



**TWSA BOARD MEETING
PACKET
For 06/02/2021**

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NOTICE OF MEETING:

The next regular meeting of the Tahoe Water Suppliers Association (TWSA) is:

**TWSA Board Meeting Quarter 2 – virtual via GO TO MEETING
Wed., June 2, 2021 - REVISED TIME 1:00 PM - 4:00 PM (PST)**

Please join my meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/135677229>

You can also dial in using your phone.

United States (Toll Free): [1 866 899 4679](tel:18668994679)

United States: [+1 \(571\) 317-3116](tel:+15713173116)

Access Code: 135-677-229

AGENDA

A. Introductions

B. Public Comment

Conducted in accordance with Nevada Revised Statute (NRS) Chapter 214.020; limited to a max. of 3 minutes in duration.

C. Presentations – none scheduled

D. Approval of Agenda for the June 2, 2021 TWSA Board Meeting

E. Approval of Minutes for the March 3, 2021 TWSA Board meeting

F. Reports

- a. **Staff Reports** (2021 Events, Special Projects)
- b. **Current budget** - see attached PDF and Excel spreadsheet in appointment (new expanded format report). Open Gov. link for current budget and expenses: <https://tinyurl.com/29z7bb65>
- c. **TWSA Chair Report** - Mutual Aid Agreement update

G. General Business (for possible action):

- a. Review of Annual Goals
- b. Discuss potential theme/event for TWSA's 20 year anniversary in 2022
- c. TKPOA Control Methods Test update
- d. Discussion on potential capital funding for 2022 AmeriCorps Dive Team
- e. COVID-19 operations roundtable discussion
- f. Ground water contamination and relationship to surface water in South Lake Tahoe
- g. Water Conservation & Efficiency / Drought Contingency

H. Purveyor Updates**I. Public Comment****J. Adjournment**

2021 TWSA Board Meetings – First Wednesdays, quarterly, held from 1 to 4 pm; virtual until further notice.

- September 1
- December 1

Upcoming Projects for Board Consideration Funding from Reserves

Discussion Item on this agenda:

2022 Tahoe Aquatic Weeds Control and Outreach Specialist (TAWCOS) AmeriCorps Team - \$20,000

(future discussion items):

WQTS CEQA - Anti-Degradation review \$20,000

Drink Tahoe Tap /2022 Tahoe Citizen Science App / Map Development \$5000

TWSA Board of Directors

Suzi Gibbons (Chair)	North Tahoe Public Utility District
Andrew Hickman	Round Hill General Improvement District
Richard Robilliard; Phil Ritger (alternate)	Douglas County Systems
Patrick McKay; Mike McKee (alt.)	Edgewood Water Company
Cameron McKay	Glenbrook Water Cooperative
Brad Underwood, Keith Rudd; Bob Lochridge (alt.)	Incline Village General Improvement District
Cameron McKay; Brandon Garden (alt.)	Kingsbury General Improvement District
Nakia Foskett	Lakeside Park Association
Kim Boyd; Tony Lalotis (alt.)	Tahoe City Public Utility District
Shelly Thomsen (Vice-chair); Lynn Nolan (alt.)	South Tahoe Public Utility District

For more information, please contact: Madonna Dunbar, TWSA Executive Director
1220 Sweetwater Road, Incline Village, Nevada 89451
(775) 832-1212 office / (775) 354-5086 cell /email: mod@ivgid.org

Certification of posting of agenda = Physical Posting Suspended - Covid-19 restrictions.

Online posting and email delivery of notice provided one week ahead of meeting.

In compliance with State of Nevada Executive Department, Declaration of Emergency Directive 006, 016 and 018, this meeting is closed to the public and attendance is limited to members of the Board of Trustees and essential staff. Public comment is allowed and the public is welcome to make their public comment either via e-mail (please send your comments to mod@ivgid.org by 5 p.m. on Tuesday, June 1, 2021) or via telephone (775-354-5086) on the day of the meeting. By, Madonna Dunbar, Executive Director, TWSA

Notes: Items on the agenda may be taken out of order; combined with other items; removed from the agenda; moved to the agenda of another meeting; moved to or from the Consent Calendar section; or may be voted on in a block. Items with a specific time designation will not be heard prior to the stated time, but may be heard later. Members of the public who are disabled and require special accommodations or assistance at the meeting are requested to call IVGID at 832-1212 at least 24 hours prior to the meeting. TWSA agenda packets are available at the TWSA website www.TahoeH2O.org or the TWSA office at 1220 Sweetwater Road, Incline Village, Nevada 89451.



**The regular meeting of the Tahoe Water Suppliers Association (TWSA) was held on
Wednesday, March 3, 2021, 1:00 pm to 3:30 pm
GoToMeeting web conference
Minutes**

A. Introduction of Guests

Kelli Nevills (NV Rural Water Association, Source Water Protection Specialist)

B. Public Comment Conducted in accordance with Nevada Revised Statute (NRS) Chapter 214.020 and limited to a maximum of 3 minutes in duration.

No public comment was given

C. Presentations

No presentations scheduled

Roll Call Members in Attendance: Suzi Gibbons (NTPUD), Keith Rudd (IVGID), Cameron McKay (KGID/Glenbrook), Brandon Garden (KGID), Kim Boyd (TCPUD), Andrew Hickman (RHGID), Shelly Thomsen (STPUD), Patrick McKay (Edgewood).

TWSA Staff in attendance: Madonna Dunbar and Sarah Vidra

Regulators: Reginald Lang (NDEP)

C. Approval of Agenda for the March 3, 2021, TWSA Board Meeting

Motion to approve agenda as submitted made by Shelly Thomsen, second by Cameron McKay, all in favor; motion carried.

D. Approval of Minutes for the December 2, 2020, TWSA Board meeting

Motion to approve minutes from December 2, 2020, as submitted made by Shelly Thomsen, second by Kim Boyd, all in favor; motion carried.

F. Reports

a. **Staff Reports** (Outreach, 2021 Events, Special Projects)

- Annual reports were submitted to regulators and members in December 2020. Staff will be editing the narrative content to streamline the information provided. Please provide any comments or content requests to staff by the June TWSA Board meeting.
- Staff highlighted several activities from the quarter; a full activity report is available in the Board Packet.
- *NDEP 319 (h) Pilot Project to Reduce Source Water Plastic Pollution at Lake Tahoe* is moving forward. The *Tahoe In Depth* article provided in the board packet provides information on the collaborative project.

b. **Snapshot Day Agency Participation**

Request for TWSA members to volunteer to sample a Lake Tahoe tributary within their district Saturday, May 15, 2021.

