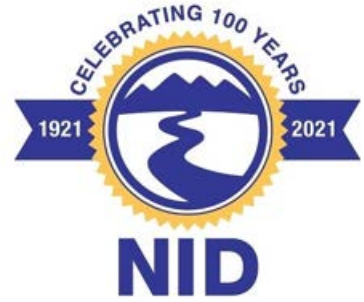


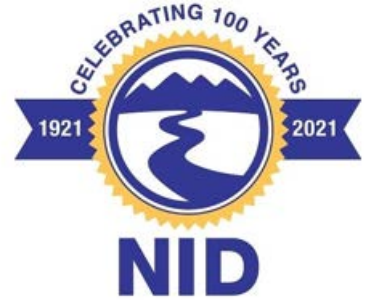
Nevada Irrigation District

Department Updates



Presented to the Board of Directors
July 28, 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

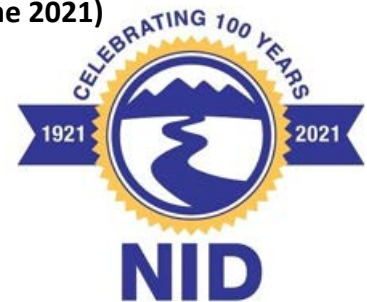
Environmental Resources Program

Program Updates

- **Meadow restoration:** English Meadow Floodplain Restoration Project CEQA completed.
- **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. We have a tree die-off at Orchard Springs Campground and staff are evaluating and developing a removal plan. Significant tree mortality continues to challenge the 2021 budget.
- **Grant administration/contract management:** Contracting, invoicing and reporting ongoing.
- **Regional partnerships/Education:** There are new programs to support fire fuels treatment to reduce catastrophic wildfire risk and increase carbon sequestration through the Climate Forward Program. We will evaluate potential to participate in this program to support our continued forest management activities.
- **Grazing:** Grazing leases updated for District properties. Canyon Creek Grazing Allotment photo monitoring completed for pre-grazing at Shotgun Meadow. (see photo)



Pre-grazing photo-monitoring at Shotgun Meadow (east of Grouse Ridge in the Canyon Creek watershed, June 2021)



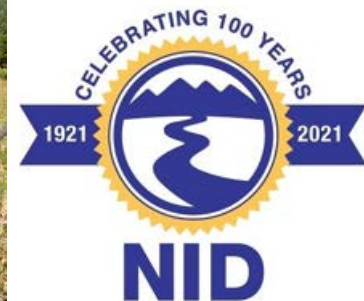
Environmental Resources Program

Program Highlight: English Meadow Floodplain Enhancement and Restoration Project

- The Mitigated Negative Declaration is completed, adopted and filed for a 380-acre project in the Middle Yuba River headwaters.
- Permit applications are underway and materials provided to Wildlife Conservation Board staff in preparation for their 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 update:
 - July 19, 2021: Project partners (Leslie Mink, Plumas Corp) and District staff collected native seeds for revegetation, completed vegetation transects and collected final photo-monitoring for pre-project 2021 conditions. (see photos)
 - Janelle Nolan and Associates are preparing permit applications.



*Photos:
District staff collecting native seed top row; Middle Yuba showing low water conditions July 19, 2021.*



Environmental Resources Program

Grants Update

CAL FIRE CFIP Proposal for Magnolia Rd. Property, Bear River Canyon

- A proposal is being prepared for ~125 acres of additional mastication and handcrew treatment to reduce fire fuels along the ridge between the Bear River canyon and Dark Horse/Lake of the Pines, near Magnolia Rd. This is a cost-share proposal for ~\$220,000 CAL FIRE \$75,000 NID. It will be a two year project to reduce fire fuels and wildfire risk, and to improve forest resilience, and expands an existing fire fuel break we completed in 2020. (see photos)

SNC Fuels Treatment at Scotts Flat Phase 4

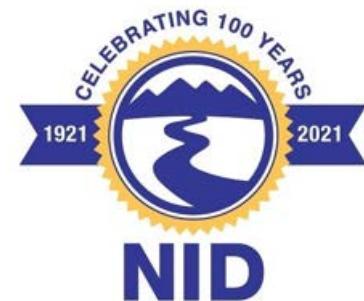
- Project implementation continues: mastication and handcrews to improve forest health and fire resilience on NID properties between Cascade Shores and Deer Creek
- Site visit July 20, 2021: CDFW Lake and Streambed Timber Program staff visited site to evaluate permit requirements to access final 70 acre area for treatment
- Grant from the Sierra Nevada Conservancy for \$981,000 at Scotts Flat Reservoir, and project is in final phase
- 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
Magnolia Fuel Break



Post-treatment
same location



Environmental Resources Program

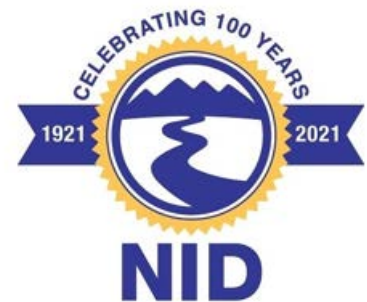
General Watershed and Healthy Forests Program Update

Hazard Tree Removal on District Property

- Hazard trees continue to emerge as drought stress, beetles and tree mortality affect pine trees on District property
- At Scotts Flat and Rollins Reservoirs, oak trees are showing significant signs of disease and rot, which compromises their integrity and prompts removal.
- Our multi-year drought (~20 yrs.) and warming temperatures are significantly impacting our region's forests.



Orchard Springs Campground pine die-off during June 2021, Rollins Reservoir



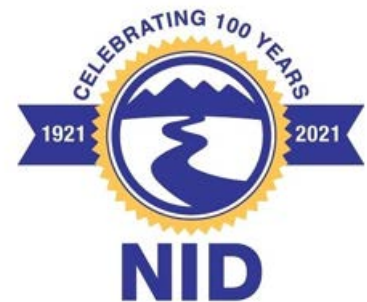
Safety

Site Visits

- Hydroelectric Department: Bowman Dam inspection, repair spaulding on the dam
- Maintenance Department: Emergency outage at Banner Lava Cap Road bridge deck, two days of confined space entry
- Maintenance Department: Installation of a gate, all hand digging, went out to check on heat exhaustion and shading for employees.
- Placer Maintenance Department: Installation of a new hydrant off of Dry Creek Road

Training Classes

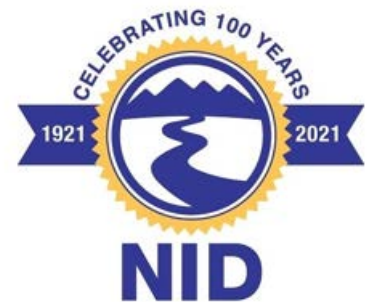
- Management: New orientation for General Manager
- Maintenance Department: New temp orientation for one utility worker
- Placer Maintenance Department: Cyber security
- Engineering Department: New temp orientation for Intern
- Central Files Department: New temp orientation for helping out department
- Electrical Department: ARC flash PPE gear
- Hydroelectric Department: Temp orientation for Bowman House caretaker
- Hydroelectric Department: New temp orientation for Intern
- Recreation Department: New temp orientation for 3 temporary employees



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.
- Risk and alliance assessment meeting with water treatment department
- 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.

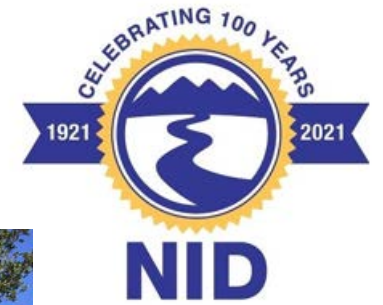


Safety

Pictures

Lime Kiln Road

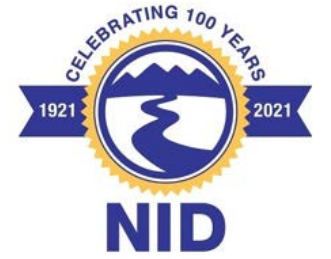
New gate installation - Safety check on heat conditions and signage for trucks entering and exiting area



Safety

Pictures

Dry Creek Road
New hydrant installation

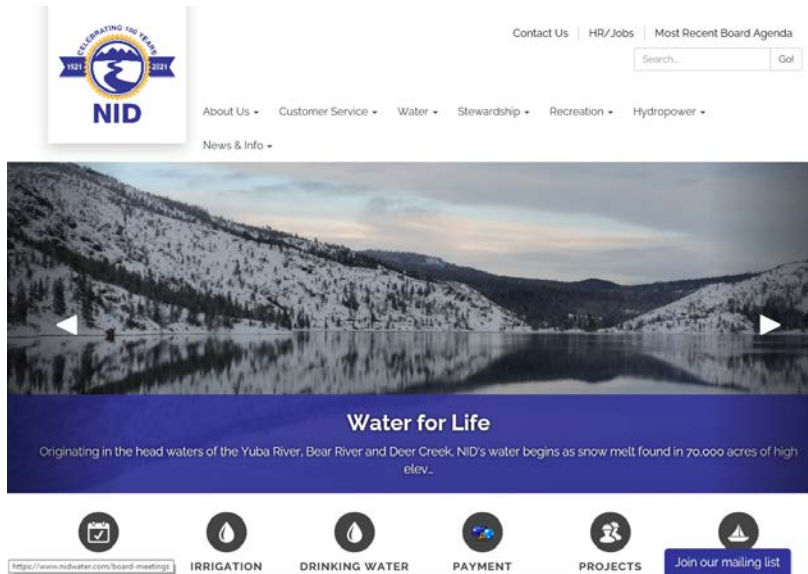


Communications

Website

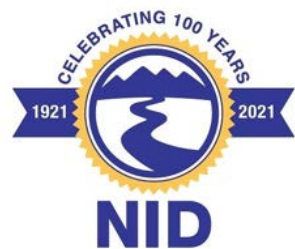
Stats for June

Visits: 31,625



Top 10 pages for the past month

1. / main page
2. /welcome-to-human-resources
3. /current-job-openings
4. /river-reservoir-data
5. /rollins-lake
6. /scotts-flat-lake
7. /customer-service-and-payment-information
8. /board-meetings
9. /news-releases
10. /contact-us



Communications

Top 5 videos on YouTube

Social Media


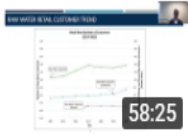



YouTube

- 342 views
- 60 subscribers (up 4)
- 53.6 viewing hours

Facebook

- 660 followers (up 12)
- 6467 people reached
- 607 page likes

*stats for June

<input type="checkbox"/> Video	Visibility	Restrictions	Date ↓	Views	Comments
<input type="checkbox"/>  <p>20210623 uwmp comments Add description 19:33</p>	🔒 Private	None	Jun 29, 2021 Uploaded	1	0
<input type="checkbox"/>  <p>June 24, 2021 Special Board Meeting June 24, 2021 - Urban Water Management Plan Workshop 00:00:49 Public Comment on Items no... 58:25</p>	🟢 Public	None	Jun 25, 2021 Published	28	0
<input type="checkbox"/>  <p>June 23, 2021 Board Meeting June 23, 2021 - Board of Directors Regular Meeting 00:00:07 Pledge of Allegiance 00:00:43... 4:34:18</p>	🟢 Public	None	Jun 24, 2021 Published	129	0
<input type="checkbox"/>  <p>June 09, 2021 Board Meeting June 09, 2021 - Board of Directors Regular Meeting 00:00:09 Pledge of Allegiance 00:02:12... 2:42:53</p>	🟢 Public	None	Jun 9, 2021 Published	40	0
<input type="checkbox"/>  <p>June 3, 2021 - Water Rates Committee Meeting June 3, 2021 - Regular Water Rates Committee Meeting 00:00:00 Item 1- Rate Schedules not... 1:50:10</p>	🟢 Public	None	Jun 3, 2021 Published	12	0

