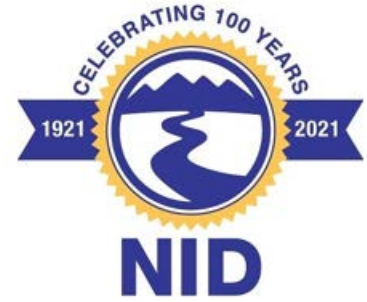


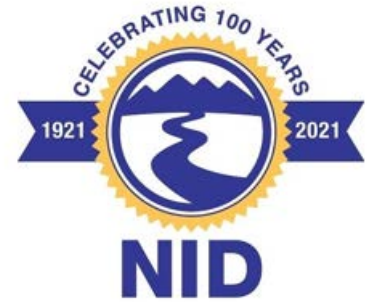
Nevada Irrigation District

Department Updates



Presented to the Board of Directors
June 23, 2021

Administration Department



Environmental Resources Program

Program Updates, Highlights & Grants Update

Safety

Site Visits, Training Classes, & Administrative Activities

Communications

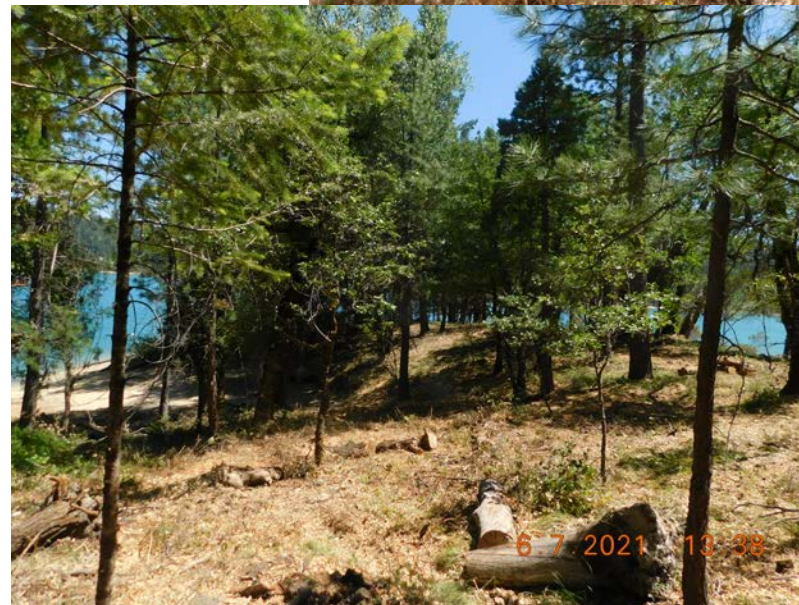
Website, Social Media, News Releases, Engage, History Book

Environmental Resources Program

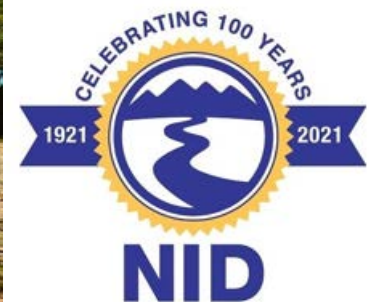
Program Updates

- **Meadow restoration:** English Meadow Floodplain Restoration Project environmental compliance continues. The public DRAFT IS/MND was released for review and comment in preparation for the Wildlife Conservation Board's upcoming grant August 2021. A public info meeting was held on June 2, 2021.
- **Watershed and Healthy Forests:** Fire fuels treatment at Scotts Flat Reservoir as part of the grant-funded work in partnership with the Sierra Nevada Conservancy is underway. Hazard tree removal has been completed at Orchard Springs, Long Ravine and Upped Division campgrounds. Peninsula campground has not yet been completed. Significant tree mortality is challenging the 2021 budget for tree removal.
- **Grant administration/contract management:** Contracting, invoicing and reporting ongoing.
- **Regional partnerships/Education:** The Cosumnes, American, Bear and Yuba River (CABY) Integrated Regional Water Management Plan has been deemed "sufficient" by the Dept. of Water Resources. Next meeting in July to discuss project selection for the \$1M CABY grant allocation.
- **Grazing:** Grazing leases updated for District properties adjacent to Clifford/Magnolia Roads, and the Canyon Creek Grazing Allotment.

Pre-treatment
Scotts Flat
Reservoir



Post-treatment
Scotts Flat Res.



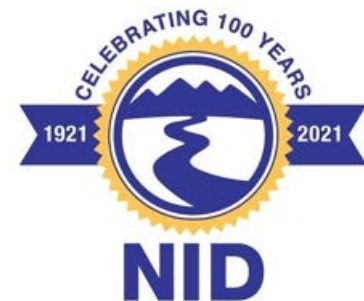
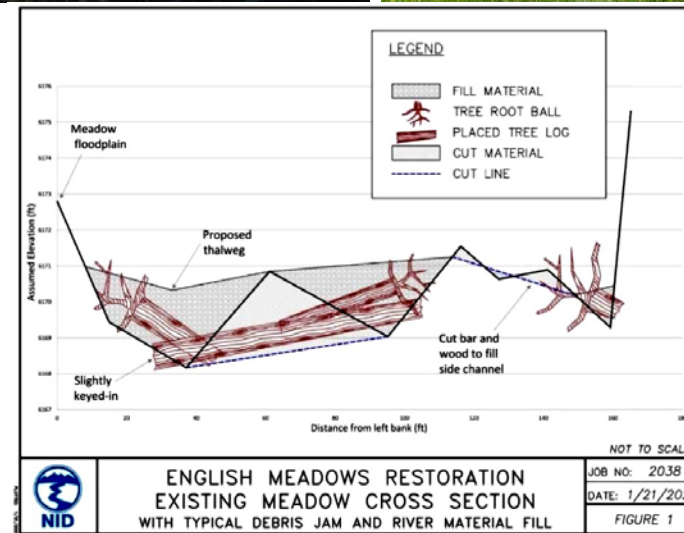
Environmental Resources Program

Program Highlight: English Meadow Floodplain Enhancement and Restoration Project

- Public review draft Mitigated Negative Declaration is completed and distributed for a 380-acre project in the Middle Yuba River headwaters
- Public comment closed June 14, 2021. Public hearing will be July 14, 2021 at the NID Board meeting.
- \$1.2M grant award from the Wildlife Conservation Board scheduled for authorization Aug. 26, 2021
- Plan for implementation to begin summer of 2022, project construction 2023/24
- Project goals:
 - Installation of woody debris jams in Middle Yuba River to activate floodplain and improve hydrology
 - Understory thinning on forested slopes to decrease risk of wildfire disturbance and benefit hydrology, forest health, and habitat



Photos (top L to R): Cutbank Middle Yuba River; project team collecting field data; typical engineering design for a debris jam using trees and onsite gravels and cobbles.



Environmental Resources Program

Grants Update

CAL FIRE CFIP Grant for Rollins Reservoir (photos are at Scotts Flat Gate 2 Campground April 2021)

- Work is completed at Long Ravine and Orchard Springs Campgrounds (~105 acres, \$145k in grant funding), near Rollins Reservoir including mastication and handcrews.
- Additional hazard tree removal (not part of the grant funded scope of work) has been occurring while we are onsite to maximize efficiencies to improve overall safety and appearance of the campgrounds

SNC Fuels Treatment at Scotts Flat Phase 4

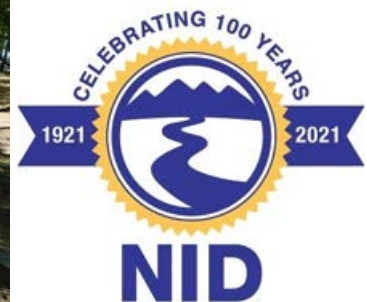
- Project implementation continues- mastication and handcrews to improve forest health and fire resilience along trail between Gates 1 and 2 near Scotts Flat, and on NID properties further out toward confluence of Deer Creek
- Fire fuels treatment along the NID pipeline and Upper Bench Road is complete
- Grant from the Sierra Nevada Conservancy for \$981,000 at Scotts Flat Reservoir, and project is in final phase (~ 70 acres left)
- Project benefits: a multi-species, multi-aged, properly spaced forest community with reduced catastrophic wildfire risk
- We will treat total of 300 acres by Jan. 1, 2022



Pre-treatment



Post-treatment



Environmental Resources Program

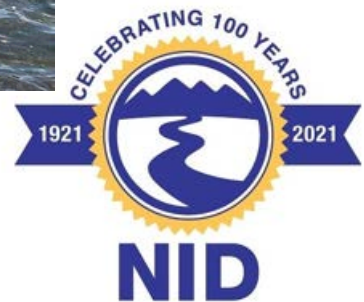
General Watershed and Healthy Forests Program Update

Fire Fuels Treatment and Hazard Tree Removal on District Property

- The annual hazard tree assessment and inventory has been completed by our consulting Forester, Mr. Kevin Whitlock RPF at all of our campgrounds. Support provided by Environmental Resources Tech staff Cameron Townsend.
- All Scotts Flat and Rollins Reservoir campgrounds have been assessed for hazard trees; Jackson Meadows campgrounds, Bowman and dispersed camping areas also complete.
- At Scotts Flat and Rollins Reservoirs, oak trees are showing significant signs of disease and rot, which compromises their integrity and prompts removal. Large pines have also been removed due to disease and insect stress. Additionally, limbing above campsites is critical to reduce potential for associated damages. Upper Division campgrounds seem to indicate a more normal tree mortality trend.



Sawmill Lake near Bowman and Jackson Meadows Reservoirs



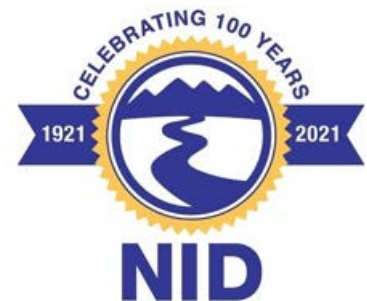
Safety

Site Visits

- Hydroelectric Department: Bowman Dam inspection, inspected the Dam and spoke about different safety procedures before upcoming project
- Recreation Department: Scotts Flat for annual environmental health inspection with the Nevada County Environmental Health Department
- Operations Department: Meet with law enforcement regarding break-in at Snow Mountain, go over safety precautions and financial loss in equipment or tools
- Placer Maintenance Department: AR2 check the weed growth around the vault, safety concerns over growth and tick infestation
- Main Campus: Beam annual inspection on fire and security systems

Training Classes

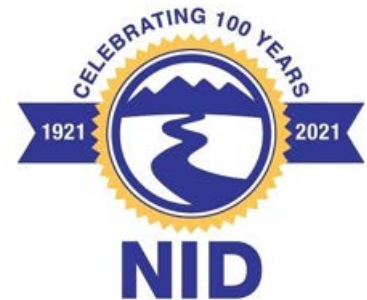
- Maintenance Department: New hire orientation for one vegetation worker
- Maintenance Department: CPR/First Aid on Target Solutions due to Covid restrictions
- Operations-Water Treatment: Fall Protection
- Recreation Department: New temp orientation for 3 temporary employees
- Watershed Department: Chainsaw Orientation
- Safety Analyst: NFPA (National Fire Prevention Authority) for two days



Safety

Administrative Safety Activities

- COVID-19 workplace safety considerations are still being executed at NID. Training classes were revised to ensure social distancing guidelines were met; disinfectant still available to all. Weekly restroom checks for the Covid policy regarding the restrooms be stocked with supplies for employees.
- Working with Glatfelter Insurance Claims
- Continue working on District claims
- Reviewing the Confined Space Permits 2021
- Target Solutions: tracking all trainings, certifications, tailgate meetings, etc.
- Meeting: Greg Jones regarding safety activities
- Review trench safety logs from the maintenance dept.



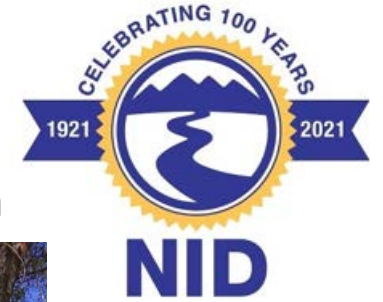
Safety

Pictures

Chainsaw Training-Watershed Department

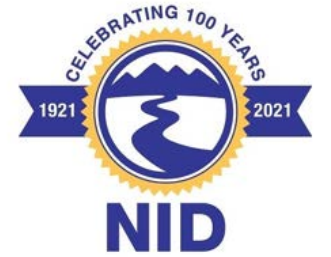


AR2 overgrowth-tick infestation



Safety

Pictures



Patch paving-Huges Road after a leak



Bear Valley Yard-new foundation pad for new electrical panel

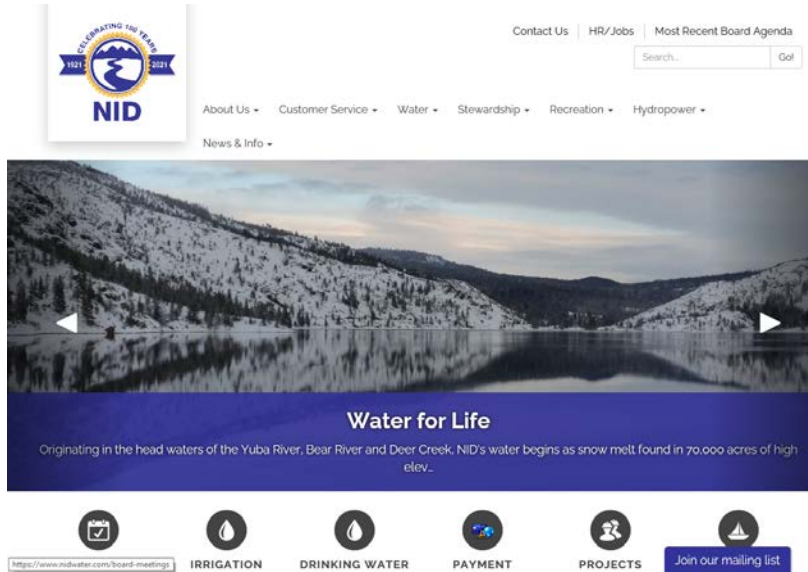


Communications

Website

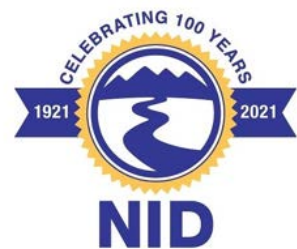
Stats for May

Visits: 26,200



Top 10 pages for the past month

1.	/ main page	7,296
2.	/current-job-openings	1,664
3.	/welcome-to-human-resources	1,286
4.	/river-reservoir-data	1,196
5.	/rollins-lake	1,156
6.	/scotts-flat-lake-campground	784
7.	/contact-us	646
8.	/campground-information	490
9.	/news-releases	432
10.	/board-meetings	407



Communications

Social Media



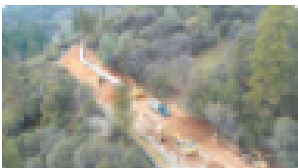
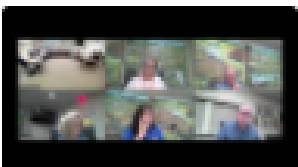

YouTube

- 298 views
- 56 subscribers
- 23 viewing hours

Facebook

- 129 page views
- 21,801 people reached
- 11 page likes

Top 5 videos on YouTube

1		What is a Miner's Inch of Water? Mar 6, 2012	93
2		April 28, 2021 - Board Meeting Apr 30, 2021	27
3		Combie I Feb 2021 Feb 22, 2021	20
4		May 12, 2021 - Board of Directors Meeting May 12, 2021	17
5		Sediment and Mercury Removal at Combie Reservoir Dec 26, 2018	14

