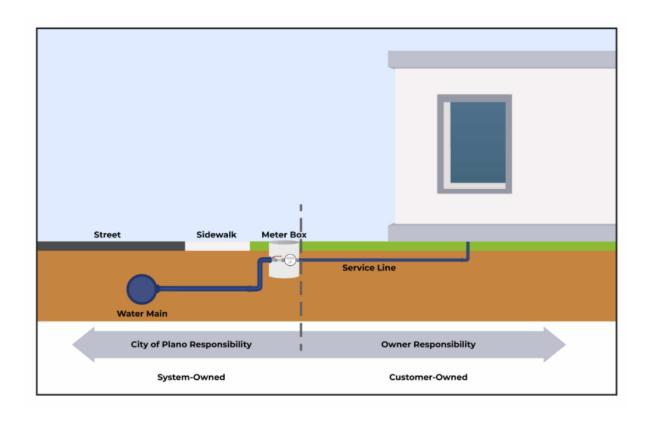
# **Water Service Line Inventory**

#### **Starting Point:**

- Water Meter Asset
- Water Main Asset with Install Date
- Parcel Construction Dates
- Historical Work/Data
- Trained Field Staff

#### **Needed Information:**

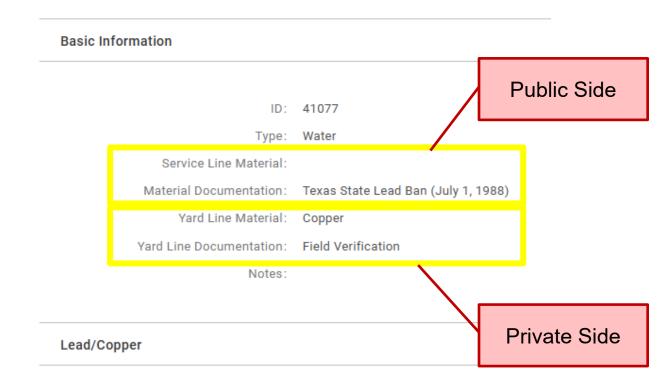
- Water Service Line Asset
- Material Classification
  - Public Side
  - Private Side
- Address or Location ID



#### Water Service Line 41077 Location Linked Water Meter Water Meter: 44322 Location Description: 2117 BENGAL LN Private Side Water Meter Service: W Parcel Date: 1/1/1978 Linked Water Main Water Main: 20287 Public Side Installed: 1/1/2001 Water Service Line Location Description: 2117 BENGAL LN Street: BENGAL LN

