



SOUTH TAHOE PUBLIC UTILITY DISTRICT WATER AND WASTEWATER OPERATIONS COMMITTEE MEETING

Tuesday, July 18, 2023

3:30 p.m. to 5:00 p.m.

**District Office, Conference Room 1st Floor
1275 Meadow Crest Drive, South Lake Tahoe, California**

Nick Haven

OPERATIONS COMMITTEE

Shane Romsos

(A meeting will be held to discuss the following topics)

A G E N D A

1. **PUBLIC COMMENTS** (Members of the public may address the committee on any item that is within the jurisdiction of the District; however, no discussion or action may take place per the Brown Act. Each member of the public who wishes to comment shall be allotted three minutes, and no more than three individuals shall address the same subject.)
2. **OPERATIONAL ISSUES**
 - a. General
 - Monthly Reactive Work Order report
 - Winter Storm Response
 - Location for August Operations Committee Meeting
 - b. Water System
 - Ongoing water quality concerns on steel mains
 - Leak response in Forest Mountain Zone
 - c. Sewer Collection System
 - No news as of July 12
 - d. Wastewater Treatment Plant (WWTP)
 - Emergency Retention Babsin Dam inspection
 - General update with Acting Plant Manager
 - e. Export System/Recycled Water Facilities
 - Unscheduled export to Emergency Retention Basin
3. **ENGINEERING ISSUES**
 - a. General
 - Raise/Lower Iron on Pioneer Trail and South Upper Truckee
 - Plan for staff offices
 - Maintenance system replacement
 - b. Water System
 - Noise issues with tank battery fans
 - Black Bart and Barton Area Shut-Downs
 - Results of bi-annual satellite leak detection
 - Paloma Well testing

- c. Sewer Collection System
 - Stanford Camp Electrical/Generator Building
- d. Wastewater Treatment Plant (WWTP)
 - No news as of July 12
- e. Export System/Recycled Water Facilities
 - Containment during tank exterior coatings

4. **DISCUSSION OF STAFF REPORT** (Board Members pull items of interest from Engineering Staff Report below for further discussion)

5. **ADJOURNMENT** (Next meeting is planned for Monday, August 14, 2023, 3:30 p.m)

Public participation is encouraged. The meeting location is accessible to people with disabilities. Every reasonable effort will be made to accommodate participation of the disabled in all of the District's public meetings. If particular accommodations for the disabled are needed (i.e., disability-related aids, or other services), please contact the Clerk of the Board at (530) 544-6474, extension 6203, at least 24 hours in advance of the meeting.

South Tahoe Public Utility District ▪ 1275 Meadow Crest Drive ▪ South Lake Tahoe, CA 96150
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ENGINEERING STAFF REPORT (as of July 12, 2023)

CONSTRUCTION PROJECTS

- a. Blower Generator, Secondary Clarifiers 1/2, and Tank Backup Power (Vinciguerra)
 - Wiring and fiber optic completed, but not tested; ladder last remaining piece of work
 - Eleven of twelve batteries installed and in service, awaiting testing
 - Still short one electrical box H Street – expect end of July
 - Contractor's Builder's Risk insurance has expired; most work complete, but not tested yet, so Batteries and Radio Tower at Contractor's risk until accepted
- b. Secondary Clarifier 2 Rehabilitation Project (Contractor: T&S)
 - Foundation demolition is complete; piping and shoring for new mechanism foundation will be installed over next month
 - Consultant will be onsite July 17 to inspect for leaks through interior launder wall
- c. Luther Pass 1 / Heavenly Tanks Rehabilitation Project (Contractor: RDC)
 - At staff direction, Contractor added French drain around Tank 1 to manage hillside water
 - Contractor struggling to contain blast material during exterior recoating work; Staff waiting for them to submit a written containment plan, as required
 - Plan to take Tank 1 offline 7/12
- d. Flagpole 2 / Iroquois 2 Tanks Recoating Project (RDC)
 - Anode brackets have been installed in Flagpole 2 and Contractor is ready to begin blasting as soon as Containment Plan submitted July 10 can be reviewed and approved; expect work to take 5-6 weeks
 - Expect contractor to begin mobilization to Iroquois 2 second week of August; District may need to bring in additional coatings inspector for concurrent work
 - Staff is investigating source of unusual buildup of calcium carbonate inside Flagpole 2
- e. 2023 Tanks Touchups Project (Contractor: Unified Field Services)
 - Forest Mountain Tank offline since July 4 week; running zone in pressure has caused many leaks; expect tank to be offline 4-6 weeks
 - Expect Echo View Tank to be taken offline by July 21 and remain offline for 6 weeks