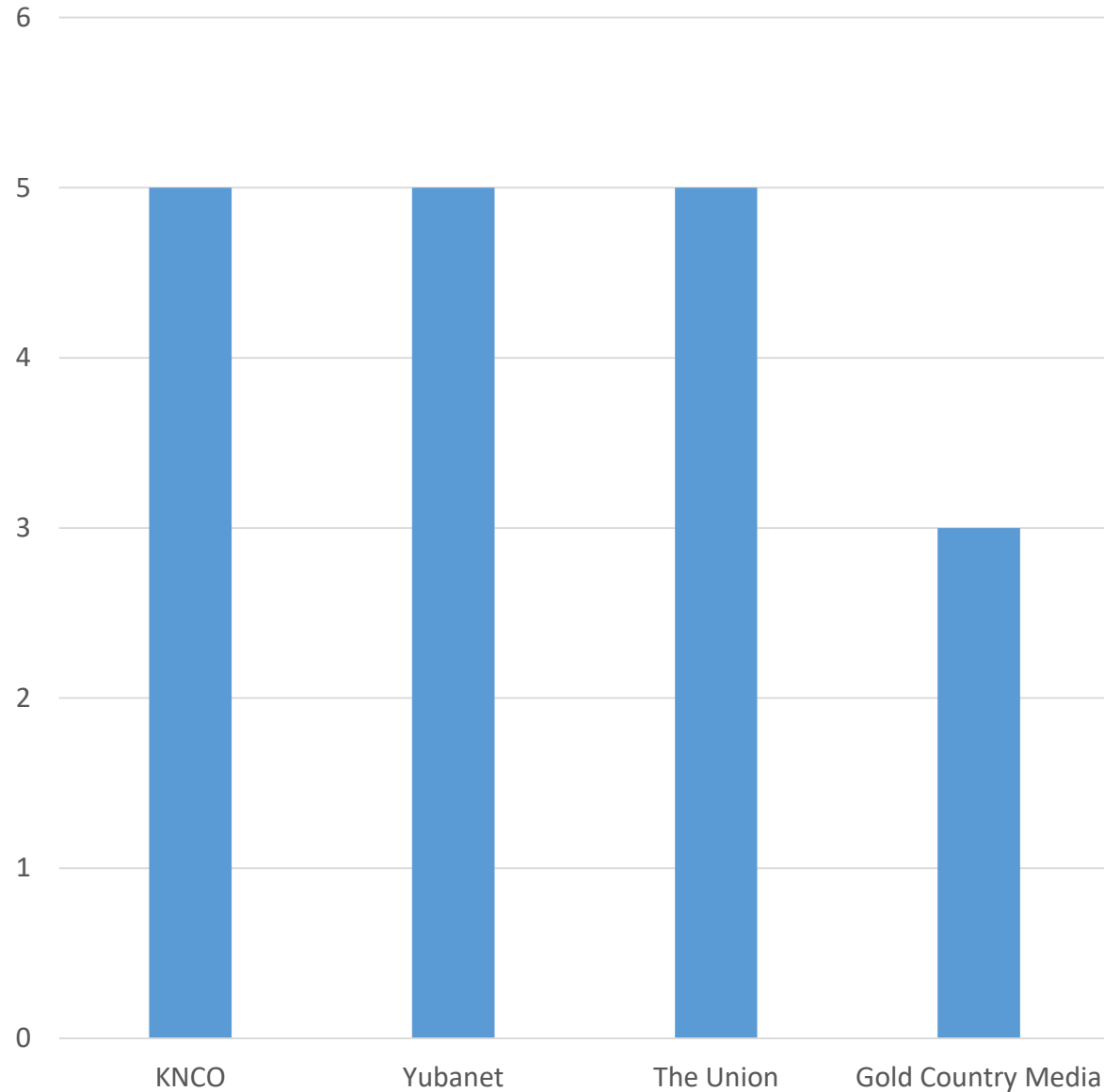
Communications

News Releases

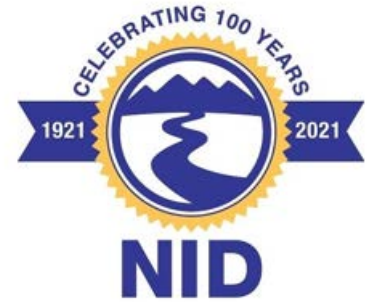
Past 30 days
News Releases = 8

Coverage:

- Yubanet
- KNCO
- The Union
- Gold Country Media



Engineering Department



Project Highlights

Engineering Project Status Report

Hydroelectric Project Status Report

**ENGINEERING DEPARTMENT PROJECT STATUS
AS OF JUNE 15, 2021**

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments
01 - EXTENDED CEQA [\$30,000] 10151- 52913							
01	DOUGLAS RODERICK	DIV 2	Banner Cascade Pipeline	6593-2	Banner Cascade & Upper Grass Valley Canals - Longterm Canopy Cover & Pond Studies - Year 8 of 10 year Monitoring Plan	Post Construction	Studies to be completed Fall 2021 by Stantec Environmental
02 - PIPELINE REPLACEMENT (\$2,050,000) 10151-52907							
01	TONIA TABUCCHI HERRERA	DIV 5	Rough & Ready Round-a-bout waterline improvements	2497	Nevada county proposed to realign Rough and Ready Hwy, Ridge Road and Adams Ave. NID affected facilities included treated water line along Rough and Ready HWY and Adams Ave ; and Rough and Ready Canal crossing/near Ridge Road.	Planning	The County is agreeable to relocating the culvert crossing for the RR canal. Details of ROW management and District participation in discussion internally. The County does not feel the treated waterline is impacted by their project and will not relocate it as a result.
02	TONIA TABUCCHI HERRERA	DIV 5	Christian Life Way at Highway 49	6962	Replace approximately 1500 LF of pipeline with 8" pipeline. Existing pipeline is undersized; has reached its useful life, is difficult to access, existing ROW is inadequate, requires new route for accessibility	Design	Investigating an alternative route to improve maintenance access, and potential to add additional service connections.
03	TONIA TABUCCHI HERRERA	DIV 4	Meadow Brook Pipeline Relocation	2324	Service lines are located in backyards and trees have broken the mainline several times. Project includes relocation of service lines and abandonment of 4" main.	Planning	Survey has been requested.
04	ADRIAN SCHNEIDER	DIV 2	North Day Road Pipeline Replacement	2182	Replacement of badly deteriorated A.C. pipeline on North Day Road. Approximately 3,780 feet long.	Design	Design at 90%. Approximately 20 Easements are being evaluated for new pipe location
05	ADRIAN SCHNEIDER	DIV 3	Willaura Acres	2323	Replace deteriorated water mains and services.	Design	Preliminary plans completed, being reviewed internally. Construction budgeted for next year
06	DOUGLAS HOBBS	DIV 2	Osborne Hill Inlet Pipe	6966	Osborne Hill Inlet Pipe 1,720' of 18" pipe	Planning	Preparing Scoping Report
07	TONIA TABUCCHI HERRERA	DIV 4	Live Oak Way	2534	Replace old and undersized valves and service lines.	Planning	2021 Budgeted Project.
03 - PRV REPLACEMENT (\$480,000) 10151-52908							
01	DOUGLAS HOBBS	DIV 1	Berggren Lane PRV Replacement	2370	Replace PRV with 1300 LF of 8" pipe connecting Red Dog Rd. with Jasper Agate Court	Construction	Design and easement acquisition complete. Maintenance has started construction.
02	TONIA TABUCCHI HERRERA	DIV 2	Cedar Ridge PRV Replacement	2366	Existing PRV station is badly deteriorated with valves in a vault . Replacement station will be above ground. Additional ROW is required	Design	Design 90%. Property owner to be contacted regarding existing easement; easement adjustment is required.
03	TONIA TABUCCHI HERRERA	DIV 1	East Ridge PRV Replacement	2318	Existing PRV station is badly deteriorated with valves in a vault . Replacement station will be above ground. Additional ROW is required.	Design	Design 10%.
04	DOUGLAS HOBBS	DIV 2	Silver Way PRV Replacement	1010	Replace existing PRV station at corner of Silver Way and Hwy 174 with an above ground PRV station upstream on Hwy 174	Design	Design at 10%. Property owner to be contacted regarding adding above ground structure to existing pipe easement.

**ENGINEERING DEPARTMENT PROJECT STATUS
AS OF JUNE 15, 2021**

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments
05 - RAW WATER SYSTEM IMPROVEMENTS (\$1,250,000) 10151-52910							
01	DOUGLAS HOBBS	DIV 4	Santini Siphon	1098	Replacement of undersized Siphon with 1500 LF of 18" pipe.	Construction	Design complete. Easements have been acquired (4). Maintenance has started construction. Completion anticipated in November 2021.
02	DOUGLAS RODERICK	DIV 1	South Yuba Canal Repair Upgrades Ph 1	2419	Repair/Replace segments of So. Yuba Canal	Planning	Additional field work conducted May 4, 2021. Draft report for internal review is anticipated in June, 2021.
03	ADRIAN SCHNEIDER	DIV 3	Maben Canal - IV	8099-4	Rehabilitate and enlarge canal.	Design	Draft design plans completed; easements being reviewed by ROW. Construction to begin in 2022.
04	DOUGLAS HOBBS	DIV 4	Hayt Canal Siphon Replacement	2580	Evaluate alternatives for a spill at siphon #6 and shortening the end of the canal.	Planning	Evaluating alternatives
05	TONIA TABUCCHI HERRERA	DIV 5	Pet Hill Extension Repairs	2373	Repair and upgrade pipeline and gate for capacity	Planning	2021 Budgeted Project.
06	TONIA TABUCCHI HERRERA	DIV 5	China Drop Pipe Replacement	2329	Replacement of badly deteriorated pipeline to improve water delivery and reliability.	Planning	Survey completed. Reviewing for CEQA needs.
07	DOUGLAS HOBBS	DIV 1	Clipper Creek Techite	2535	Replace 8600' of 24" Techite pipe.	Planning	2021 Budgeted Project.
08	ADRIAN SCHNEIDER	DIV 2	China Union Parshall Flume	2570	Design and install a pre-manufactured, 24" Parshall Flume on the China Union Canal	Design	Design being reviewed. Installation in 2021 pending Operations and Maintenance schedules and budget.
09	DAR CHEN	DIV 2	Loma Rica Dam	2529	Repairs to Loma Rica Dam -	Planning	Alternatives analysis being developed for design with an engineering consultant. Once a preferred alternative is selected, the project will move into the design phase.
06 - BACKBONE EXTENSION 10151-52911							
01	TONIA TABUCCHI HERRERA	DIV 5	E. George to LWW Pipeline	2255	Extend a pipeline from the E. George Treatment Plant to Lake Wildwood to increase the water supply capacity, reliability, and create redundancy. Project to be completed in phases as funds become available.	Construction	Phase 5b - Ridge Road waterline replacement in construction by Maintenance. The Slate Creek PRV relocation and replacement is in planning stage. ROW acquired for Phases 1 & 8a.
07 - NON-PROGRAMMATIC [2,200,000] 10151-52915							
01	DOUGLAS RODERICK	DIV 3	Combie I Replacement	6746	Combie Phase 1 Pipeline Bypass, 8900 LF of 96" pipe	Closeout	Pipeline complete and placed into service. Final grading and clean-up anticipated in June. Met with Table Meadow Road Association to discuss impacts and repairs to private roads due to construction traffic. Anticipate bringing contract for road repairs to the Board by July 2021
02	DOUGLAS HOBBS	DIV 2	Alta Sierra Tank Replacement	6971	Replace existing Alta Sierra Hypalon-covered reservoir with 3MG storage tank	Construction	Electrical design has started. Five wall sections have been poured and columns are being installed. Added two ground level access hatches to project. Easement for 8" pop-off valve at golf course is in process.
03	TONIA TABUCCHI HERRERA	DIV 4	Hemphill Diversion	7032	Hemphill Diversion Project to facilitate Fish Passage.	CEQA Process	DEIR comments period closed. Staff currently reviewing response to comments and AFEIR. Anticipate Public Hearing at the July 28, 2021 Board Meeting.
04	DOUGLAS HOBBS	DIV 5	LWW Clarifier Tank A	2526	Rehabilitate Clarifier Tank A. Work will precede other Lake Wildwood Treatment Plant Upgrades (FATR 2568).	Planning	Maintenance Project, requires extensive rehabilitation in addition to painting. Looking into alternatives.
05	DOUGLAS HOBBS	DIV 5	LWW Treatment Plant	2568	Lake Wildwood Treatment Plant Upgrades - Drying beds, backwash pumps and canal intake screen.	Planning	2021 budgeted project. Working on Clarifier Tank A rehabilitation (FATR 2526)
06	ADRIAN SCHNEIDER	DIV 3	North Auburn Treatment Plant	2376	Upgrade of high lift pumps and addition of emergency generator at North Auburn Water Treatment Plant	Design	Waiting for PG&E response to request for adding larger natural gas service from main in street. Design at 90%. Generator install expected in Summer 2021
07	ADRIAN SCHNEIDER	DIV 2	Pine Woods Pump Station	2488	Design, purchase and install a permanent stand-by generator at Pine Woods Pump Station	Planning	Draft Study under internal review.
08	TONIA TABUCCHI HERRERA	All	SGIP Battery Installation	2520	Battery installation at various District facilities. Part of the California Public Utilities Self-Generation Incentive Program	Design	Board authorized staff to proceed with ESA for three sites - E. George WTP; Loma Rica WTP, and Norlene Pump Station. Design is underway.

**ENGINEERING DEPARTMENT PROJECT STATUS
AS OF JUNE 15, 2021**

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments
07 - NON-PROGRAMMATIC [2,200,000] 10151-52915							
09	DOUGLAS HOBBS	DIV 2	Loma Rica WTP Clear Well	2375	Expansion of clearwell to add volume for higher plant flows.	Planning	2021 budgeted project.
10	DOUGLAS HOBBS	DIV 2	Loma Rica WTP Modify CT	2378	Modification of Loma Rica Treatment Plant for additional chlorine contact times	Planning	2021 budgeted project.
11	ADRIAN SCHNEIDER	DIV 3	David Way Pump Station Rehab	2322	Replace the existing David Way Pump Station. Facility is badly deteriorated.	Design	Waiting for proposals/quotes from two companies. EFI has provided draft conceptual plans.
12	DOUGLAS RODERICK	DIV 2 & 3	Centennial Water Supply Project	7013	Centennial Water Supply Project	Planning	Next quarterly update to the Board will be at the June 23, 2021 meeting. No consulting work or AB52 consultations have taken place.
08 - COMMUNITY INVESTMENT 10151-52912							
01	ADRIAN SCHNEIDER	DIV 2	Loma Rica Drive - DFWLE	2181	Assist, Design and Construction of a pipeline for existing neighborhoods approved by the Engineering Committee January 16, 2018	Planning	Received funding agreements from property owners. Requesting easements from six (6) property owners on Lee Lane portion of project. Coordinating with HOA for fiber optic installation.
02	ADRIAN SCHNEIDER	DIV 2	Maranatha Place DFWLE	2409	Assist, Design and Construction of a pipeline for existing neighborhoods. Approved by Engineering Committee Aug 20, 2019.	Planning	Waiting for available funding to move project forward.
13 - ENGINEERING O&M 10151-52603							
01	DOUGLAS RODERICK	N/A	Urban and Agricultural Water Management Plan	1034	Development and approval of Urban and Agricultural Management Plans as regulatory required	Planning	AWMP approved and resolution adopted by Board on April 14, 2021. Staff reviewing portions of the UWMP. Released UWMP for public review on June 7, 2021. Board workshops scheduled for June 23 & 24, 2021. Public Hearing Scheduled for July 14, 2021.
02	GREG JONES	N/A	District Wide Plan for Water	1041	Plan for Water / EIR	Planning	Waiting until AWMP & UWMP's are completed. Anticipate public outreach in Fall 2021.
13-1 - ADMIN CAPITAL 10115-52915							
01	GREG JONES ADRIAN SCHNEIDER	N/A	Scotts Flat Lower Connector Trail	2294	Planning, design, and construction of Scotts Flat Lower Connector Trail	Planning	Public review of Initial Study/Mitigated Negative Declaration ended May 14, 2021. Project to be re-evaluated and discussed with Board.
02	DOUGLAS HOBBS	N/A	Ramp Repairs	2504	Repair the access ramp leading to the Admin entrance at the main office.	Planning	Hiring a Structural Engineer to develop plans for submittal to the City
17 - SEDIMENT REMOVAL PROJECTS 10151-52914							
01	ADRIAN SCHNEIDER	ALL	District-wide Reservoir Study	2500	District-wide reservoir study of the current condition of all District reservoirs, that includes bathymetry to better understand the diminished capacity due to sedimentation. Will assist in determining costs, prioritization, and alternatives.	Planning	Draft report revisions in process based on internal review and comments. Final report anticipated by end of June 2021
02	ADRIAN SCHNEIDER	DIV 2	Loma Rica Reservoir	2090	Placement of 5,600 cubic yards of stockpiled sediment at airport property	Post Construction	Project complete, Will be removed from future Project Status Reports
03	GREG JONES	DIV 3	Combie Sediment Removal Project	2135	Removal of sediment at the east side of Combie Reservoir	Post Construction	Coordinating Put Option with Teichert for sediment ownership transfer
04	ADRIAN SCHNEIDER	DIV 2	Greenhorn Sediment Removal	8515	Removal accumulated sediment from the Greenhorn Creek arm of Rollins Reservoir	Hold	Pending final Reservoir Sediment Removal Study (cost/benefit analysis) to determine validity of removing sediment from this portion of Rollins Reservoir.

