

PUBLIC WORKS

CITY COUNCIL PRESENTATION
June 7, 2016



FRUITA
COLORADO

PUBLIC WORKS

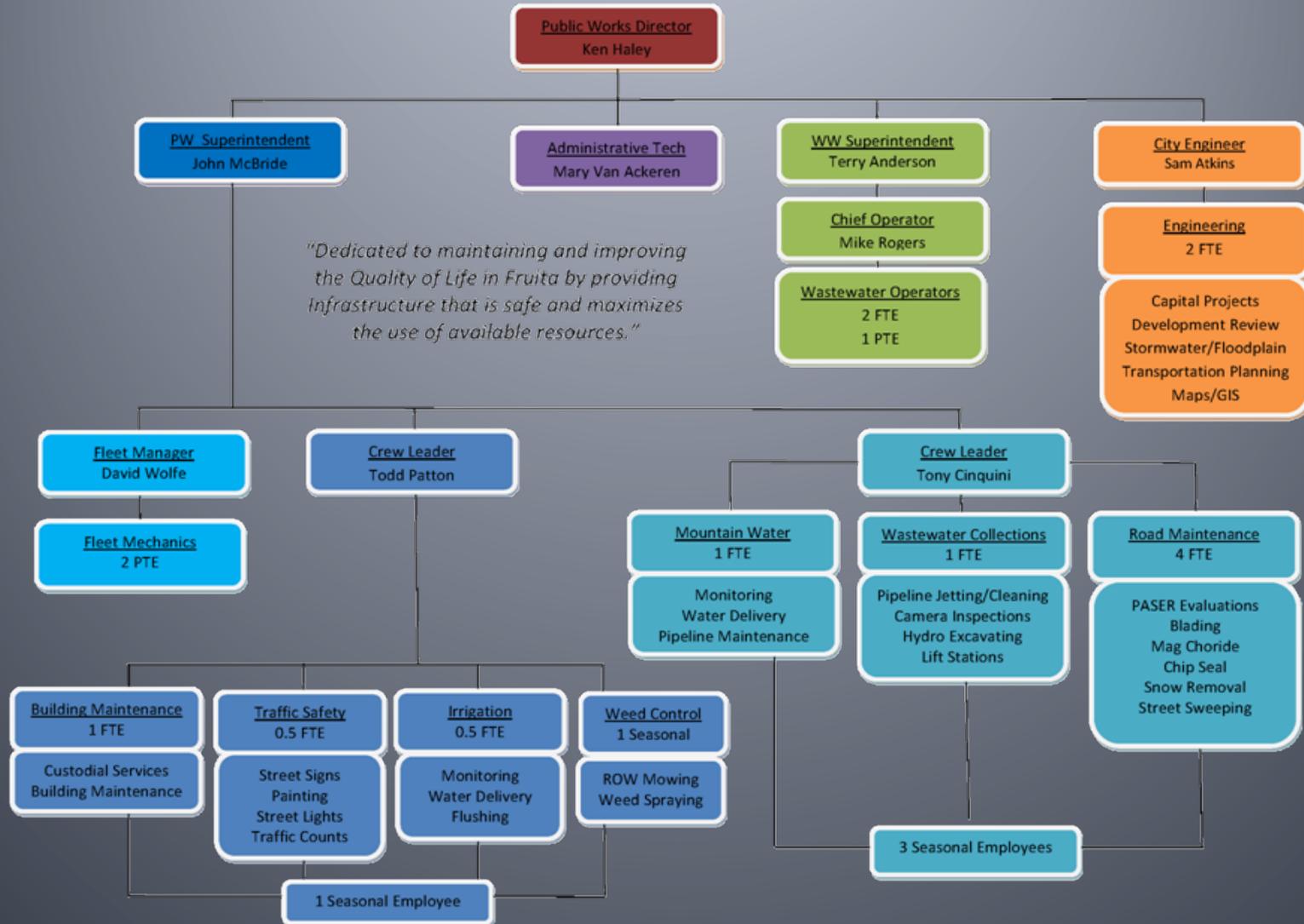
- What does Public Works Do?
- Condition of City Infrastructure
- Issues & Challenges