Zip Code: 75023

#### **Details**

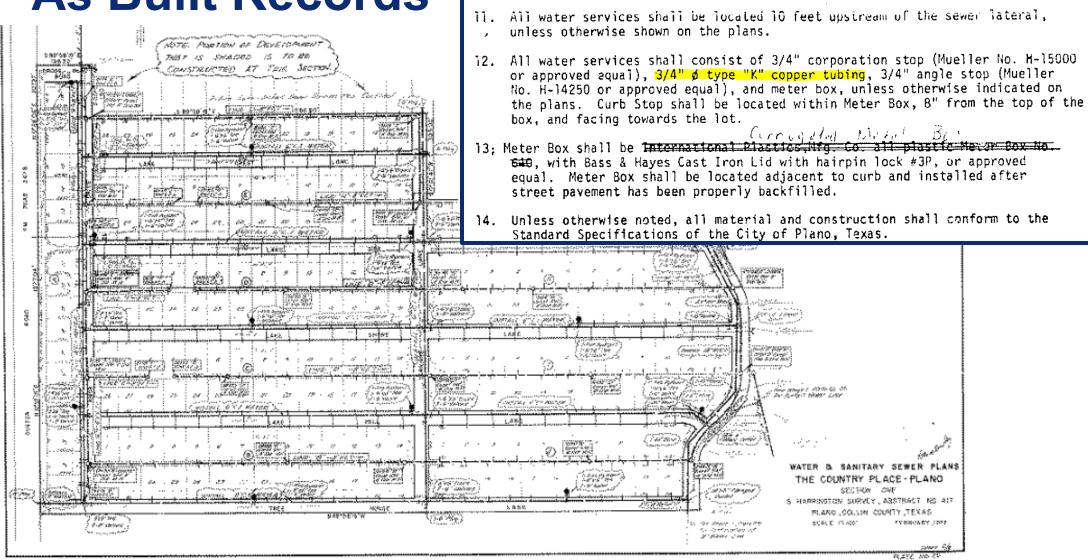


System Owned Classification: Non-Lead

Customer Owned Classification: Non-Lead

Entire Line Classification: Non-Lead

# Verification Methods – As Built Records



plans.

Sanitary sewer pipe joints shall conform to current ASTM Designation C-425

"Vitrified Clay Pipe Joints using Materials Having Resilient Properties".

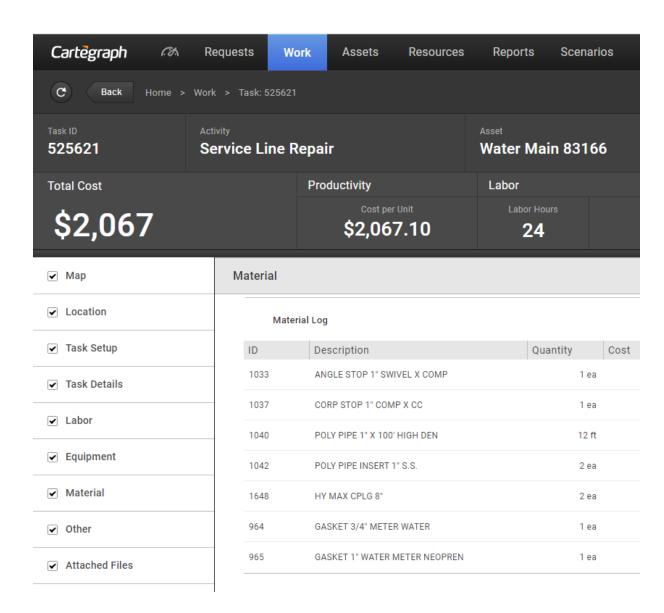
10. All sanitary sewer laterals shall include 4" V.C.T. Wye, bend, pipe, and stopper installed at the mid-point of each lot, unless otherwise shown on