**ENGINEERING DEPARTMENT PROJECT STATUS
AS OF JUNE 15, 2021**

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments
17 - SEDIMENT REMOVAL PROJECTS 10151-52914							
05	ADRIAN SCHNEIDER	DIV 3	Orr Creek Reservoir Cleaning	6963	Remove accumulated sediment from the Greenhorn Creek arm	Hold	Pending final Reservoir Sediment Removal Study (cost/benefit analysis) to determine validity of removing sediment from this portion of Rollins Reservoir.
06	ADRIAN SCHNEIDER	DIV 2	Dutch Flat Afterbay Sediment Removal	2213	Remove accumulated sediment from the afterbay to reduce outlet pipe clogging for operation	Hold	Pending final Reservoir Sediment Removal Study (cost/benefit analysis) to determine validity of removing sediment from this portion of Rollins Reservoir.
07	ADRIAN SCHNEIDER	DIV 2	Steephollow Sediment Removal	6877	Removal of sediment at Steep Hollow and protection of hydro facilities	Hold	Pending final Reservoir Sediment Removal Study (cost/benefit analysis) to determine validity of removing sediment from this portion of Rollins Reservoir and perfection of access rights.
PRIVATE FIRE SERVICES (PFS)							
01	TONIA TABUCCHI HERRERA	DIV 1	ZAP Manufacturing	2422	10-inch PFS Installation	Post-Construction	Construction complete, waiting for As-built submittal to close project
02	TONIA TABUCCHI HERRERA	DIV 4	Timberline Lot 20	2175	Two 8-inch PFS's Installation	Pre-Construction	Plan check complete waiting for developer to request Engineering Manager signature
03	DOUG HOBBS	DIV 5	Comfort Plumbing	2476	4-inch PFS Installation	Construction	Main line tee has been installed
04	DOUG HOBBS	DIV 2	Crown Point Ct (Dentist)	2487	6-inch PFS Installation	Construction	Main line tee has been installed
05	DOUG HOBBS	DIV 1	Brunswick Commons Apartments	2495	6-inch PFS Installation	Construction	Main line tee installed. Contractor constructing PFS and manifold for domestic and irrigation services.
06	DOUG HOBBS	DIV 1	Cashin's Field Apartments	2573	8-inch PFS Installation	Plan-Check	Developer's Engineer sizing meters to finalize design
DEVELOPER WATERLINE EXTENSIONS							
01	TONIA TABUCCHI HERRERA	DIV 4	Timberline Phase 2 Timberline Dewitt Sewer Line Conflict	2117	Install approx. 2,200lf of 18" HDPE pipe with access manholes to reroute an existing NID canal within the limits of Phase 2. Also, install approx. 5,300 lf of 12-inch pipe with 49 expected water services. Increase of sewer line size impacts District waterline – Developer relocating a section at Joeger and Meadow Glenn -	Plan-Check	Plans routed for comments Contractor has potholed existing utilities. Has proposed change to the approved plan.
02	TONIA TABUCCHI HERRERA	DIV 1	Gracie Commons	2253	Developer waterline extension of approximately 600 lf waterline off of Gracie Road with services and a fire hydrant for the development named "Gracie Commons" consisting of approximately 16 dwelling units on APNS 005-500-032 & 037-050-054 Nevada City.	Plan-Check	Plans routed for comments
03	TONIA TABUCCHI HERRERA	DIV 5	Ridge Village	2547	Installation of approx 1,340 lf 8-inch waterline and fire hydrants	Construction	Site grading has started. Contractor has potholed utilities in Slate Creek Road for waterline tie-in.
04	ADRIAN SCHNEIDER	DIV 5	Nevada Joint Union High School District	2558	Installing approximately 385lf of 10-inch waterline, 67lf of 6-inch, 1 fire hydrant	Plan-Check	Waiting for information on property line drawing (Developer)
05	ADRIAN SCHNEIDER	DIV 1	Queen Lil Place	2566	Installation of approx 695 lf of 8-inch waterline, 486 lf of 4-inch waterline and 1 fire hydrant	Plan-Check	Waiting for easements to place pipe on private road (Developer)
06	ADRIAN SCHNEIDER	DIV 1	Blair Ct	2108	Installation of approx 500 lf of 8-inch pipe, 1 fire hydrant, 1 private fire service	Post-Construction	Construction complete, waiting for As-built submittal to close project
07	DOUG HOBBS	DIV 4	Placer County Government Center	2473	Installation of approx 1,985 lf of 16-inch waterline, 4 fire hydrants, and all appurtenances. Also encase and realign approx 2,306 lf of Ophir Canal along 1st Street (Placer County Government Center).	Construction	Canal complete and in service. Pressure testing of treated waterline anticipated week of June 14, 2021.
08	DOUG HOBBS	DIV 1	Loma Rica Ranch	2543	Installing approximately 9,700 lf of waterline, 17 fire hydrants, 1 PRV station	Plan-Check	Plan check routed for review

ENGINEERING DEPARTMENT PROJECT STATUS

AS OF JUNE 15, 2021

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments
CANAL ENCASEMENTS							
01	DOUGLAS RODERICK	DIV 4	Lincoln Meadows Subdivision	2429	Encase Lincoln Canal through Lincoln Meadows Subdivision parcel	Construction	Construction nearing completion; pipe in service, waiting for storm drain.

**HYDRO ELECTRIC DEPARTMENT PROJECT STATUS
AS OF JUNE 15, 2021**

<u>Prty</u>	<u>Proj Mgr</u>		<u>Facility Name</u>	<u>WO#</u>	<u>Description</u>	<u>Status</u>	<u>Comments</u>
10-1 - HYDRO NON-PROGRAMMATIC (\$250,000) 50112-52915							
01	KEANE SOMMERS	2020	Hydro Field Office	2432	Design and construction of the new Hydroelectric Field Office	Hold	The Energy Center program components are under development. The new maintenance facility and storage yard draft pre-design by the architect is complete. The three energy/carbon concept studies are complete; forest carbon sequestration, pumped storage, and solar field. A draft Energy Management Strategy Summary has been received and is under review. Once all efforts are completed, findings will be summarized to present options and alternatives for developing the site into various levels of renewable energy generation and carbon zero footprint.
10-2 - HYDRO POWERHOUSE IMPROV (\$1,925,000) 50112-52920							
01	NATHAN DROIVOLD	2021	Chicago Park Powerhouse Governor Replacement	2402	Replace governor, install instrumentation that will enable operators to monitor flow, temperature, and pressure of vital powerhouse components.	Construction	Final design complete. Procurement of project materials is nearly complete. Construction is underway. Hydro will install the new cooling water system during the 2021 annual outage for Chicago Park Powerhouse.
02	NATHAN DROIVOLD	2020	Rollins Powerhouse	2351	Replace the existing oil circuit breaker (OCB) at the Rollins Powerhouse with a more environmentally acceptable vacuum circuit breaker.	Design	Hydro has opened a project with PG&E's engineering team and is working with PG&E to provide requested project documentation. Existing breaker pad was extended in early May to accommodate the larger footprint of the new breaker. Hydro is reviewing a new drawing package for breaker interconnection to Rollins PH. Breaker is in manufacturing until August. Installation is planned for Q3 2021.
03	NATHAN DROIVOLD	2020	Rollins Powerhouse Balance of Plant	2393	Install an expandable balance of plant to monitor critical plant systems such as excess vibration of the turbine and generator, temperature, and flow.	Design	Design is nearly complete. Hydro is reviewing a 100% design package in June. The design will be completed in Q2 2021, and installation is scheduled for Q3 2021 during the annual outage. Staff will request NID Board of Directors for approval of a materials purchase during the regular 06/23 Board of Directors Meeting.
04	ADRIAN SCHNEIDER	2019	Chicago Park Fire Suppression System (DIV 2)	2164	Upgrade of existing CO2 system (piping, alarms, sensors) to protect Generator. Includes installation of new Clean Agent suppression system for control room and the addition of a fire detection system for electrical cable trays.	Construction	Project nearing completion. Final items include replacement of faulty handle and programming ICM into existing SCADA. As-builts to be delivered to NID from Contractor. Future training of fire system to be included as an additional phase of the project.
05	Kaylie Hague	2021	SFPH Fire Detection Upgrades	2552	Install new smoke detection systems in the Scotts Flat Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Design	Hydro received a draft basis of design report for the new fire detection systems in late May and is in the process of reviewing. Design drawings are expected by mid-June. Design and installation is scheduled to be completed by the end 2021.
06	Kaylie Hague	2021	CNPH Fire Detection Upgrades	2553	Install new smoke detection systems in the Combie North Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Design	Hydro received a draft basis of design report for the new fire detection systems in late May and is in the process of reviewing. Design drawings are expected by mid-June. Design and installation is scheduled to be completed by the end 2021.
07	Kaylie Hague	2021	CSPH Fire Detection Upgrades	2554	Install new smoke detection systems in the Combie South Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Design	Hydro received a draft basis of design report for the new fire detection systems in late May and is in the process of reviewing. Design drawings are expected by mid-June. Design and installation is scheduled to be completed by the end 2021.
08	ADRIAN SCHNEIDER	2019	Combie Reservoir	6943	Combie South Access Road. Develop approx. 3,000 ft. from south abutment.	Design	NID Right of Way has sent offer packages to purchase easements from neighboring property owners needed to allow for access to the new road. NID is awaiting responses. Construction is planned for Summer/Fall 2021.
09	THEODORE BLANK	2019	Combie South Electrical Upgrades	2168	Combie South Electrical Upgrades	Design	The new 12kV transformer has been delivered to Hydro. Plans for the new containment pad are complete. Installation is scheduled for later 2021.
10	NATHAN DROIVOLD	2020	Rollins Powerhouse Relay Protection Upgrade	2394	Replace aging relay protection system to improve protection of the powerhouse relay, transformer, and generator.	Planning	Hydro has received revised project specifications developed by the consultant and is conducting an internal review. Specifications will be finalized in June. A bid package for design and installation will be developed for the project by NID staff in July. The bid package will be released later in 2021.
11	THOMAS KLUGE	2021	Dutch Flat #2 Powerhouse	2483	Dutch Flat #2 Powerhouse Backup Generator: All costs associated with the installation of new backup generator at Dutch Flat #2 Powerhouse.	Planning	Hydro has received bids for the engineering design and interconnection of the new breaker. Bids are being evaluated. Design is expected to start by July.

**HYDRO ELECTRIC DEPARTMENT PROJECT STATUS
AS OF JUNE 152021**

<u>Prty</u>	<u>Proj Mgr</u>		<u>Facility Name</u>	<u>WO#</u>	<u>Description</u>	<u>Status</u>	<u>Comments</u>
10-2 - HYDRO POWERHOUSE IMPROV (\$1,925,000) 50112-52920							
12	THOMAS KLUGE	2021	Combie North Powerhouse	2581	Combie North Powerhouse Capacitor Bank Upgrade: Design and replace existing capacitor bank at Combie North Powerhouse to improve the reliability and efficiency of power generation of the facility.	Planning	Project setup is in progress. Design is expected to start in Q2 2021.
13	NATHAN DROIVOLD	2020	Deer Creek Powerhouse	2290	Deer Creek Powerhouse Upgrades - Cost of upgrades necessary to sell power upon close of sale	Design	Hydro is finalizing plans for a new gaging station on the South Yuba Canal that will measure flow supplying Deer Creek PH. Discussions with PG&E are ongoing. These plans will be sent to PG&E for approval prior to installation.
14	NATHAN DROIVOLD	2021	Chicago Park PH Transformer Replacement	2362	Procure and install a new main transformer at the Chicago Park Powerhouse.	Planning	Hydro is working with an engineering consultant to perform a condition assessment of the existing equipment in the Chicago Park PH to make recommendations for future repair or replacement. A site visit was made in late April to complete an inclusive facility inspection. First draft of the condition assessment report is expected in June. The project scope will be developed after reviewing this report in 2021.
15	NATHAN DROIVOLD	2021	Chicago Park PH Turbine Overhaul	2353	Replace worn turbine and appurtenances.	Planning	Hydro is working with an engineering consultant to perform a condition assessment of the existing equipment in the Chicago Park PH to make recommendations for future repair or replacement. A site visit was made in late April to complete an inclusive facility inspection. First draft of the condition assessment report is expected in June. The project scope will be developed after reviewing this report in 2021.
16	NATHAN DROIVOLD	2021	Rollins PH Governor Replacement	2392	Replace worn governor and appurtenances.	Hold	Hydro to begin project scoping later in 2021. Installation is scheduled for 2022.
17	NATHAN DROIVOLD	2021	Dutch Flat #2 PH Cooling Water System Upgrades	2544	Install new instrumentation that will enable operators to monitor flow, temperature, and pressure of vital powerhouse components	Hold	Hydro will solicit proposals to complete the design of a new cooling water system in 2021. Installation is planned for 2022.
18	NATHAN DROIVOLD	2020	Dutch Flat #2 Powerhouse Fire Supression System	2240	Designing, installing and commissioning a new CO2 fire suppression system for the Dutch Flat #2 Powerhouse.	Hold	Hydro has received a draft basis of design report from its consultant for a new fire suppression system at the Dutch Flat #2 Powerhouse. Hydro has reviewed and provided comments for revisions to the document. A final draft of the basis of design report is expected during Q1 2021.
19	NATHAN DROIVOLD	2020	Bowman Intertie	2354	Replace the existing Bowman Inter-tie SF6 breaker with a more environmentally friendly vacuum circuit breaker	Hold	Hydro will replace the existing SF6 breaker with a vacuum circuit breaker after completion of the oil circuit breaker replacement at Rollins PH (FATR# 2351).
20	NATHAN DROIVOLD	2021	Rollins PH Fire Protection System	2379	Provide fire protection system for Rollins Powerhouse (design, installation and commissioning).	Hold	Hydro to begin project scoping in 2021. Installation is scheduled for 2022.
21	NATHAN DROIVOLD	2021	Deer Creek PH Controls and Automation	2342	Install programmable logic controller and automate the Deer Creek Powerhouse.	Hold	Hydro to begin project scoping in 2021 with construction scheduled to start in 2022. Project schedule assumes NID will takeover PG&E facilities in 2021.
22	NATHAN DROIVOLD	2021	Deer Creek PH Exciter Replacement	2395	Replace exciter & appurtenances.	Hold	Hydro to begin project scoping in 2021 with construction scheduled to start in 2022. Project schedule assumes NID will takeover PG&E facilities in 2021.
23	NATHAN DROIVOLD	2021	Deer Creek PH Generator Breaker Replacement	2343	Replace the existing generator breaker with a generator breaker and cabinet to mitigate an arc flash safety hazard at the Deer Creek Powerhouse and improve reliability.	Hold	Hydro to begin project scoping in 2021 with construction scheduled to start in 2022. Project schedule assumes NID will takeover PG&E facilities in 2021.
10-3 - HYDRO DAM & WATER IMPROV (\$2,660,000) 50112-52921							
01	MIN CHEN	2020	Scotts Flat Spillway Repair	2094	Scotts Flat Spillway Repair & Upgrades	Design	Model construction is nearly complete. FERC and DSOD approved the start of trial testing of the model which is currently underway. The final alternatives report including the preferred solution is expected later in 2021. Preliminary results indicate capacity concerns which may require additional modelin
02	ADRIAN SCHNEIDER	2020	French Dam Upgrades & Gaging Station	2007/ 2360	Replace the damaged sections of the concrete lining on the upstream dam face to minimize leakage, modify the spillway training walls to prevent over topping, and construct a gaging station on the dam outlet to measure flow.	Construction	Request for Quotes for construction was distributed on May 7, 2021. Prebid job walk is scheduled for June 16, 2021. Quotes are due July 1, 2021. Construction is anticipated to start by August 2021.
03	MIN CHEN	2019	Combie / Van Giessen Dam	20140 2	Dam stabilization, abutments protection against scouring, and water supply upgrade.	Hold	The final alternatives report has been received and a preferred solution has been selected. Construction is planned for 2025-2026.

