

**MAINTENANCE DEPARTMENT
ACTIVITIES REPORT
OCTOBER 5, 2019 – JANUARY 10, 2020**

Emergency

On Wednesday, October 9, 2019, Maintenance crewmembers performed an emergency service line replacement on Patricia Way (Loma Rica System). On Friday, October 11, 2019, Maintenance crewmembers responded to an emergency call out and repaired the mainline on Alexandra Way (Loma Rica System). On Wednesday, October 23, 2019, Maintenance crewmembers performed an emergency service line repair on Torrey Pines Drive (Lake of the Pines System). On Thursday, October 31, 2019, Maintenance crewmembers performed an emergency service line replacement on Sherwood Way (North Auburn System). On Tuesday, November 12, 2019, a Maintenance crewmember performed an emergency off-hours Underground Service Alert locate request associated with a downed PG&E power pole on Alta Sierra Drive (Loma Rica System). On Thursday, November 28, 2020 (Thanksgiving Day), Maintenance crewmembers repaired an emergency mainline break on Annie Drive (Loma Rica System). On Sunday, December 1, 2019, Maintenance crewmembers performed emergency repairs on a service line on Scooter Bug Lane (Lake of the Pines System). On Sunday, December 1, 2019, Maintenance crewmembers also performed an emergency service line repair in Amber Court (Lake of the Pines) and an emergency gate valve repair on Cedar Court (E. George System). During the PG&E PSPS events of October 2019, Maintenance Crews implemented emergency planning, coordination, operation, and maintenance of District mobile and backup generators throughout the District to ensure the reliability of water to customers.

General

On Thursday, October 17, 2019, Maintenance crewmembers attended the quarterly safety meeting to receive training on weather preparedness, workplace stewardship, and the District Environmental Hazardous Response Unit. On Saturday, November 9, 2019, Maintenance oversaw contracted asphalt seal coating at the Grass Valley Yard, Loma Rica Treatment Plant, Lake Wildwood Treatment Plant and access road. On Saturday, November 16, 2019, Maintenance oversaw contracted asphalt seal coating at the Grass Valley Main Office, Maintenance Yard and Placer Yard. During this period, Maintenance crewmembers participated in various Computerized Maintenance Management System (CMMS) workshops. On December 10-12, 2019, Maintenance crewmembers attended Compaction Density Training. On December 11, 2019, and January 8, 2020, Maintenance crewmembers attended Water Distribution Operator/Water Treatment Operator Training.

Construction

The Crew completed the Penn Valley Phase 3 Pipeline Replacement Project - installing 490 feet of mainline, 6 service lines, one fire hydrant, and two air release valves (ARV). The Crew also began the Long Ravine Pipeline Replacement Project with work including potholing, installing 3,670 feet of conduit, 6 hose bibs, 3 air releases, 5 electrical pedestals, and grading for a storage tanks pad. The Crew also performed access maintenance and location marking of a Jackson Meadows campground spring field system. The Crew also replaced broken sections of mainline in the Loma Rica System (East Bennett and Upper Circle Drive), repaired a broken service line in the E. George System (Pepper Lane), replaced a pressure release valve in the Loma Rica System (Lime Kiln Road), assisted with installation of a transformer at the Peninsula Campground, and performed winter weather snow plowing and patrolling.

Facilities

The Facilities Crew completed maintenance and repair of the Scotts Flat Gate 2 Pump House – constructing a new roof, insulating, and painting. The Crew completed construction of the boardroom platform – framing, insulating, staining trim, installing trim and carpeting. The Crew also replaced the hot water heater waterline at the Lake Wildwood Treatment Plant, repaired access at the Main Office, assisted with unplugging a siphon on the Maben, unplugged drain lines at treatment plants, repaired leaking gutters, and installing scaffolding for cleaning of a Shale Ridge tank. The Crew also performed fire extinguisher inspections, hazard tree removal at Lake of the Pines Treatment Plant and Main Yard, and routine landscaping and general maintenance at District facilities.