FRUITA
COLORADO

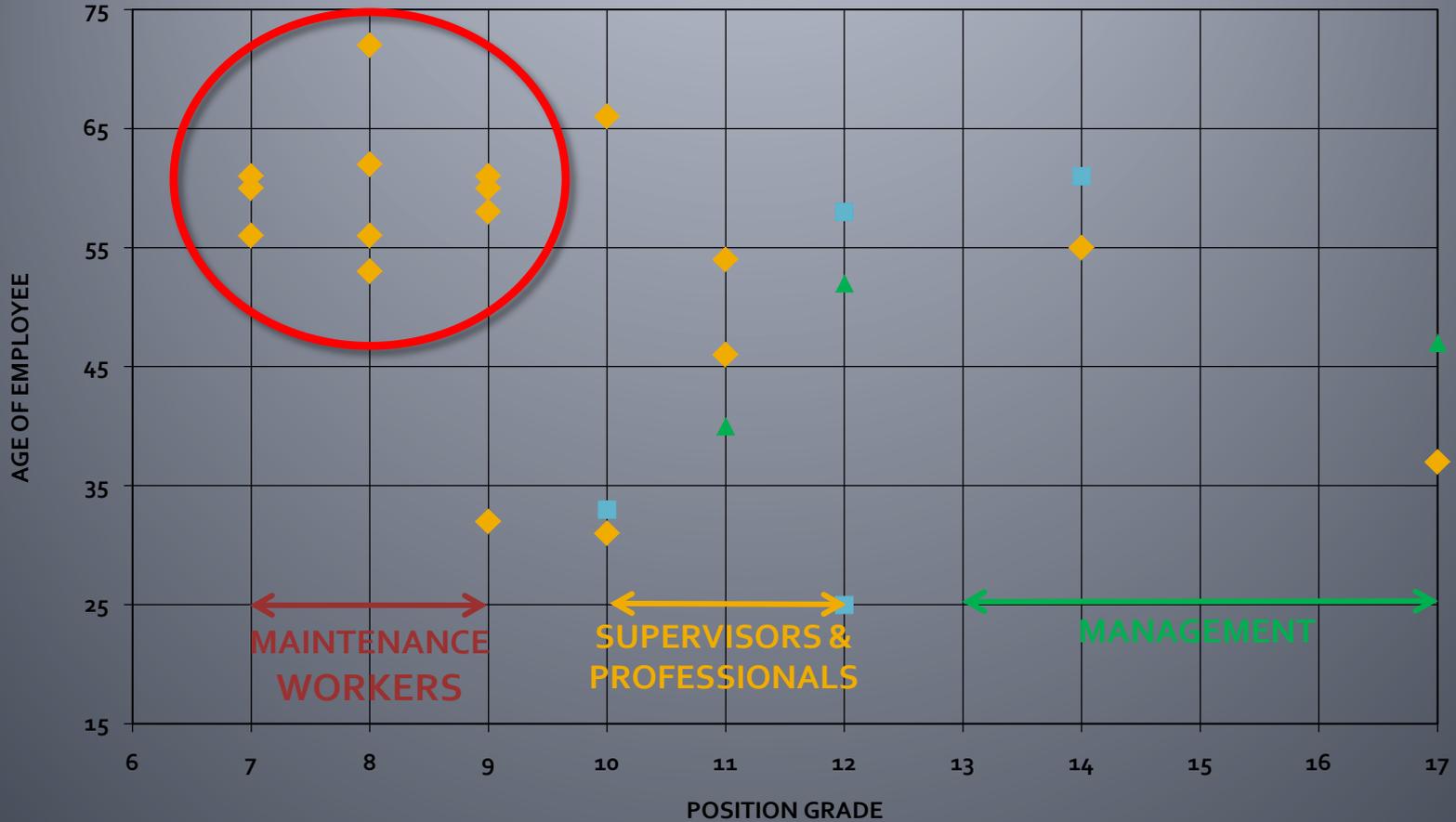


PUBLIC WORKS





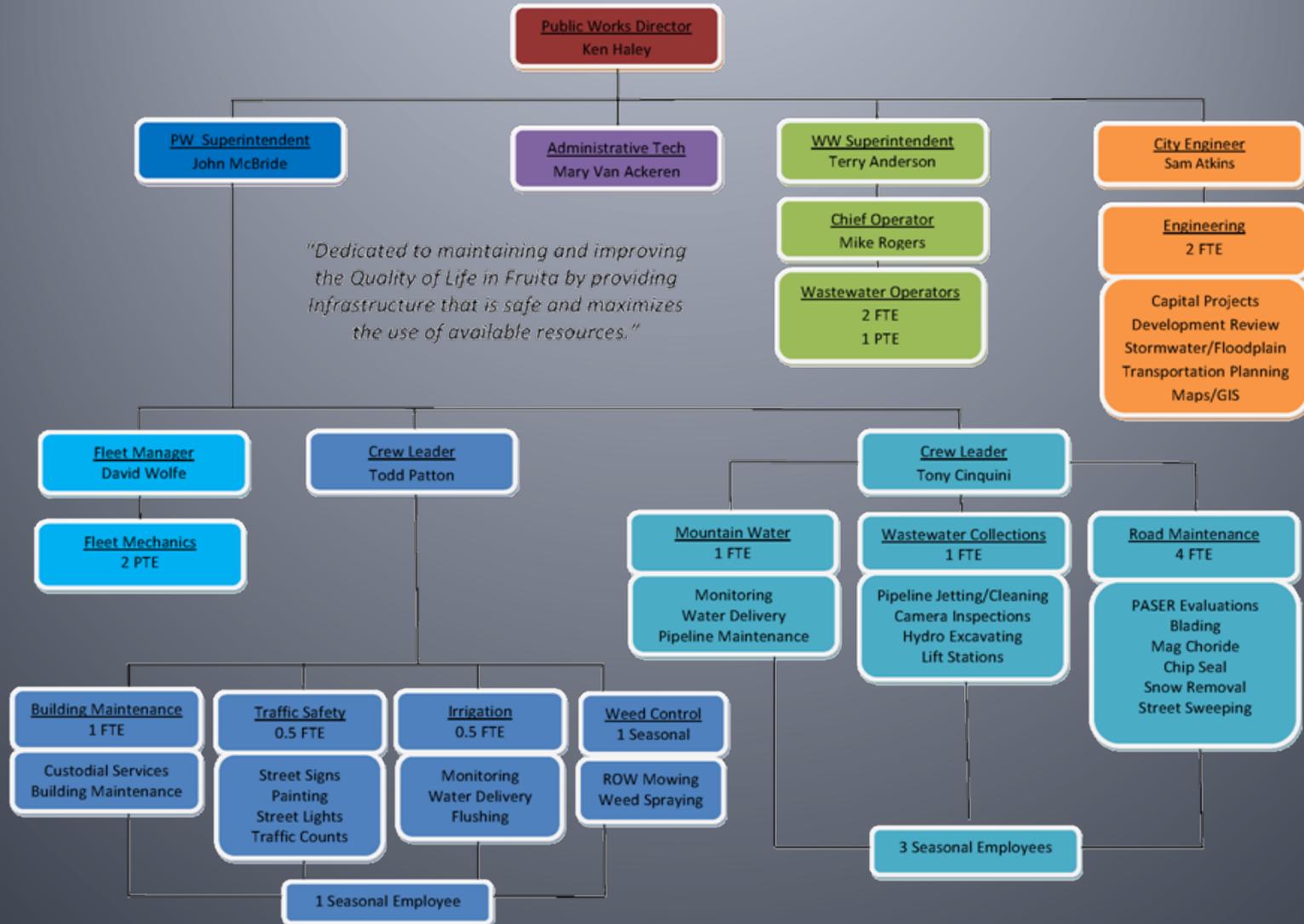
PUBLIC WORKS



MAINTENANCE STAFF



PUBLIC WORKS





PUBLIC WORKS



- Capital Project Management
- Development Review
- Construction Inspections
- Stormwater & Floodplain Management
- Transportation Planning
- Mapping & GIS
- Surveying