Communications

Published stories June

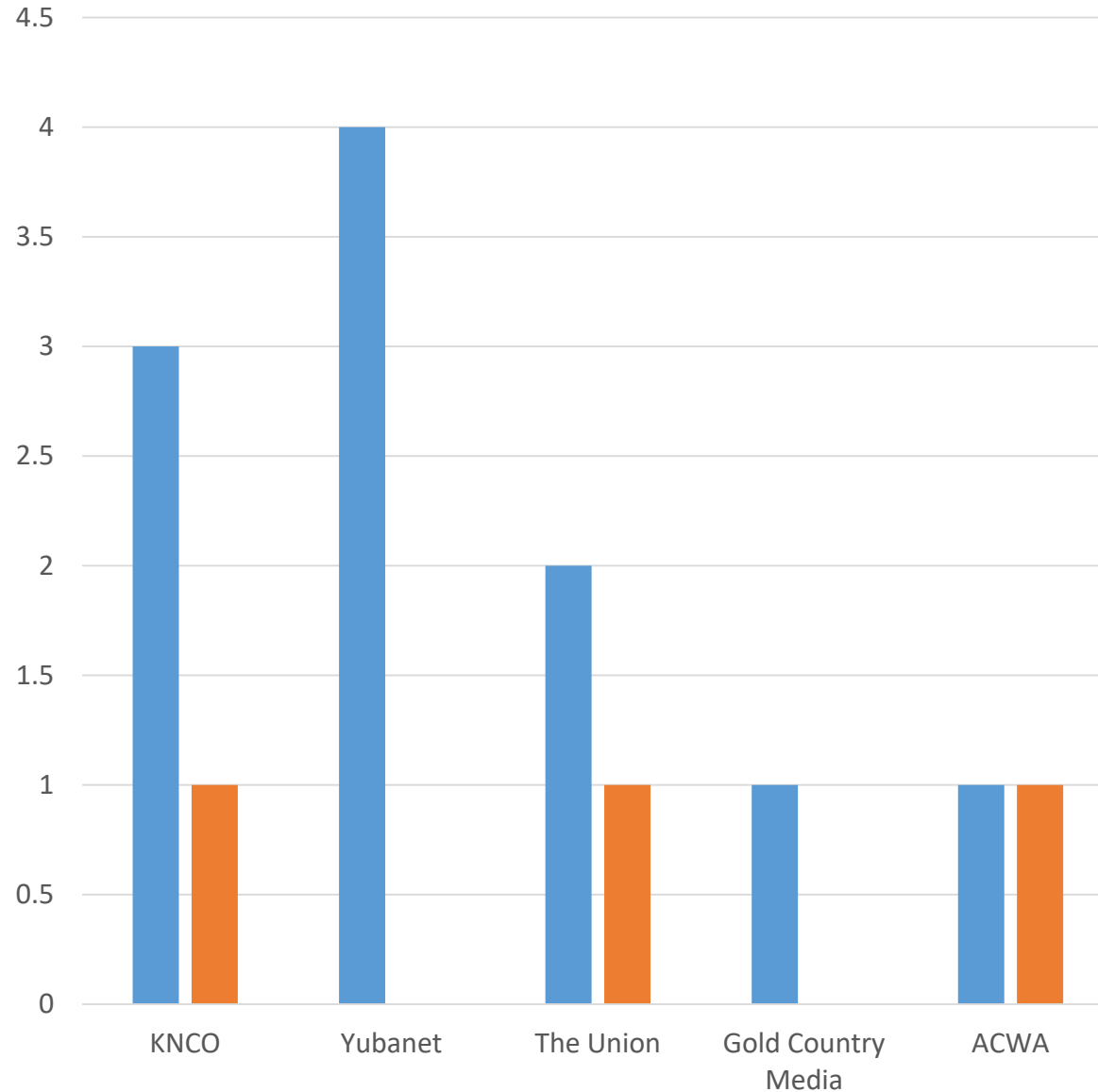
News Releases = 4

Other Original Stories = 3

Coverage:

- Yubanet
- KNCO
- The Union
- Gold County Media
- Association of California Water

Agencies



Communications

Engage

Email direct communications

Total subscribers: 5,748 (167 new)

June 1 – June 30 Topics:

- Board Meetings
- Urban Water Mgmt Plan
- English Meadows Enhancement
- NID restricts Campfires
- Drought Information

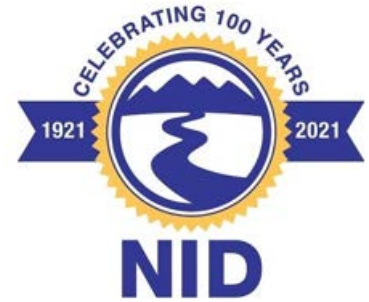
Example Campaign Insights

Campaign Details ✕

Email	2021 Drought Information
List	News and Alerts
Sent To	4,438 Recipients
Sent At	6/23/2021 1:57 PM
	Refresh Stats

Delivered To	Unique Opens	Unique Clicks	Unsubscribes	Bounces	Complaints
4,343	2,470	183	12	4	0
97.9%	56.9%	4.2%	0.3%	0.1%	0.0%

Engineering Department



Project Highlights

Engineering Project Status Report

Hydroelectric Project Status Report

**ENGINEERING DEPARTMENT PROJECT STATUS
AS OF JULY 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.
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.	Design	Survey complete. Design in process.
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	Maintenance has started construction. Anticipate completion by November 2021.
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%. Will work with property owner to obtain necessary easement.
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 JULY 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	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 has been reviewed. Bringing to Board at the August 2021 Board Meeting.
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	Pre-Construction	Design completed. Plans given to Maintenance Dept for construction.
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	Project complete. Final walkthrough and punchlist items completed. 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 in August or early September, 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. Six 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	FEIR available on the website. Public Hearing and project consideration scheduled for 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,	Planning	2021 budgeted project. Currently 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 Fall-Winter 2021.

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

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments
07 - NON-PROGRAMMATIC [2,200,000] 10151-52915							
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.
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.	Planning	Proposals received from EFI Solutions and DPX on July 2, 2021. EFI Solutions was the lowest bidder for the prefabricated pump station. Anticipate bringing contract to the Board in August 2021.
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 September 22, 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	Board approved funding agreements at the July 14, 2021 BOD Meeting. Request for bids will go out to contractors. Easement acquisitions from six (6) property owners on Lee Lane portion of project completed.
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	Completed	UWMP approved and resolution adopted by Board at the July 14, 2021 Board Meeting.. Will be removed from future project status reports.
02	GREG JONES	N/A	District Wide Plan for Water	1041	Plan for Water / EIR	Planning	Anticipated 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	Project on hold until further notice.
02	DOUGLAS HOBBS	N/A	Ramp Repairs	2504	Repair the access ramp leading to the Admin entrance at the main office.	Planning	Finalizing contract with a Structural Engineer to develop plans for submittal to the City.

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

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments
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. Will be brought forward as part of the Plan for Water process.
02	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
03	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 for the cost and benefit analysis, to determine feasibility of removing sediment from this portion of the Rollins Reservoir.
04	ADRIAN SCHNEIDER	DIV 3	Orr Creek Reservoir Cleaning	6963	Removal accumulated sediment from the Greenhorn Creek arm	Hold	Pending final Reservoir Sediment Removal Study for the cost and benefit analysis, to determine feasibility of removing sediment from this Reservoir.
05	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 for the cost and benefit analysis, to determine feasibility of removing sediment from this Reservoir.
06	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 for the cost and benefit analysis, to determine feasibility of removing sediment from this portion of the Rollins Reservoir.
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	Plans have been signed.
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, 3-inch domestic service, and 1.5-inch landscape	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, 3-inch domestic service, and 1.5-inch landscape	Plan-Check	Developer's Engineer sizing meters to finalize design
07	ADRIAN SCHNEIDER	DIV 1	Chapa De Indian Health Admin Bldg	2582	8-inch PFS Installation	Plan-Check	Plans routed for comments

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

Priority	Project Manager	DIV	Facility	FATR	Description	Status	Comments
DEVELOPER WATERLINE EXTENSIONS							
01	TONIA TABUCCHI HERRERA	DIV 4	Timberline Phase 2	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	Plan-Check	Plans routed for comments. Contractor has potholed existing utilities. Has proposed change to the approved plan.
			Timberline Dewitt Sewer Line Conflict		Increase of sewer line size impacts District waterline – Developer relocating a section at Joeger and Meadow Glenn -	Construction	Relocation of sewer line on Joeger and Meadow Glen ongoing
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. Conflicts found with potholing, revisions made by developer's engineer, reviewed by ND.
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 1,306 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 July 12, 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	Design review complete and plans have been signed.
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 tie-in. Anticipated September 2021.

**HYDROELECTRIC DEPARTMENT PROJECT STATUS REPORT
AS OF JULY 7, 2021**

Priority	Project Manager	Facility Name	FATR	Description	Status	Comments
10-1 HYDRO NON-PROGRAMMATIC (\$250,000) 50112-52915						
01	Keane Sommers	Hydro HQ	2432	New Hydroelectric Office Design/Construction	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 IMPROVEMENTS (\$1,925,000) 50112-52920						
01	Nathan Droivold	Chicago Park Powerhouse	2402	Chicago Park Powerhouse Instrumentation Upgrade. 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	Rollins Powerhouse	2351	Rollins Powerhouse Oil Circuit Breaker Replacement. Replace the existing oil circuit breaker (OCB) at the Rollins PH with a more environmentally acceptable vacuum circuit breaker.	Design	Hydro is reviewing a new drawing package and bill of materials for breaker interconnection to Rollins PH. Breaker is in manufacturing until August. Installation is planned for Q3 2021.
03	Nathan Droivold	Rollins Powerhouse	2393	Rollins Powerhouse Balance of Plant. 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 complete. Procurement is underway. Installation is scheduled for Q3 2021 during the annual plant outage.
04	Adrian Schneider	Chicago Park Powerhouse	2164	Chicago Park Powerhouse Fire Suppression System Upgrades. 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 valve handle and programming new alarm points into existing SCADA on July 14th. As-builts to be delivered to NID from Contractor. Contractor will return to site to train NID staff to operate the new system on July 15th. New safety procedures are being developed and will be implemented prior to putting the new fire suppression system into service later in 2021.
05	Kaylie Hague	Scotts Flat Powerhouse	2552	SFPH Fire Detection Upgrades: 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 is reviewing the draft basis of design report and 50% design submittal for the new fire detection systems. Design and installation is scheduled to be completed by the end 2021.
06	Kaylie Hague	Combie North Powerhouse	2553	CNPH Fire Detection Upgrades: 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 is reviewing the draft basis of design report and 50% design submittal for the new fire detection systems. Design and installation is scheduled to be completed by the end 2021.

**HYDROELECTRIC DEPARTMENT PROJECT STATUS REPORT
AS OF JULY 7, 2021**

Priority	Project Manager	Facility Name	FATR	Description	Status	Comments
10-2 HYDRO POWERHOUSE IMPROVEMENTS (\$1,925,000) 50112-52920						
07	Kaylie Hague	Combie South Powerhouse	2554	CSPH Fire Detection Upgrades: 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 is reviewing the draft basis of design report and 50% design submittal for the new fire detection systems. Design and installation is scheduled to be completed by the end 2021.
08	Adrian Schneider	Combie Reservoir/Combie South Powerhouse	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	Nathan Droivold	Combie South Powerhouse	2168	Combie South Electrical Upgrades: replace an existing 12kV transformer and associated containment pad.	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	Rollins Powerhouse	2394	Rollins Powerhouse Relay Protection Upgrade. 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	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 established a contract with an engineering consultant to design and detail the interconnection of the new breaker. Design is expected to start in July.
12	Thomas Kluge	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	Deer Creek Powerhouse	2290	Deer Creek Powerhouse Upgrades: Make 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	Chicago Park Powerhouse	2362	Chicago Park Powerhouse Transformer Replacement. 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 a facility inspection. First draft of the condition assessment report has been reviewed by Hydro. The project scope will be developed after reviewing this report in 2021.
15	Nathan Droivold	Chicago Park Powerhouse	2353	Chicago Park Powerhouse Turbine Overhaul. 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 a facility inspection. First draft of the condition assessment report has been reviewed by Hydro. The project scope will be developed after reviewing this report in 2021.

**HYDROELECTRIC DEPARTMENT PROJECT STATUS REPORT
AS OF JULY 7, 2021**

Priority	Project Manager	Facility Name	FATR	Description	Status	Comments
10-2 HYDRO POWERHOUSE IMPROVEMENTS (\$1,925,000) 50112-52920						
16	Nathan Droivold	Rollins Powerhouse	2392	Rollins Governor Replacement. Replace worn governor and appurtenances.	Hold	Hydro to begin project scoping later in 2021. Installation is scheduled for 2022.
17	Nathan Droivold	Dutch Flat #2 Powerhouse	2544	Dutch Flat #2 Powerhouse Cooling Water System Upgrade. 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	Dutch Flat #2 Powerhouse	2240	Dutch Flat #2 Powerhouse Fire Suppression System Upgrades. 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	Bowman Intertie	2354	Bowman Interties SF6 Breaker Replacement. 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	Rollins Powerhouse	2379	Rollins Powerhouse Fire Protection System. 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	Deer Creek Powerhouse	2342	Deer Creek Powerhouse Controls and Automation Upgrades. 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	Deer Creek Powerhouse	2395	Deer Creek Powerhouse Exciter Replacement. Replace exciter and 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	Deer Creek Powerhouse	2343	Deer Creek Powerhouse Generator Breaker Replacement. 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.