- f. Barton Area Valves Installation (Haen)
 - Planned valve installation completed by the District's contractor in the last month; a few more valves will be needed based on field conditions discovered
 - City project has commenced; Staff is working with the City and their contractor week of July 10 to install 3 waterline offsets in response to conflicts with new storm drain alignment; expect a few more week of July 17
- g. Keller Heavenly Phases 1, 2 and 3 Project (White Rock)
 - Contractor completed installing new waterlines and conduit on tank site access road
 - Contractor completed installation of manhole for tank overflow line to sewer
 - Contractor completed installation of fire hydrants near Sitzmark property
 - Tank builder removed tank floor and delivered new floor; floor installation on hold pending resolution of failed hardware
- h. Tallac Creek Sewer Crossing (Haen)
 - Staff completed post-construction compaction testing on access road by June 15 due date to permitting agency; soil at road is in better condition than before construction
- i. Black Bart Waterline (Vinciguerra)
 - Contractor began underground construction on Meadow Crest Drive on July 10
 - Staff is struggling with isolation of 2" main on Black Bart (missing valves)
 - Staff is considering surfacing options for Ham Lane (private) consistent with past projects
- j. Tahoe Keys Pump Station (T&S Construction)
 - Contractor remobilized mid-June to finish work on mechanical piping and conduit
- k. Paloma Well Rehabilitation (Zim Industries)
 - Contractor is preparing to return to site July 17 for aquifer test
 - Staff requested pump supplier add a stage to new pump to meet specifications; waiting to hear how long that might take
 - Staff contacted CTC to renew meadow discharge permit, and is evaluating alternative test methods to avoid discharge