- c. **Current budget** - see attached and Open Gov. link for current budget and expenses.
 - i FY19-20 current operating Balance \$71K.
 - ii The current reserve budget is \$167K.
- d. **TWSA Chair Report**
 KGID representative Cameron McKay will be retiring from KGID. The Chair thanked him for his participation as a founding member of the organization. Cameron will still represent Glenbrook on the TWSA board and continue to work with NV and National Rural Water Organizations and will remain on the AIS subcommittee.

G. General Business (for possible action):

- a. TWSA Proposed Budget for 2021-22
 Staff provided the board with a proposed budget for FY 21-22, which does not include any reserve line item. The IVGID accounting department would like to limit the growth of the TWSA reserve budget under \$200K. Any annual budget remaining will roll into the reserve.
 Recommendations for future budget reporting
 - Current budget with labor costs and line items.
 - Tracking grant expenditures and reimbursements.
 Motion to approve the 2021-2022 TWSA budget as presented, made by Cameron McKay, second by Kim Boyd, all in favor, motion carried.
- b. TKPOA Control Methods Test update
 Open forum, no action taken.
 Updated TKPOA CMT timeline:
 1. APAP and Monitoring plan
 - a. Peer-reviewed by the CA State WRCB (30-Day)
 2. Draft NPDES and Antidegradation analysis
 - a. Federal EPA Review (30-Day) summer 2021
 3. Public Document Release of the APAP, NPDES with Antidegradation analysis, Final EIR/EIS.
 - a. (30-Day min/ 60-Day max)
 4. Lahontan RWQCB Public Hearing for project exemption adoption November 2021.
 *The TWSA will not have access to the documents until the public release date.
 - Summer 2021 non-chemical methods, including enhanced LFA and 8 acres of UV-C treatment within the Tahoe Keys Lagoons.
 - TWSA Staff facilitated the submission of a Department of Pesticide Regulation (DPR) grant for a multi-year non-chemical method program to treat Aquatic Invasive Weeds and/or Harmful Algae Blooms. DPR is interested in funding processes that can be implemented in freshwater lakes through the State of CA.

- The TRPA is asking, “What is it going to take for the TWSA to change their current position?”

The Executive Director communicated to TRPA staff that all members take direction from their individual community boards. Regulators should provide project fact sheets for distribution to stakeholders basin-wide. The ED also reminded TRPA staff that the TWSA and fellow stakeholders went into the process knowing that the TWSA board would not be comfortable with the potential use of herbicides.

- TRPA staff wants to know if the information provided is enough to change the official TWSA stance that:

“The TWSA cannot support the application of aquatic herbicides until all non-chemical methods have been fully vetted.”

The Executive Direction provided TRPA staff the possible outcome if the TWSA disagrees with the process's outcome. We will not be taking legal action, only stating our disagreement with the use of herbicide, except as a last resort. The TWSA will acknowledge our involvement and thoroughness of the process through collaboration, and the project's evolution focuses on overall water quality.

- The TWSA September meeting will have the decision to change or keep the current board stance. Current known implications of maintaining the stance:
 - Non-chemical methods have not been fully vetted.
 - The information provided in the EIR/EIS and presentations has not changed the stance of the board.
 - The board will need to provide WHY the stance is not changing with concrete reasoning “no, because.”
 - The TKPOA CMT EIR/EIS states that there is no significant impact on water utilities due to Lake Tahoe's dilution factor. Is dilution enough of mitigation?

Board discussion highlights:

- Regulators are trying to pigeonhole the board into an agreement. The TRPA would like a unified front, doesn't mean we have to give it to them.
- A decision on a change of stance can't be made until the complete set of information is provided.
- The official TWSA stance would need to be voted on by the TWSA board to change
- Will the new information be enough to change the stance of the board?
- The goal of the TWSAs involvement is to ask the hard questions of the regulators.
- The TWSA has voted to allow the AIS subcommittee to act for the board. The group will distill the new information provided by the TKPOA and Regulators and propose any change of stance as required.

c. COVID-19 operations roundtable discussion

Verbal updates were provided, no action was taken. TWSA member strategies combined: essential employee separation, social distancing, restricted access to buildings, PPE, communication.

NTPUD – NTPUD is a critical utility with Placer County, the first round of vaccines the week of March 8, 2021, through the Tahoe Forest Health System. The office remains closed to the public but available by appointment. Staff continues to stagger schedules and work remotely if available. STPUD requests the information provided by Placer County. NTPUD did a rate increase on July 1, 2020. The sewer rate relief program continues.

TCPUD – The TCPUD offices are closed to the public, staggered shifts, additional vehicles for staff separations. Customer sewer relief program for 50% for commercial customers, and all customers have suspended late fees and penalties. Did enact the rate increase for the 2021 budget.

STPUD – The office is not open to the public, staff during 3-12. The office staff is working remotely. Late fees for customers have been delayed, COVID rate relief program for 50% off sewer. What are the other districts doing with rate increases?
LPA – Staggered staffing. Vaccination for staff is still unknown for Eldorado County.

Edgewood – Normal operations.

KGID – No changes. In NV, all water/sewer utility works have been deemed, critical essential workers. KGID staff has not had luck getting vaccinated or on a list. The office is open to the public. The District was contacted by Friends in Service Helping (FISH); they have received a grant to help people pay their water and sewer bills. If NV members are interested in information, contact Cam.

RHGID – Normal operations.

Douglas County – No update provided.

Glenbrook – No update provided.

IVGID – The IVGID Public Works team has received their second vaccination for members who wanted to be vaccinated. Through their mutual aid agreement, the IVGID Safety Specialist worked with North Tahoe Fire Protection District to procure vaccinations through the Washoe County Health Department. It is the recommendation of IVGID to stagger vaccinations due to low attendance following vaccination. The IVGID board did not approve a rate increase for 2020-2021.

NDEP – Offices are closed to the public, but you can make an appointment. NDEP staff is still working remotely. NDEP is finalizing a field inspection policy. 2020 sanitary surveys were done virtually.

NV Rural Water – operating as usual.

H. Purveyor Updates

KGID – Rates will not be increasing; in 2023, one of the districts state revolving fund debt service will be removed. The District is working with NDEP on approval of a chlorine generation system.

Glenbrook – no projects scheduled for the 2021 construction season.

Edgewood – NHL used Edgewood water for Ice and Snow production. No project updates at this time.