**HYDRO ELECTRIC DEPARTMENT PROJECT STATUS
AS OF JUNE 15, 2021**

<u>Prty</u>	<u>Proj Mgr</u>		<u>Facility Name</u>	<u>WO#</u>	<u>Description</u>	<u>Status</u>	<u>Comments</u>
10-4 - HYDRO LOWER DIV (\$100,000) 50112-52922							
01	NATHAN DROIVOLD	2020	Chicago Park Forebay Canal Liner Replacement	2511	Repair segments of the Chicago Park Canal where existing shotcrete liner needs replacement.	Hold	Hydro received a report from Engineering reviewing the findings of the September site visit and damage assessment with Hydro. Hydro and Engineering will hold scoping discussions and start the development of a design report with an alternatives analysis in Q1 2021.
02	NATHAN DROIVOLD	2021	Chicago Park Powerhouse Tailrace Repair	2551	Evaluate and address erosion concerns of the tailrace foundation.	Hold	Hydro received a report from Engineering reviewing the findings of the September site visit and damage assessment with Hydro. Hydro will hold scoping discussions and start the development of a design report with an alternatives analysis in Q1 2021.
03	NATHAN DROIVOLD	2021	Dutch Flat Canal Liner Replacement	2545	Repair segments of the Dutch Flat Canal where existing shotcrete liner needs replacement.	Hold	Hydro will solicit a condition assessment of the existing liner system in 2021 in order to plan for future repairs.
10-5 - HYDRO UPPER DIV (\$300,000) 50112-52923							
01	DOUGLAS RODERICK	2021	Rucker Creek Spillgate	2339	Replace existing radial gate at Rucker Creek Diversion with an overshot gate to improve personnel safety and operational performance.	Design	Hydro and Engineering made a site visit to discuss the project scope and proposed approach in December. Engineering is working with Hydro to develop specifications for the new gate and a preliminary construction plan ahead of contacting gate manufacturer's for quotes. Engineering will make a site visit during the June annual outage to collect measurements inside of the canal while dry.
02	PHILIP NEDVED	2021	Fall Creek Flume Upgrades	2404	Bowman-Spaulding Canal Improvements - Make structural enhancements to improve the reliability of the Fall Creek Flume.	Planning	Hydro has received quotes for the project bill of materials and will start the procurement process. Hydro will make a site visit during the annual canal outage in June to evaluate condition of flume hardware.
03	PHILIP NEDVED	2021	Fall Creek Diversion Improvements	2576	Fall Creek Diversion Improvements. Make structural enhancements to improve the reliability of the Fall Creek Diversion Flume	Planning	Hydro has received quotes for the project bill of materials and will start the procurement process. Hydro will make a site visit during the annual canal outage in June to evaluate condition of flume hardware.
04	MIN CHEN	2020	Texas Creek Flume Repairs	2525	Repairs along the Bowman-Spaulding Canal below the Texas Creek Diversion.	Design	Work is being planned to repair the exposed weathered foundation bedrock and adjacent ground that has been subject to the erosive impact of the spilling water. The design package was submitted to FERC for approval. Construction is planned for Q3 2021.
05	NATHAN DROIVOLD	2020	Wilson Creek Diversion Rehab	2546	Repair and modify the Wilson Creek Diversion Dam structure to ensure diverted flows are measurable and accurate.	Planning	Hydro has requested Engineering assist to prepare a design for a temporary solution to improve flow measurement and diversion for the 2021-22 winter season. A more permanent solution will be developed for future implementation.
10-6 - HYDRO SCADA/COMMS (\$200,000) 50112-52924							
01	KEANE SOMMERS	2022	Hydro Office Radio Tower	2405	Construct a new hydroelectric field office radio tower to improve communication of critical infrastructure.	Planning	Hydro has contracted with a radio tower design firm to complete a feasibility study and preliminary design of the new radio tower to be located at the site of the future Hydro Office. Line of sight survey was conducted May 10-14 and draft results are being reviewed by Hydro.

Construction Inspectors

PROJECTS CURRENTLY IN CONSTRUCTION

Alta Sierra Tank Site Construction



Combie Phase I – Clean up



Placer County Government Center – Mercy Housing



Brunswick Commons



CalTrans Highway 49 – Shale Ridge to Bell

Right of Way

Administrative Projects:

- **Dudley Canal** – Research record title documents and NID history
- **Red Hill Canal** – Research record title documents and NID history
- **Miller Place** – Perfect right of way for treated water line installed in 1950's – Survey in process, preparing ROW documents
- **Flicker Place** – Perfect right of way for treated water line installed in 1930's - Survey in process, Title report received

Canal Abandonment & Quitclaims:

- **Maben Canal Phase 2 & 3** - Obtain easement for new blow-off valve and coordinate abandonment of facility and quitclaim of right of way – Preparing Resolution for Board

Parcel Map Review:

- **Church Lateral** – Right of way conditions of approval for proposed parcel split
- **Auburn Ravine Diversion & AR1 Canal** – Right of way conditions of approval for proposed parcel split

Other Right of Way Activity:

- 56 Active ROW acquisition's in process
- 12 Acquisitions in escrow
- 78 Routes reviewed for TWS, PFS, RWS, Parcel Maps, Variances
Lot line adjustments, meter relocations, TSL, Subdivision maps,
County routes. (YTD)

Encroachments

Encroachment Permits:

- 5 Encroachment Permit applications received
- Issued 2 gate permits and 1 utility crossing permit with footbridge
- One footbridge and utility crossing replaced under existing permit
- Issued permit to Terra Alta Development to construct road over DS Canal Siphon #10 for forest land management project
- 2 Combie dock permits issued
- **Temporary Encroachment Permits issued to PG&E for:**
 - 6 permits issued for pole replacement
 - 3 permits issued for dead tree removal
 - 2 permits issued for routine tree trimming
 - 2 permits issued for tree removal near transmission lines

Encroachment Violations:

- Worked with Treated Water Maintenance to upgrade three blow-offs due to property owner's encroachment activity
- Issued violations to property owners of 3 failing culverts discovered by Maintenance

Other Encroachment Activity:

- Review and provide comments on 3 new Requests for Treated Water Service
- Review and provide comments on 4 new Requests for Raw Water Service
- Reviewing 3 Setback Variance Requests
- Updating and streamlining the indemnification process and form

Survey

Current Activity:

Dam Survey Surveillance:

- Aerial mapping project to show the topography of the upstream slope linings for the Bowman North and South dams as requested by the Dam Safety Engineer.

Construction Layout:

- Construction staking for the Santini Siphon #1

Property Boundary and Topographic Surveys:

- Topographic Survey and property boundary lines for Meadowbrook Pipeline relocation.

Drafting

Current Projects:

- Loma Rica DFWLE
- China Pipe Drop Replacement
- Combie South PH access road
- Silver Way PRV
- East Ridge PRV
- David Way Pump Station
- China Union Parshall Flume
- North Day Road
- Willaura Acres Pipeline Replacement
- English Meadows Restoration

Geographical Information System (GIS)

The **Geographical Information System (GIS)** is an electronic map using features specific to NID and has been developed for use by all Departments. The GIS is updated daily with construction drawings, Right of Way and Encroachment documents, photos and facilities.

- Treated water features include: waterlines, valves, hydrants, meters, tanks, treatment plants, pump stations, PRVs
- Irrigation water features include: canals, pump stations, reservoirs, service boxes, checks, diversions, spill structures & channels
- Parcel lines and assessors data as well as county and city boundaries, rivers and lakes, roads, aerial photography, USGS quad maps and hill shades for base layers.
- Hydro and Recreations facilities and features
- The GIS is used for the Fire Hydrant locator map on the NID Website,
- It is the foundation for the mapping function in the CMMS
- The GIS is connected to the Customer Service database to view customer information, meters, service boxes and parcel information.

Business Development Services

Year to Date 2021:

- 40 Water Availability Inquiries
- 9 Water Availability Letters Issued
- 2 Treated Water Meter Variance Approvals
- 1 Temporary Service Location Approval
- 3 Canal Setback Variance Approvals
- County Route responses:
 - 20 Nevada County
 - 3 Placer County
- Fire Flow Letters:
 - 4 Residential (Prepared by Doug Hobbs)
 - 5 Commercial (Prepared by Tonia Tabucchi Herrera)
- 4 Memorandum of Pipeline Reimbursement Costs
- 1 Placer County Annexation in process
- 6 Private Fire Service (PFS) projects
- 8 Waterline Extension Projects, and
- 1 Canal Encasement

Upcoming District Financed Waterline Extension (DFWLE) Projects:

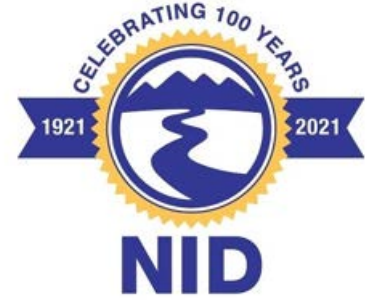
Maranatha Place: Potential of installing approximately 3,000 lf of 8-inch pipe and 3 fire hydrants to serve 23 parcels.

Table Meadow Rd – Phase III: Potential of installing approximately 3,650 lf of 8-inch pipe and 3 fire hydrants to serve 21 parcels.

Ali Lane: Potential of installing approximately 1,210 lf of 8-inch pipe and 2 fire hydrants to serve 8 parcels.

Harris Road: Under review

Water Operations Department



Activities Report

Treated Water Conservation

New Treated Water Accounts

New Raw Water Sales in Miners Inches

Raw Water Sales Changes Miners Inches

Scheduled Treated Water Outages

Emergency Treated Water Outages

Scheduled Raw Water Outages

Water Operations Department

Activities Report

Distribution

- Closely regulating canal system deliveries
- Notifications for multiple treated water outages
- Increased customer calls and meetings due to drought concerns
- Daily aquatic weed control program continues
- Gathering canal water box information for drought planning

Water Treatment

- April treated water production = 341.8 M.G.
- Annual Drinking Water System reports completed
- Campground water system start up completed at Jackson Meadows
- Completed data collection for Sanitary Survey
- Consumer Confidence Report complete
- 2 - Open Plant Operator positions (employees went other organizations)

Water Resources

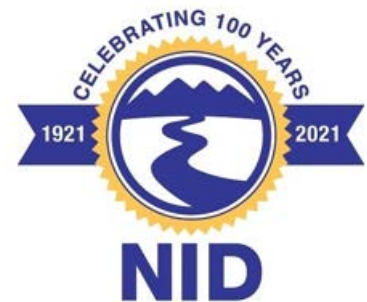
- UWMP data collection and plan development
- Water accounting program updates to reflect PG&E COA language
- Water Right discussions and planning for anticipated curtailments
- Addition of continual data recording equipment at multiple District outflow sites
- Existing gage measurement accuracy improvement planning
- Weather station monitoring development (Upper Division)

Customer Service

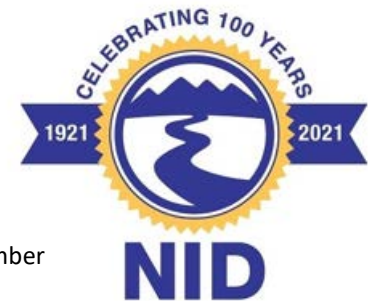
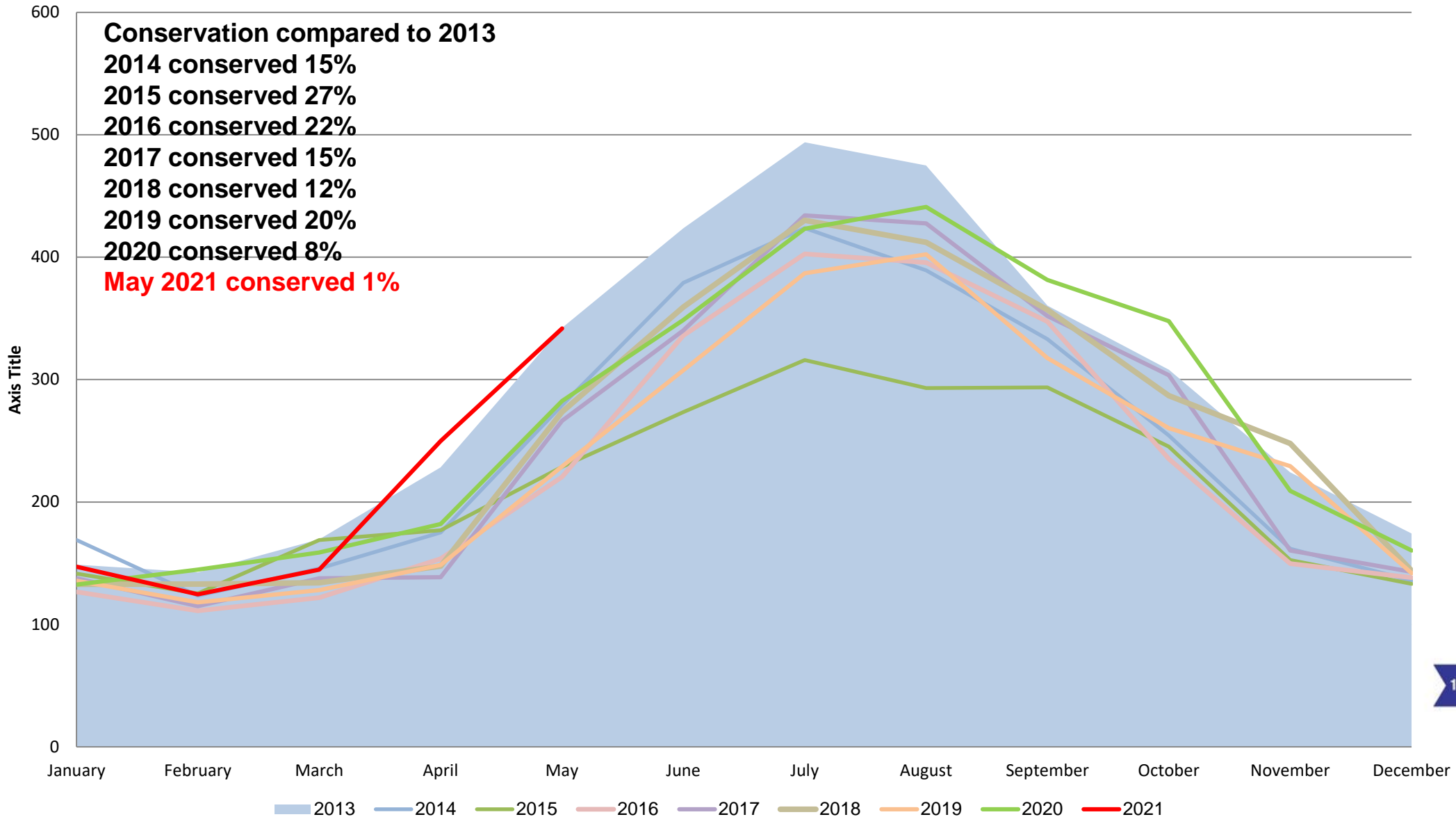
- 3090 customers on electronic billing
- 3873 calls and 284 emails in May
- 3,034 online transactions in May totaling \$360K
- 57 customers utilized LIRA in May
- Updating fee schedules
- Customer Service Techs. replaced 54 meters & 5 endpoints