PLANNING/DESIGN

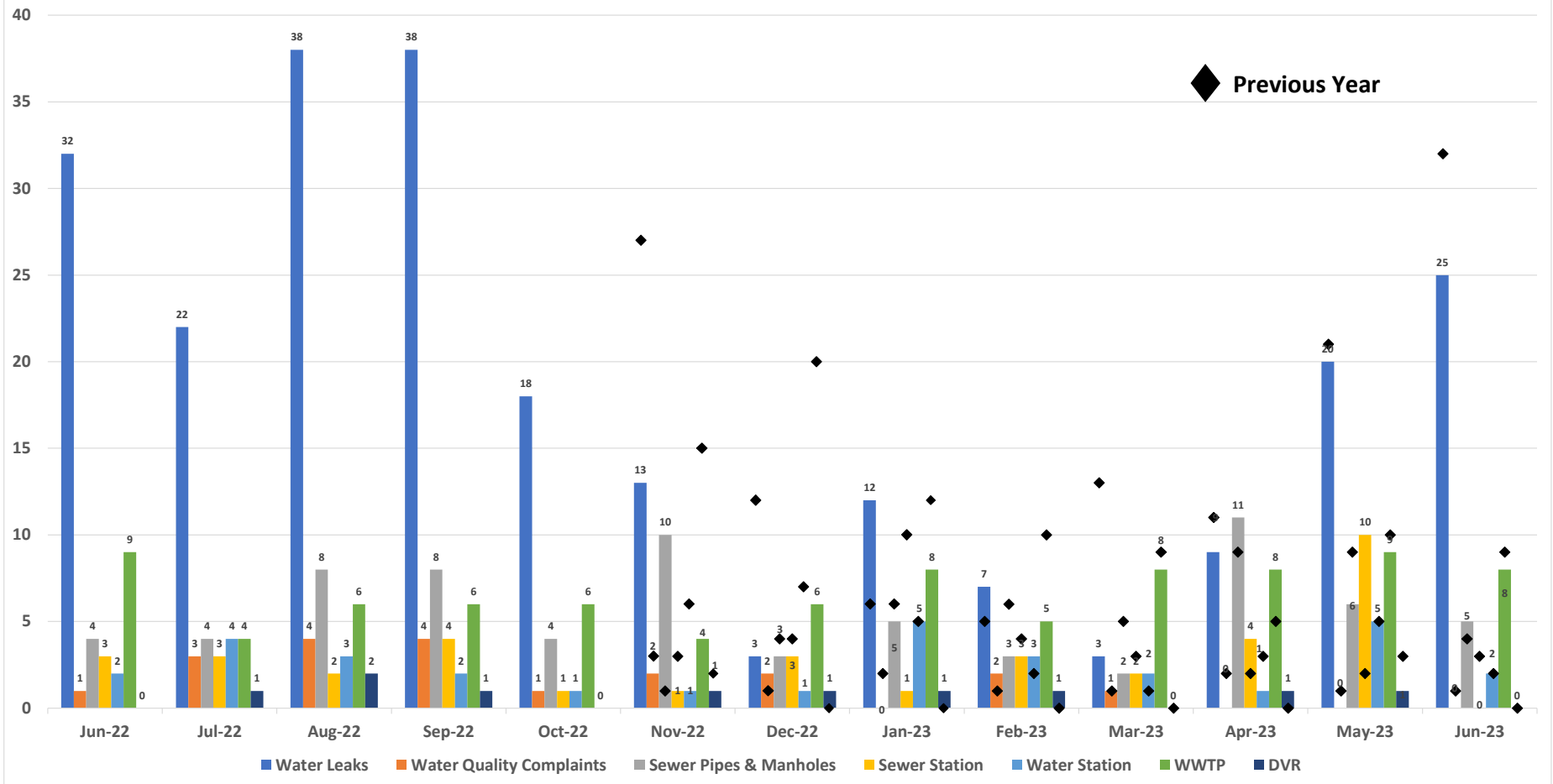
- a. Groundwater Sustainability Agency (Consultants: Kennedy Jenks and DRI)
 - Staff submitted annual supply/demand assessment data by July 1 deadline and is posting report to District website
 - Staff and consultant polling SAG for funding priorities
 - Staff is working to organize data behind all regulatory reporting for ease of use
 - Staff is preparing well inspection, maintenance and rehabilitation plan for use in budget process
- b. Al Tahoe/Bayview Backup Power & Well Rehabilitation Project (Consultant: Kennedy Jenks)
 - Consultant completed archaeological surveys of Al Tahoe and Bayview sites in June and is continuing with permitting activities
 - Staff is preparing a plan to demolish the old well house and abandon well ATW1, which is currently only used as an observation well
- c. Bijou 1 Waterline Replacement Project (Consultant: NCE)
 - Staff finalized review of 90% design and returned comments to consultant on June 9
- d. Baldwin Beach Gravity Sewer and Pump Station Project (Consultant: NHC)
 - Board approved Task Order for NHC and Participation Agreement with USFS to Board on July 6 to reimburse District for design costs