TCPUD – the West Lake Tahoe Regional Water Treatment Plant is out to bid. The District is finalizing its SRF loan and planning to start work on the project in summer 2021. TCPUD has completed master plans for Tahoe Cedars in Tahoma and Madden Creek in Homewood to identify and prioritize future projects.

LPA – LPA is working with their new Asset Management program with interactive mapping. LPA is working on capital planning for the Azure Ave mainline replacement going out to bid in spring/summer 2021.

RHGID – the chlorine generation unit is fully online and paired with the SCADA system.

IVGID- IVGID has hired a new PW director and Engineer. The IVGID board has hired an outside consulting firm to do an efficiency study of the public works department; staff has been busy providing input. The district is working with Far West Engineering to submit the required American Water Infrastructure Act of 2018 Risk and Resilience Assessment for June 2021. Rate increases are on hold until the recommendation from the efficiency consultant.

STPUD – TKPOA is dealing with naturally occurring Uranium above the MCL at all three of their wells, in addition to the PCE. The District is working with them on the possible use of interties as well as Lukins. The TKPOA 10x summer water demand increase due to unmetered homes and landscape irrigation limitations is a stress on the STPUD system to supply water to TKPOA due to closed district wells (5) in the Y-area for PCE and MTBE. District engineers are working on water modeling the STPUD system for possible solutions for providing water to the TKPOA.

NTPUD – The District has hired a new PIO, and will be working with TWSA on Drink Tahoe Tap messaging. With the AWIA regulation, NTPUD is working on updating their 2001 Emergency Response Plan and working on a hazard mitigation plan update with Placer County. The district will be installing a water fill station at the North Tahoe Regional Park with a TWSA grant. NTPUD is working through Cal-Trans easements for capital improvement projects.

I. Public Comment

No public comment was given.

J. Adjournment

Motion to adjourn made by Cameron McKay, second by Andrew Hickman, all in favor motion passes Meeting Adjourned at 3:27 pm.

MEMORANDUM

TO: Suzi Gibbons, TWSA Chair
 CC: TWSA Board
 FROM: Madonna Dunbar, IVGID Resource Conservationist
 SUBJECT: TWSA Program Highlights – Q2 (April-June 2021)
 DATE: May 19, 2021

TWSA / Water Quality / Water Efficiency:

TWSA staff presented information on the Drink Tahoe Tap Water Refill Network and Tahoe micro-plastics reduction projects (research and outreach) to national, regional and local attendees at the “Tahoe-Truckee Green Lodging Workshop” offered virtually on May 11& 12, 2021. This workshop was part of the EPA supported regional (CA and NV) green business program launch in 2020-21. Two ½ day virtual workshops were held and recording is available. Details at:

<http://events.r20.constantcontact.com/register/event?oeidk=a07egxm57980f480962&llr=vmo4gyuab>

Staff developed and participated in regional on-line Earth Day week activities. Hosted at www.TahoeCare.org, a variety of online resources, pollution prevention and waste reduction tips, green challenges and a Spring Cleanup litter collection contest were offered.

Staff has been engaged in the collaborative workgroup for planning for the 2021 Tahoe Truckee Snapshot Day event. The event was held on Saturday, May 15, 2021. Despite a second year of COVID restrictions, limited number of volunteer teams and agency staff went out into the entire watershed and collected water quality information. This effort helped maintain the long term data sets for this citizen science event which celebrated its 21st anniversary this year. IVGID staff coordinated with the Lahontan RWQCB Laboratory and South Tahoe PUD to provide water quality analysis. Materials are posted at <http://tahoetruckeesnapshotday.org>

Staff continues to monitor the monthly TRPA Shorezone Project Review Committee Project Application Meetings.

A Drink Tahoe Tap ad is running year-round in the Tahoe.com regional print publication.

Micro-Plastics Reduction Education Project

Staff is managing the reporting requirements for the NDEP 319h Source Water Protection Microplastics Education and Reduction) Grant. <https://www.epa.gov/newsreleases/us-epa-awards-nearly-100000-address-microplastic-pollution-lake-tahoe>

The micro-plastics reduction education project is quite active, this month’s highlights include a new Exhibition slated to open in June at the TERC Center in Incline Village, Nevada.

<https://tahoe.ucdavis.edu/microplastics>

Project Coordinators:

- Heather Segale & Elise Matera, UC Davis TERC
- Ashley Phillips & Missy Mohler, SWEP
- Madonna Dunbar, IVGID/TWSA
- Sarah England, Raley's

Student Groups:

- Envirovolution Club, North Tahoe High School
- Envirovolution Club, Truckee High School
- Roots & Shoots Club, Incline High School
- Generation Green, South Tahoe High School



New Micro-Plastics Education Exhibit at the Tahoe Environmental Research Center - opening June 2021

Also in April, Local high school students from the North Tahoe/Truckee 'Envirovolution' Club were able to secure commitments from Raley's CEO to reduce plastic waste in effort to solve Lake Tahoe's micro-plastics problem. See press release at end of document.

School Programs:

Most (on-site) student activities are on hold due to Covid-19 crisis. We continue to collaborate with the Tahoe Environmental Research Center (TERC) and Sierra Watershed Education Partnership (SWEP) to support regional peer student on-line education efforts.

In April, 2021, more than 1000 South Tahoe students received economy Drink Tahoe Tap refillable water containers as part of South Tahoe Environmental Education Coalition (STEEC's) Earth Week efforts. (4 schools – all K-5 students). Distribution was coordinated through South Tahoe PUD.

Aquatic Invasive Species (AIS):

Staff continues to attend the multi-agency Stakeholder Circle planning meetings on the Tahoe Keys Property Owners Association (TKPOA) Control Methods Test project. This test (seeking approval for the potential use of herbicides) has been a major focus for staff, and is projected for decision making (by Lahontan Water Board) in late 2021.

TWSA staff's suggestion of bubble curtains for the Tahoe Keys channels is being further implemented. First tested in 2018, to restrict the drifting of AIS plant fragments out of the marinas, this technology is now deployed in both the west and east channels, with the addition of the east channel curtain in April 2021. The League also plans to add another curtain to the already existing one on the west channel of the Tahoe Keys with hopes that the double bubble curtain will be twice as effective.

<https://www.sierrasun.com/news/tiny-bubbles-saving-lake-tahoe-from-invasive-weeds/>

*Bubble Curtain at
TKPOA West
Channel*



Elk Point Marina also installed a bubble curtain for fragment control.

<https://carsonnow.org/story/05/16/2021/bubble-curtain-lake-tahoes-elk-point-protects-against-aquatic-weeds?page=1>



Elk Point Marina bubble curtain for fragment control.