**HYDROELECTRIC DEPARTMENT PROJECT STATUS REPORT
AS OF JULY 7, 2021**

Priority	Project Manager	Facility Name	FATR	Description	Status	Comments
10-3 HYDRO DAM & WATER IMPROVEMENTS (\$2,660,000) 50112-52921						
01	Dar Chen	Scotts Flat Spillway	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 indicated capacity concerns which required Hydro to execute an additional task order for further modeling.
02	Adrian Schneider	French Dam	2360/2007	French Dam Upgrades. 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	Three quotes received July 1, 2021. Board to vote on contract award to low bidder July 14, 2021. Construction to start in August 2021.
03	Dar Chen	Bowman North Dam	2359	Bowman North Upstream Lining Repair. Replace damaged sections of the lining on the upstream dam face of the Bowman North and South Dams to minimize leakage through the dams.	Planning	Data collection will start in 2021 to take advantage of low reservoir levels while costs are relatively low.
04	Dar Chen	Combie/Van Giessen Dam	201402	Combie Dam Stabilization. Improve abutment protection against scouring, and water supply upgrades.	Hold	The final alternatives report has been received and a preferred solution has been selected. Construction is planned for 2025-2026.
10-4 HYDRO LOWER DIVISION WATER IMPROVEMENTS (\$100,000) 50112-52922						
01	Nathan Droivold	Chicago Park Forebay/Canal	2511	Chicago Park Forebay/Canal Liner Replacement. 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	Chicago Park Powerhouse	2551	Chicago Park Powerhouse Tailrace Repair: 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	Dutch Flat Canal	2545	Dutch Flat Canal Liner Replacement. 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.

HYDROELECTRIC DEPARTMENT PROJECT STATUS REPORT

AS OF JULY 7, 2021

Priority	Project Manager	Facility Name	FATR	Description	Status	Comments
10-5 HYDRO UPPER DIVISION WATER IMPROVEMENTS (\$300,000) 50112-52923						
01	Doug Roderick	Bowman-Spaulding Canal	2339	Rucker Creek Spill Gate Replacement. Replace existing radial gate at Rucker Creek Diversion with an overshot gate to improve personnel safety and operational performance.	Design	Engineering is working with Hydro to develop specifications for the new gate and a preliminary construction plan. Engineering has contacted gate manufacturer's for quotes and estimate of lead times. Engineering made a site visit during the June annual outage to collect measurements inside of the canal while dry. FERC required review may delay project progress.
02	Phil Nedved	Bowman-Spaulding Canal	2404	Fall Creek Flume Upgrades. Make structural enhancements to improve the reliability of the Fall Creek Flume.	Planning	Hydro has received quotes for the project bill of materials. Hydro made a site visit in June to evaluate the condition of flume hardware to determine what can be reused in future upgrades. Hydro will request an updated material quote based on these findings.
03	Phil Nedved	Fall Creek Diversion	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. Hydro made a site visit in June to evaluate the condition of flume hardware to determine what can be reused in future upgrades. Hydro will request an updated material quote based on these findings.
04	Dar Chen	Bowman-Spaulding Canal	2525	Texas Creek Flume Repairs. 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. Hydro released a bid package in June. A mandatory job walk is scheduled for July 13th. Bids are due on July 20th, and Hydro will request that the NID Board approve the award of a construction contract on July 28th. Construction is planned for Q3 2021.
05	Nathan Droivold	Wilson Creek Diversion	2546	Wilson Creek Diversion Rehabilitation. 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. Coordination with USFS is ongoing. A more permanent solution will be developed for future implementation.
10-6 HYDRO SCADA/COMMUNICATION UPGRADES (\$200,000) 50112-52924						
01	Keane Sommers	Hydro HQ	2405	Hydro Office Radio Tower	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.
05 - RAW WATER SYSTEM IMPROVEMENTS (\$1,250,000) 10151-52910						
09	Dar Chen	Loma Rica Dam	2529	Loma Rica Dam Repairs	Planning	Hydro is developing an alternatives analysis for design with an engineering consultant. Once a preferred alternative is selected, the project will move into the design phase.

Right of Way

Administrative Projects:

- **Red Hill Canal** – Research record title documents and NID history
- **Miller Place** – Perfect ROW for treated waterline installed in 1950's Survey in process, preparing ROW documents
- **Flicker Place** – Perfect ROW for treated waterline installed in 1930's Appraisal in process, Title report and Survey received
- **Rattlesnake Canal** – Research title documents and OPS history
- **Michelle Drive** – Perfect ROW for treated waterline installed in 1993 & new fire hydrant, document signing scheduled
- **Markliff Drive** – Perfect ROW for treated waterline installed in 2007 & relocate meters – ROW documents prepared

Access Road Right of Way Acquisitions:

- **Combie So. Powerhouse** –ROW for 2 parcels, offers pending
- **CPPH** – Ongoing negotiations with property owner
- **Valley View** – Relocating ROW, pending close of escrow

Parcel Map Review:

- **Church Lateral** – ROW Requirements for Offer of Dedication & final approval of Parcel Map.
- **Auburn Ravine Diversion & AR1 Canal** – ROW conditions of approval for proposed parcel split

Other Right of Way Activity:

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

Encroachments

Encroachment Permits:

- 4 Encroachment Permit applications received
- 2 Utility crossing permits with footbridges issued
- **Temporary Encroachment Permits issued to PG&E for:**
 - 3 permits issued for pole replacement
 - 1 permits issued for dead tree removal
 - 1 permits issued for routine tree trimming

Encroachment Violations:

- Issued two violations in Placer County for failing culverts in a County maintained road. Working with County to get them replaced this Winter.
- Working 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, working with property owners to get them replaced

Other Encroachment Activity:

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

Survey

Drafting

Current Activity:

- **CPPH Access Road** – Legal Descriptions & Exhibit Maps for Easements
- **LWW WTP** - Topographic survey of the existing evaporation beds for engineering design of improvements
- **Markliff Drive** - Property boundary and existing waterline as-built surveys for improvements to system and legal descriptions to acquire new easements
- **Banner Mountain Canal Measuring Station:** Topographic survey and property boundary for location and design of new measuring station
- **Snow Mountain Canal Measuring Station:** Topographic survey and property boundary for location and design of new measuring station
- **Slate Creek PRV:** Topographic survey and property boundary for new pressure reducing valve station along Ridge Road.

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, 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

June 7 to July 9

- 15 Water Availability Inquiries
- 3 Water Availability Letters Issued
- 0 Treated Water Meter Variance Approvals
- 0 Temporary Service Location Approval
- 2 Canal Setback Variance Approvals
- County Route responses:
 - 9 Nevada County
 - 2 Placer County
- Fire Flow Letters:
 - 1 Residential
 - 3 Commercial
- 0 Memorandum of Pipeline Reimbursement Costs
- 1 Placer County Annexation in process; 2 Inquiries
- 3 Public Fire Hydrant Requests
- 7 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

Construction Inspectors

PROJECTS CURRENTLY IN CONSTRUCTION

Alta Sierra Tank Site Construction



Placer County Government Center
Mercy Housing

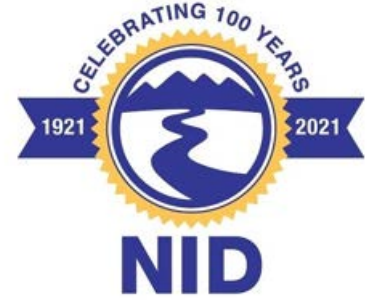


Brunswick
Commons



Timberline Phase II /Dewitt Sewer
Line Conflict – Developer Project

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 to prevent water waste
- Notifications for multiple treated water outages
- Increased customer calls and meetings due to drought concerns
- Daily aquatic weed control program continues

Water Treatment

- June treated water production = 389.9 M.G.
- Lead and Copper testing for Loma Rica and E. George systems due in July
- Lake Wildwood Tank 5 currently under rehabilitation and painting
- Improved water flow supply at Jackson Meadows Woodcamp water system

Electrical

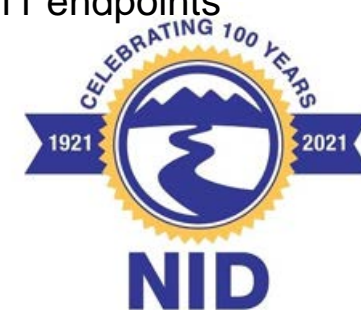
- Installing Transfer Switch at Norlene Pump Station
- Upgraded RV and Bathroom lighting at Orchard Springs
- Installed battery backup at Shale Ridge Tanks
- Installed SCADA at Peninsula Campground

Water Resources

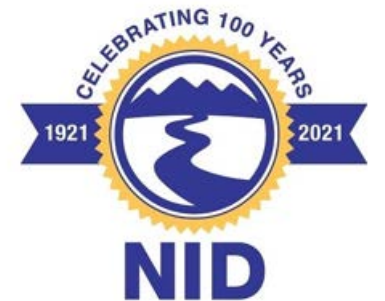
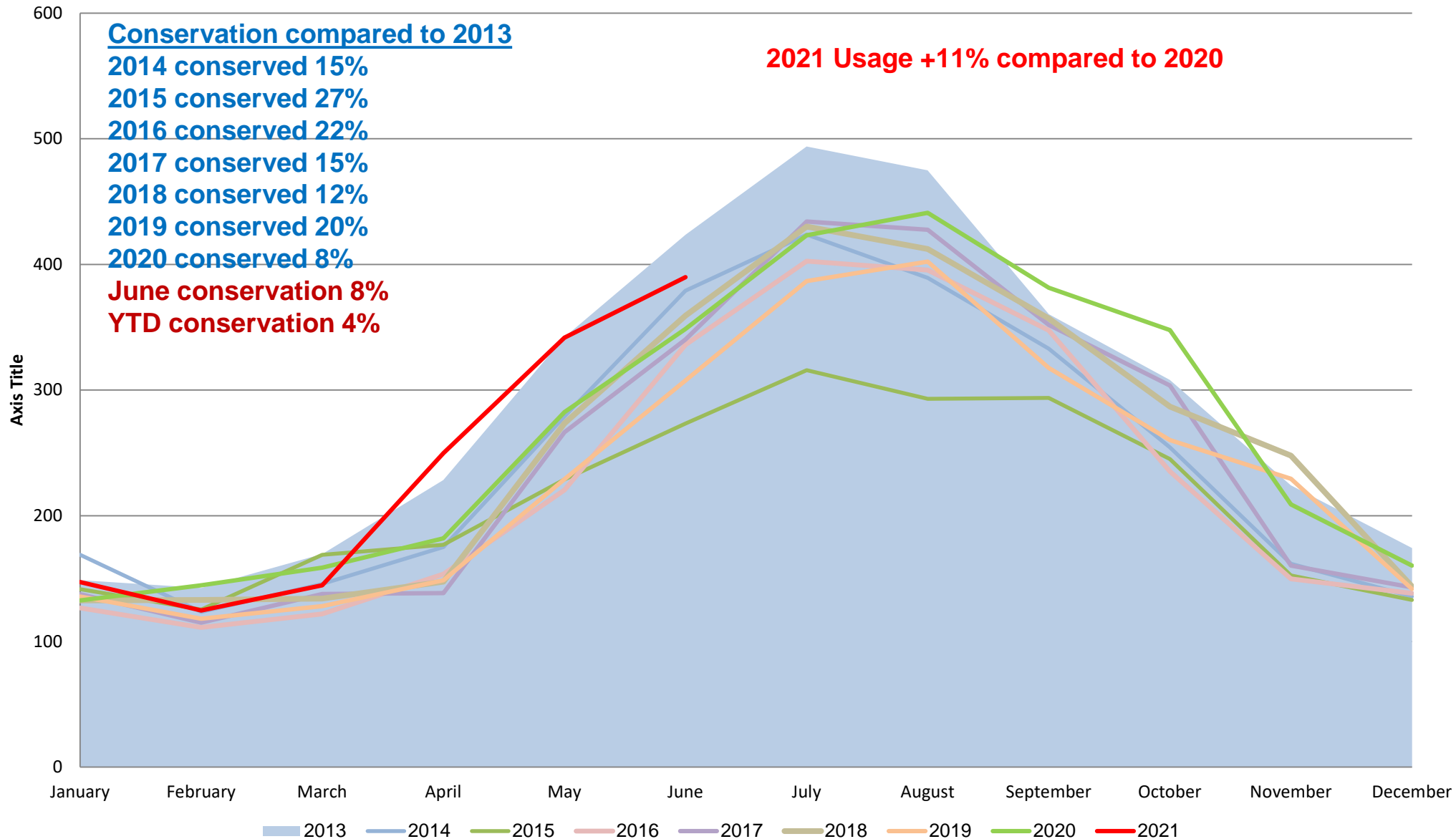
- Measurement station maintenance and monitoring
- Annual Dam Leakage testing (upper division)
- Drought curtailment compliance and reporting
- Review/inspection of accounts with no crop report filed
- Dry year coordination with PG&E and PCWA
- Development of changes to Foggy individual water agreement