VARIABLE
WORKLOAD

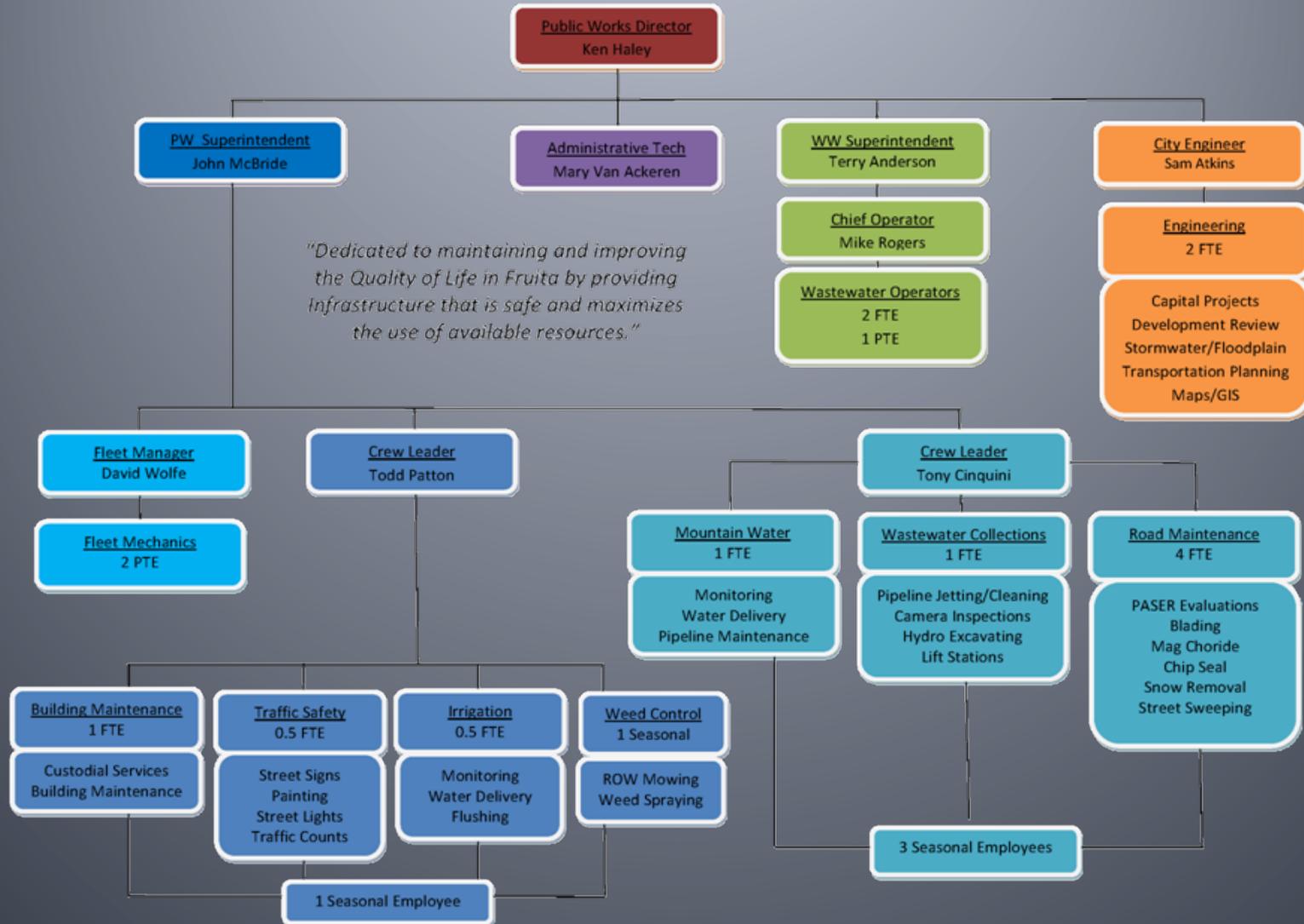


ENGINEERING





PUBLIC WORKS





PUBLIC WORKS

PREVENTATIVE



Crack Seal

Patching

Chip Seal

Maintaining
67 miles of
City Streets

RESURFACING

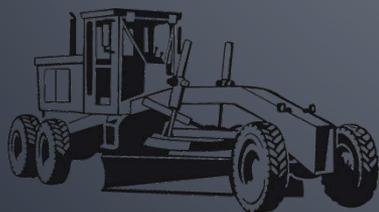


Overlay

RECONSTRUCT



Capital Construction



ROAD MAINTENANCE & TRAFFIC SAFETY





PUBLIC WORKS

Overlay:	\$400k	(1 mile)
Chip Seal:	\$100k	(3.5 miles)
Patching:	\$ 65k	(75 tons)
Striping:	\$ 28k	(240,000 ft)
Signs:	\$ 20k	(100 signs/yr)
Street Lights:	\$175k	(elec. & maint.)
Snow Removal:	\$ 10k	(weather)
Fuel & Equipment:	\$ 80k	(no capital equip.)
Labor:	\$333k	(Full & Part time)
<hr/> <hr/>		
TOTAL:	\$ 1.2 Million	