Several Stakeholder Circle partners (TWSA, League to Save Lake Tahoe, Tahoe RCD) continue to discuss a potential AmeriCorps team for aquatic weeds manual control in 2022. This project would put together a staffed team of 6 AmeriCorps members who are trained in underwater hand removal methods. The divers would concentrate on hand pulling and diver suction AIS removal for shoreline areas in South Lake Tahoe areas scheduled for hand removal treatment. Several meetings have been held with stakeholders to discuss this and share other potential grant resources. A proposal is being drafted where the League to Save Lake Tahoe (League) and Tahoe RCD would host six half-year positions (22.5 weeks/900 hours per position) as part of the Sierra Nevada Alliance Partnership (SNAP) summer/fall ‘Serve the Sierra’ AmeriCorps 2022 program. Details provided later in the Board Packet; agenda discussion item.

TWSA public comment letters on the Control Methods Test are posted at:

1) TAHOE KEYS CONTROLS METHODS TEST environmental review documents (CEQA/NEPA)

https://www.trpa.org/wp-content/uploads/Tahoe-Keys_DRAFT-EIR-EIS.pdf

and

2) LAKE-WIDE CONTROL OF AQUATIC INVASIVE PLANTS PROJECT LAKE TAHOE, CALIFORNIA AND NEVADA

https://tahoercd.org/wp-content/uploads/2020/08/TRCD_Lakewide_Control_of_AIP_IS_IEC_EA.pdf

3) A comprehensive summary document on the current status of the TKPOA application and review process. This is posted at: https://www.yourtahoepace.com/uploads/pdf-public-works/TKPOA_CMT_TWSA_Staff_Summary_11232020.pdf

Website for current information is: <https://tahoekeysweds.org>.

Staff is monitoring the ongoing situation with uranium detection in the Tahoe Keys municipal wells.

https://www.tahodailytribune.com/news/tahoe-keys-association-addresses-uranium-in-water/?fbclid=IwAR2BEJ2JRVj0tDwh6Qig2-Waub3Vtx3ewdDhuRvoRx_P3FTTpb5qf0H53cA

TWSA Programs:

Staff participated in the development of an extensive article on the Impacts of Dog Waste on Water Quality, published in Moonshine Ink in April 2021:

<https://www.moonshineink.com/tahoe-news/clash-of-the-leashes>

Staff offered a presentation and moderated a panel at the Tahoe Truckee Green Lodging Workshop. The panel is the “Customer Experiences to Engage Stewardship” session, scheduled for May 12, 9 am – noon. Drink Tahoe Tap, Bottle Fill Station Grant Program, Impacts of Plastics at Lake Tahoe and Single Use Plastics Reduction Strategies were the TWSA topics. Details at:

<https://nvgreenbusiness.org/event/tahoe-truckee-green-lodging-workshop>

The 11,000 unit, Drink Tahoe Tap custom bottle order (production sponsored by Raley’s and Klean Kanteen) was finally received by Raley’s, after months of delay in production and shipping. The Raley’s stores are enhancing the Drink Tahoe Tap water bottle displays in 7 area stores. There are more stores to be added in anticipation of summer season (up to 80 stores).

Staff coordinated a bulk purchase (2046 bottles) of the Drink Tahoe Tap / Take Care / Raley’s / Klean Kanteen custom water bottles. These bottles are partially funded from the NDEP 319h Micro-plastics grant, and will be used for incentives for volunteers for cleanups and source water protection activities, not general distribution. These are being used for long-term volunteer awards, partnership programs and selected high profile media placement. (Celebrity Golf Tournament 2021).

Raley’s has pledged a \$50,000 donation in 2021 to the Tahoe Fund. The Take Care micro-plastics working group is meeting to discuss use of this fund. Raley’s has requested these funds further support the Water Bottle Filling Station Grant Program and Take Care / TERC micro-plastics reduction program.

The TWSA/Tahoe Fund Water Bottle Filling Station Grant Program has become active again with easing of COVID restrictions for businesses. To date, 13 grants have been issued (\$8,000) with 10 applications active. Remaining funds = \$12,000. Media coverage: <https://www.kolotv.com/content/news/Tahoe-business-owners-could-add-water-refill-station-inside-stores--525119571.html>

We are collaborating with the League to Save Lake Tahoe on ways to expand the water fill station map and locations.



Custom DRINK TAHOE TAP Klean Kanteen bottles displayed in Raley's stores .

The water fill station map/app (TAP APP) has been altered by the host site, so staff are engaged in developing a regional app within the Tahoe Citizen Science App; and/or transferring to the global platform <https://closca.com/pages/closca-water-app> .

48 fill station locations are presently logged on the apps. We are working with TERC on Tahoe Tap fill station information being included in the 2022 Citizen Science App.

Mobile water stations loan program for special events was stopped in 2020 due to Covid-19 crisis. Limited use of the mobile stations is returning summer 2021, with a requirement that the water fill stations have a dedicated volunteer to monitor and sanitize the stations.

Staff has prepared a BMP factsheet of enhanced sanitation practices for fill station maintenance. Staff attends the bi-weekly Tahoe Care Marketing and Outreach meetings. The Micro-plastics Education and Drink Tahoe Tap Water Projects are key Take Care Partner messages. TWSA/Waste Not messages remain active in the Take Care messaging pool. <https://takecaretahoe.org>

The 'Cigarette Bin Collection Project' initiated between TWSA, League to Save Lake Tahoe and Keep America Beautiful (KAB) began region-wide bin distribution/installation in June 2019. More than 125 bins are installed now in the Basin. More than 8,000 butts have been recorded for collection (this is from a portion of the distributed containers). KAB has provided 250 metal cigarette filter collection bins to IVGID Waste Not (for TWSA) for distribution and use within the Tahoe Basin. Project is ongoing.

The 2020 TWSA Annual Watershed Control Program Annual Report is posted online at: [https://www.yourtahoepace.com/uploads/pdf-public-works/CORRECTED_-_2020_TWSA_Annual_Report_\(NO_MAPS\)_-smaller_size.pdf](https://www.yourtahoepace.com/uploads/pdf-public-works/CORRECTED_-_2020_TWSA_Annual_Report_(NO_MAPS)_-smaller_size.pdf)

Professional Development/Other:

Volunteer Hours = 69.50 / Earth Day Tahoe Blue Crew Community Cleanup












Staff participated in a “Tahoe Community Based Social Marketing Professional Workshop” hosted by TRPA and the Tahoe Care Partnership. The four-part series is facilitated by Conservation Science Partners, Inc. The goal is to use social science to refine Take Care outreach messaging to create better behavior change. CBSM builds behavior chains for each focal behavior, after identifying key barriers and benefits to promote for each focal behavior. This training series is being offered from funds raised with the Tahoe 50th anniversary commemorative coin.

