

Grizzly Flats Subcommittee

Caldor Fire Recovery | Capital Improvement Projects

Objectives –

1.	<p>Identify and secure funding sources to rebuild the system</p> <ul style="list-style-type: none"> ○ Funding source possibilities included: <ul style="list-style-type: none"> ▪ County of El Dorado (None) ▪ El Dorado Water Agency (None – FEMA admin assistance, no funding for District staff/contractor expenses or infrastructure replacement). ▪ State of California <ul style="list-style-type: none"> • DDW (None) • Operations Shortfall Grant (\$500K) ▪ FEMA (fire hydrants \$500k, insurance deductible \$500k, Other - \$?) <ul style="list-style-type: none"> • FEMA Operations (Disaster 2) \$200K • FEMA Mitigation ▪ USDA (\$1M) ▪ Insurance (\$3.2 est.) (add \$165k for liner, \$120k for meter station) – \$3.5M ▪ ARPA (\$2.7) ▪ Other Pending – SRF, FEMA (restoration and mitigation) <p>Funding totals: CIP - \$6.7M; Operations - \$700K; tree removal - \$1.0M</p>
2.	<p>Goal: Rebuild the system to industry level standards –</p> <ul style="list-style-type: none"> ○ If major infrastructure needs to be replaced, how do we rebuild the system so it performs better, costs less to operate, and is more reliable.
3.	<p>Water System Upgrades</p> <ul style="list-style-type: none"> ○ WTP – Replace treatment modules ○ Two clearwell tanks – <ul style="list-style-type: none"> ▪ welded steel ▪ take one off-line for maintenance ▪ disinfection contact time ○ New pumping station <ul style="list-style-type: none"> ▪ Redundant backwash pump ▪ Redundant fire pump ▪ Redundant service pump (pressure zone) ▪ Southview by-pass ▪ Concrete block construction ○ New Metering Station <ul style="list-style-type: none"> ▪ Underground ▪ Reduce sediment to reservoir

CIP Projects

	Work	Cost Est.	Funding Source
1.	<p>New Water Treatment Modules</p> <p>Description: Replace aging and outdated WTM's and control systems with new modern WTM's and controls</p> <p>Benefits: Rebuilt WTM's would need replacement In 5 to 10 years vs 30 year life of new modules. New modules require less maintenance, offer better performance, and will include factory support.</p>	\$1.25M	ARPA
2.	<p>New Clearwell Tanks</p> <p>Description: Replace aging and dilapidated bolted steel clearwell with two (2) new welded steel tanks. 300,000 gallons & 200,000 gallons</p> <p>Benefits: Having two (2) tanks at the WTP site will allow operators to take one tank off-line for maintenance, increase the disinfection contact time, and welded steel tanks last 100 years vs 25 years for bolted.</p>	\$1.25M \$900K	Insurance ARPA
3.	<p>Metering Station</p> <p>Description: Rebuild metering station closer to District office in underground vault. Include sediment trap feature.</p> <p>Benefits: Closer location will allow 120v power for flow meter and signal. Underground protects station from weather, fire, and vandalism. Sediment trap can be cleaned every 2-5 years vs current basket strainer that requires weekly maintenance.</p>	\$225k	Insurance/FEMA
4.	<p>New Pump Station</p> <p>Description: New pump station will be CMU construction, include redundant fire, backwash, and service pumps, modern controls, and Southview connection. Pump station to be located at District office property.</p> <p>Benefits: Location, modern controls, and CMU construction will reduce maintenance costs, added redundant pumps and connections increase reliability.</p>	\$1.0M	Insurance/FEMA
5.	<p>Eagle Ditch Pipe /Road Repairs</p>	\$250K	FEMA/USDA

	Description: Repair Caldor damage to Eagle ditch pipeline and access.		
6.	Fire Hydrant Replacement Description: Replace Caldor damaged fire hydrants.	\$500K	FEMA
7.	Reservoir Liner Repairs Description: Repair Caldor damage to HDPE Liner.	\$165K	Insurance
	CIP Subtotal	\$5.54M	
	Soft Cost (10% eng., 10% CM/inspection, 2% env)	\$1.22M	ARPA/Insurance/FEMA
	Total CIP Cost	\$6.76M	

Other Projects

	Work	Cost Est.	Funding Source
1.	Eagle Ditch Tree Removal Description: Remove over 5,000 dead trees that threaten the pipeline and staff.	\$1.0M	USDA
2.	Reservoir Cleaning	\$150K	ARPA
	Other Subtotal	\$1.15M	USDA/ARPA