Customer Service

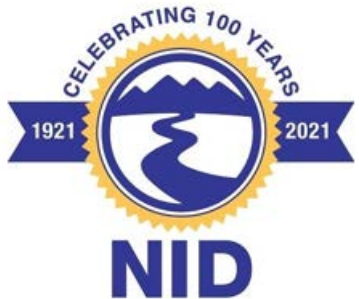
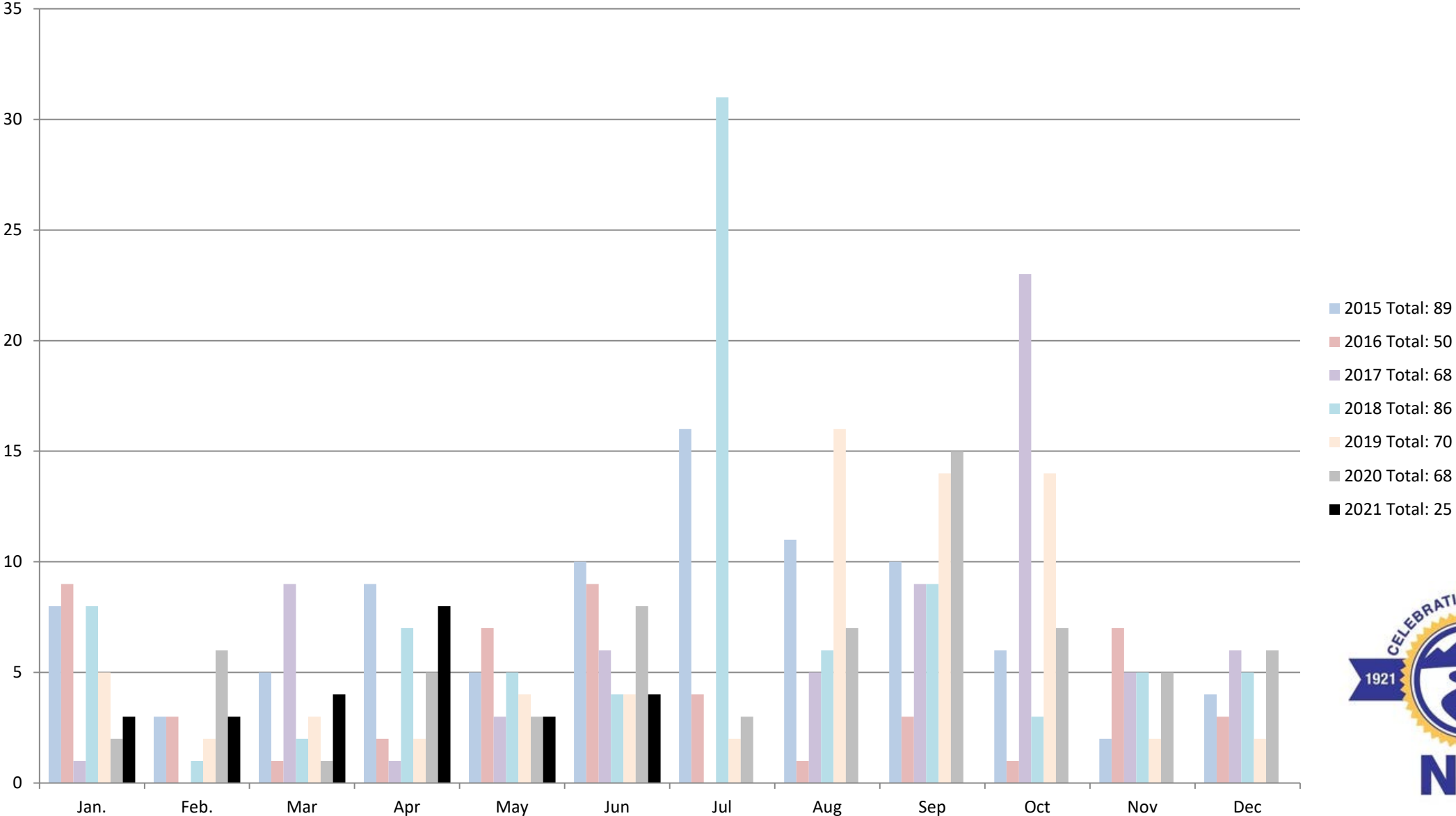
- Responded to 111 reports of treated water leaks
- Sent out 1074 high consumption or continuous flow letters
- Received 99 calls to emergency line
- Received 3138 calls to Customer Service & Dispatch
- Responded to 310 emails
- 3159 customers on electronic billing
- 3,339 online transactions in June totaling \$443,443.28
- 63 customers utilized LIRA in June
- Customer Service Techs. replaced 36 meters & 11 endpoints



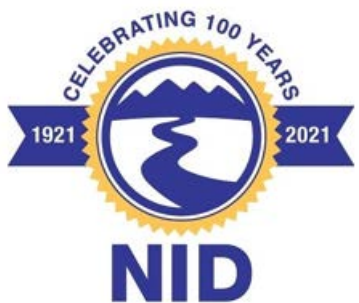
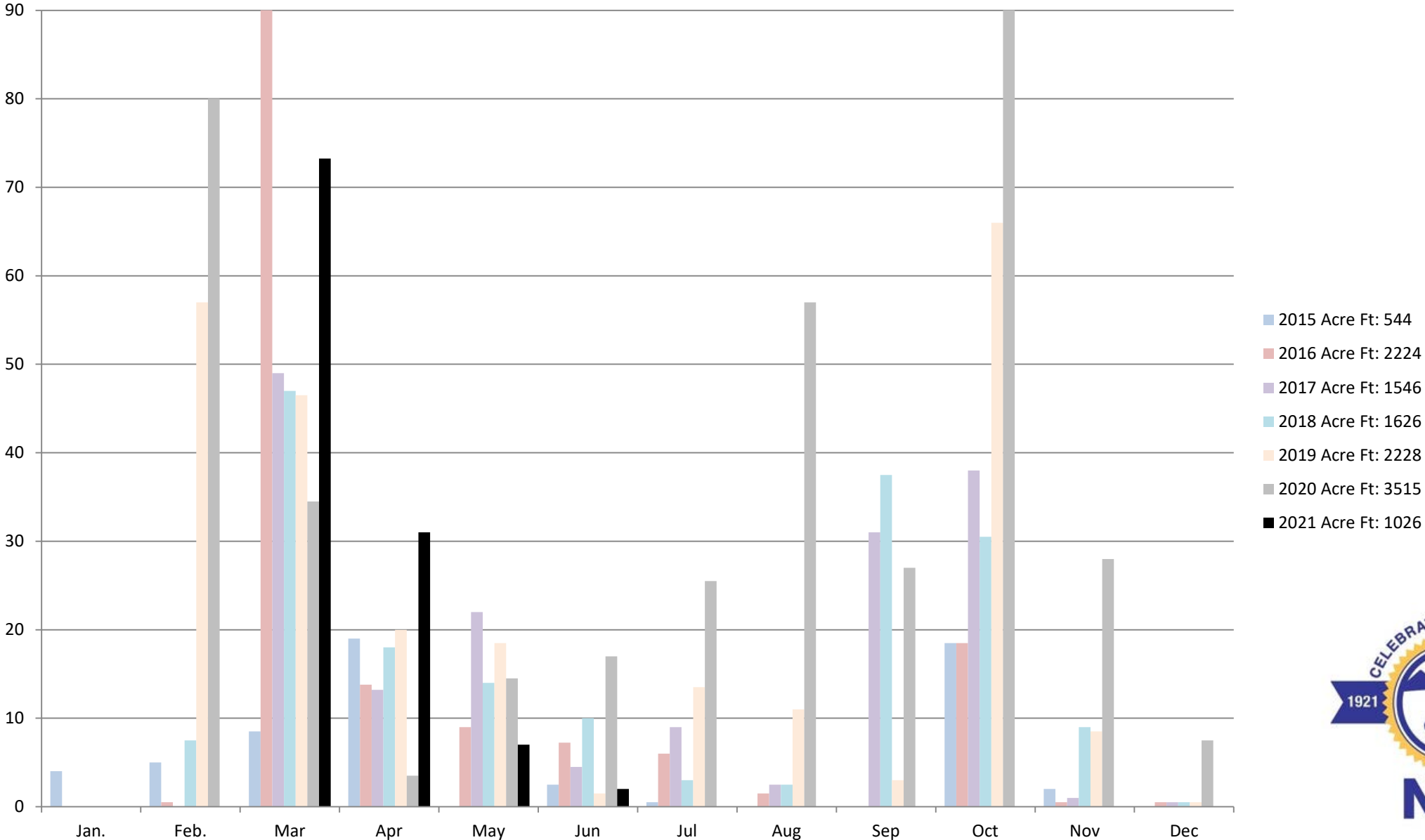
Treated Water Conservation Comparison



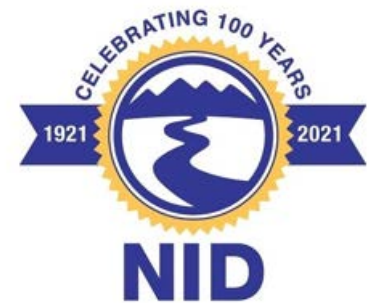
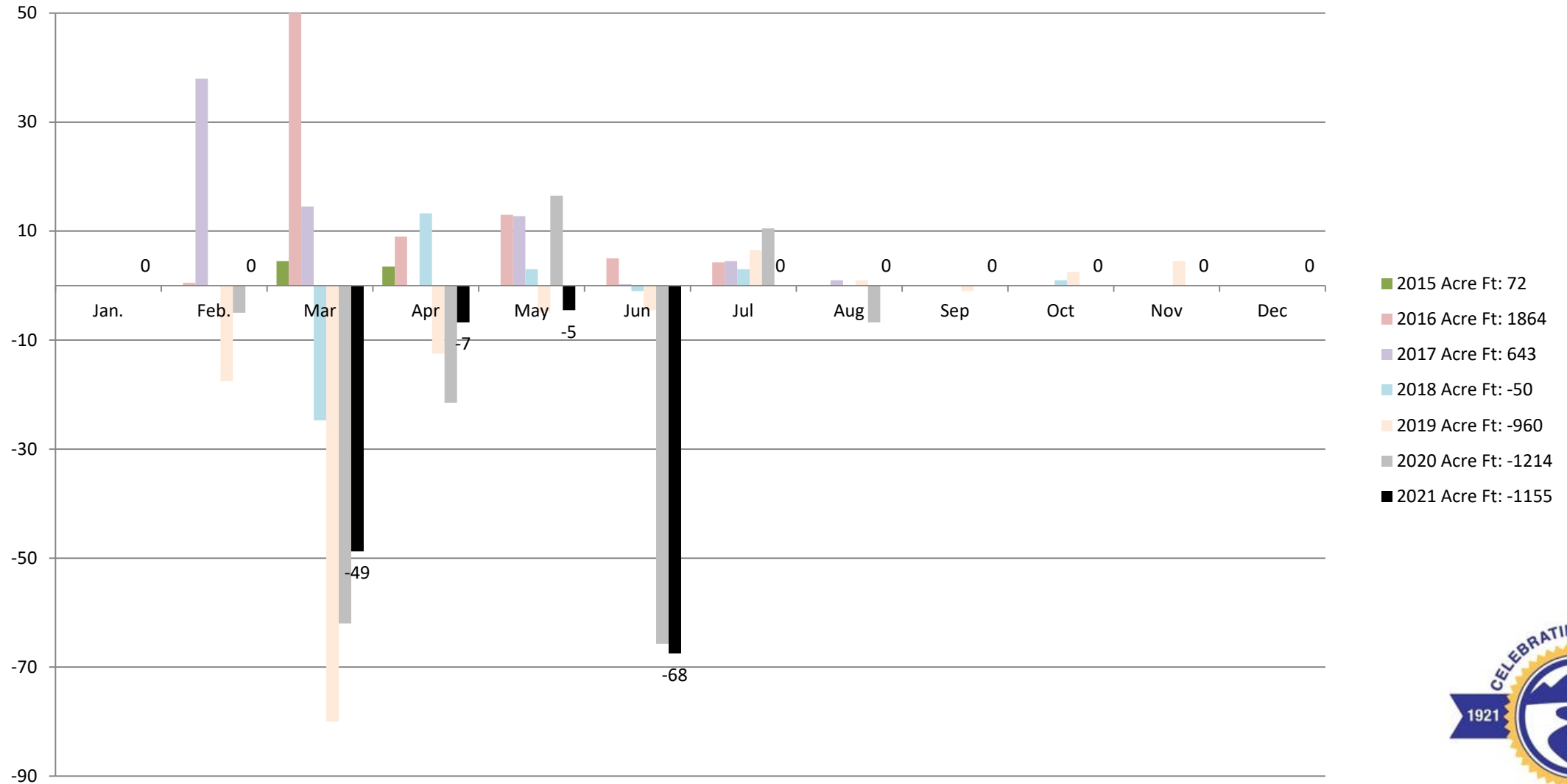
New Treated Water Accounts