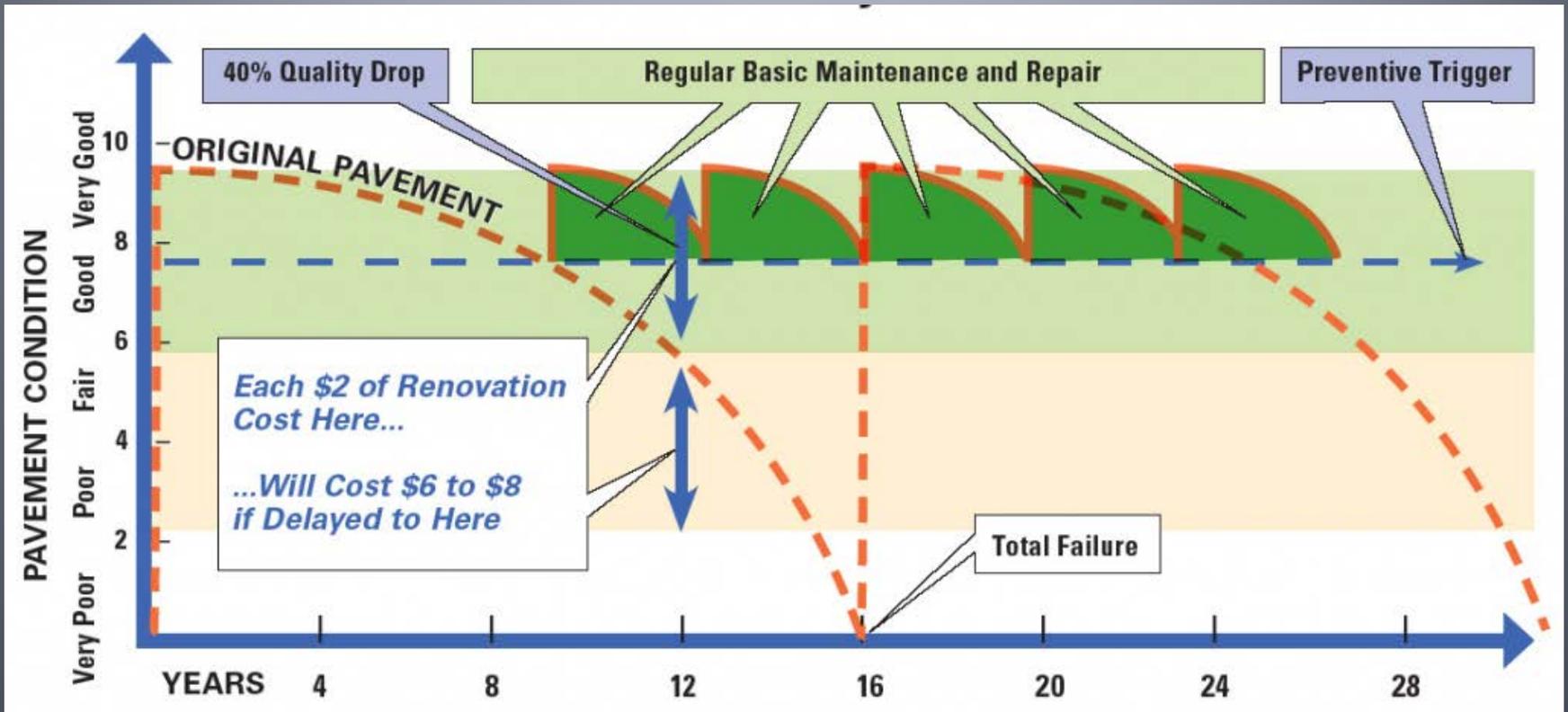


**ROAD MAINTENANCE
& TRAFFIC SAFETY**





PUBLIC WORKS

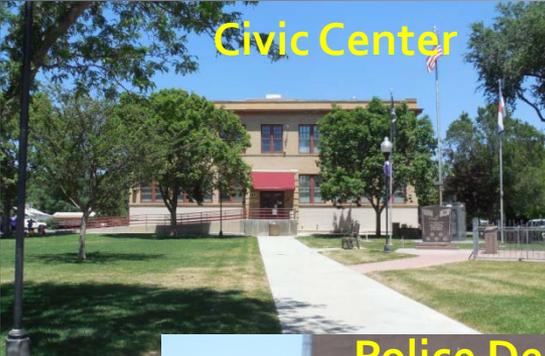


ROAD MAINTENANCE & TRAFFIC SAFETY





PUBLIC WORKS



Civic Center



City Shops



Community Center



Police Department



Chamber of Commerce



Museum

BUILDINGS & FACILITIES



Wastewater Plant



PUBLIC WORKS

POND PROPERTY



WATER TOWER



RENTAL HOUSE

BUILDINGS & FACILITIES



PUBLIC WORKS

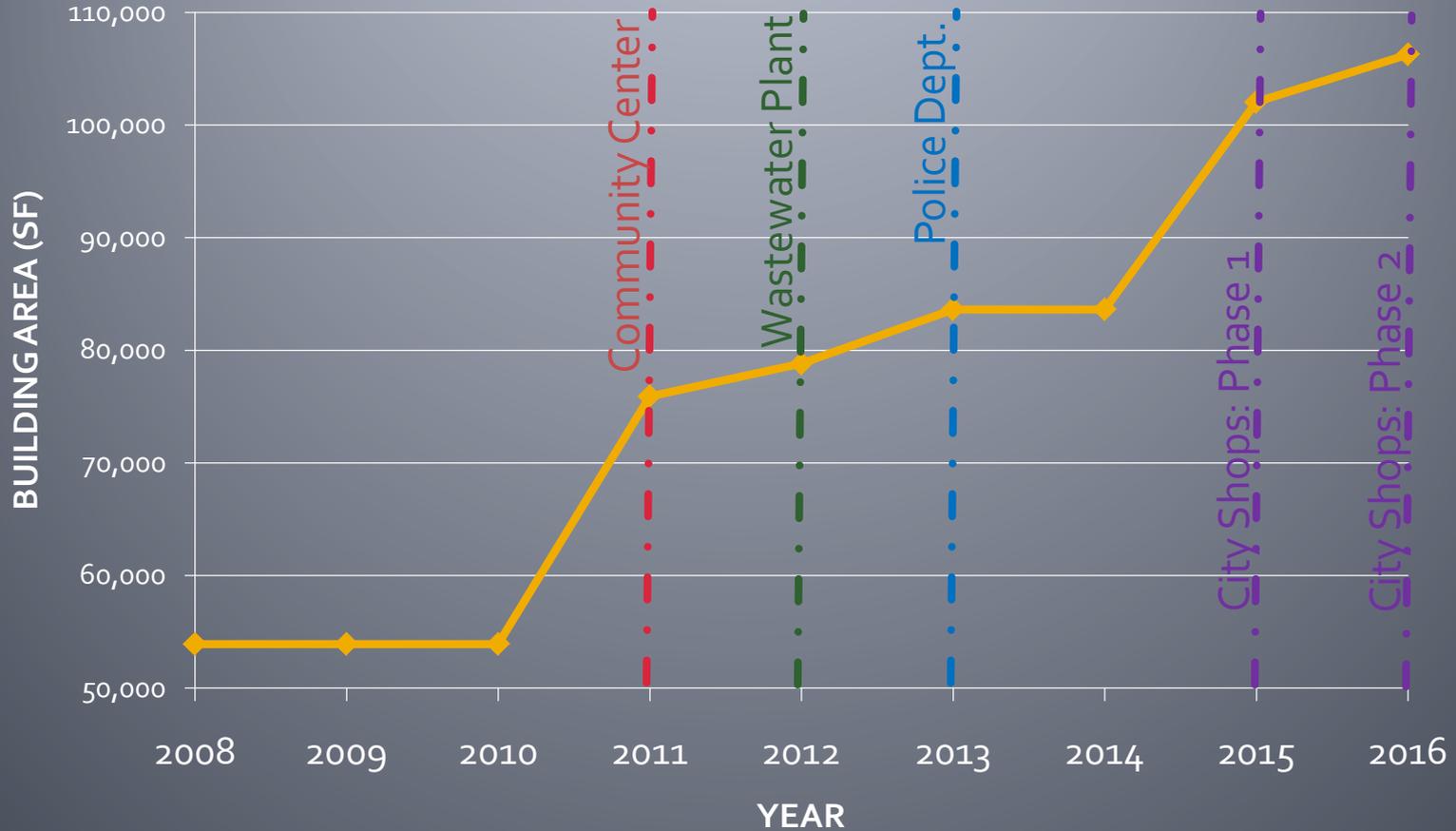
- Paint, Floors, HVAC, Electrical, Plumbing, Roofing...
- Maintain 5 Buildings, 84,000 SF
- Custodial Services for over 44,000 SF
(44 hours/week)