Electrical

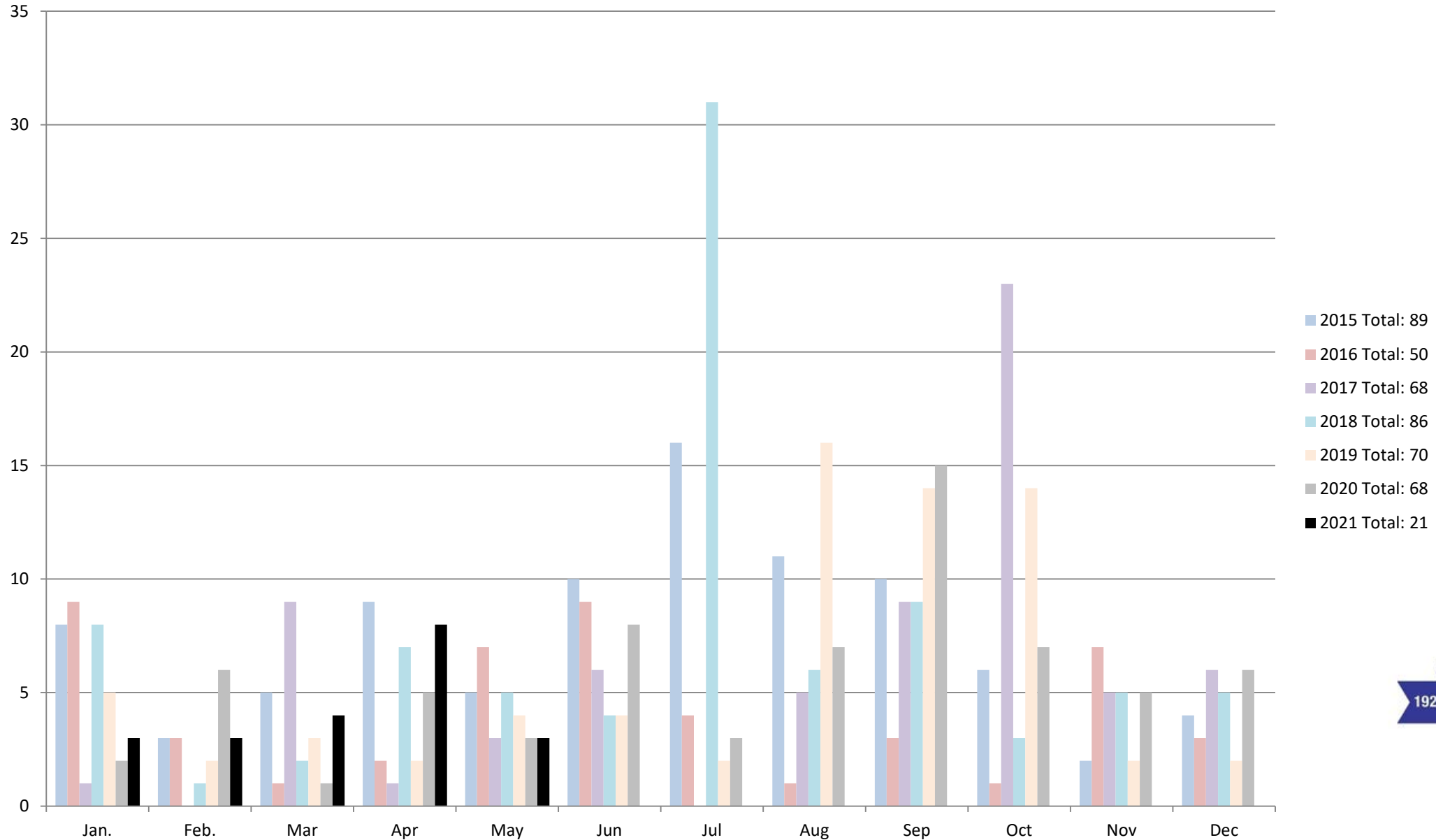
- Replaced Peninsula well contractor
- Installed ground grid at Bear Valley
- Installed tank mixer in Darkhorse tank
- Reduced telemetry data plan – cost savings
- All Osborn Hill tank levels converted to SCADA
- S.F. Gate 2 fuel pump transfer switch station installed
- Completed Peninsula SCADA panel and automated measuring of pressure and storage tank levels



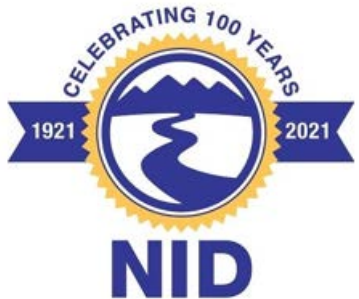
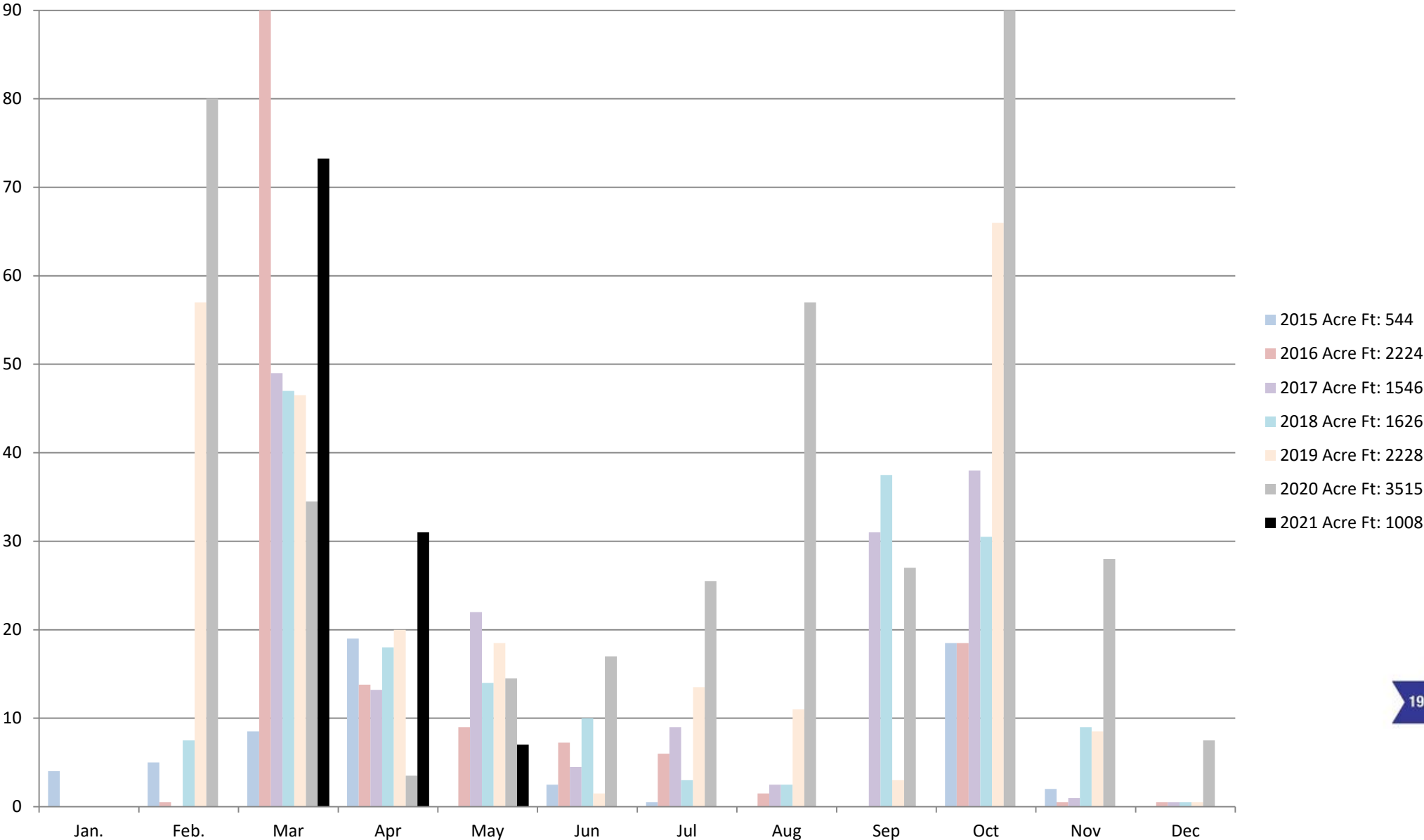
Treated Water Conservation Comparison



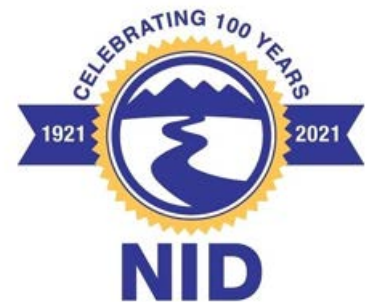
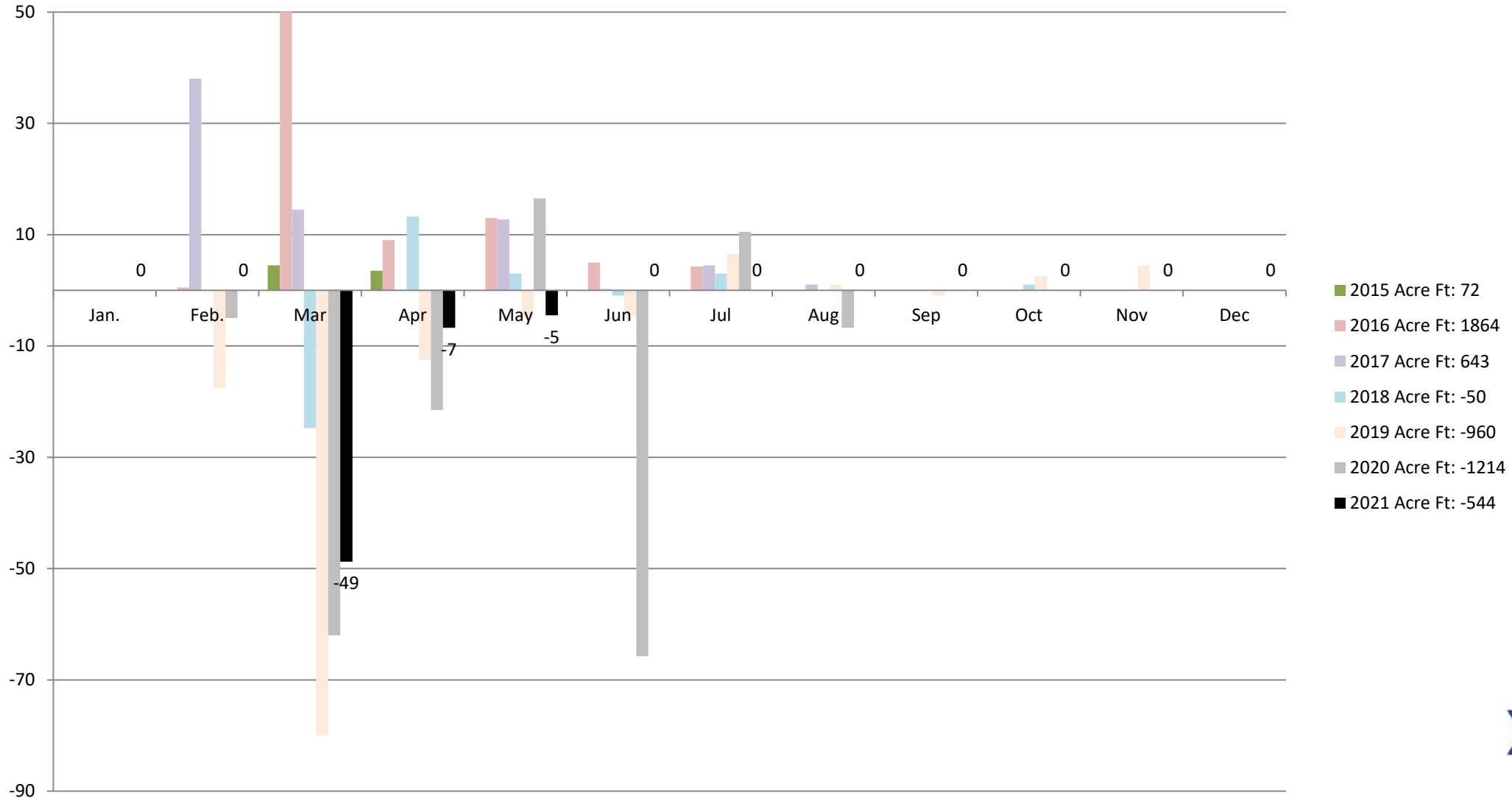
New Treated Water Accounts



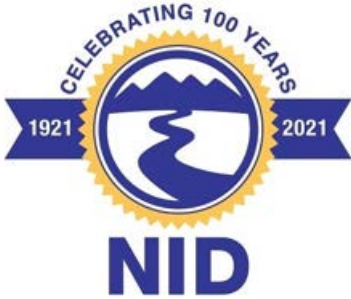
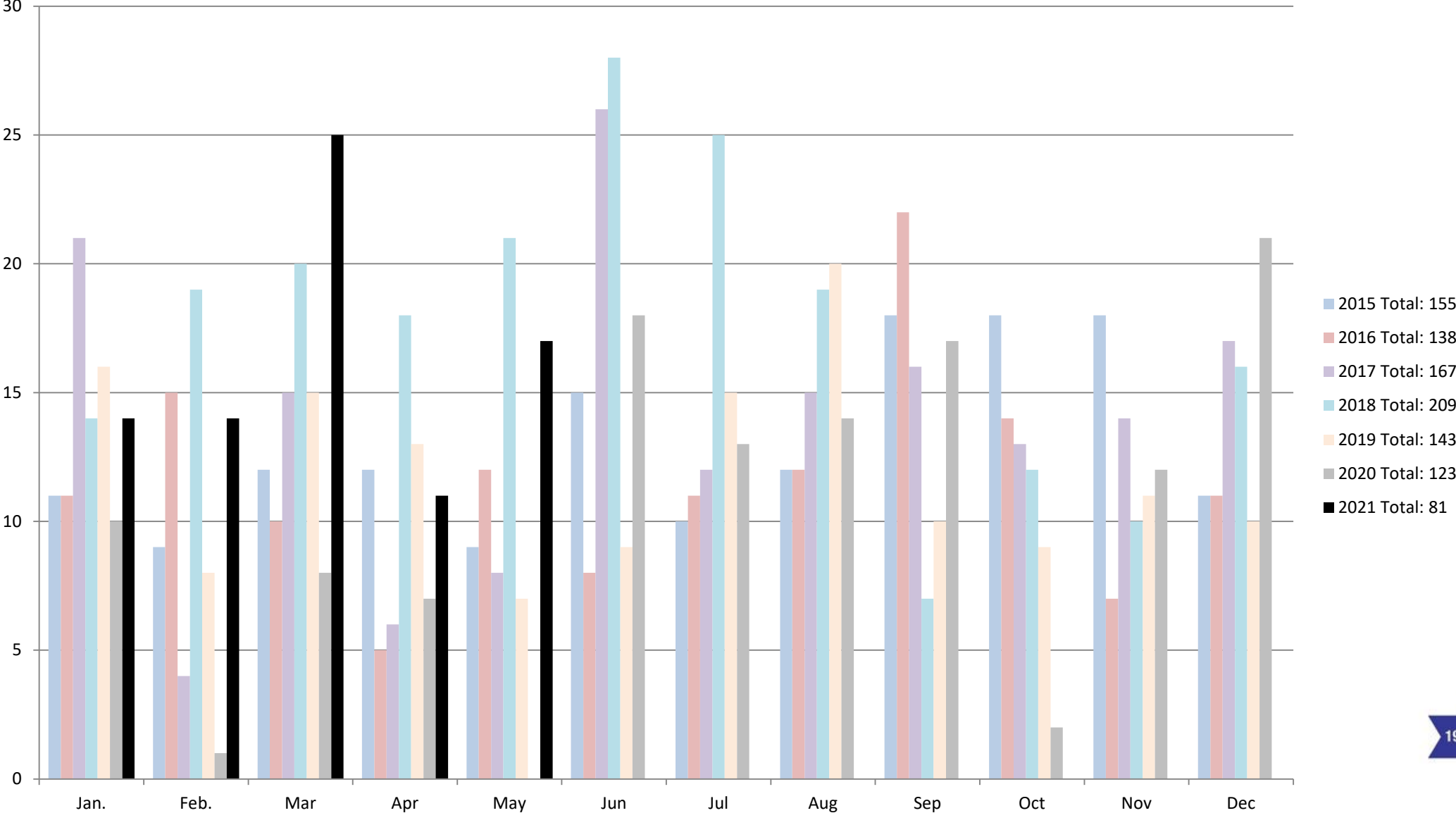
New Raw Water Sales in Miners Inches