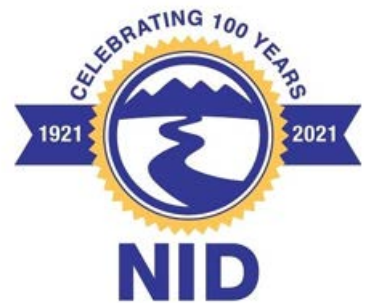
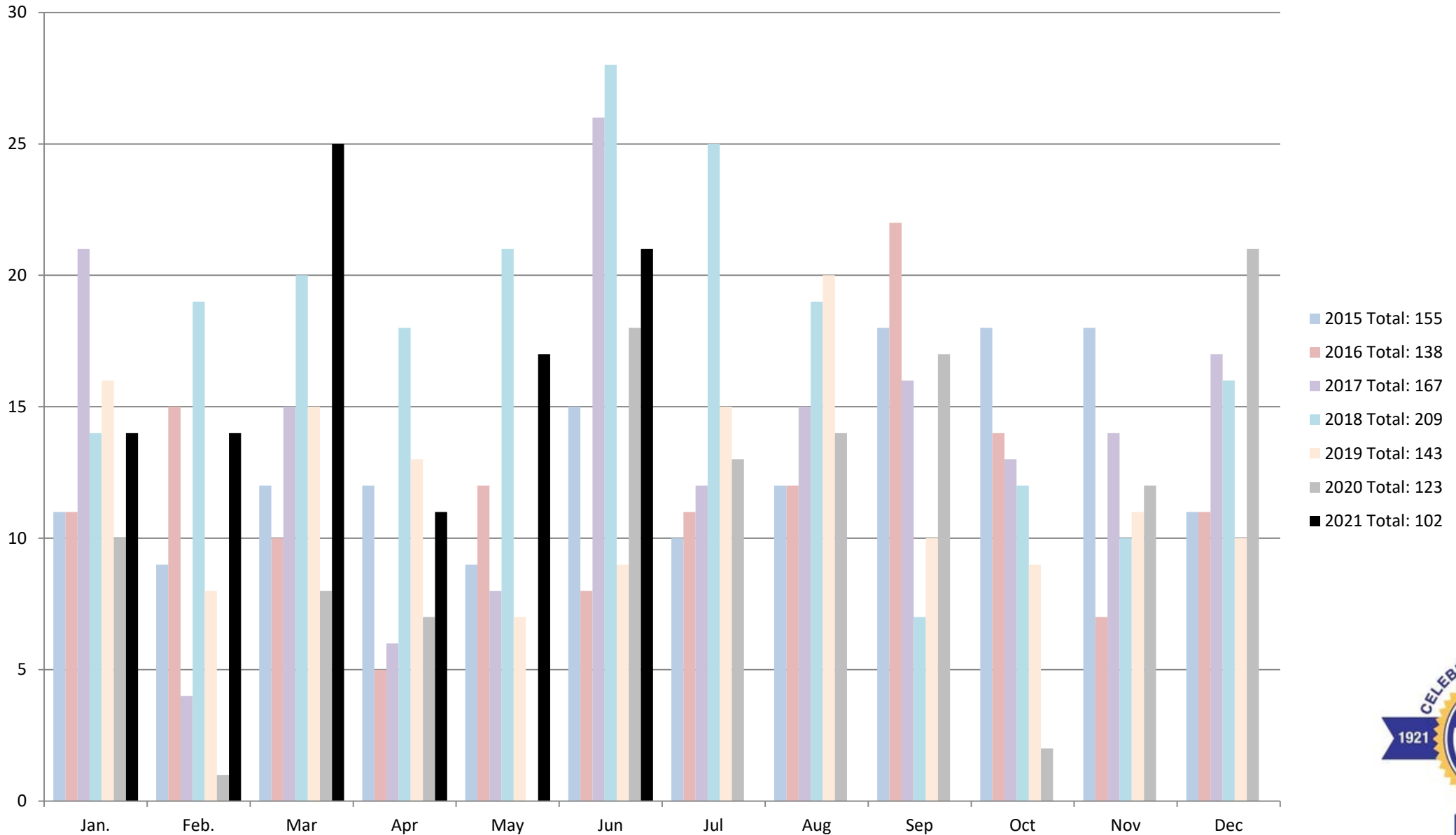
New Raw Water Sales in Miners Inches



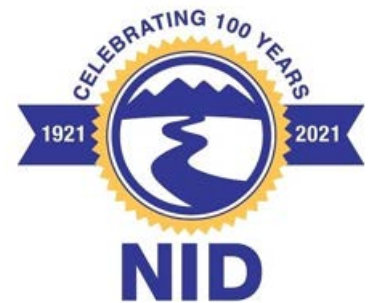
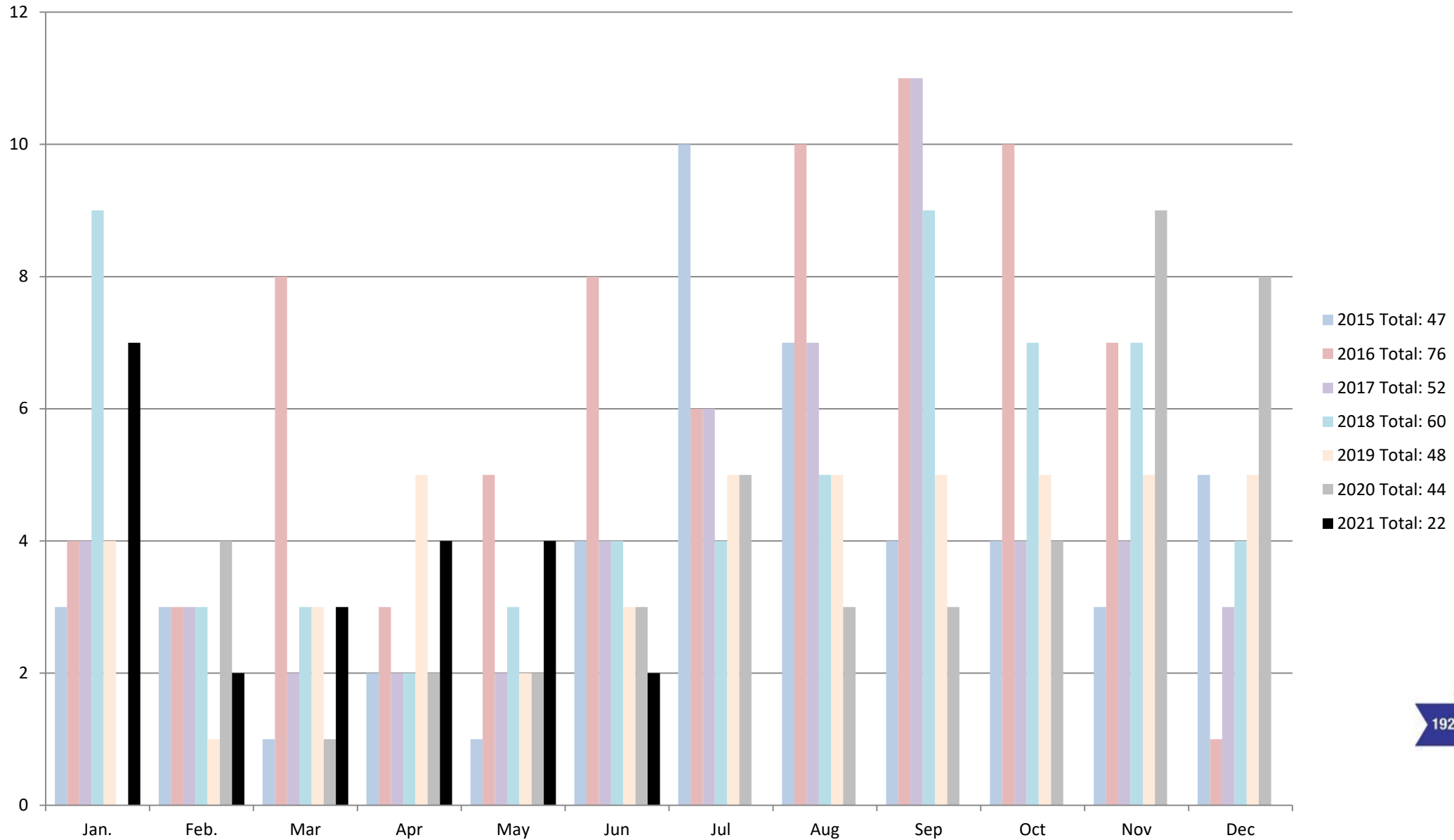
Raw Water Sales Changes Miners Inches



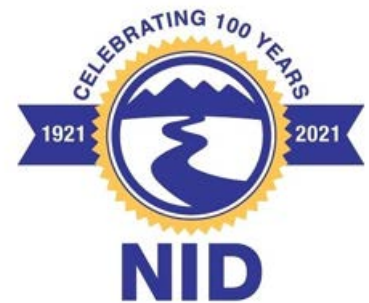
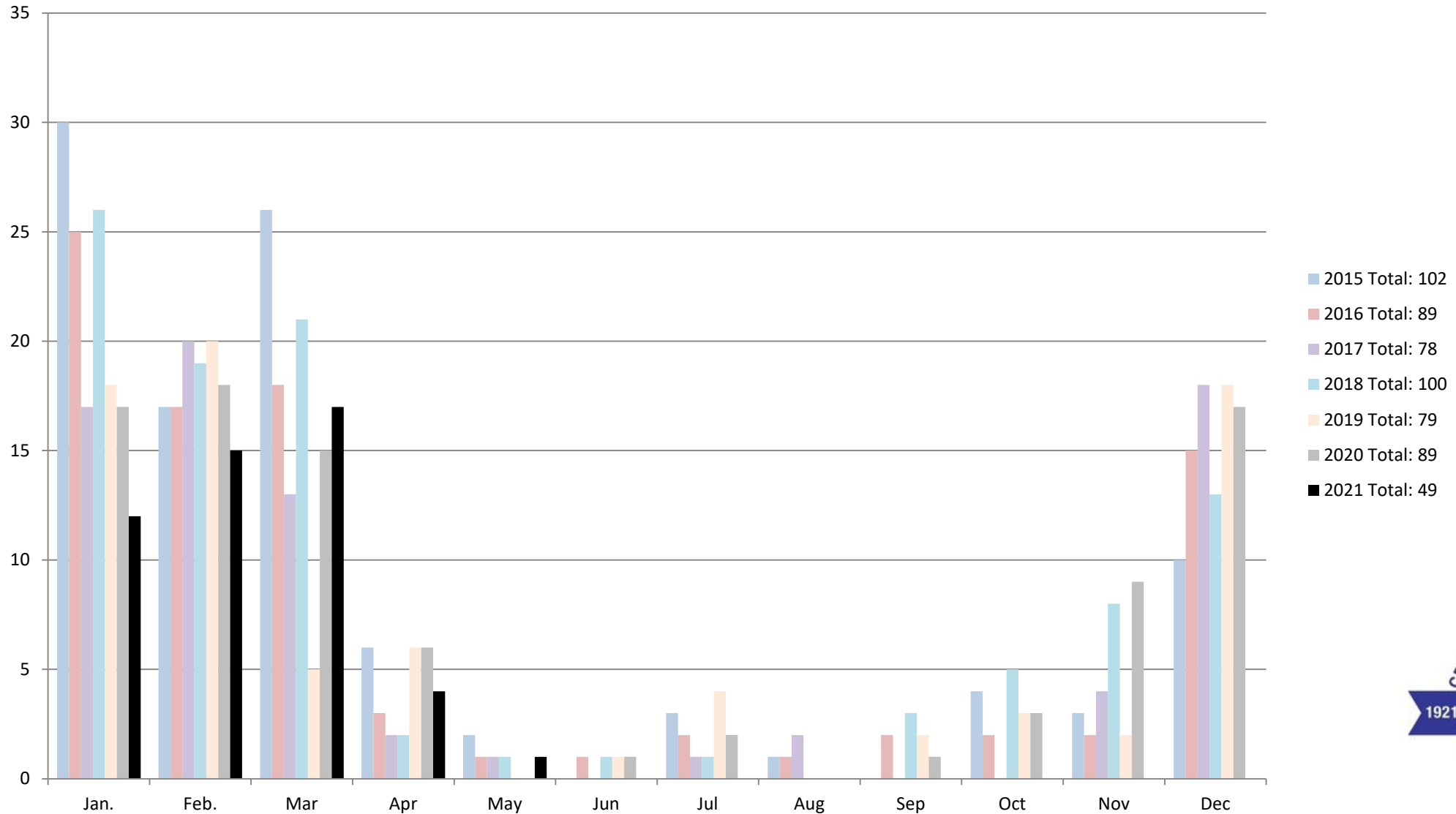
Scheduled Treated Water Outages