# **Verification Methods – Building Permits**

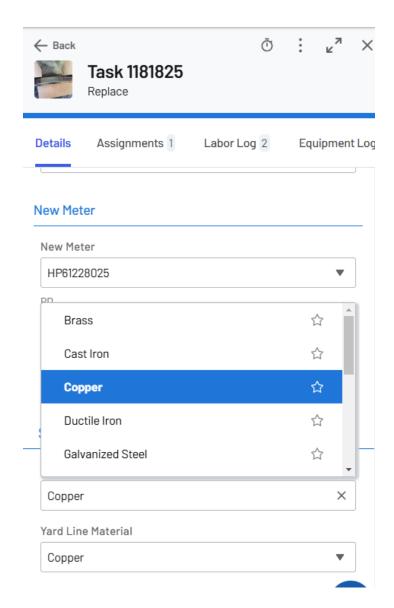
	А	В	С	G	J
1	PERMIT_NC ▼	SITE_ADDR	DESCRIPTION	STATUS J	Cartegrap
3023	BLD07-13775	1606 M AVE	WATER AND SEWER YARD LINE RELAY	CLOSED	Review Details
3027	BLD07-1469	3116 ROCKBROOK DR	WATER RELAY	CLOSED	Review Details
3150	BLD09-11553	2200 INDEPENDENCE PKY	WATER RELAY AND RPZ INSTALLATION	CLOSED	Review Details
3156	BLD09-11554	6800 ARCHGATE DR	WATER RELAY ONLY	CLOSED	Review Details
3157	BLD09-11555	1401 HIGHEDGE DR	WATER RELAY	CLOSED	Review Details
3188	BLD10-13534	2001 ANTWERP AVE	RELAY WATER SERVICE FROM METER TO HOUSE	CLOSED	Review Details
3198	BLD10-1498	2209 STONE CREEK DR	WATER RELAY AROUND TREE	CLOSED	Review Details
3212	BLD10-5363	2918 COIT RD	EXCAVATION & RELAY OF COPPER WATER LINE	CLOSED	Review Details
3217	BLD10-7196	2200 INDEPENDENCE PKY	WATER & SEWER SERVICES - NEW SERVICES	CLOSED	Review Details
3223	BLD10-8671	3404 RADCLIFFE DR	WATER RELAY	CLOSED	Review Details
3242	BLD11-12155	1713 OLD COURSE DR	22 FIXTURES WATER LINE REPLACEMENT	CLOSED	Review Details
3246	BLD11-12910	2913 BANDOLINO LN	YARD WATER SERVICE LINE REPLACEMENT	CLOSED	Review Details
3247	BLD11-13342	1704 SHIPROCK DR	REPL WATER LINE FROM METER TO HOUSE	CLOSED	Review Details