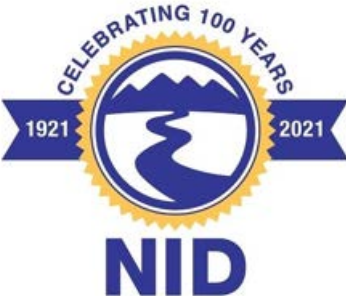
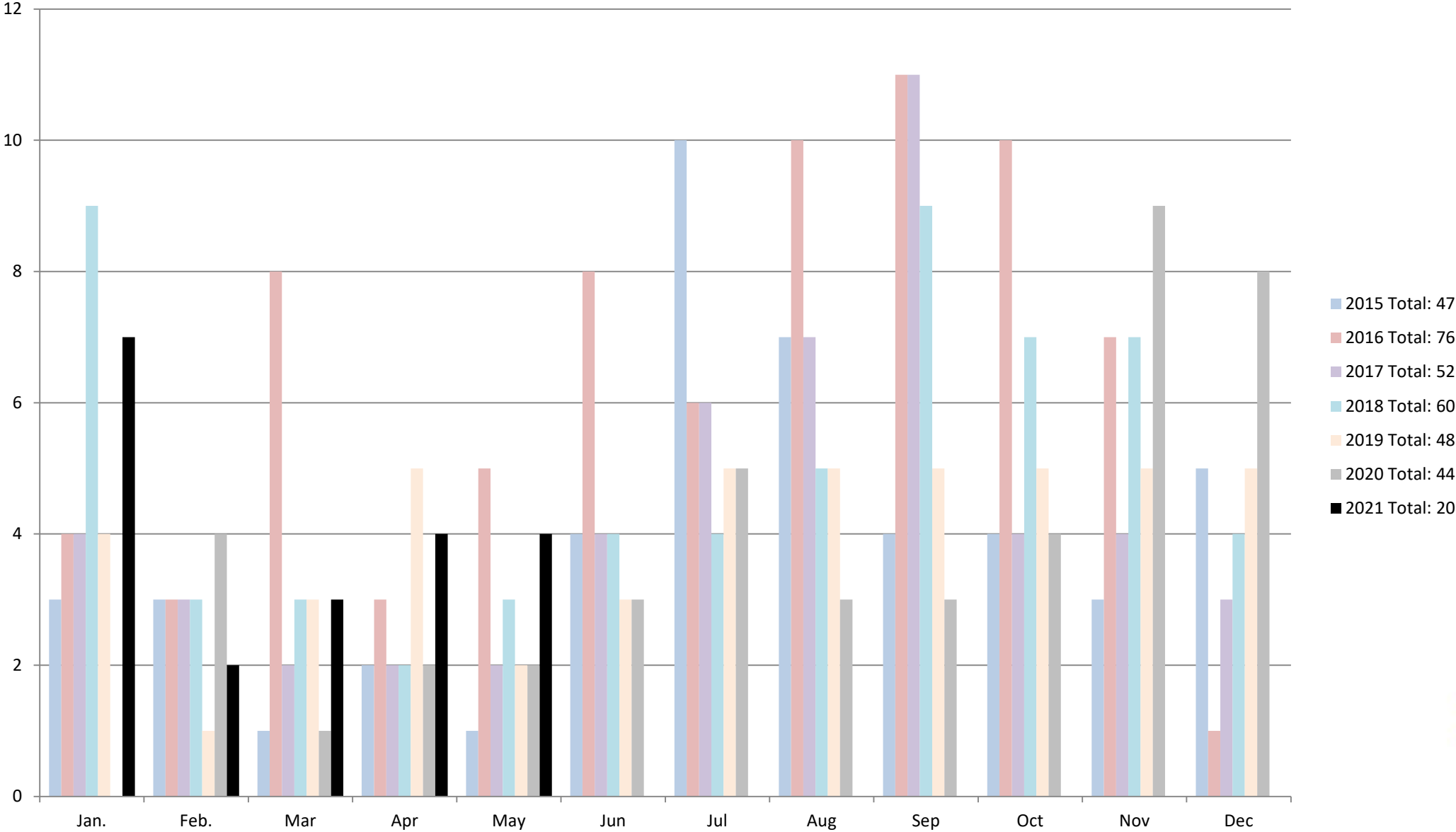
Raw Water Sales Changes Miners Inches



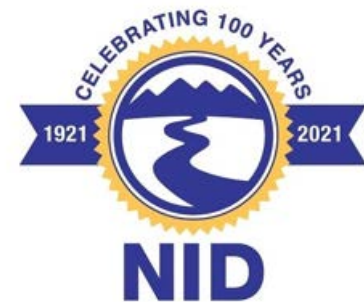
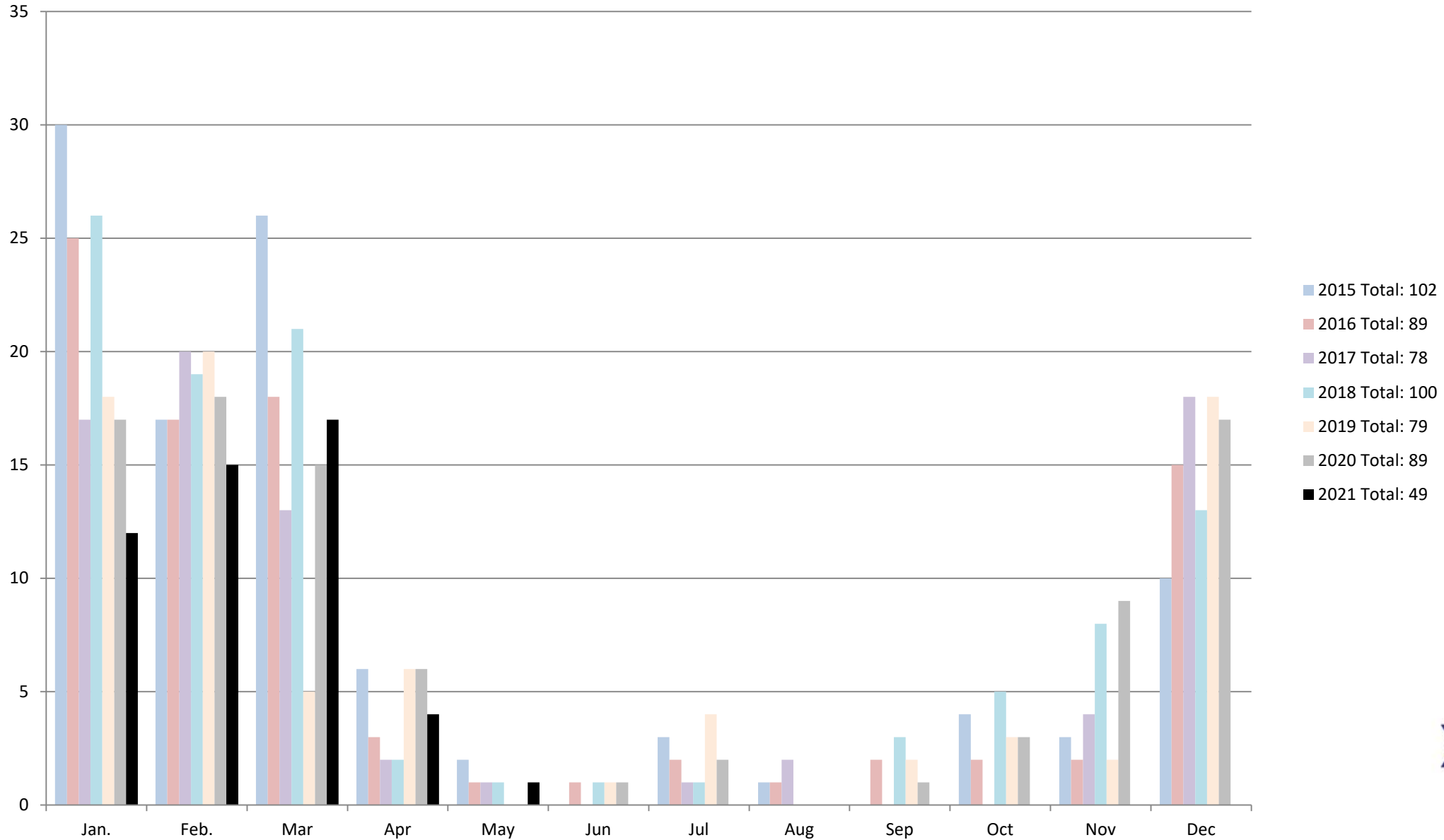
Scheduled Treated Water Outages



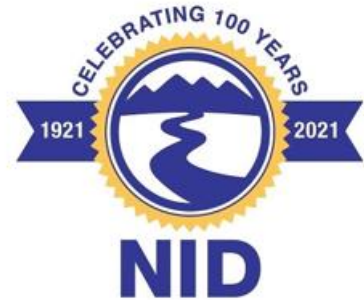
Emergency Treated Water Outages



Scheduled Raw Water Outages



Maintenance Department



Activities Report

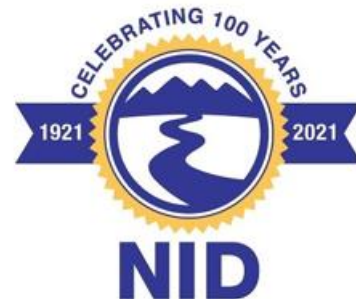
May 17, 2021 – June 13, 2021

Maintenance Department Activities Report

Treated Water

Summary of Select “Routine” Work

CATEGORY / TASK DESCRIPTION	TOTAL #
TREATED WATER	
“EMERGENCY <u>CALL OUTS</u> ” – HYDRANTS / SERVICE LINES / WATER MAINS	1
HYDRANTS – NEW / REPAIRED / REPLACED	3
METERS – NEW / REMOVED / REPAIRED / REPLACED	10
METER REPLACEMENT PROGRAM <i>(starts in April and runs to year-end)</i> <i>Note: Program is on hold, due to meter/parts shortage.</i>	9
SAMPLE STATIONS – NEW / REPAIRED / REPLACED	0
SERVICE LINES – NEW / REPAIRED / REPLACED	10
VALVES / DEVICES – ARV, BOV, DCV, GATE , PRV, RP, ETC.	15
WATER MAINS – REPAIRED / REPLACED	0

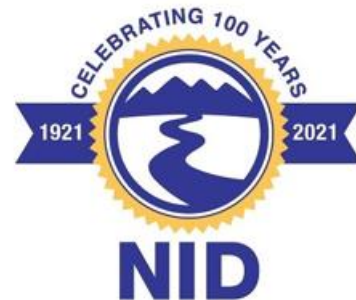


Maintenance Department Activities Report

Raw Water

Summary of Select “Routine” Work

CATEGORY / TASK DESCRIPTION	TOTAL #
RAW WATER	
CANALS / BERMS – LEAKS / REPAIRS	11
CANALS / BERMS – CLEANED <i>(20/21 official “cleaning season” now over until October)</i>	1
CANALS / CONTROL STRUCTURES – INSTALLED / REPAIRED / REPLACED	1
CULVERTS – NEW / REPLACED / REMOVED	0
RAW WATER BOXES – NEW / RELOCATED / REMOVED / REPLACED	11
TREES – REMOVED	4
ACCESS ROADS – MAINTAINED	0

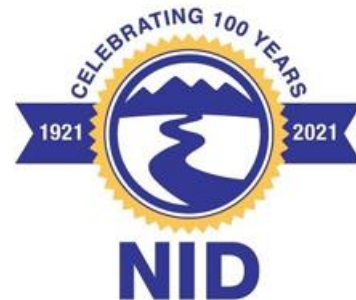


Maintenance Department Activities Report

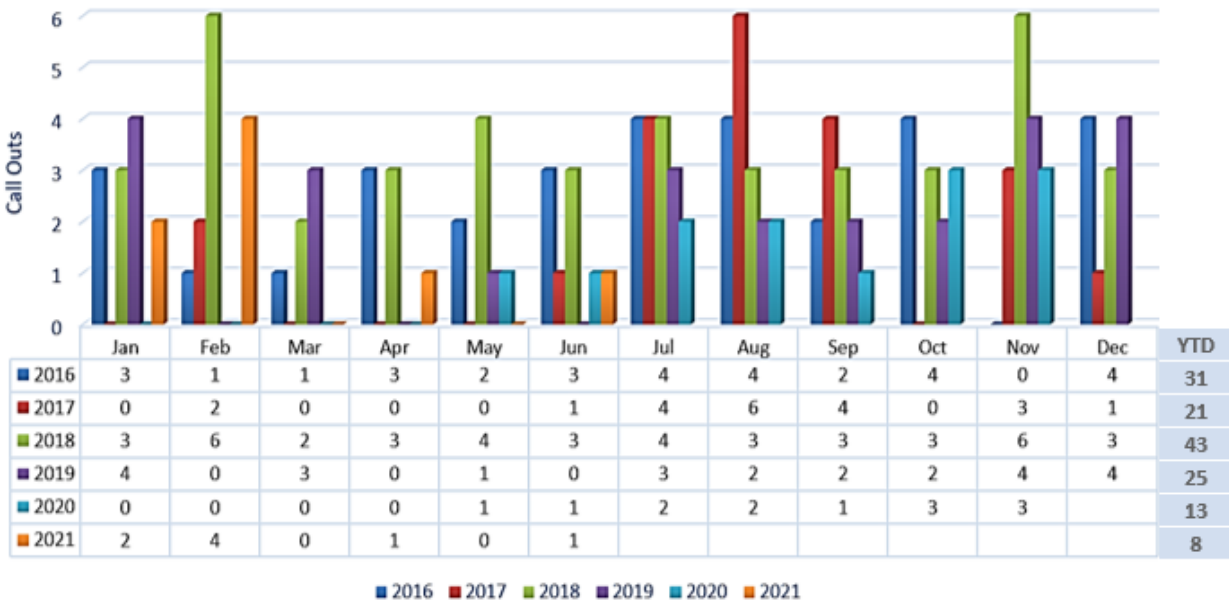
Fleet

Summary of Select “Routine” Work

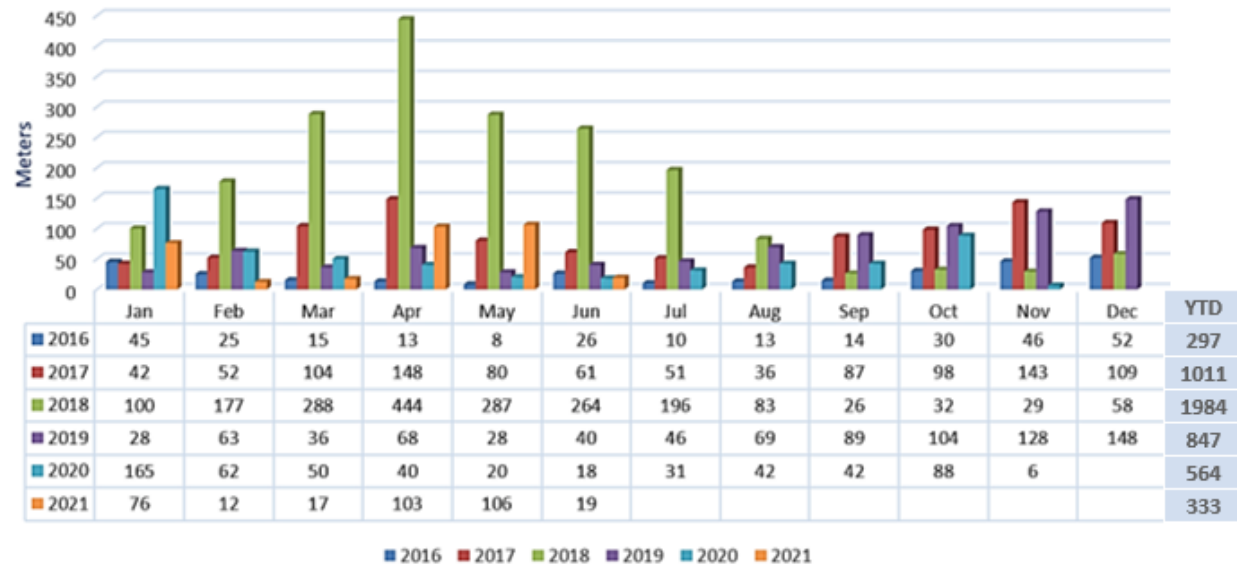
CATEGORY / TASK DESCRIPTION	TOTAL #
FLEET	
TRUCKS / VEHICLES – SERVICE / PREVENTATIVE MAINTENANCE	44
TRUCKS / VEHICLES – DAMAGE REPAIRS / LARGE SCALE REPAIRS	4
TRUCKS / VEHICLES – B.I.T. INSPECTIONS	26
TRUCKS / VEHICLES – RETROFITS	1
EQUIPMENT – SERVICE / PREVENTATIVE MAINTENANCE	15
EQUIPMENT – DAMAGE REPAIRS	0
EQUIPMENT – RETROFITS	1