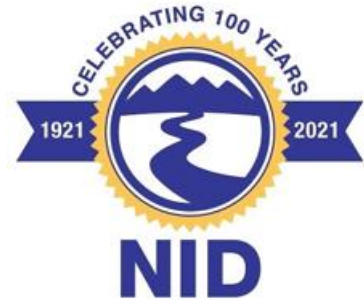
Emergency Treated Water Outages



Scheduled Raw Water Outages



Maintenance Department



Activities Report

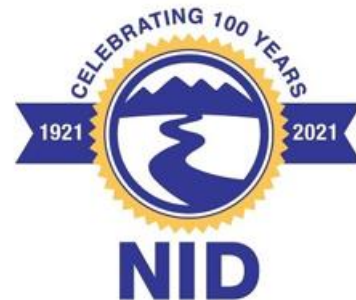
June 14, 2021 – July 18, 2021

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	0
HYDRANTS – NEW / REPAIRED / REPLACED	5
METERS – NEW / REMOVED / REPAIRED / REPLACED	33
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>	0
SAMPLE STATIONS – NEW / REPAIRED / REPLACED	0
SERVICE LINES – NEW / REPAIRED / REPLACED	15
VALVES / DEVICES – ARV, BOV, DCV, GATE , PRV, RP, ETC.	30
WATER MAINS – REPAIRED / REPLACED	2

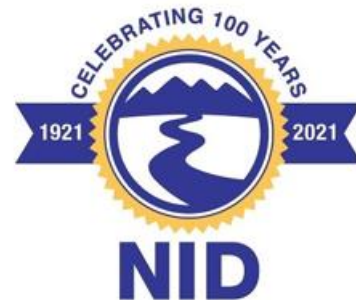


Maintenance Department Activities Report

Raw Water

Summary of Select “Routine” Work

CATEGORY / TASK DESCRIPTION	TOTAL #
RAW WATER	
CANALS / BERMS – LEAKS / REPAIRS	19
CANALS / BERMS – CLEANED <i>(20/21 official “cleaning season” now over until October)</i>	12
CANALS / CONTROL STRUCTURES – INSTALLED / REPAIRED / REPLACED	3
CULVERTS – NEW / REPLACED / REMOVED	0
RAW WATER BOXES – NEW / RELOCATED / REMOVED / REPLACED	5
TREES – REMOVED	4
ACCESS ROADS – MAINTAINED	0

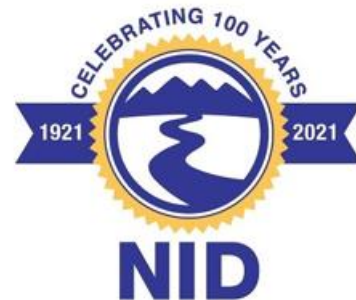


Maintenance Department Activities Report

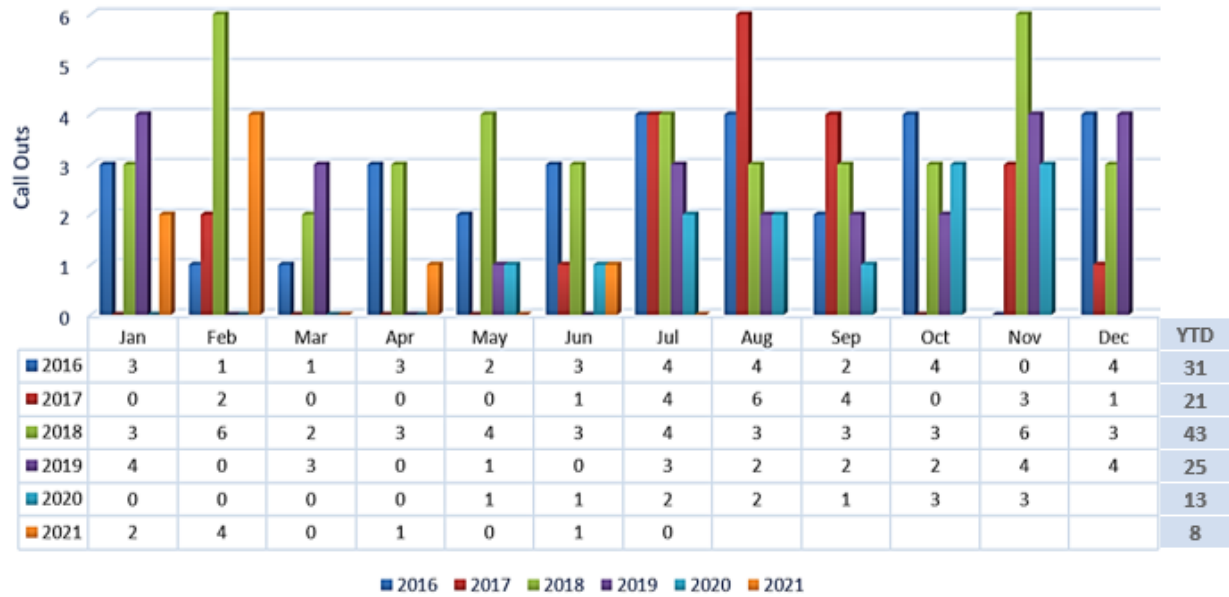
Fleet / Welders

Summary of Select “Routine” Work

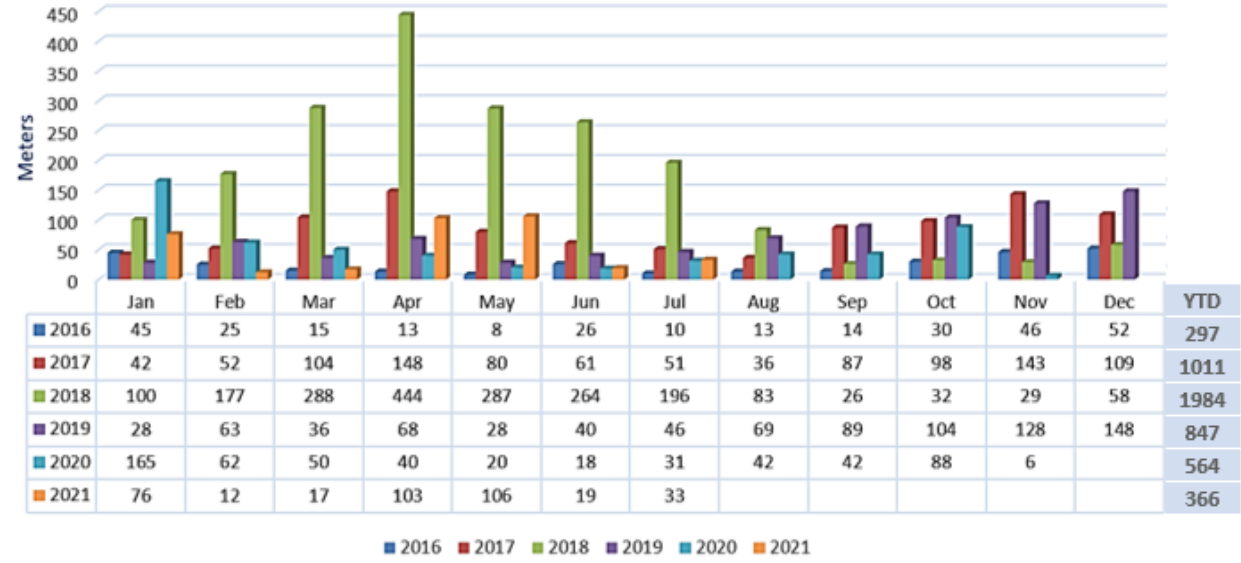
CATEGORY / TASK DESCRIPTION	TOTAL #
FLEET / WELDERS	
TRUCKS / VEHICLES – SERVICE / PREVENTATIVE MAINTENANCE	67
TRUCKS / VEHICLES – DAMAGE REPAIRS / LARGE SCALE REPAIRS	5
TRUCKS / VEHICLES – B.I.T. INSPECTIONS	9
TRUCKS / VEHICLES – RETROFITS	4
EQUIPMENT – SERVICE / PREVENTATIVE MAINTENANCE	45
EQUIPMENT – DAMAGE REPAIRS	0
EQUIPMENT – RETROFITS	2



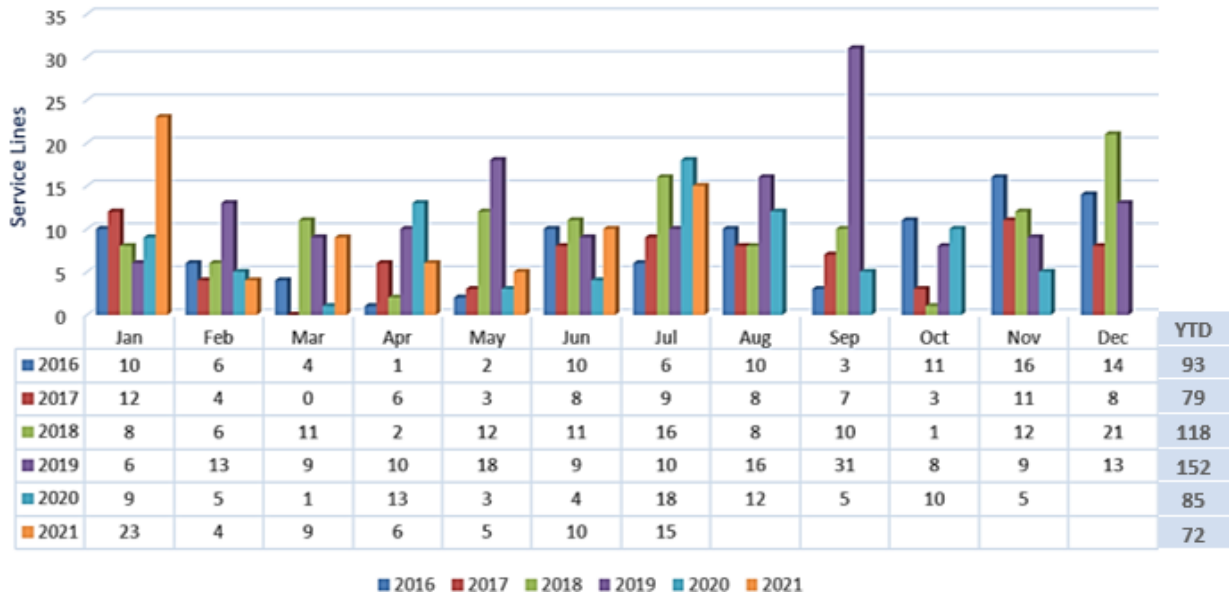
Emergency "Call Outs"



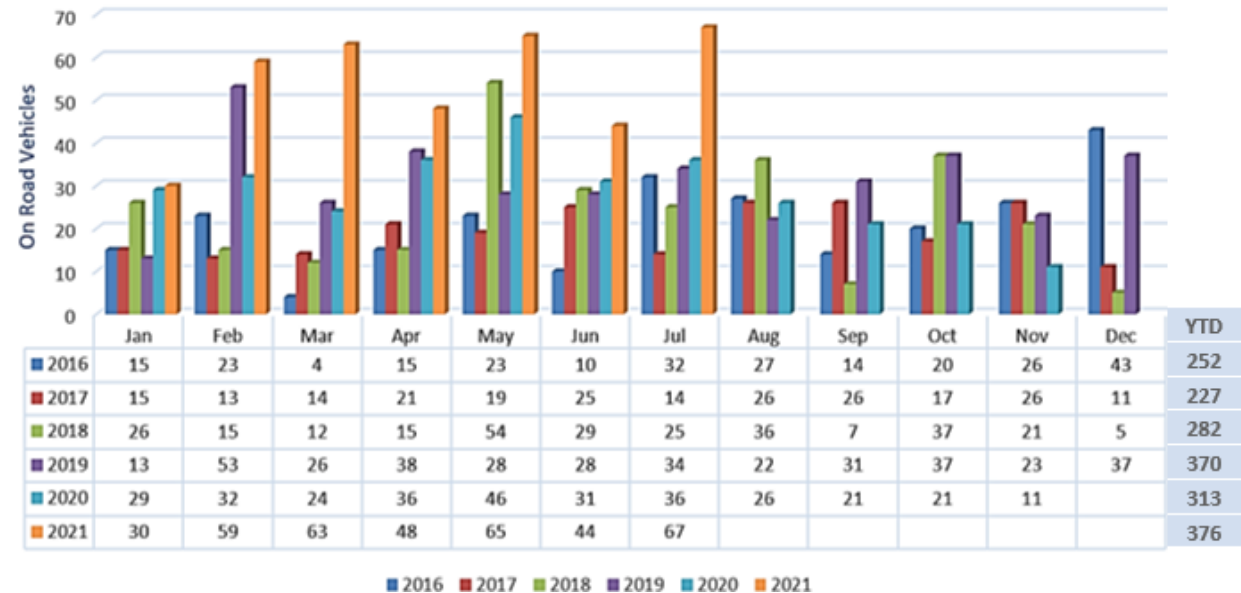
Meters - New / Removed / Repaired / Replaced (includes Meter Replacement Program)