Service

The Crew repaired and replaced meters, endpoints, service lines, fire hydrants, mainlines, a backwash pond float, and completed patch paving throughout the E. George, Loma Rica, Lake Wildwood, Lake of the Pines and North Auburn Systems. The Crew successfully completed a service line and meter replacement during a planned nighttime outage on Sutton Drive (adjacent to Grass Valley Safeway Shopping Center). The Crew completed a leak investigation at the Locksley Lane intertie. The Crew also completed numerous USA locating requests. The Crew assisted with winter storm preparation and patrolling.

Placer

The Placer Crew performed annual cleaning season canal maintenance, including leak repairs, brush cutting, tree removal, debris removal, trash rack cleaning, mucking, spill repairs, gate valve replacements, culvert replacement, shotcreting, encasement, and water box installation. The Placer Crew also repaired and replaced meters in the Lake of the Pines and North Auburn Systems. The Crew also performed winter storm preparation, patrolling and repairs.

Canal

The Crew performed annual cleaning and canal maintenance, including leak repairs, brush cutting, tree removal, debris removal, trash rack cleaning, mucking, and spill repairs. The Crew also built berm on the Maben Canal, performed access maintenance on the Allison Ranch and Newtown Canals, and installed pipe on the DS Extension. The Crew also performed winter storm preparation, patrolling, repairs, and access snow plowing.

South Yuba

The Crew has continued to work with PG&E gathering and documenting institutional knowledge and information in efforts for a smooth transfer of ownership. The Crew has continued to develop positive relationships and communication channels with NID Hydroelectric Department, PG&E, and PCWA in the planning and development of training, equipment, and maintenance processes. The Crew has worked with the NID Engineering Department for drone recording of the Canal, and site visits and patrolling with NID Hydroelectric Department staff and PG&E.

Vegetation

The Crew completed advisor and applicator continuing education courses, performed terrestrial weed control applications, equipment maintenance, regulatory reporting, winter storm patrolling, and brush cutting. The Crew has initiated Phase 3 Study applications – performing initial monitoring and applications.

Fleet

The Mechanic Shop performed 89 truck/vehicle services, 6 vehicle retrofits, 29 equipment services, and 9 required regulatory inspections. In addition, the Mechanic Shop played a key role in the District efforts to ensure reliable water service during the PG&E PSPS events. The Mechanic Shop staff made continual field visits to perform the necessary maintenance of the numerous backup generators powering the District water systems.

**MAINTENANCE DEPARTMENT
ACTIVITIES SUMMARY OF SELECT "ROUTINE" WORK
10/07/19 – 11/08/19**

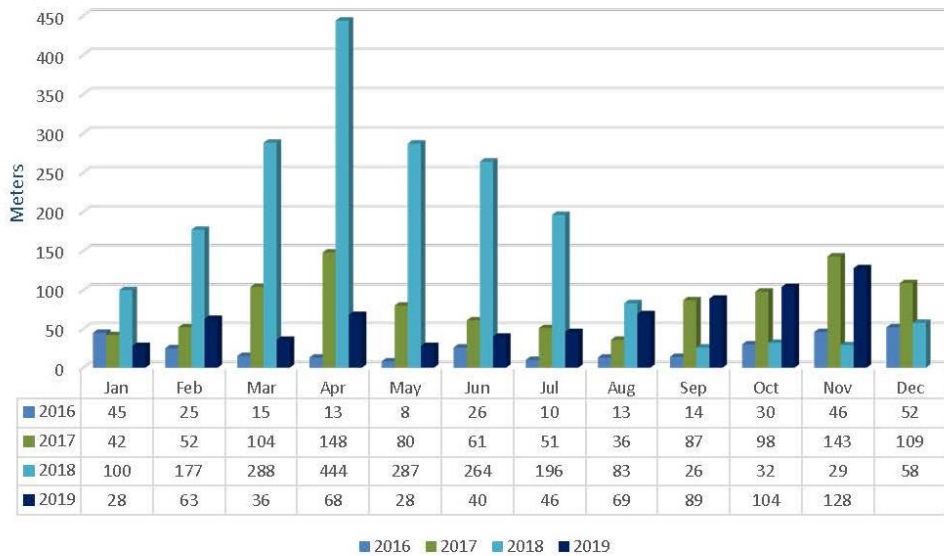
CATEGORY / TASK DESCRIPTION	TOTAL #
TREATED WATER	
"EMERGENCY" CALL OUTS – SERVICE LINES / WATER MAINS / HYDRANTS	4
HYDRANTS – NEW / REPLACED / REPAIRED	1
METERS – NEW / REPLACED / REMOVED	128
METERS – REPAIRED / GATE VALVES	7
SERVICE LINES – NEW / REPLACED	9
VALVES – ARV, BLOWOFF, INLINE, DCVA, ETC.	3
WATER MAINS – REPAIRED / REPLACED	3
RAW WATER	
CANALS / BERMS – LEAKS AND REPAIRS	5
CANALS – CLEANED	2
CULVERTS – NEW / REPLACED / REMOVED	0
RAW WATER BOXES – NEW / REPLACED / MOVED / REMOVED	1
TREES – REMOVED	8
ACCESS ROADS – MAINTAINED	1
FLEET	
TRUCKS/VEHICLES – SERVICE / PREVENTATIVE MAINTENANCE	23
TRUCKS/VEHICLES – DAMAGE REPAIRS	0
TRUCKS/VEHICLES – RETROFITS	2
EQUIPMENT – SERVICE / PREVENTATIVE MAINTENANCE	7
EQUIPMENT – DAMAGE REPAIRS	0
EQUIPMENT – RETROFITS	0