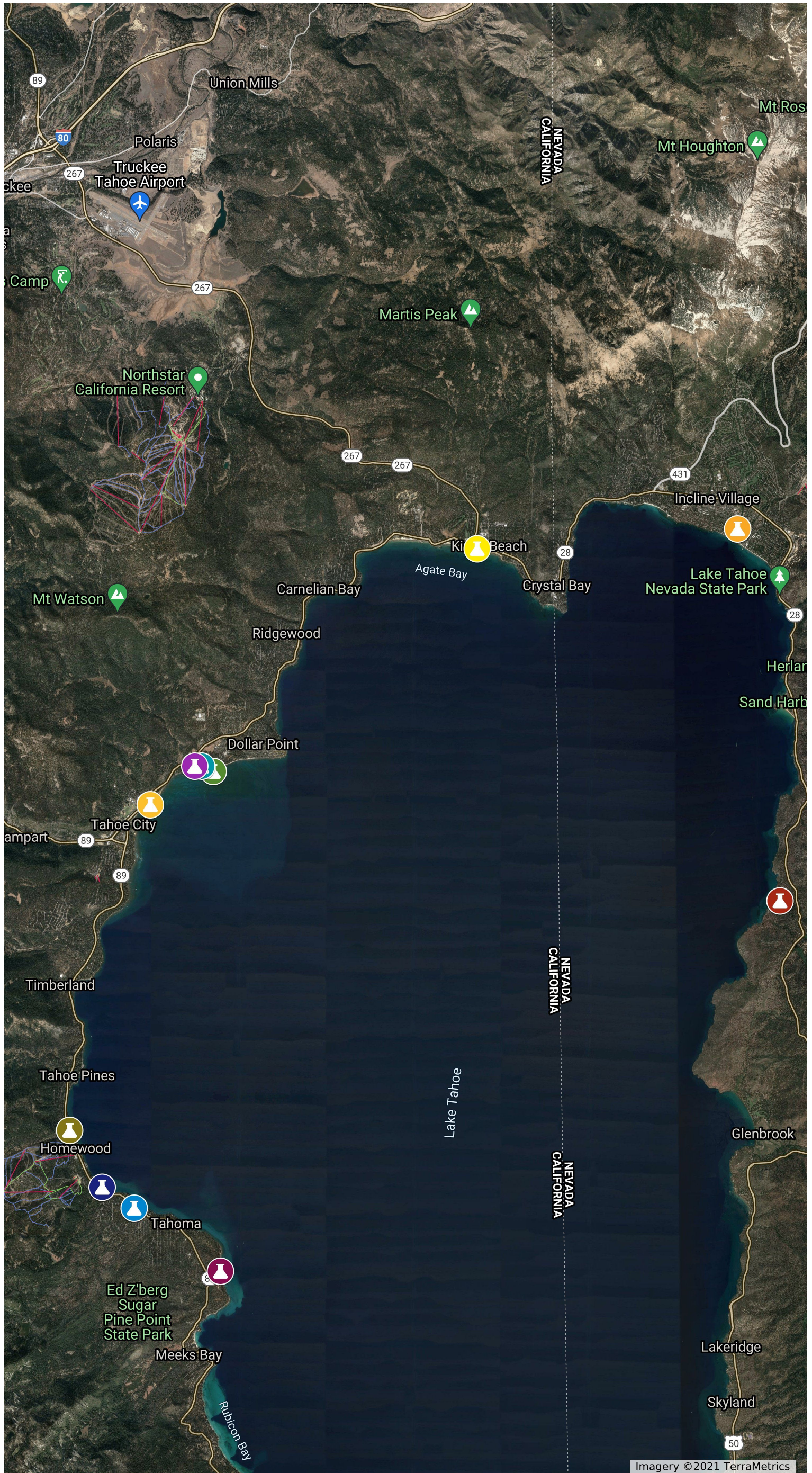
Staff attended the *Managing and Addressing Plastic Pollution* Webinar. This webcast presented findings from Pew’s Breaking the Plastic Wave report and discussed the Break Free from Plastic Pollution Act, the Interagency Marine Debris Coordinating Committee, NOAA’s Marine Debris Program, and EPA’s Trash Free Waters Program. Speakers discussed current and anticipated federal strategies to address plastic pollution and the future focus on freshwater plastic pollution management.

Staff has been attending the *Water Smart Innovations Spring Webinar Series*. The series features national case studies of water efficiency programs.

2021 North Lake Tahoe Snapshot Day

2021 North Lake Tahoe Snapshot Day

-  NLT-RSWD-01 (Rosewood Creek)
-  NLT-GRIF-00 (Griff Creek)
-  NLT-LKFC-00 (Lake Forest Creek)
-  NLT-STAR-01 (Star Creek)
-  NLT-BRTN-01 (Burton Creek)
-  NLT-TCUD-00 (Tahoe City Urban Ditch)
-  NLT-MADC-00 (Madden Creek)
-  NLT-QULC-00 (Quail Creek)
-  NLT-MKNY-01 (McKinney Creek)
-  NLT-GENR-00 (General Creek)
-  NLT-SCRT-00 (Secret Harbor Creek)



Recent Press Spring 2021

Students Make Strides in Effort to Reduce Local Plastic Pollution

Posted by [UC Davis Tahoe Environmental Research Center](#)



<https://takecaretahoe.org/success-stories/students-make-strides-in-effort-to-reduce-local-plastic-pollution/>

<https://www.tahodailytribune.com/news/tahoe-students-address-plastic-problem-inspire-change-in-raley/>

Lake Tahoe has big problems that are in small plastic pieces. To support efforts to reduce plastic waste, students from environmental clubs at four high schools in the region partnered with staff from local nonprofits to learn about plastic reduction programs and how they can help Take Care of Lake Tahoe. On Earth Day 2021 their efforts, which began in the fall of 2019, came to fruition when the CEO of Raley's agreed to create lasting, sustainable changes at their stores.

When the initiative began in 2019, students from North Tahoe High School, Truckee High School, Incline High School and South Tahoe High School learned about the prolific microplastics problem impacting Lake

Tahoe from UC Davis Tahoe Environmental Research Center (TERC) AmeriCorps member Elise Matera and staff members at Sierra Watershed Education Partnerships (SWEP) and the Tahoe Water Suppliers Association (TWSA).