3248	BLD11-13643	7412 MARCHMAN WAY	WATER SERVICE RELAY FROM METER	CLOSED	Review Details
3249	BLD11-13728	1824 BURNINGTREE LN	REPAIR WATER LEAK BELOW SLAB	CLOSED	Review Details
3252	BLD11-13872	4513 BENTLEY DR	WATER SERVICE	CLOSED	Review Details
3253	BLD11-14270	4845 HEDGCOXE RD	NEW CONSTRUCTION OF DAY CARE FACILITY	CLOSED	Review Details
			ALTERATION OF EXIST SPACE/ADDITION OF MECH		
	BLD11-14438	6653 PINECREST DR	YARD	CLOSED	Review Details
	BLD11-1483	2308 BRIGHTON LN	REPAIR SLAB LEAK	CLOSED	Review Details
3256	BLD11-15013	6804 HELEN CT	REPAIR MAIN WATER LINE	CLOSED	Review Details
	BLD11-15103	1428 THAMES DR	WATER SERVICE RELAY IN FRONT YARD	CLOSED	Review Details
3258	BLD11-15289	1905 SANDPIPER LN	REPL WATER SERVICE	CLOSED	Review Details
2250	BI D11 15540	2200 HIGH COUNTRY WAY	REPLACE 2 EXISTING GAS WATER HEATERS IN	CLOSED	Daview Dataila
	BLD11-15549	2300 HIGH COUNTRY WAY	ATTIC(REN)	CLOSED	Review Details
	BLD11-1712	1013 FILMORE DR	REPLACE WATER SERVICE FROM METER TO HOUSE	CLOSED	Review Details
	BLD11-1742	2909 ROUNDROCK TRL	REPL WATER SERVICE	CLOSED	Review Details
3262	BLD11-1749	2205 VICKERS DR	RE-ROUTE WATER LINES	CLOSED	Review Details

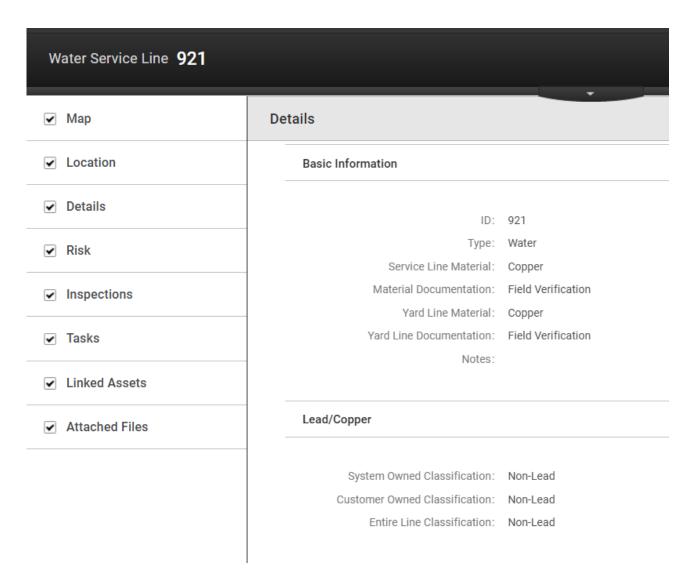
#### **Verification Methods – Historical Tasks**