Emergency Call Outs

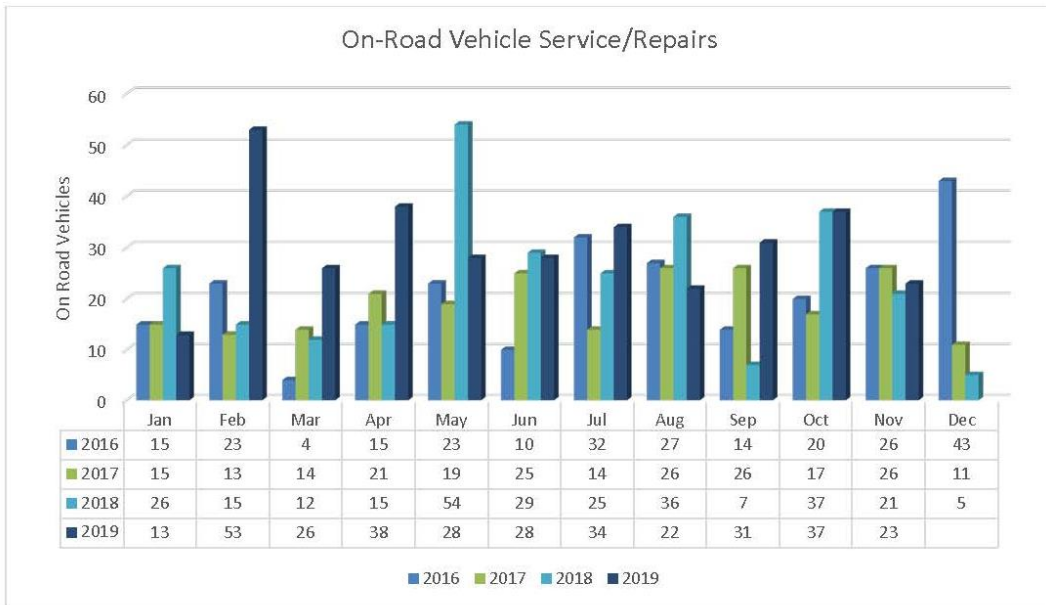
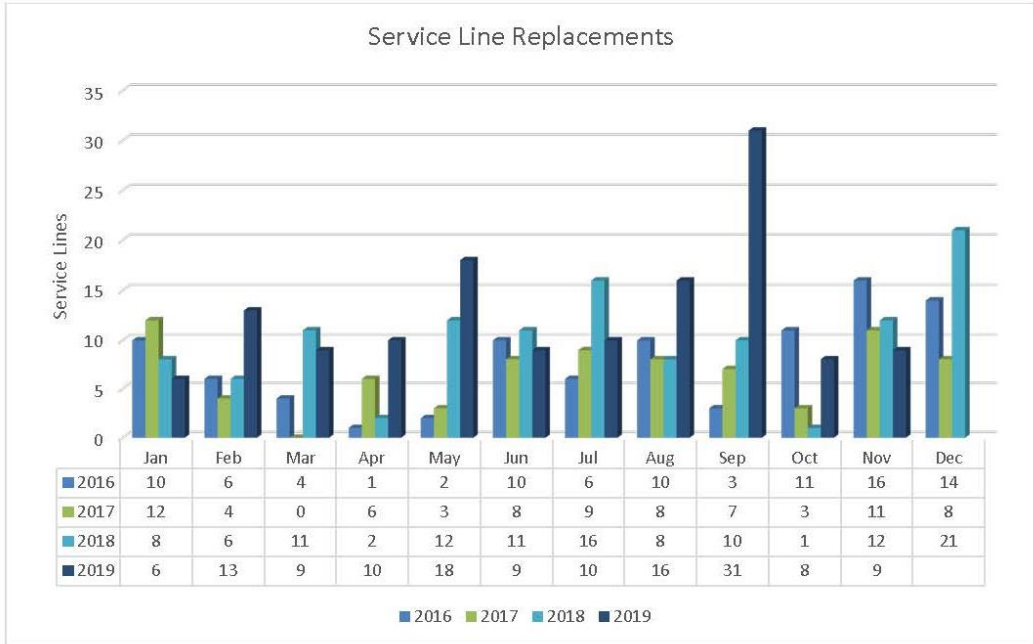