BUILDINGS & FACILITIES





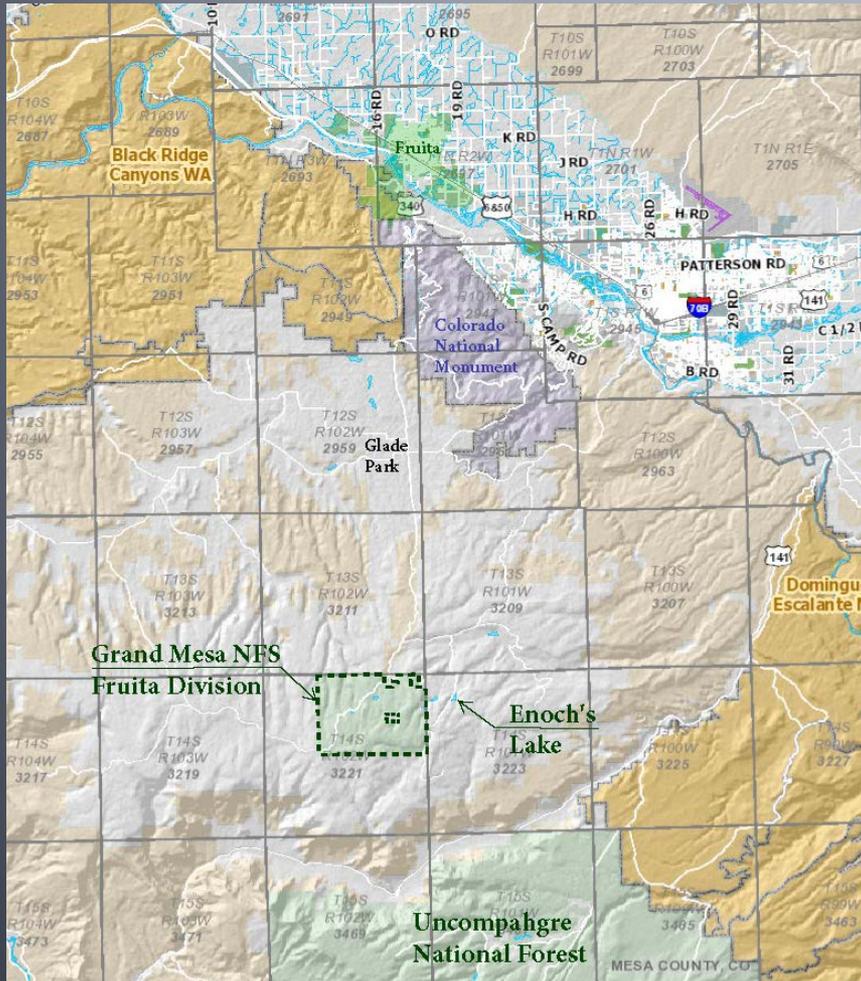
PUBLIC WORKS



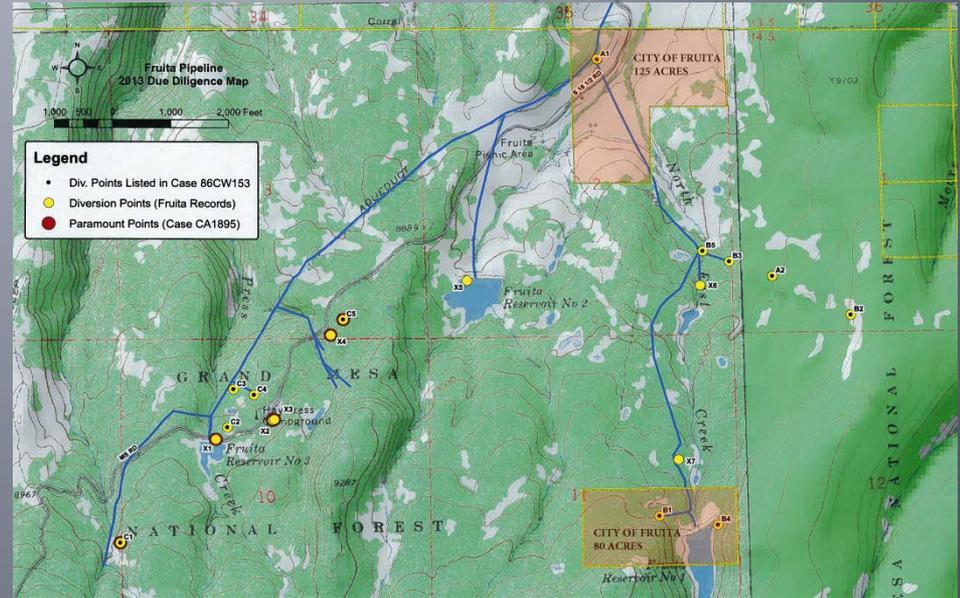
BUILDINGS & FACILITIES



PUBLIC WORKS



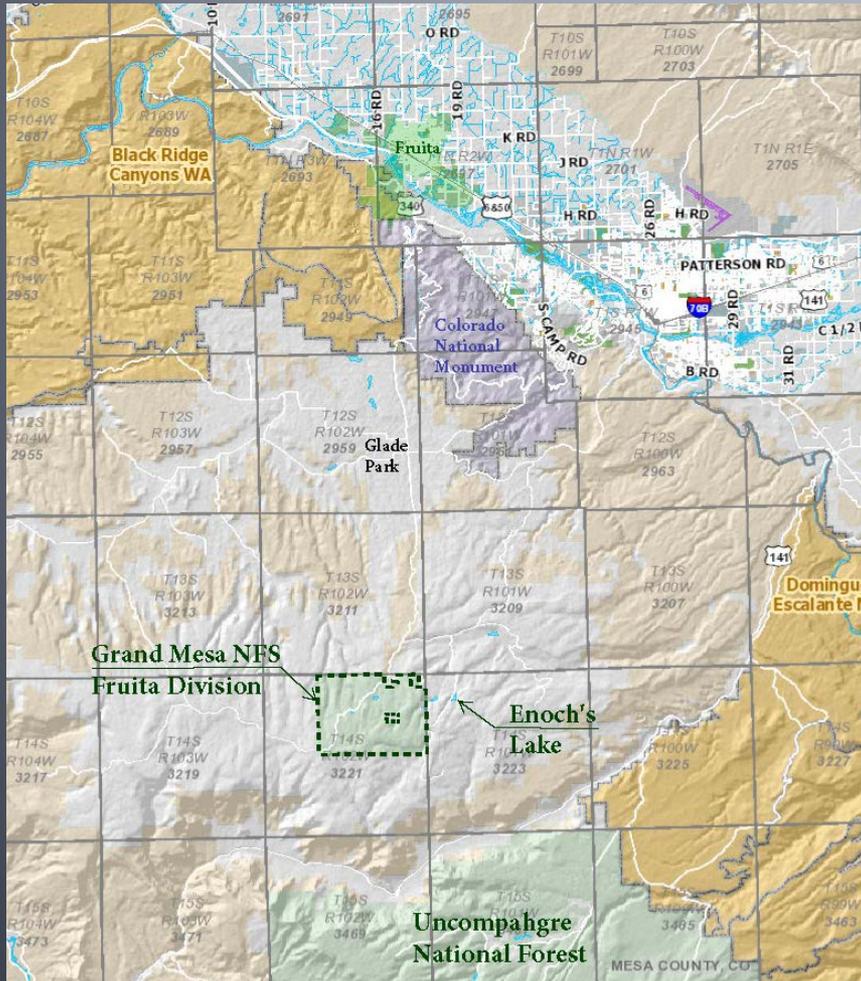
RESERVOIRS #1, #2, & #3



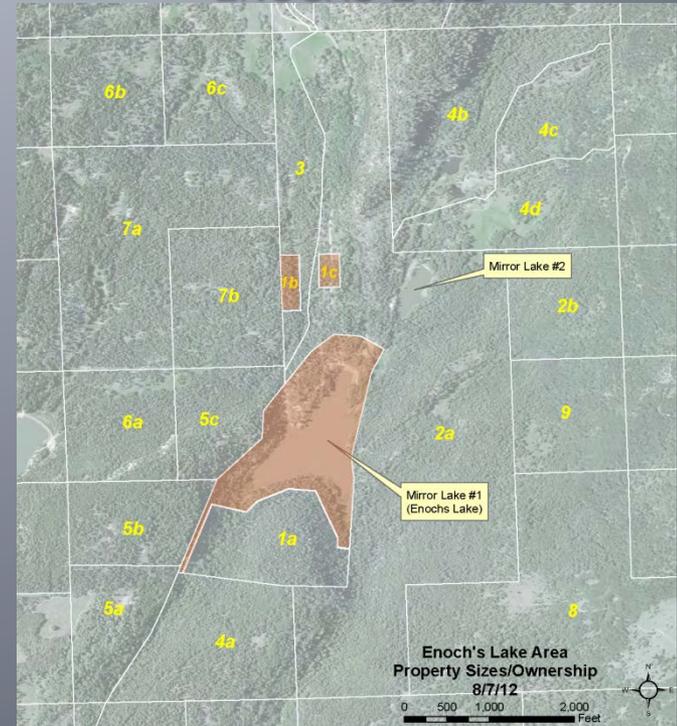
MOUNTAIN WATER & PROPERTIES



PUBLIC WORKS



ENOCHS LAKE



MOUNTAIN WATER & PROPERTIES



PUBLIC WORKS



BENEFITS / ASSETS

Public Recreation

Water Rights

Infrastructure

COSTS / LIABILITIES

Water Administration

Pipeline Maintenance

Reservoir Maintenance

Campground Maintenance

Safety!