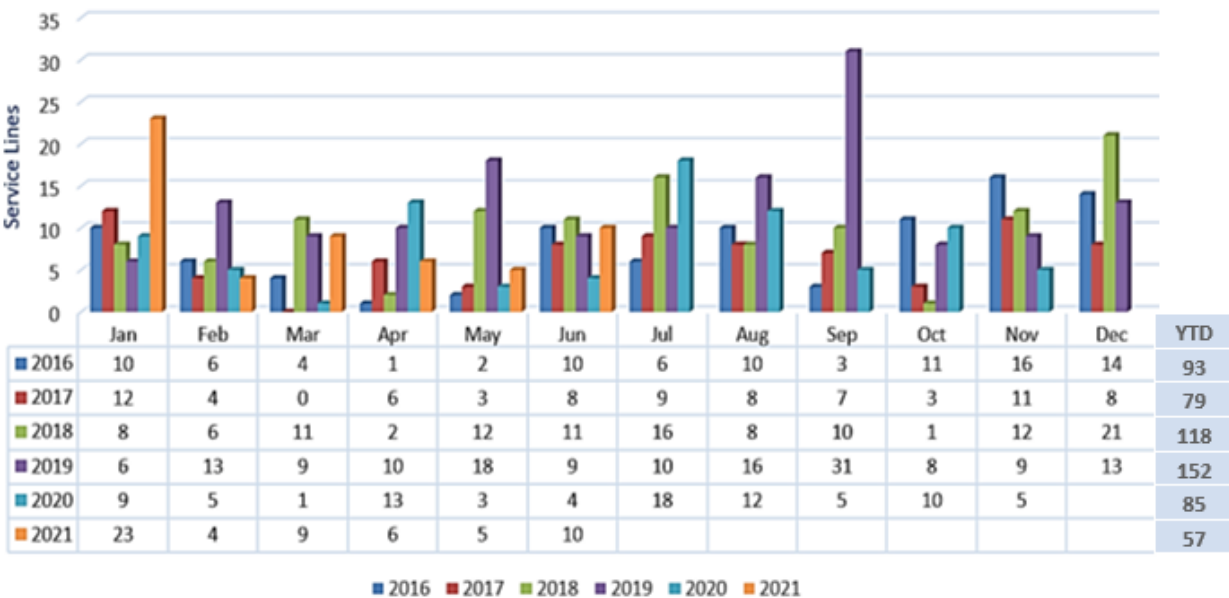
Emergency "Call Outs"



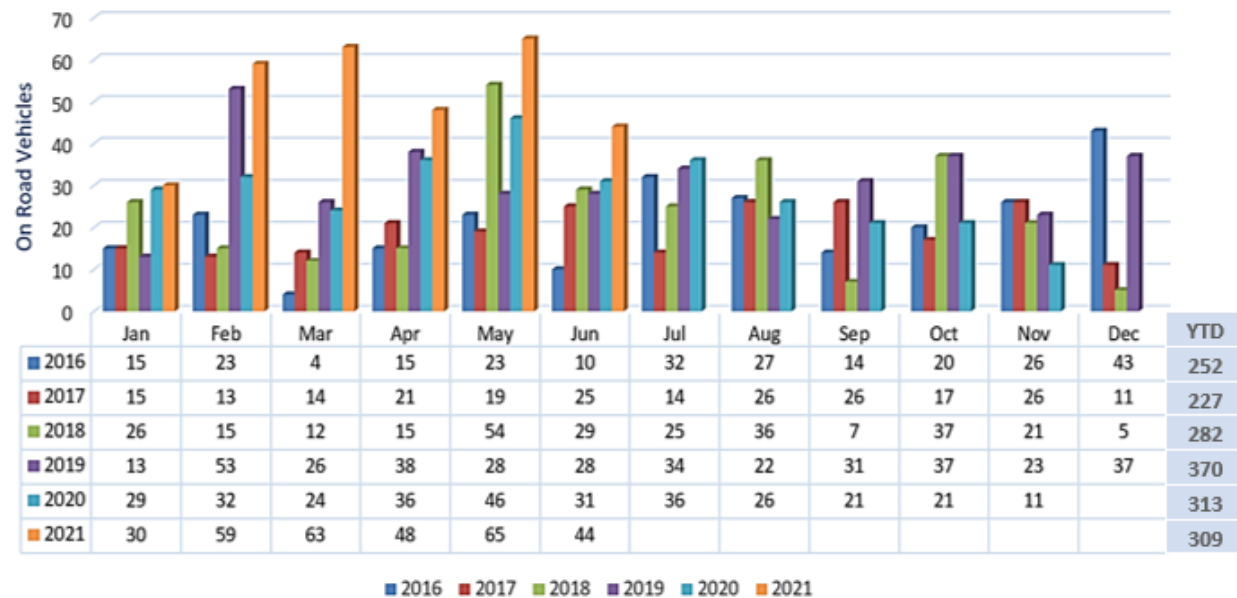
Meters - New / Removed / Repaired / Replaced (includes Meter Replacement Program)



Service Lines - New / Repaired / Replaced



On-Road Vehicles - Service / Repairs



Maintenance Department Activities Report

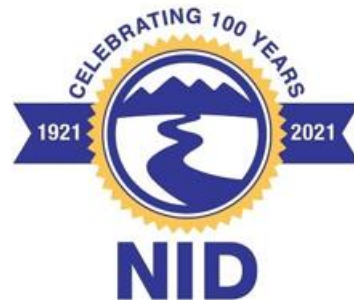
Select “Non-Routine” Work

Canal Maintenance

- Church Siphon (B Canal) – Brushed; finished building road; realigned fence; armored siphon outlet structure; enhanced approach at Lime Kiln Road for safer access; improved access to inlet structure (impassable in wet conditions)
- Repaired fence/gate on Sanford Struckman Canal
- Replaced multiple gate valves on raw water services
- Unplugged/flushed Kenwood Siphon (Forest Springs Canal)
- Assisted South Yuba Canal Crew on concrete pour for electrical pad; moved equipment; chipped vegetation

Construction

- Emergency Call Out (Sunday, June 13) – Repaired 4-inch AC main line on Vintage Way (Loma Rica System)
- Berggren Lane Pipeline Replacement (FATR #2370) – Performed potholing and staging of materials and parts (4% complete)



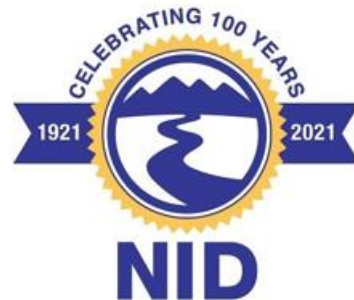
Select “Non-Routine” Work

Construction (cont'd)

- Ridge Road Pipeline Replacement Project (FATR #2255-5a) – Waiting for parts (85% complete)
- Osborne Hill Tank Site – Installed 3 sensing/sample lines
- Lake of the Pines Treatment Plant – Graded dirt; reshaped drainages and drop inlets
- North Auburn Treatment Plant – Cleaned lower drying ponds; added sand, per filtration specifications

Facilities Maintenance

- E. George Treatment Plant – Painted alum and caustic tanks; resided and painted entire control building; replaced 2 windows; replaced 1 door and card reader; filled sink hole at raw water influent feed
- E. George Treatment Plant – Repaired spalling concrete at filter gallery
- Grass Valley Main Yard – Installed mulch in front yard planter areas
- Lake of the Pines Treatment Plant – Repaired concrete leak in clarifier tank #1
- Pleasant Valley Pump Site – Replaced double entry gate; added on to existing culvert to widen driveway access for emergency generator and crane truck



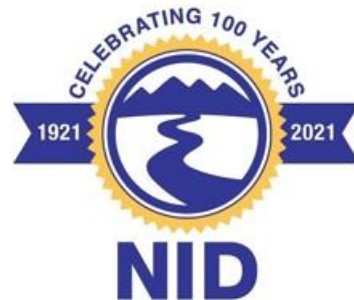
Select “Non-Routine” Work

Fleet Maintenance

- Major Repairs – D/S Pump Station: Removed/disassembled defective clutch assembly for vendor to repair; began assembling drive plate to new clutch; with Welders assistance, built lifting device to raise new clutch into position
- Overtime Service Call – Pulled stranded NID truck out of private driveway for tow truck
- Other Service Calls – Hydroelectric Department to replaced forklift hydraulic hoses; Auburn job site to repair electrical problem on Loader; Auburn job site to replace joystick control on Track Loader; Scotts Flat to service and repair hydraulic leak on Backhoe; Placer Yard to replace batteries in Semi-Truck

Placer

- Performed final “patch paving” over 7 road areas with Lake of the Pines that were excavated for needed infrastructure repairs/installations
- Leveled Canal Berms – Hayt, Stringham, Thomas, Valley View (± 15 miles total)
- Repaired and/or Narrowed Canals – Doty North (± 500 feet), Gold Hill II ($\pm 1,000$ feet)
- Unplugged/Flushed Raw Water Services – Livingston Canal
- Santini Siphon #1 Replacement (FATR #1098) – Prepared site for pipe and material storage



Select “Non-Routine” Work

Service

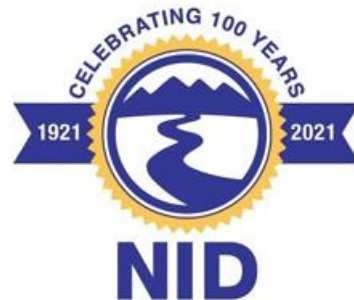
- Emergency – Banded lines on Pelton Way (E. George System) and Cottage Drive (North Auburn System) until outages can be scheduled for permanent repairs/replacements
- Continued 2021 “Meter Replacement Program,” changing out 9 large commercial meters (FATR #2428)

South Yuba Canal / Bear Valley Site/Yard

- Installed ground rods and 4/0 bare copper wire for grounding in Tesco slab for electrical meter and service box enclosure
- Installed six 3” conduit lines for future building site sweep into slab; pulled mandrel through conduits; passed inspection with PG&E
- Installed 2 snow gates and latch posts outside of existing chain link fence
- Poured 12’ x 12’ pad and installed Tesco panel
- Fell large sugar pine tree and chipped all brush; bucked and stacked logs

Vegetation Control

- Aquatic Herbicide Applications – Treated ±490 miles of canal, while working with Operations Department to keep water flowing through all canals
- Terrestrial Herbicide Applications – Treated ±75 miles of canal berm/bank



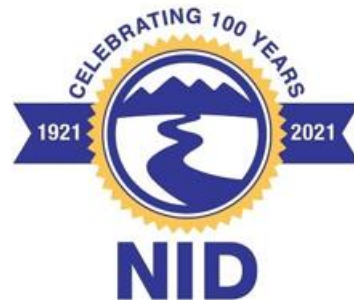
Select “Non-Routine” Work

Vegetation Control (cont'd)

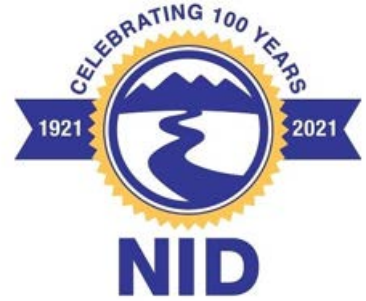
- Worked with Recreation Department to control Scotch broom infestation at Scotts Flat Lake (along access road to and at Lake Tender House); worked with Hydroelectric Department to complete herbicide applications on dams at Jackson Lake, Faucherie Lake and Sawmill Lake
- Cunningham and Sugar Loaf Reservoirs – Goats completed annual vegetation reduction efforts
- Newtown School of the Arts – Performed weed eating along ±1 mile of canal where no herbicides are used; this is done 3 to 4 times annually on school grounds where canals are present

Welders

- Bear Valley Site/Yard – Fabricated and installed two 24’ snow gates
- D.S. Canal – Fabricated trolley system for pump station to remove transmission/bell housing from pump #3
- Edgewood Canal – Fabricated and installed 10’ vault lid for new raw water manifold
- Equipment – Welded new axles on equipment trailer; welded new jack on vacuum trailer; repaired pull-tarp on transfer trailer; fabricated lid and overflow pipe valve for new water truck
- Markwell Canal – Repaired damaged field gate



Recreation Department



Campground Activities Report:
Scotts Flat, Orchard Springs, Long Ravine,
Peninsula, Greenhorn, Combie, Jackson Meadows and
Bowman Corridor

Activities Report

- All campgrounds were full for Memorial Day weekend and no major problems reported.
- Recruitment for summer staff is still quite difficult, staffing levels are low at all campgrounds.
- NID lakes have been inundated with boaters from all over, due low water levels at other lakes. Rollins and Scotts Flat boat launches have been closing by 10:30am or earlier on Saturdays and Sundays.
- Tree work continues at all campgrounds.
- Staff has been working diligently on keeping the campgrounds fire safe, campers are given fire safe handouts, signs are posted throughout the campgrounds and staff is keeping an eye on fire rings.
- The Gold Country Yacht Club held their “Go For The Gold Regatta” June 4-6 at Scotts Flat Lake, it was nice to have them back after not being able to race in 2020 due to COVID-19 restrictions.

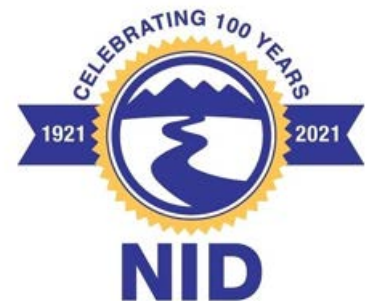
Scotts Flat Campground

Projects in Progress or Completed

- Modified the check-in processes to help with congestion at the gates
- The campground is full every weekend from now through August 6
- The NID’s Electricians rewire the gas dock

Future Projects

- Upgrade the play area



Beauty of the Upper Division Reservoirs

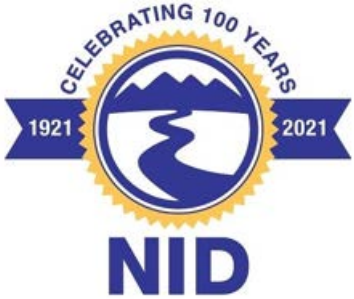
Faucherie Reservoir



Milton Reservoir



Jackson Meadows Reservoir



Orchard Springs Campground

Projects in Progress or Completed

- Repairing the stage area
- Redesigning the boat slip area, to accommodate more boats

Future Projects

- Order picnic tables and umbrellas for the store picnic area
- Install a shade structure over the picnic and play area

Long Ravine Campground

Projects in Progress or Completed

- Added railings and wooden walk strips to the boat slip entry due to steepness

Future Projects

- Add sand to the day use/swim area

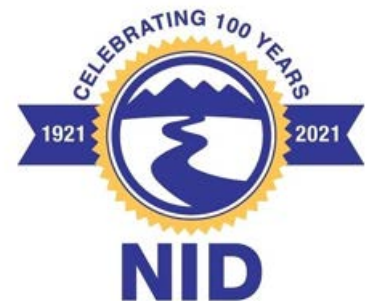
Peninsula Campground

Projects in Progress or Completed

- Finally have enough staff to remain open the whole season
- A few standing dead trees were taken down

Future Projects

- Creating a day-use/swim area



Combie Reservoir

Projects in Progress or Completed

- Dock bills mailed out May 28

Future Projects

- Staff presence on the lake during summer months to help educate on lake/reservoir rules

Greenhorn Campground

Projects in Progress or Completed

- The Liserra's (concessionaires) are struggling with lack of staff

Future Projects

- Continued team approach to issues

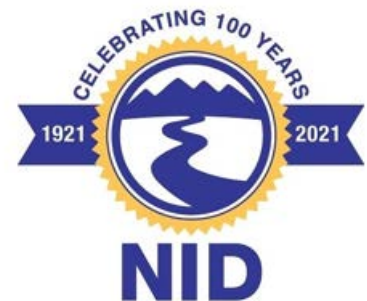
Jackson Meadows Campgrounds and Bowman Corridor Camping

Projects in Progress or Completed

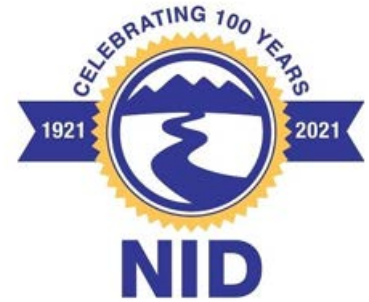
- Major hazard tree work, over 160 trees removed from six campgrounds and two day use areas
- Findley Campground opened June 11
- Woodcamp and Fir Top Campgrounds opened June 18

Future Projects

- Install gates at Aspen and Woodcamp day use areas



Hydroelectric Department



Reports: Generation, Availability & Outage
Inspections: Powerhouses, Dams & Linear Facilities

Generation Report

Powerhouse	Average Generation	Current Generation
Chicago Park	13,214	8469
Dutch Flat #2	10,013	3,578
Rollins	7,677	3,748
Bowman	1,870	1011
Combie North	191	155
Combie South	806	0
Scotts Flat	435	469
Total	34,206	17,430

Report Description:

This report presents the total megawatt-hours (MWh) generated per powerhouse for the previous month. Average Generation is based on the monthly generation from the previous five years.