They learned that when plastic items are not properly disposed of—from single-use water bottles, sleds, and other items—they break down into tiny toxic pieces that contaminate Lake Tahoe’s pristine waters and beaches. The students were quickly brought up to speed on the microplastics crisis, the types of plastic, problems with recycling effectiveness, and sorting plastics into macro-, micro-, and nano-plastics.

The North Tahoe and Truckee Envirolution Club members were inspired to make a difference and formed a plastics sub-committee to assess which of these problems could be solved. With coaching by members of the plastic reduction collaboration (funded by a Nevada Division of Environmental Protection grant), the students surveyed their local Raley’s stores to come up with a list of all the ways plastic waste could be reduced. The group also participated in several collaborations with the Raley’s team facilitated by TERC and SWEP, and developed a four-part action plan for Raley’s executive team to consider how they could reduce plastic waste locally.

The students presented their findings to the Raley’s executive team on Earth Day 2021 and highlighted three areas for improvement: plastic water bottles, plastic grocery bags, and plastic sleds and other toys that break apart easily. Other suggestions the team made included moving away from distribution of straws, plastic to-go ware, and plastic souvenirs.

Inspired by the presentation, Raley’s President and CEO Keith Knopf said, “We appreciate the students’ hard work and dedication to reduce microplastics and their thoughtful solutions for Raley’s to consider.” He continued, “We commit to several changes; eliminate plastic straws, switching to paper and reusable options; eliminate single use plastic silverware and switch to a compostable solution. We are proud to offer real silverware and plate options for people who purchase food to be consumed in our Truckee store.”

Knopf also said his team would look into an email receipt system, implementing a refill station in the plastic water bottle aisle, and that it would explore options to reduce plastic grocery bag use—perhaps by offering reusable totes for their loyalty members. The company will also look into alternatives to plastic sleds, toys, and souvenirs.

“We appreciate the work Raley’s has done to implement sustainability initiatives in their stores and business model,” said Envirolution Club president Ben Anderson. “The Raley’s executive team is composed of environmentally-minded leaders committed to our community and local environment, and we are grateful to have the opportunity to work with them now and in the future.”

“The students and the Plastic Reduction project staff ended the meeting uplifted that change and progress is possible,” said Heather Segale, Education and Outreach Director for the UC Davis Tahoe Environmental Research Center. “The problem is big, but solutions can be found through collaboration, communication, and by caring enough to put the right groups together. We want to thank Raley’s for their commitment to our local community and for their willingness to spend time with students and take the lead to make these changes.”

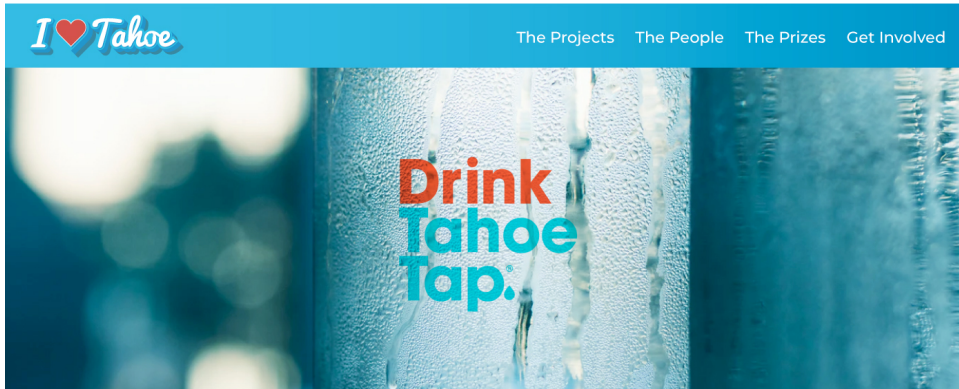
Learn more about the microplastics problem at Lake Tahoe at
<https://storymaps.arcgis.com/stories/0a2ceba61c47470e8e18566268f9bfcf>

Learn more about the microplastics problem at Lake Tahoe at
<https://storymaps.arcgis.com/stories/0a2ceba61c47470e8e18566268f9bfcf>.

Press Contact:

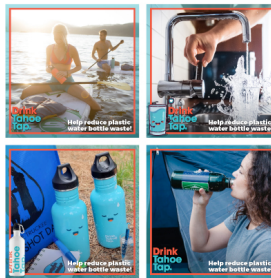
Heather Segale, UC Davis Tahoe Environmental Research Center
hmsgale@ucdavis.edu or (530) 906-9100

Raley's/Tahoe Fund Collaboration for bottle filling station fundraising launch summer 2021



Upload a photo of you drinking Tahoe Tap water. Then, share your photo to unlock a \$10 donation from Raley's to install filling stations in the Tahoe area to help reduce plastic water bottle use (and waste).

 [UPLOAD A PHOTO](#)



Your Boost will help install more water filling stations and reduce plastic water bottle waste in Tahoe.

Click any photo below and you'll get 10 entries to win prizes for every \$1 you give.



The Tahoe Fund has partnered with Raley's who will make a \$10 donation for every photo shared up to \$10,000. Together, our photos can help reduce plastic water bottle waste in Tahoe!

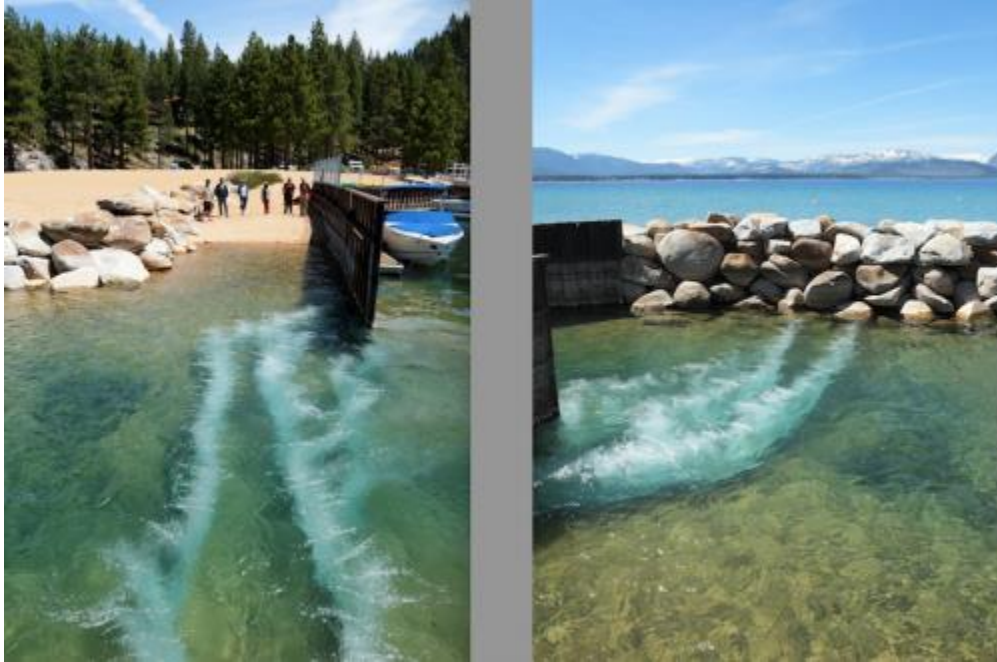


Want to help promote the campaign? - [Let's Chat!](#)