- e. Return Activated Sludge Project (Consultant: TBD)
 - Only one consultant requested a tour of Plant in support of proposal during tour timeframe (June 21-23); proposals due July 19
- f. WWTP Filters Rehab Project (Consultant: ERS Industrial)
 - Inspection report received from ERS, recommending Filters 3 and 4 be prioritized for rehab before Filters 1 and 2, due to vessel corrosion and signs of breakthrough
- g. Water System Asset Management Projects
 - Future Waterlines: Surveyor (Lumos) completed field work in June on Lake Tahoe Blvd out near North Upper Truckee collecting field data for future designs
 - Production Meter Calibration (Consultant: ME Simpson): Consultant's preliminary assessment of stations due by July 14, then Staff will meet to discuss modifications necessary to support meter testing
 - Fire Hydrant Monitoring: Staff is preparing list of 72 obsolete fire hydrants to be replaced in a 2024 project, so field verification may commence; construction slated for 2024
 - Lead Service Line Assessment: Staff continues to scan available hard copy data; Staff created and rolled out a form for crews to collect service material data when working on service lines
 - Satellite Leak Detection: Satellite imagery collected in June; areas of interest reduced from 115 in 2021 to 90; consultant onsite starting July 10 to perform acoustic location; Staff is analyzing 2023 results against 2021 results
 - Energy Baseline: CivicSparks Fellow (Abi Lloyd) presented findings of assessment to Operations Committee on June 12 and will present to full Board on July 20
- h. Sewer System Asset Management Projects
 - Recycled Water Strategic Plan (Consultant: Carollo): Staff and consultant met in June with Nevada Department of Environmental Protection regarding recycled water crossing state lines to inform study; expect Alternatives Evaluation draft to be completed by mid-August; Staff working with Consultant to prepare scope for Phase 2
 - Spot Repair Tracking Tool and Hydro-Cleaning Tracking Tool: Staff rolled out new tools to URS week of May 30, which is available through CCTV App on Mainline
 - Flood Plain Mapping: Staff is preparing map of manhole locations/elevations versus FEMA 100-yr Flood Plain; City's drone footage of meadow helped Staff to verify manhole locations to optimize GIS; Staff is gathering general information from City regarding their drone program to inform a potential future program for STPUD
 - Force Main Valves and Air Releases: Staff is preparing to perform field verification of locations in support of exercising and rehabilitation programs, through end of August
- i. General Asset Management Projects
 - Service Area Imagery: Staff is finalizing Task Order with NearMap for aerial flyover planned for late June; Staff has access to historic imagery as of June 6
 - Electrical Condition Assessments (Consultant: WSC/HDR): Consultant held workshop with Staff on May 17 to discuss prioritization criteria for electrical equipment; final recommendations due end of June
 - CMMS Replacement (Isle Utilities): Consultant presented technologies to Staff at virtual workshop June 12; Staff will work to narrow the list from 28 to 5 of interest for further consideration

OTHER

- a. Winter Storm Emergencies
 - Emergency Pump Station motor returned in June in the right configuration for hook up and is being installed by Staff; submersible pumps and generator rentals will remain in place until replacement motor is in place and functional
 - Staff submitted costs on December storm events to FEMA week of July 10
 - Staff met with FEMA on July 13 to discuss costs for March event
 - Staff working with consultant to prepare alternatives evaluation; expect draft by July 21
 - Staff continues to work with permitting agencies and consultant regarding Upper Truckee Marsh flood response; Lahontan is requiring a post-event permit application; Staff is continuing photo monitoring of beach breach
 - Bellevue pump hours continuously low; standby pump dismantled/returned week of July 10
 - Plant flows remain high (around 1 mgd higher than this time last year)
- b. Luther Pass Pump Replacements
 - Pump 2 still out with Flowserve for diagnosis and repair; Pumps Crew plans to move Pump 1 into Pump 2 position by mid-August to minimize vibrations
- c. Tahoe Keys Water System Assessment (Consultant: Kennedy Jenks)
 - Staff met with El Dorado Water Agency representatives on July 11 to review plans for next phase of technical assessment; EDWA has committed \$200,000 to the effort
 - Tahoe Keys Board will consider modifications to reimbursement agreement on July 19, increasing total reimbursement amount by \$150,000
 - Board will consider modifications to reimbursement on July 20
- d. Community Project Support and Interagency Coordination
 - County's bids came in high for waterline relocation on San Bernardino Ave project; Staff is working with County to assess scope of District responsibility and other funding options before proposing modifications to reimbursement agreement
- e. Contracts Administration and Engineering Processes
 - Staff is preparing to advertise by July 21 a Request for Qualifications for Corrosion Protection to develop a preferred consultants list
 - Staff has prepared MSA changes tracking tool and is reviewing requested changes to MSA for consultants approved for Environmental Consultants list
- f. WWTP Solar Project (Developer: Staten)
 - Liberty notified Staten July 12 that System Impact Study is complete and will schedule a review meeting for week of July 17
 - Staten planning to submit application to TRPA by July 14; anticipate up to 90 day review time
 - Staff is meeting bi-weekly with Staten; next scheduled meeting July 13
- g. Engineering Staffing:
 - Two interns have joined the Engineering Department for the summer
 - CAD Analyst position expected to re-post by July 14
 - Board elected to not consider Staff's request for funding to replace the office trailer behind admin and directed Staff to consider other options for office space
- h. Capital Improvement Planning:
 - Staff met July 12 for progress update on data collection priorities for the next Prop 218

of Monthly Reactive Work Orders



Total Hours on Reactive Work Orders