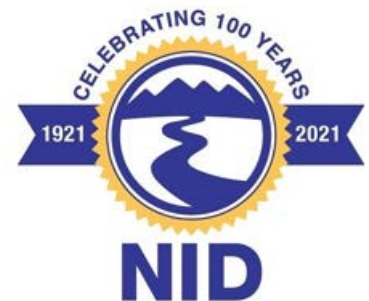
Context:

Powerhouses Combie North, Combie South, and Scotts Flat create revenue based on MWh produced. Powerhouses Chicago Park, Dutch Flat #2, Rollins and Bowman generation is provided for informational purposes.

Discussion:

Generation is well below historic averages due to the dry conditions experienced during the past winter.

Note: Data is preliminary and subject to verification



Availability Report

Powerhouse	Budgeted Availability	Actual Availability
Chicago Park	94.7%	100%
Dutch Flat #2	94.7%	100%
Rollins	95.0%	100%
Bowman	92.0%	99.6%

Report Description:

This report presents the total percentage of time a powerhouse is available to generate during the given month.

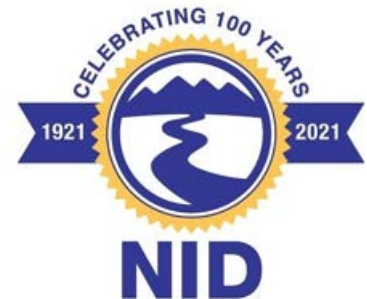
Context:

Powerhouses Chicago Park, Dutch Flat #2, Rollins, and Bowman produce revenue based on the percentage (%) of time the unit is available to generate. Budgeted availability shown was used to develop revenue forecasts. Actual availability shown is based on the hours the powerhouse ran minus any outages that are not excused by the terms of the Power Purchase Agreement (PPA) and is the basis of payment calculation.

Discussion:

All powerhouses were above their budgeted availability for the month. Details of outages are shown on the next slide.

Note: Data is preliminary and subject to verification



Outage Report

Powerhouse	Date and Time Out	Duration (HH:MM)	Cause
Bowman	5/15/2021 12:34	2:21	60 kV Line Relay
Scotts Flat	5/5/2021 13:02	70:39	PG&E Line Work
		73:00	Total

Report Description:

This report presents a list of each time a powerhouse has an outage caused by something other than a lack of water and basic information about the outage.

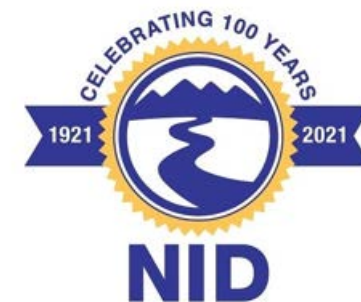
Context:

Minimizing the number of outages and their length is key to maximizing revenue from the powerhouses.

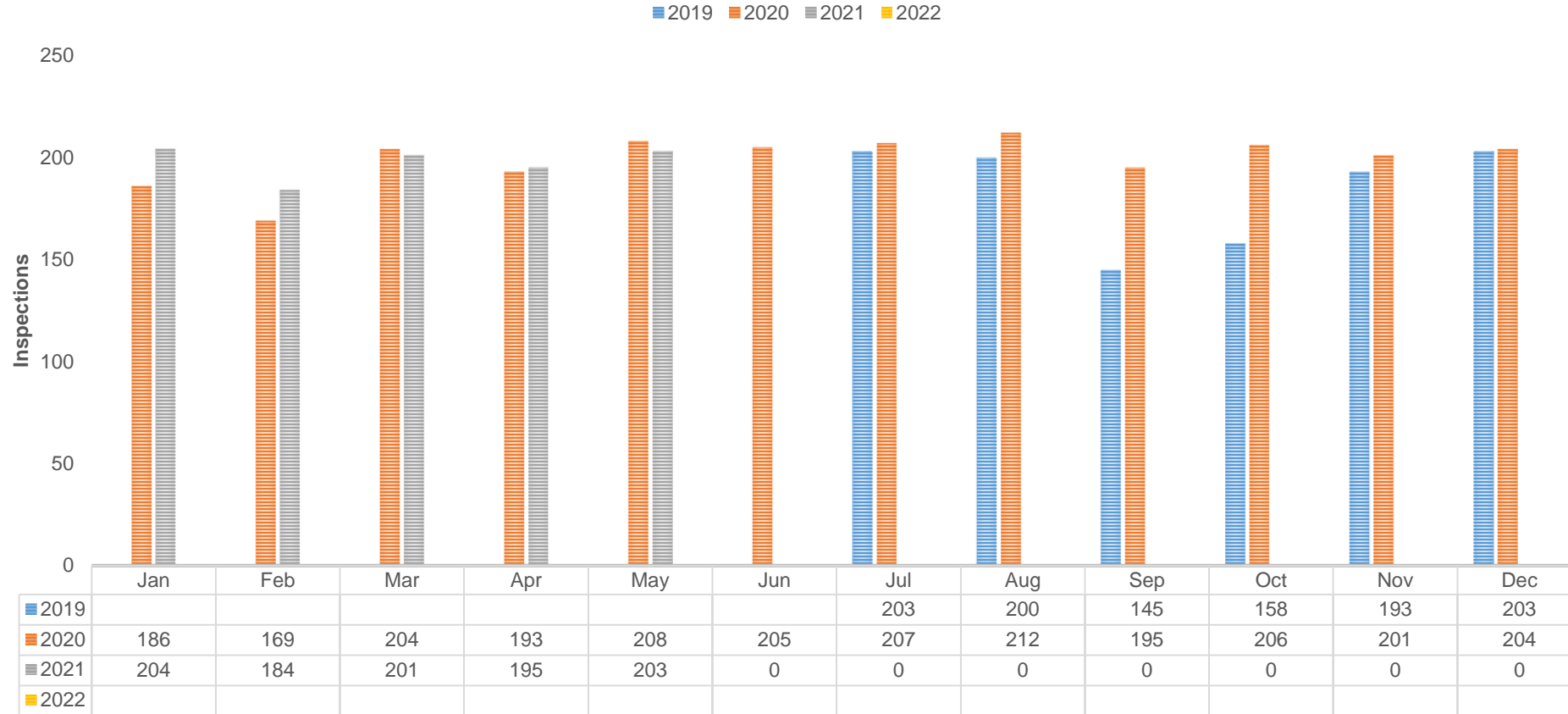
Discussion:

Reliability was exceptionally high in May. PG&E required that the Scotts Flat Powerhouse be offline in order to make improvements to the distribution system.

Note: Data is preliminary and subject to verification



DAILY POWERHOUSE INSPECTIONS



Report Description:

This report presents the total number of powerhouse inspections completed. The total number of inspections possible is presented below.

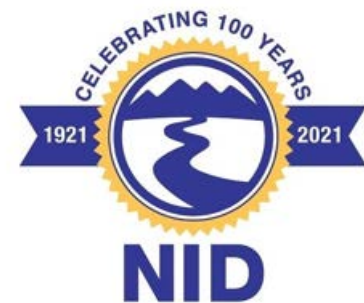
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Possible Inspections	217	196	217	210	217	210	217	217	210	217	210	217

Context

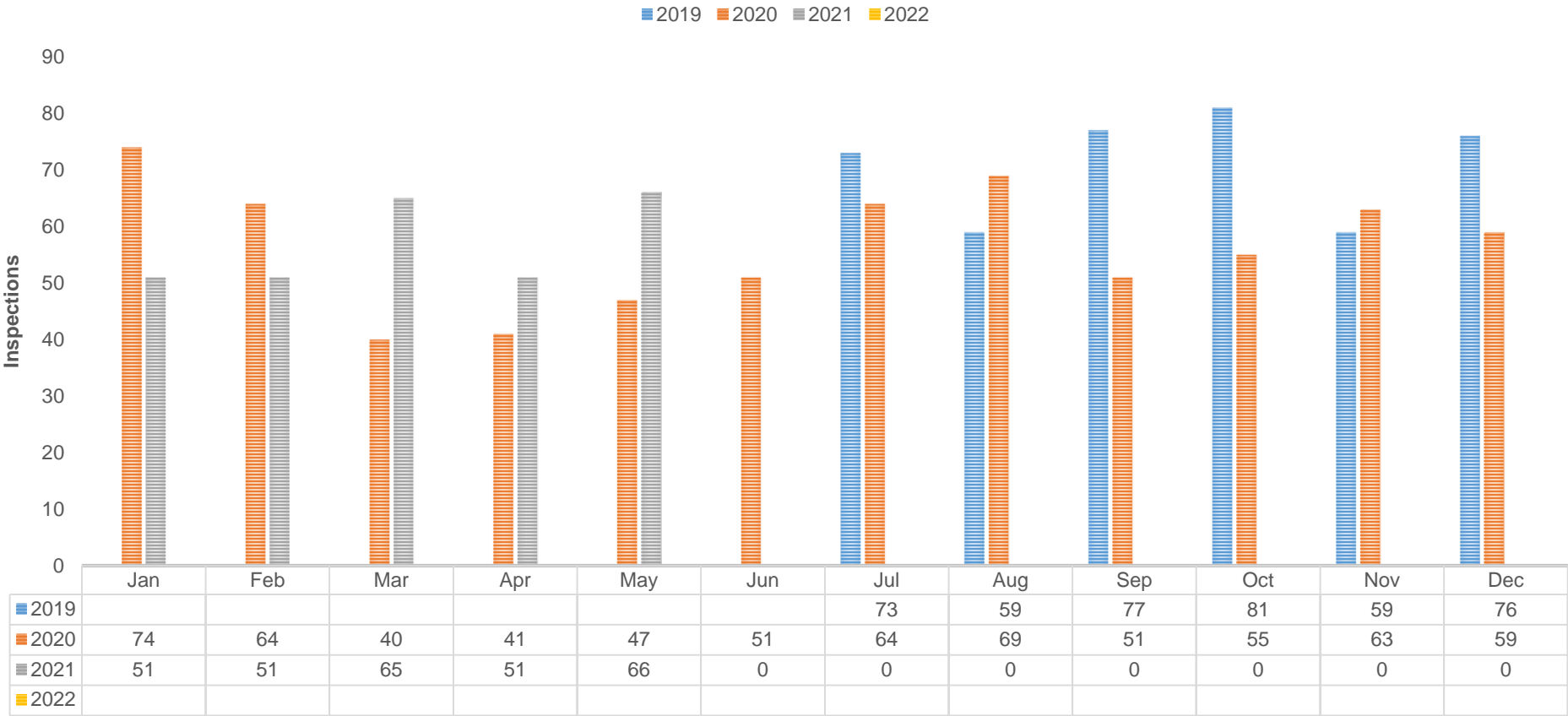
Routine inspection of powerhouses is key to identifying issues that may impact reliability of operations causing reduced generation or availability. The Department’s goal is to visit every powerhouse on a daily basis.

Discussion:

The number of powerhouse inspections is consistent with historic averages.



WEEKLY DAM INSPECTIONS

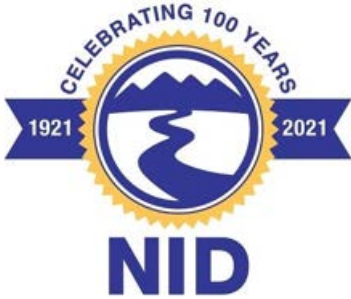


Report Description:

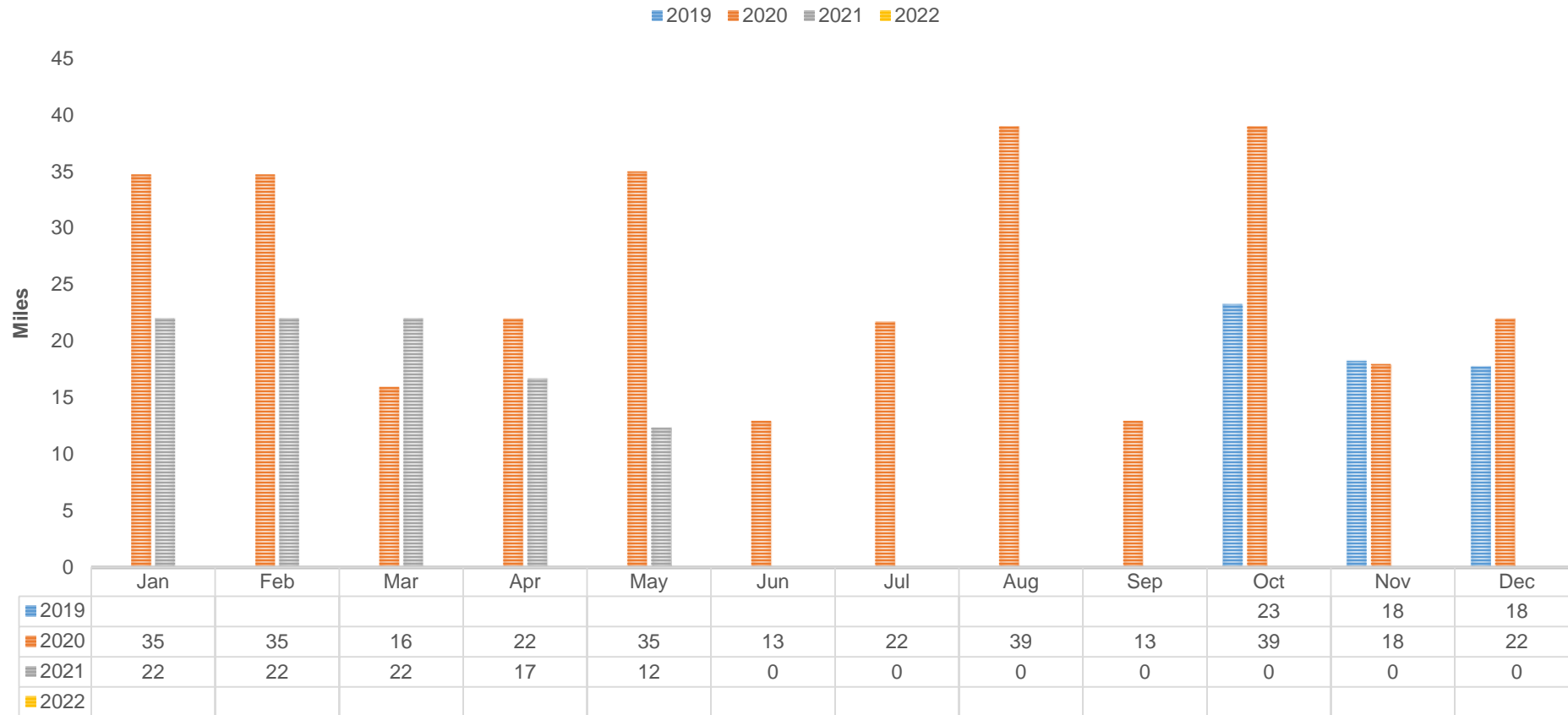
This report presents the total number of dam inspections completed during the prior month. The total number of possible inspections is 84.

Context
 Routine inspection of dams is key to identifying and correcting potential issues. The District’s Owner’s Dam Safety Program specifies that NID Hydroelectric Operations is to “perform safety inspections of District dams on a weekly (visual) and monthly (detailed) basis when weather conditions permit.”

Discussion:
 The number of inspections in May increased year over year because snow is limited in the Upper Division allowing for easier access.



LINEAR FACILITY INSPECTIONS



Report Description:

This report presents the length (miles) of linear facilities inspected at least one time during the previous month. The total length of the facilities considered is 39 miles as shown in the table.

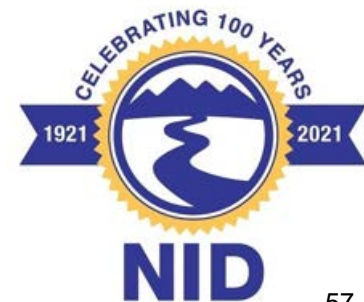
Context

Routine inspection of linear facilities is key to identifying and correcting potential issues. The Department's goal is to inspect all linear facilities at least monthly.

Discussion

The Department has stopped inspecting the South Yuba and Chalk Bluff Canals on a regular basis until the transfer of those canals to NID is closer in time.

Linear Facilities	Miles Per Facility
Dutch Flat Flume	4.68
Chicago Park Flume	4.1
South Yuba Canal	15.71
Chalk Bluff	3.24
Bowman 60kV Poles	9
Scotts Flat 12kV Poles	0.25
Bowman-Spaulding Canal Lower	3.87
Bowman-Spaulding Canal Middle	2.3
Bowman-Spaulding Canal Upper	1.5
Total Possible Miles each Month	44.65



South Sutter Water District (SSWD) – Hydroelectric Operations Update

- Minor contractual comments were received from SSWD in early June. The contract is currently scheduled for consideration by the NID Board of Directors on July 14, 2021.