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Bubble curtain at Lake Tahoe's Elk Point protects against aquatic weeds



<https://carsonnow.org/story/05/16/2021/bubble-curtain-lake-tahoes-elk-point-protects-against-aquatic-weeds?page=1>

ZEPHYR COVE, Lake Tahoe — When Charles Jennings moved to Elk Point four years ago, he noticed thick green and brown plants dominating the bottom of the marina. The plants were knocked back last fall but could possibly return. A new, innovative bubble curtain installed across the marina entrance earlier this month is making the possibility of another weed infestation less likely.

The Tahoe Resource Conservation District and Marine Taxonomic Services made the initial treatment in the marina last year by installing underwater mats called bottom barriers, which starve the invasive weeds of sunlight. But the initial treatment does not guarantee the plants won't return.

“The main goal of the Elk Point Marina bubble curtain is to keep aquatic invasive species plant fragments from entering the marina where they could establish new plant infestations, and to collect and dispose of the plant fragments,” said Charles Jennings, vice president of the Elk Point Country Club Homeowners Association.

The homeowners association, Tahoe Regional Planning Agency (TRPA), the Tahoe Fund, and the League to Save Lake Tahoe partnered to fund a bubble curtain across the marina entrance to keep invasive plant fragments from reestablishing in the marina. Perforated air hose lines on the bottom of the channel create walls of bubbles that help slow plant fragments from entering the treated area. Unlike the bubble curtains in the channels of the Tahoe Keys, this bubble curtain works in reverse, to keep plant fragments out, rather than in.

“We are excited to partner on this innovative new use of a bubble curtain to keep aquatic invasive plants out of the marina,” said Amy Berry, Tahoe Fund CEO. “Aquatic invasive species are one of the great challenges the lake faces, and it is going to take all of us working together on new solutions.”

Aquatic invasive weeds such as Eurasian watermilfoil are not native to Tahoe and without a natural check to their growth, the weeds quickly colonize and outcompete native species. Watercraft can spread aquatic weeds around the lake from fragments tangled on their propellers and anchors, resulting in new infestations that are expensive and difficult to treat.

“It’s a constant battle to control and treat aquatic weeds,” said Dennis Zabaglo, TRPA aquatic resources program manager. “Fortunately, we collaborate with many public and private partner organizations like Elk Point Country Club to implement the best emerging technologies to protect the lake.”

The addition of the bubble curtain at Elk Point is an example of the technology’s multiple uses to protect and restore Lake Tahoe. The jointly funded bubble curtain is a way to protect collaborative investments in past successful AIS treatments.

“Our three years of experience with the bubble curtain pilot program in the Tahoe Keys have proven this innovative technology is an important ingredient in tackling the most dire ecological threat to Lake Tahoe,” said Jesse Patterson, chief strategy officer for the League to Save Lake Tahoe. “We’re proud to build on that success by working with the folks at Elk Point, TRPA and the Tahoe Fund to put aquatic invasive species in check and Keep Tahoe Blue.”

The multi-agency Lake Tahoe Aquatic Invasive Species action agenda calls for continuation of the comprehensive watercraft inspection program to protect the lakes of the region from new AIS, and a control program to tackle invasives that were introduced before watercraft inspections began in 2008. Since the start of mandatory inspections at Tahoe, no new AIS have been detected in the basin.

The Lake Tahoe Aquatic Invasive Species Program is implemented by 40 public and private partner organizations, including federal, state, and local jurisdictions, research partners, public utility districts, and private marinas. The Tahoe Regional Planning Agency and the Tahoe Resource Conservation District lead the program in collaboration with the public and private partners. The program’s mission is to prevent, detect, and control aquatic invasive species in the Region so

TAHOE TRUCKEE GREEN LODGING WORKSHOP

FOR SMALL TO MEDIUM HOTELS AND THE HOSPITALITY INDUSTRY

Tuesday, May 11 and Wednesday, May 12, 2021
9 AM to 12 PM daily
Virtual (via Zoom)

The Sierra Green Business Network and the Nevada Green Business Network invite you to learn how to become a Certified Green Business, save on waste and energy costs, and attract eco-conscious customers.

Workshop Schedule

Day 1

9:00 – 9:15

Welcome; Introduction to CA and NV Green Business Programs

9:15 – 9:30

The Importance of Hospitality in Climate Action

9:35 – 10:45

Panel #1: Food Waste Diversion For Hospitality

10:50– 11:50

Panel #2: Moving Forward with Sustainable Transportation

11:50– 12:00

Granlibakken Case Study by Ron Parson

Day 2

9:00 – 9:15

Day 1 Recap and Plenary Discussion

9:15 – 10:30

Panel #3: Customer Experiences to Engage Stewardship

10:30 – 11:45

Panel #4: Green Business Certification for Lodging

11:45 – 12:00

Day 2 Plenary

To register: <https://tinyurl.com/TahoeGreenLodging>

Moderators and Facilitators



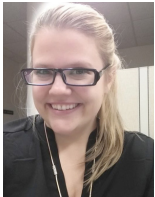
Donna Walden | President of greenUP!
Moderator and Event Organizer

Donna Walden partnered with Western Nevada College to secure federal funding for the Nevada Green Business Program. Previously, Donna managed the Western Sustainability and Pollution Prevention Network program for EPA Region 9.



Sandra Carroll | Vice President of greenUP!
Event Co-organizer

Dr. Sandra Carroll is an environmental scientist with advanced training and experience in environmental toxicology, human health and ecological risk assessment, environmental studies, air quality analysis, and chemical accident prevention programs.



Cassie Carroll | GBENN
Facilitator

Cassie Carroll is on the greenUP! Board and serves as the coordinator of the Green Business Engagement National Network (GBENN). Cassie has previously served as the Executive Director of the Illinois Green Business Association (IGBA).