MOUNTAIN WATER & PROPERTIES

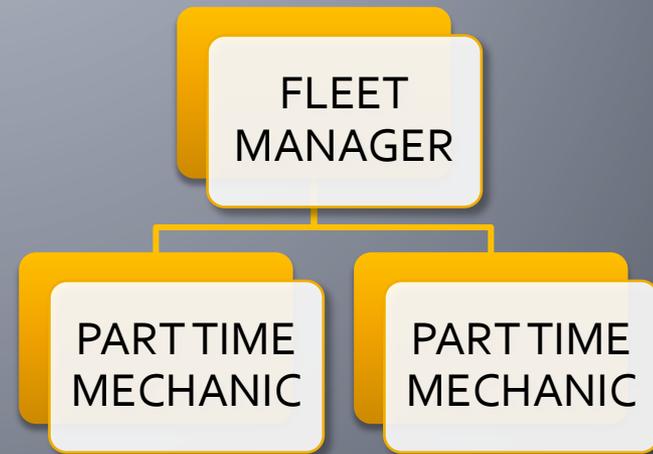




PUBLIC WORKS

FLEET SERVICES FOR ALL DEPARTMENTS

18 Police Vehicles
20 Pickup Trucks
6 Dump Trucks
2 Vacuum Trucks
1 Street Sweeper
75 Other



DOWN TIME!!

FLEET MAINTENANCE



PUBLIC WORKS

IRRIGATION

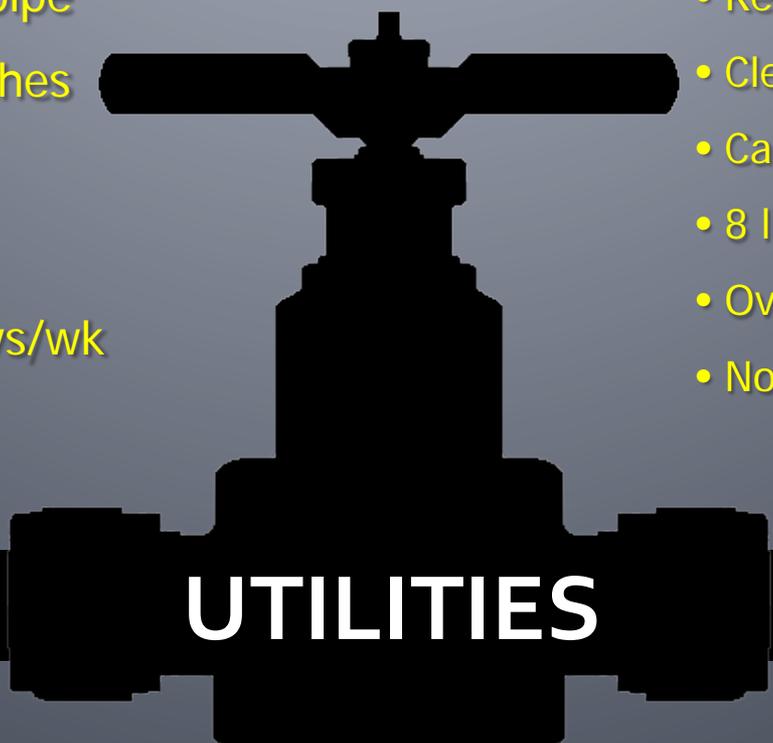
- Over 600 Customers
- 17.5 miles of gravity pipe
- 0.5 miles of open ditches
- 15 GVIC head gates
- 440 shares of water
- Staff operations 7 days/wk

\$103k/year

SEWER COLLECTIONS

- 72 miles of sewer lines
- Replace 0.25 miles of pipe/yr
- Clean 30 miles/year
- Camera 25 miles/year
- 8 lift stations (360k gal/year)
- Over 1,000 Utility Locates
- No SSO's