Service Lines - New / Repaired / Replaced



On-Road Vehicles - Service / Repairs

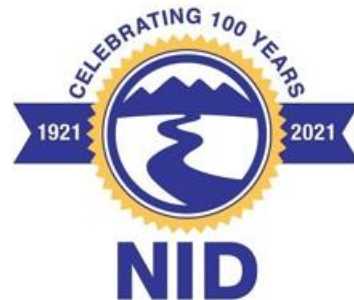


Maintenance Department Activities Report

Select “Non-Routine” Work

Canal Maintenance

- Emergency Call Out (Saturday, June 19) – Repaired Sontag Siphon damaged by contractor
- China and Rough and Ready Canals – Installed metal checks
- Cole Viet Canal – Built forms for crosscheck structure
- D/S Canal – Widened berm/access road into Pinewoods Pump Station to improve access from Pittsburgh Mine Road (90% complete)
- Forest Springs Canal – Unplugged Kenwood Siphon
- Maben Canal – Began brushing for rehabilitation project (10% complete)
- Rex Reservoir – Removed old wooden steps (safety hazard)
- Smartsville Pipe – Repaired leak and plumbed in existing service
- Tarr Canal – Continued rehabilitation work; armored both sides of canal with rock to prevent cattle from eroding berm (95% complete)
- Stockpiled material and staged rock and dirt at Alta Hill Reservoir for multiple ongoing projects



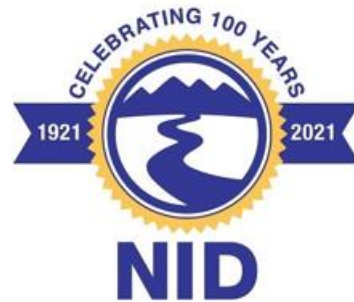
Select “Non-Routine” Work

Construction

- Berggren Lane Pipeline Replacement (FATR #2370) – Excavated materials; installed 8-inch D.I. pipe and backfilled trench (40% complete)
- Ridge Road Pipeline Replacement (FATR #2255-5a) – Waiting for parts (85% complete)
- Banner Lava Cap Road Transmission Main Line Repair – Repaired 14-inch steel treated water transmission main line that runs through the overpass/bridge

Facilities Maintenance

- Lake of the Pines T.P. – Repaired leaking 3-inch line inside treatment plant
- Opalite Pump Station – Constructed shed roof to protect generator from snow
- Placer Yard Maintenance Building – Painted building and roof; replaced gutters; replaced entry way concrete; installed lead-lined sheet rock in compaction gauge storage vault (80% complete)
- Pleasant Valley Pump Site – Replaced double entry gate; added on to existing culvert to widen driveway access for emergency generator and crane truck access (95% complete – waiting on final asphalt)
- Grass Valley Business Center – Painted I.T. Department office walls; hung white board
- Grass Valley Maint Yard – Deleted sprinklers to stop watering front lawn



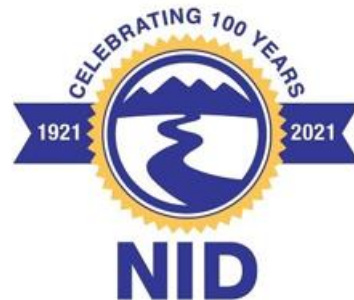
Select “Non-Routine” Work

Fleet Maintenance

- Major Repairs – Replaced all 10 track rollers on CAT 289C skid steer (10094); rebuilt air conditioning and replaced condenser, pressure switches and dryer on CAT 430E backhoe (10103); disassembled and diagnosed major engine damage on Polaris side-by-side (H5478)
- Serviced all (except 1) of District’s standby generators
- Service Calls – Scotts Flat to diagnose and replace shift solenoid on John Deere 410J backhoe (9980); Placer job site to repair hydraulic leaks and bad temp sender on CAT 308D excavator (10096); Placer job site to repair air conditioning on Kenworth 5-yard dump truck (10004); Alta Hill Reservoir to install new windshield, diagnose and repair hydraulic leak and turbo oil line leak on John Deere 200LC excavator (8580)

Placer

- Gold Blossom Canal / Santini Siphon Replacement (FATR #1098) – Hauled 18-inch C-900, sand and AB rock to site; began trenching for new pipe; installed and backfilled 220 feet of pipe (10% complete)
- Removed Aquatic Weeds – Auburn Ravine 1 (1 mile), Kilaga Springs (± 600 feet), Livingston ($\pm 1,000$ feet), Lonestar ($\pm 1,300$ feet)
- Repaired Canal Berms – Auburn Ravine 2 ($\pm 1,000$ feet), Doty North (± 500), Kilaga Springs (± 450 feet)



Select “Non-Routine” Work

Service

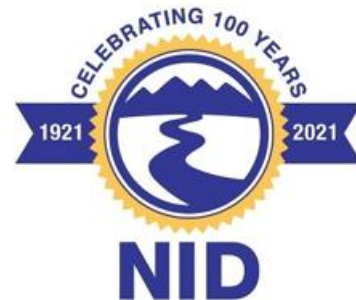
- Loma Rica System – Installed drain in Nancy Way PRV vault
- Scotts Flat – Backfill hole around well house
- 2021 “Meter Replacement Program” (FATR #2428) – None this reporting cycle
- Emergency Call Outs – None this reporting cycle

South Yuba Canal / Bear Valley Site/Yard

- Bear Valley (Bowman Lake Road) Site – Armored drainage ditch at site entrance and cleaned up culvert; removed remaining concrete from site and spread remaining dirt; installed bollard rocks around Tesco panel, as per meeting with PG&E inspector (final step in meter inspection)
- Trained with PG&E on flume work safety; repaired replacement posts and sway braces on short section of SYC flume
- Cascade Canal – Removed roof from propane tank at upper bench for new tank installation
- Valley View Reservoir – Met on-site to review upcoming road project; reached out to Surveyors for road layout; checked on needed supplies
- Assisted Canal Maintenance Crew on upcoming projects and canal leak repairs



Bear Valley Site



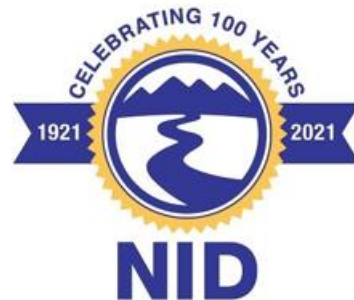
Select “Non-Routine” Work

Vegetation Control

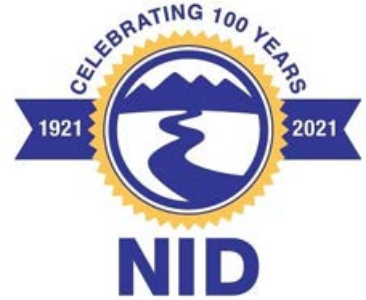
- Aquatic Herbicide Applications – Treated ±550 miles of canal, while working with Operations Department to keep water flowing through all canals
- Terrestrial Herbicide Applications – Treated ±72 miles of canal berm/bank
- Newtown Canal – Installed walk gate near end of canal

Welders

- Columbia East Canal – Replaced oversized screen for raw water service; installed new punch screen at pipe inlet
- Doty North Canal – Installed bolts to concrete edge of raw water delivery box
- E. George T.P. – Fabricated locking boxes for alum tanks 1 and 2
- North Auburn T.P. – Fabricated 3 new brackets for clarifier blow downs; extended blow down door retaining brackets
- Vegetation Control – Fabricated 10 new copper station stakes
- Equipment – Repaired shank on 1 foot bucket; fabricated 5 foot long gate valve T-wrench for Operations Department



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 the 4th of July and no major problems reported.
- Recruitment for summer staff is starting to slowly resume.
- Boat launches and day-use at Scotts Flat, Orchard Springs and Long Ravine have been closing by 10:30/11am on the weekends, due to parking capacities.
- As water levels continue to drop at Scotts and Rollins, staff has been working diligently, keeping an eye on water levels in hopes to keep our mooring ball and slip renters in the water for the summer season.
- Tree work will continue into July at Peninsula, Long Ravine, Scotts Flat and Jackson Meadows.
- Group campgrounds and campsites opened effective June 15. A few group sites will remain closed for the remainder of the 2021 camping season due to staffing issues.

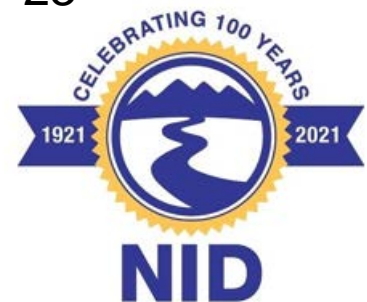
Scotts Flat Campground

Projects in Progress or Completed

- Gold Country Yacht Club held their adult and youth sailing classes June 11 - 18 and July 19 - 23
- Staff is doing an excellent job at keeping weekend traffic moving at the gates

Future Projects

- Look at ways to extend boat launches during drought years



Upper Division

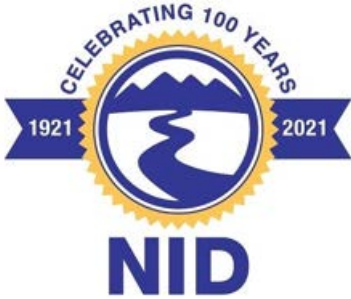
Sawmill Spillway



Sawmill Reservoir



Canyon Creek



Orchard Springs Campground

Projects in Progress or Completed

- Added extra boat parking to help with congestion in the day-use and boat launch area
- Staff fixed a water leak

Future Projects

- Tree work; we have 25 pine trees in the process of dying due to the drought and beetle related issues

Long Ravine Campground

Projects in Progress or Completed

- Replaced gate house window
- NID Electricians replaced and repaired a few of the RV electric towers

Future Projects

- Add sand to the day use/swim area
- Redesign the boat slip entry to better accommodate low water/drought issues

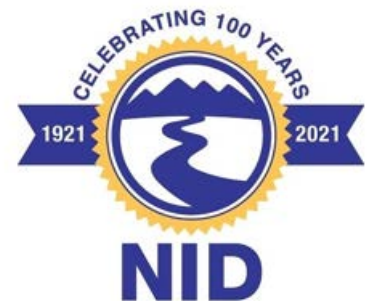
Peninsula Campground

Projects in Progress or Completed

- Few hazard trees still need to be removed

Future Projects

- Creating a day-use/swim area



Combie Reservoir

Projects in Progress or Completed

- Yearly dock bills have been sent out and payments and quagga forms are coming

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 are on board with the District's "no wood or charcoal" fire ban

Future Projects

- Continued team approach to issues

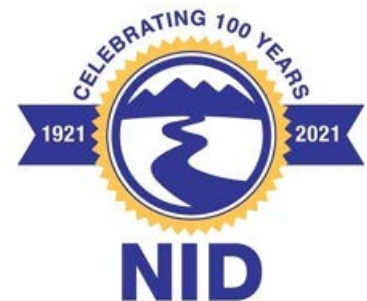
Jackson Meadows Campgrounds and Bowman Corridor Camping

Projects in Progress or Completed

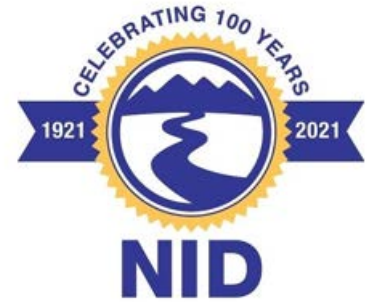
- Staff installed water restrictors on all the water spigots, to help with conservation
- Staff and Water Treatment fixed a few water leaks on the Woodcamp water system

Future Projects

- Mid-season hazard tree work



Hydroelectric Department



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

Generation Report

Powerhouse	Average Generation	Current Generation
Chicago Park	11,983	6,440
Dutch Flat #2	10,013	997
Rollins	6,708	2,844
Bowman	1,008	665
Combie North	180	157
Combie South	508	0
Scotts Flat	495	521
Total	30,895	11,624

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.

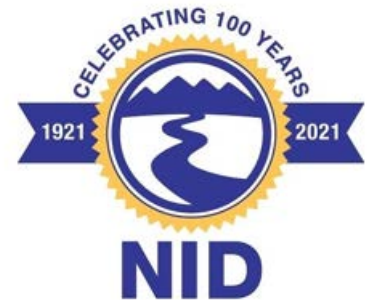
Context:

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	94.4%	100%
Dutch Flat #2	93.9 %	100%
Rollins	92.0%	100%
Bowman	95.0%	100%

Report Description:

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

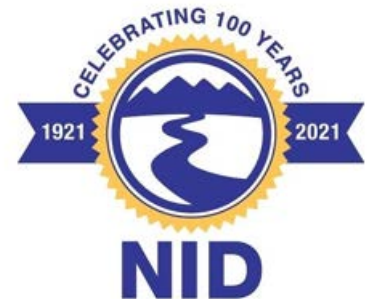
Context:

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	Time Out	Duration (HH:MM)	Cause
Bowman	6/6/2021	12:01	303:20	Annual Outage
Rollins	6/19/2021	06:09	5:30	PG&E Line Work
Scotts Flat	6/1/2021	17:36	2:10	PG&E Line Imbalance
	6/3/2021	08:35	1:30	PG&E Line Imbalance
	6/18/2021	16:11	1:31	PG&E Line Imbalance
			314:01	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.