- Service Line Repair Task (Water Main, Water Meter, and Non-Asset)
- Description of Work in Notes
- Material in Material Log
- Update Material and Documentation Method



#### **Verification Methods – Field**





#### **Plano Water Resources**

#### plano.gov/water

Plano cares about the quality of our water. Plano's water system has a "Superior" rating with the Texas Commission on Environmental Quality (TCEQ), and it exceeds all state and federal drinking water standards. We work together with our residents and fellow North Texas Municipal Water District member cities to provide reliable and safe water for your everyday use. Visit the links below to learn more about our water, ways to conserve, water quality and how to pay your bill.

#### **Helpful Water Information and Links**

#### Water Bill

Access your Plano water account online, view your water bill, start or stop services, or contact Customer & Utility Services.

#### **Lead and Copper Water Service Line Inventory**

The City of Plano has completed its initial lead and copper water service line inventory as required by the Environmental Protection Agency's (EPA) Lead and Copper Rule Revisions. More information on the City of Plano's efforts are available to the public through our Water Service Line Inventory platform.

# Water Service Line Inventory Program

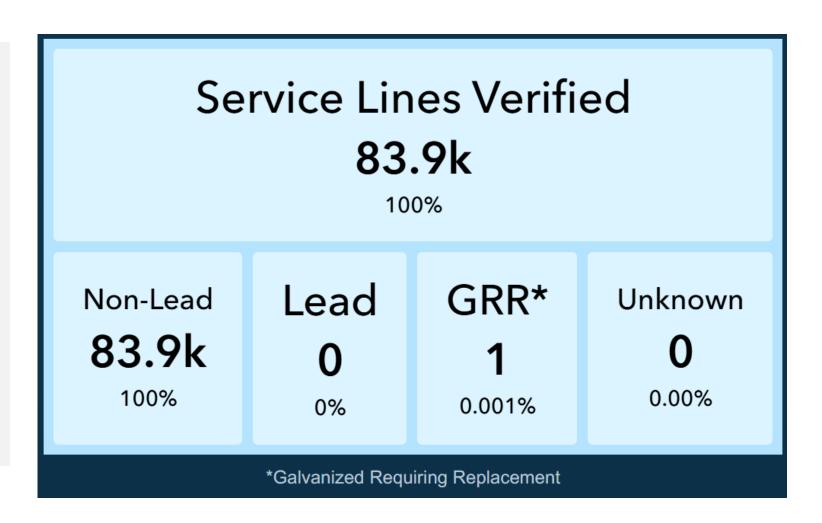
City of Plano



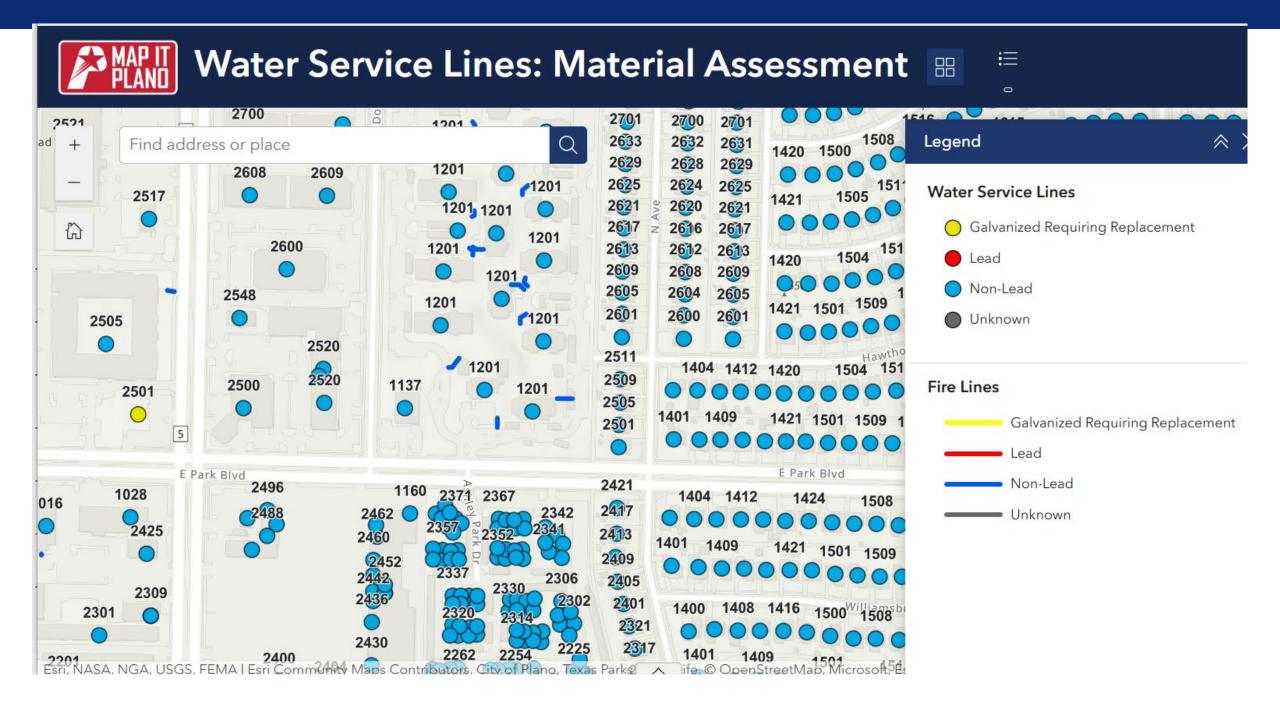


## **Story Map Approach**

- About the Inventory
- Lead & Copper Rule
- Plano's Data Approach
- Service Line Explanation
- EPA Categories
- Impact to Residents
- Interactive Map