■ 2016 ■ 2017 ■ 2018 ■ 2019

Meter Replacements



■ 2016 ■ 2017 ■ 2018 ■ 2019



**MAINTENANCE DEPARTMENT
ACTIVITIES SUMMARY OF SELECT "ROUTINE" WORK
11/09/19 – 12/06/19**

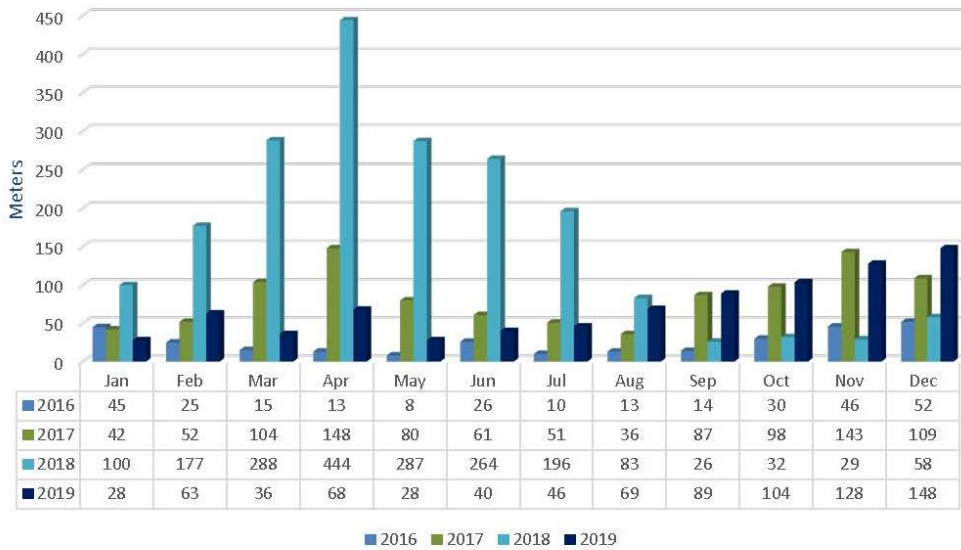
CATEGORY / TASK DESCRIPTION	TOTAL #
TREATED WATER	
"EMERGENCY" CALL OUTS – SERVICE LINES / WATER MAINS / HYDRANTS	5
HYDRANTS – NEW / REPLACED / REPAIRED	0
METERS – NEW / REPLACED / REMOVED	148
METERS – REPAIRED / GATE VALVES	9
SERVICE LINES – NEW / REPLACED	13
VALVES – ARV, BLOWOFF, INLINE, DCVA, ETC.	4
WATER MAINS – REPAIRED / REPLACED	3
RAW WATER	
CANALS / BERMS – LEAKS AND REPAIRS	8
CANALS – CLEANED	1
CULVERTS – NEW / REPLACED / REMOVED	2
RAW WATER BOXES – NEW / REPLACED / MOVED / REMOVED	4
TREES – REMOVED	5
ACCESS ROADS – MAINTAINED	0
FLEET	
TRUCKS/VEHICLES – SERVICE / PREVENTATIVE MAINTENANCE	37
TRUCKS/VEHICLES – DAMAGE REPAIRS	0
TRUCKS/VEHICLES – RETROFITS	4
EQUIPMENT – SERVICE / PREVENTATIVE MAINTENANCE	15
EQUIPMENT – DAMAGE REPAIRS	0
EQUIPMENT – RETROFITS	0