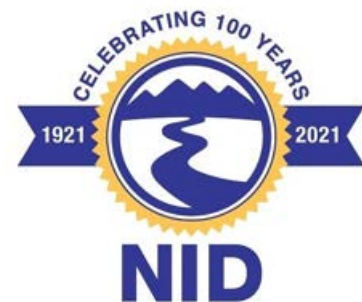
Context:

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

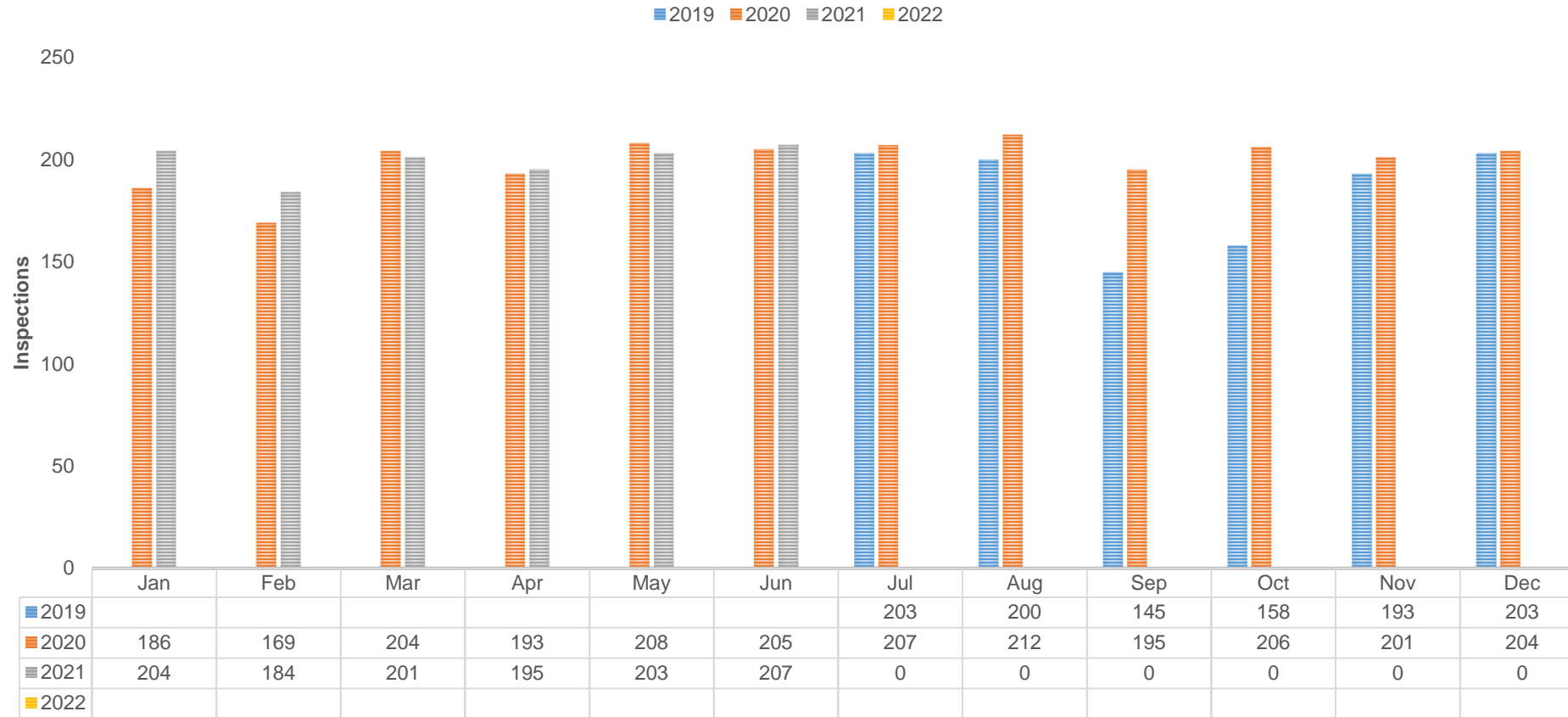
Discussion:

Reliability of NID units was exceptionally high in June. PG&E had problems on the line that feeds the Scotts Flat Powerhouse and planned work on the line that feeds the Rollins Powerhouse

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.

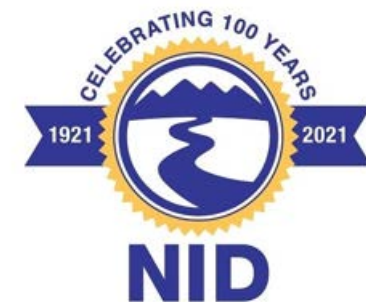
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Possible Inspections	217	196	217	210	217	210	217	217	210	217	210	217

Context

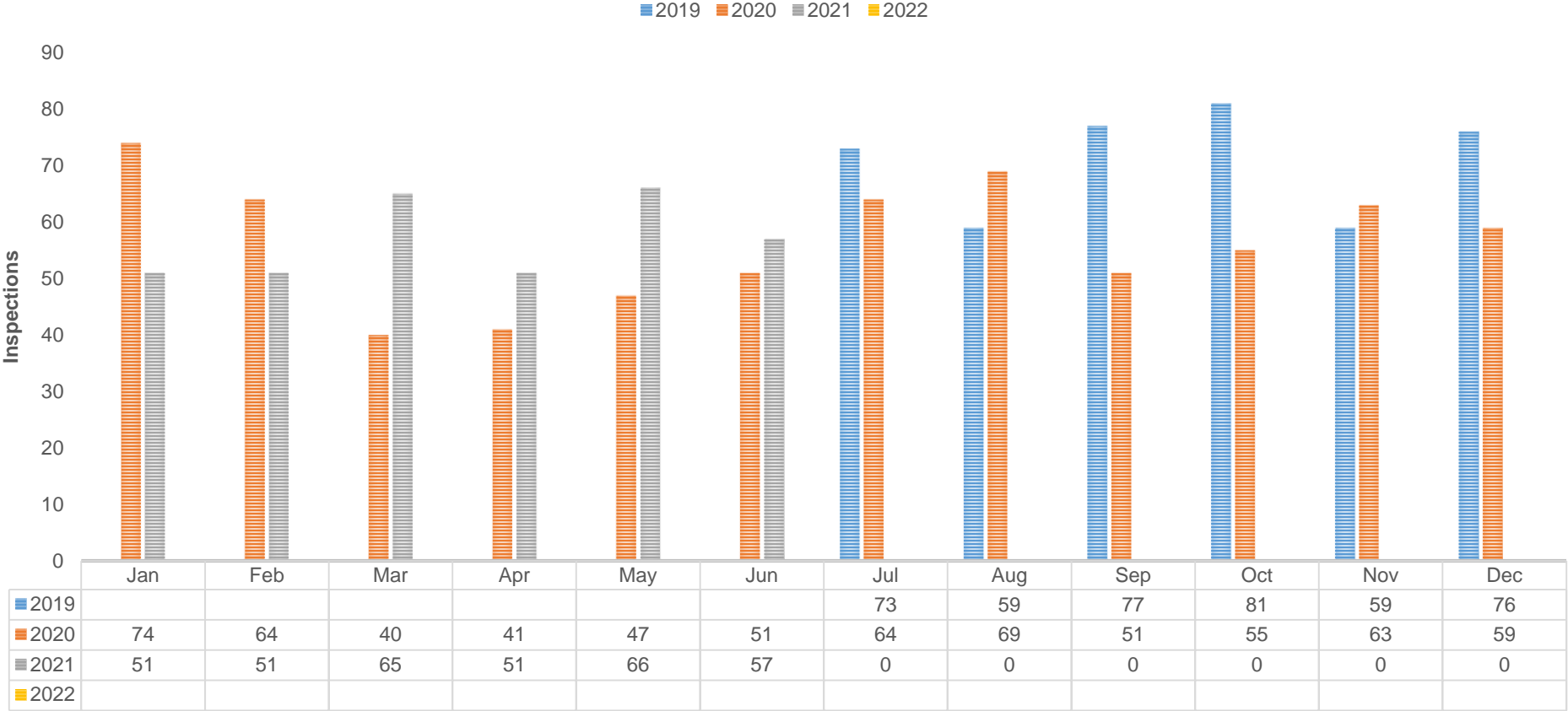
Routine inspection of powerhouses is key to identifying issues that may impact reliability of operations causing reduced generation or availability. The Department's goal is to visit every powerhouse on a daily basis.

Discussion:

The number of powerhouse inspections is consistent with historic averages.



WEEKLY DAM INSPECTIONS

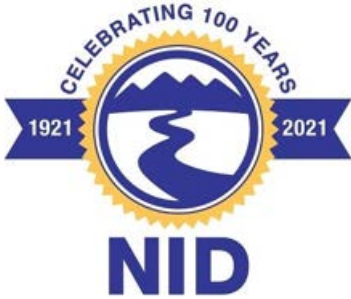


Report Description:

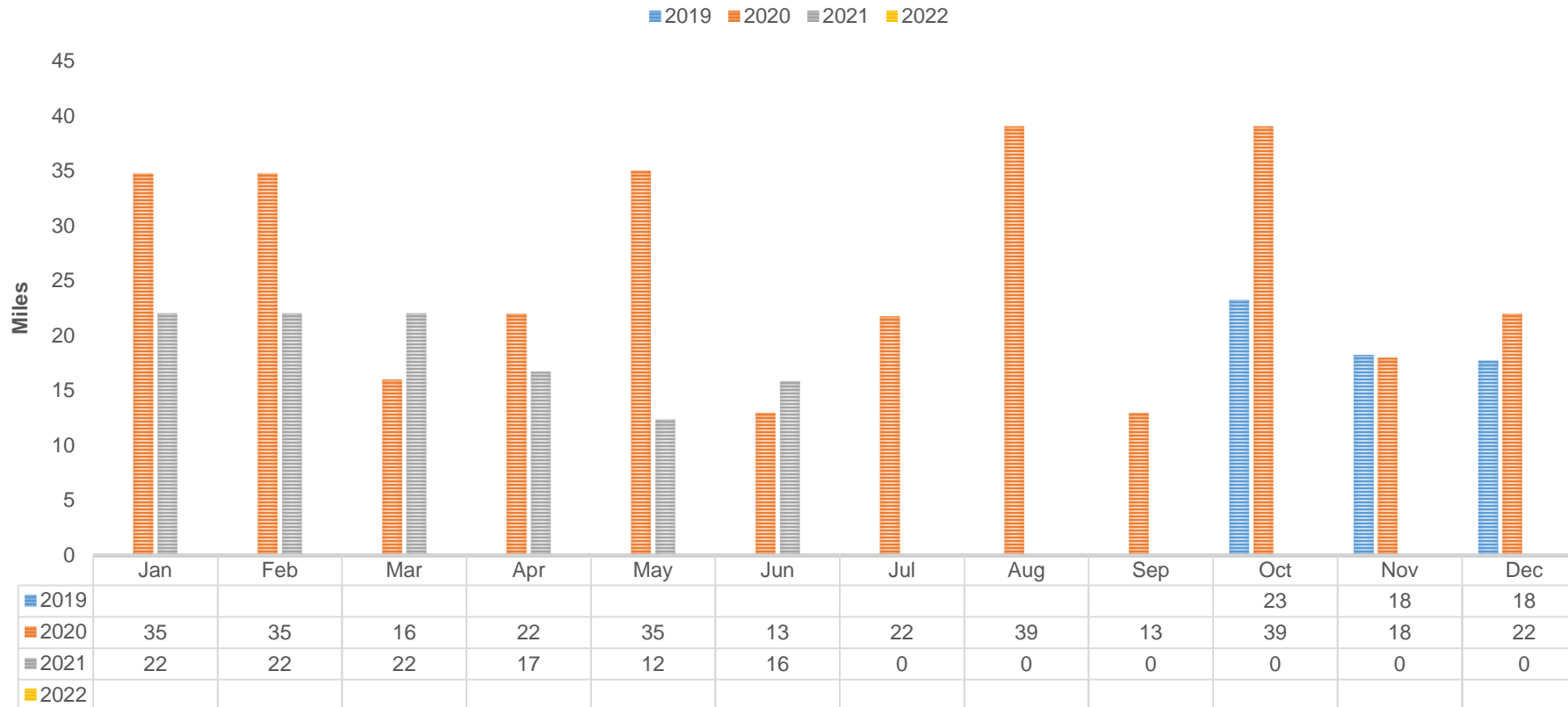
This report presents the total number of dam inspections completed during the prior month. The total number of possible inspections is 84.

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 is consistent with historic averages.



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

- NID Board consideration of the contract to occur at an upcoming Board meeting.
- NID staff continues to coordinate with SSWD staff on issues related to transaction and continuity of operations.