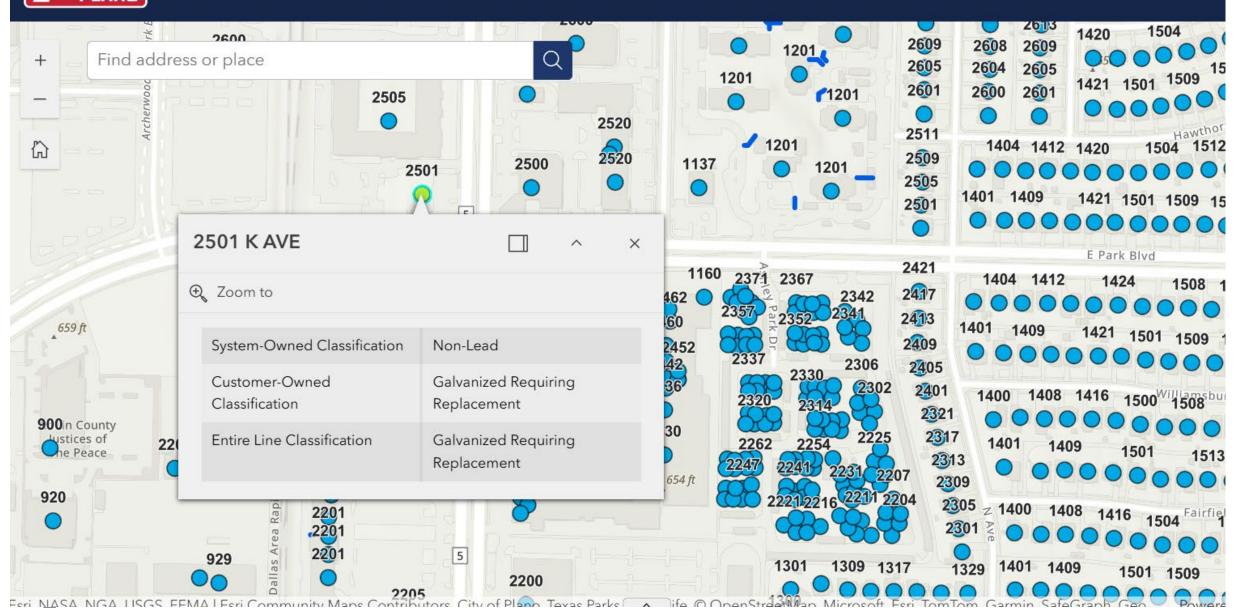




#### Water Service Lines: Material Assessment





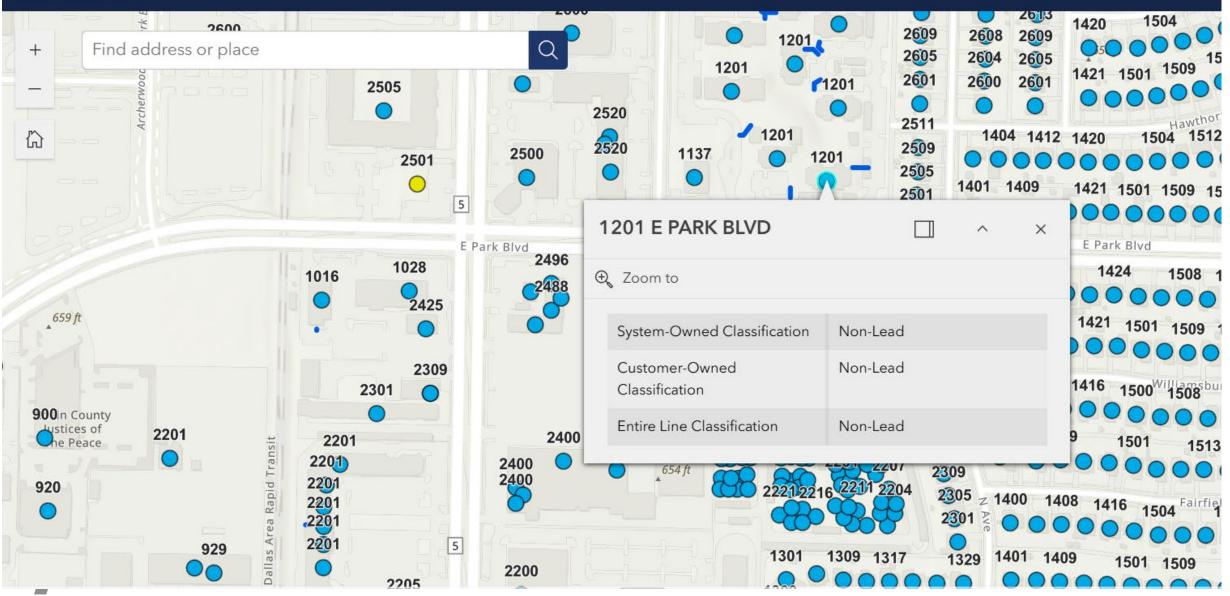




#### Water Service Lines: Material Assessment #







#### **Maintaining Inventory**

- New Meters & Service Lines
- Add Fire Lines (new & existing)
- Retired/Removed Meters & Service Lines
- Water Main Rehabs
- Updating Material Daily
- EPA Field Verification of As-Built









# **Questions?**

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