Emergency Call Outs



2016 2017 2018 2019

Meter Replacements

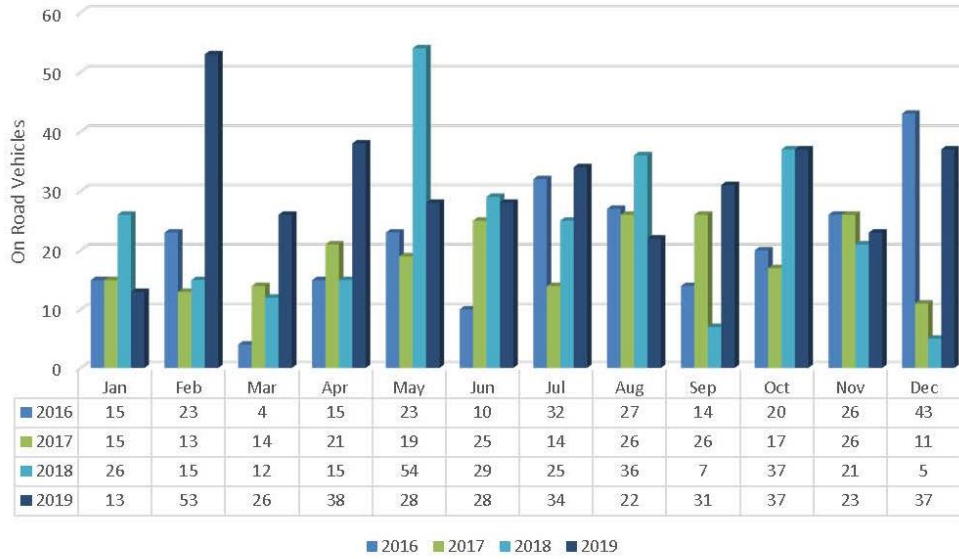


2016 2017 2018 2019

Service Line Replacements



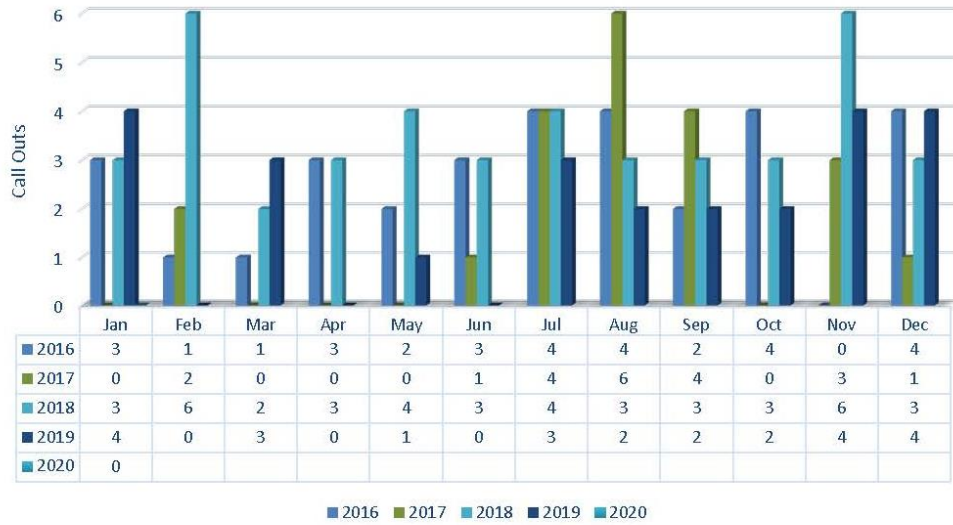
On-Road Vehicle Service/Repairs



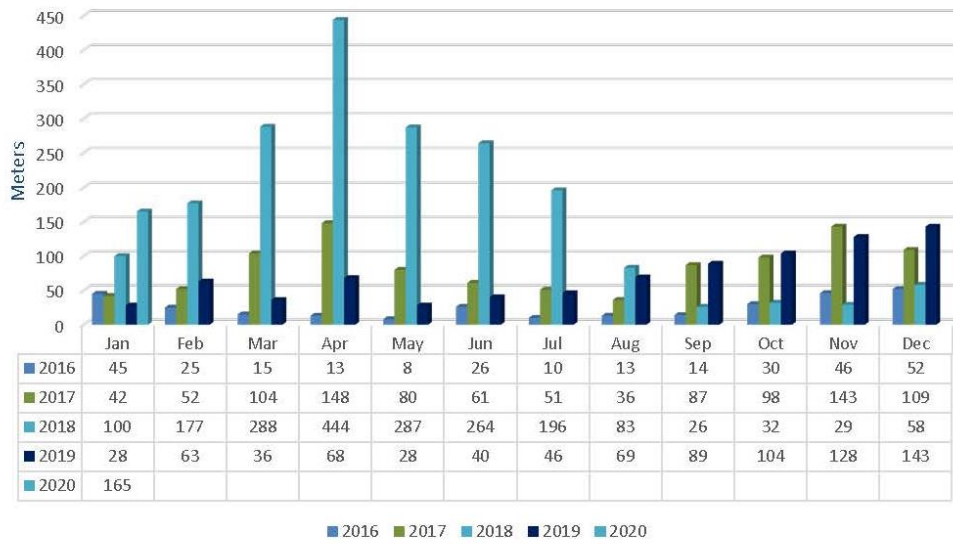
**MAINTENANCE DEPARTMENT
ACTIVITIES SUMMARY OF SELECT "ROUTINE" WORK
12/09/19 – 01/10/20**

CATEGORY / TASK DESCRIPTION	TOTAL #
TREATED WATER	
"EMERGENCY" CALL OUTS – SERVICE LINES / WATER MAINS / HYDRANTS	0
HYDRANTS – NEW / REPLACED / REPAIRED	3
METERS – NEW / REPLACED / REMOVED	165
METERS – REPAIRED / GATE VALVES	7
SERVICE LINES – NEW / REPLACED	9
VALVES – ARV, BLOWOFF, INLINE, DCVA, ETC.	3
WATER MAINS – REPAIRED / REPLACED	1
RAW WATER	
CANALS / BERMS – LEAKS AND REPAIRS	1
CANALS – CLEANED	1
CULVERTS – NEW / REPLACED / REMOVED	0
RAW WATER BOXES – NEW / REPLACED / MOVED / REMOVED	2
TREES – REMOVED	3
ACCESS ROADS – MAINTAINED	0
FLEET	
TRUCKS/VEHICLES – SERVICE / PREVENTATIVE MAINTENANCE	29
TRUCKS/VEHICLES – DAMAGE REPAIRS	0
TRUCKS/VEHICLES – RETROFITS	0
EQUIPMENT – SERVICE / PREVENTATIVE MAINTENANCE	7
EQUIPMENT – DAMAGE REPAIRS	0
EQUIPMENT – RETROFITS	0

Emergency Call Outs



Meter Replacements



Service Line Replacements



On-Road Vehicle Service/Repairs