\$356k/year



UTILITIES



PUBLIC WORKS

WWRF Needs Assessment

TYPE	Description of Capital Needs	Location	Purpose	Project Cost (Current)
CAPITAL PROJECTS				
OS	Blower and monitoring system	SOLIDS	Improved Oxidation & ATAD processes	\$ 320,000
VE	Rotary Drum Screen - Secondary	HEADWORKS	Redundancy & Ease Maintenance	\$ 370,000
OP	Concrete Remediation	HEADWORKS	Repair concrete Corrosion	\$ 200,000
OP	Coatings - Influent Channel	HEADWORKS	Protect concrete from further corrosion	\$ 80,000
VE	Air Ionization	HEADWORKS	Address H ₂ S gas issues that have caused concrete corrosion	\$ 700,000
OP	Coatings - Metal components in Clarifiers and Oxidation	CLARIFIER / OX. DITCH	Protect metal from further corrosion	\$ 260,000
OP	Concurrent Operation of RDT	SOLIDS	Improve Operations & Increase production of solids	\$ 240,000
OP	Polymer Aging Improvement	SOLIDS	Increase efficiency & reduce chemical usage	\$ 40,000
OS	RAS Pump-20 HP	HEADWORKS	Reduce Energy Consumption	\$ 50,000
VE	Above ground, modular biofilter	SOLIDS	Upgrade odor control system	\$ 660,000
RG	Regulation 85 Application (Opt Out)	OPERATIONS	Data Evaluation and Application with State to Opt Out of Phosphorus Regs	\$ 10,000
RG	Reg 31/85 Bio-P Improvements	CLARIFIER / OX. DITCH	Installation of aerobic selector Basins for Phosphorus	\$ 1,070,000
VE	Centrifuge (Secondary)	SOLIDS	Secondary equipment for redundancy	\$ 510,000
VE	Additional UV Bank	SOLIDS	Additional disinfection for growth	\$ 300,000
OP	Relocation of Hypochlorite Feed System	SOLIDS	Alternate Disinfection for primary treatment	\$ -
OP	Operations Building Expansion	OPERATIONS		\$ 150,000
WWRF CAPITAL PROJECT TOTALS				\$ 4,960,000
CAPITAL EQUIPMENT REPLACEMENTS				
EQ	Hotsy' pressure washer	EQUIPMENT	Cleaning and Maintenance	\$ 11,000
EQ	Loader (to replace existing skid steer)	EQUIPMENT	Biosolids Handling	\$90,000
EQ	Paddle-Bladed Auger	EQUIPMENT	Biosolids Handling	\$60,000
EQ	Pickup Truck	EQUIPMENT	Staff Operations	\$33,000
WWRF CAPITAL EQUIPMENT REPLACEMENTS				\$194,000

\$5 Million in next 5 to 10 yrs

SEWER COLLECTIONS

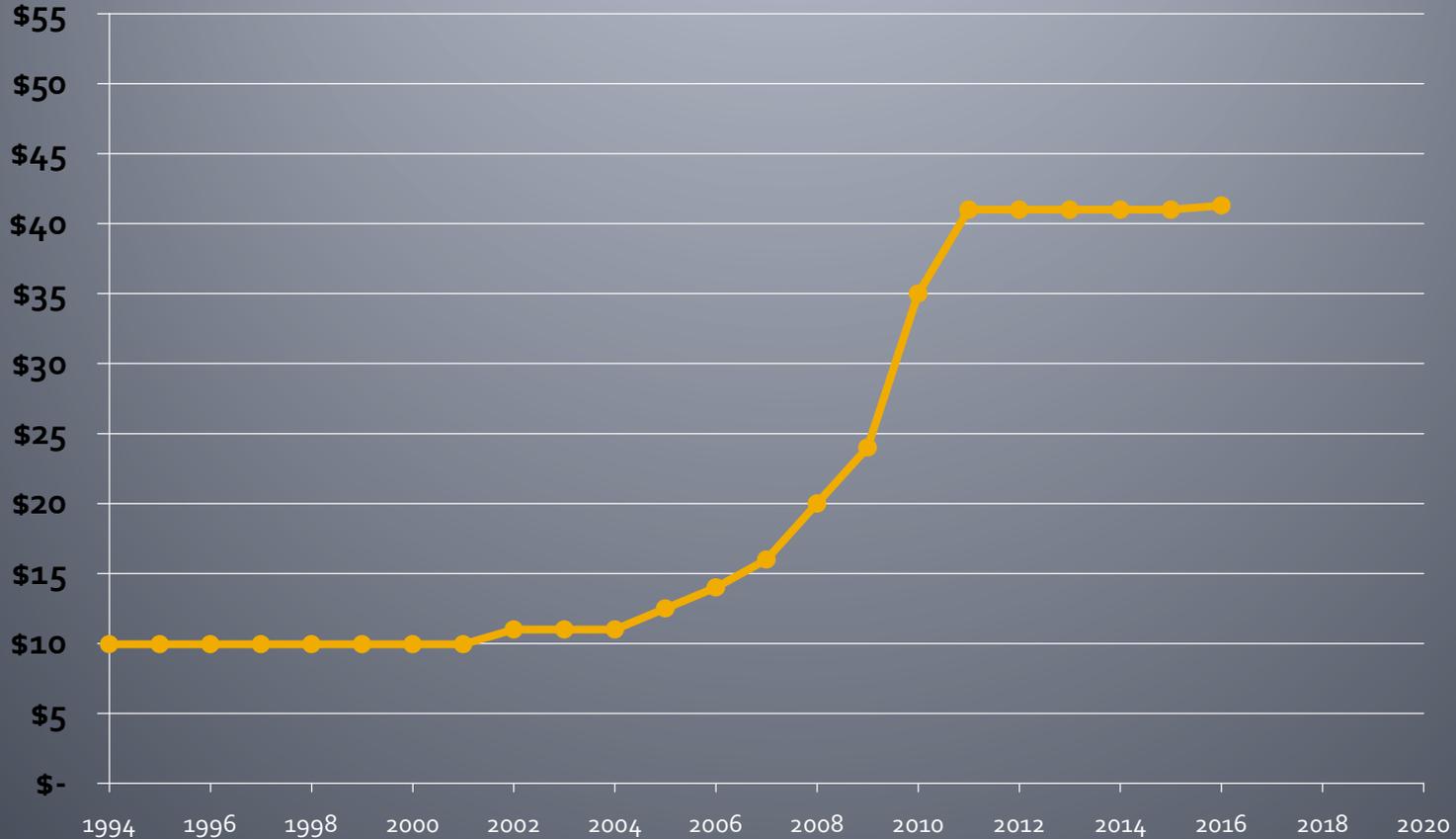
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SEWER FUND



PUBLIC WORKS

FRUITA SEWER RATES



SEWER FUND

PUBLIC WORKS

- What does Public Works Do?

Focused on Core Services

- Condition of City Infrastructure

Fair – Maintenance will be important

- Issues & Challenges

Lagoon Development

Mountain Water Liabilities – Develop Plan

WWRF and Collection Issues (even though newer)

Staffing & Funding – BUDGET Season 😊



FRUITA
COLORADO