THE IMPORTANCE OF HOSPITALITY IN CLIMATE ACTION 9:15 AM – 9:30 AM

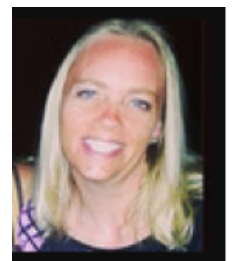


**Jeff Scott | Director of Land Chemicals and Redevelopment Division
Environmental Protection Agency Region 9**

Throughout his now 35+ year career at EPA, Jeff Scott served in several senior executive and management positions, both in Headquarters and Region 9. Jeff grew up in the southern California city of Redlands. He received his master's degree in Public Policy from the University of California at Berkeley. He graduated Phi Beta Kappa and Cum Laude from the University of California Irvine with a bachelor's degrees in both Economics and Social Ecology.

**Angela Hendrichsen Sandoval, P.E. / Section Manager, Zero Waste
U.S. Environmental Protection Agency Region 9**

Angela manages the Zero Waste Section in the Land, Chemicals, and Redevelopment Division at EPA Region 9. This office focuses on Pollution Prevention, Sustainable Materials Management, Tribal Solid Waste and Municipal Solid Waste Landfills. Angela has been with the Agency for over 5 years and worked in Superfund and RCRA prior to coming to the Zero Waste office.





Cody Witt | Strategic Everything, Full Circle Soils & Compost



Cody Witt helps manage and operate Full Circle Soil & Compost in Carson City, Nevada. His title, “Strategic Everything,” pays homage to his ability to manage the majority of the business operations at Full Circle from the smallest product sale to large project administration. He also creates “Full Circle” environmental networks where partners help to establish a fully sustainable community of suppliers and producers through organic materials recycling, soil fertility program implementation, sustainable food and medicine production, and education. Cody Witt is a fifth generation Nevada farmer who completed his MBA and multiple undergraduate degrees from the University of Nevada, Reno.

Jeanette Tillman | Sustainability Administrator, South Tahoe Refuse

Why Divert Food Waste? Jeanette will give a brief overview of current regulations specific to California/Lake Tahoe, and discuss the effects of food waste in landfills. She will highlight EPA’s Food Recovery Hierarchy as a model for handling of food waste.



Jeanette Tillman is the Sustainability Administrator at South Tahoe Refuse & Recycling where she leads development/implementation of current, best practices, geared toward responsible solid waste management and disposal. Jeanette holds her Bachelor of Arts in Law, as well as a current Sustainability Program Management Certification from San Jose State.

Erica Mertens | Recycling Program Manager, Town of Truckee

**How To Divert Food Waste: Where do we start?
What can be sent to composting?
How do you get the kitchen staff to buy-into your sustainability program?**



Ryan Collins | Operations Analyst, Tahoe Truckee Sierra Disposal

Best Practices To Avoid Pitfalls: from a hospitality perspective, frequent staffing turnover, wild-life intrusion and items marketed as compostable, are a few of the many issues that challenge successful execution of a food waste program in our area.



Ryan Collins is an integral part of the Tahoe Truckee Sierra Disposal team, working closely with Route Operations while also assisting the processing side. Having grown up in Tahoe City, Ryan has a full understanding of the area’s unique environment. Ryan holds a Bachelor’s degree from UC-Berkeley and also completed a specialized master’s program at the University of Oxford. Ryan is consistently improving collection programs, including food waste. Ryan’s diverse breadth within various departments at TTSD has escalated efficiencies and facilitated program successes.

Kira Smith | Associate Transportation Planner
Tahoe Regional Planning Agency

Commute Tahoe: Encourage Your Employees to Walk, Bike,
Carpool, and Use Transit



As an Associate Transportation Planner for the Tahoe Regional Planning Agency, Kira Smith supports transportation programs and plans that advance transit, active transportation, and emerging mobility initiatives for the Lake Tahoe Region. Since joining TRPA in 2017, Kira has helped to develop monitoring and funding programs for transit, conduct demand analyses, and advance the region's transportation strategies through a new commuter program and marketing campaign.

Jaime Wright | Public Works Manager, Transit Services, Placer County
Local Transportation Options & Tips for Leaving the Car Behind



Jaime has worked locally within Truckee and North Lake Tahoe both in private and public transit since 1999. Growing up in Truckee and North Lake Tahoe, mobility has always sparked an interest, motivating Jaime to continue her education and work experience with the field of transportation. Jaime began her career in the private sector working for Squaw Creek Transportation and then joined the TNT-TMA as the Program Manager in 2008, becoming the Executive Director of the TNT-TMA in 2013, with her most recent move to the Transit Division of Placer County in 2020.

Devin Middlebrook | Sustainability Program Manager
Tahoe Regional Planning Agency

Sustainable Recreation at Tahoe: Re-Imagining the Tahoe Experience



Devin Middlebrook leads implementation of the Lake Tahoe Sustainable Communities Program to bring climate change mitigation and adaptation to the region. Much of this work revolves around land use planning, transportation, renewable energy, outdoor recreation, and community engagement. Devin earned his bachelor's degree in business administration and sustainability from California State University, Chico and went on to receive his MBA from California State University, Sacramento. Growing up in Tahoe gave Devin an appreciation for the outdoors and the passion to ensure future generations have the same experience.

Gavin Feiger | Senior Land Use Policy Analyst, League to Save Lake Tahoe
Transportation in Tahoe: Challenges, opportunities, and successes in a tourist destination



Gavin, as a member of the League's advocacy team, implements targeted campaigns and programs to help protect, restore and advocate for the health of the Lake Tahoe Basin. Gavin is responsible for the development, implementation, and enforcement of applicable planning policy within the greater Lake Tahoe region, with an emphasis on land use and transportation planning. Gavin has over a decade of experience in environmental science, policy, planning, and advocacy.

PANEL #3: CUSTOMER EXPERIENCES TO ENGAGE STEWARDSHIP

May 12, 2021 | 9:15 AM – 10:30 AM

**Madonna Dunbar | Resource Conservationist, Incline Village GID
Executive Director, Tahoe Water Suppliers Association**

Travel Without Plastic: DRINK TAHOE TAP ®



Madonna Dunbar is the Resource Conservationist for the Incline Village General Improvement District, commonly known as IVGID. Her duties include serving as the Executive Director of the Tahoe Water Suppliers Association (TWSA). The TWSA is a regional working group focused on the protection of Lake Tahoe as a community drinking water source.



**Marilee Movius | Community Engagement Manager
League to Save Lake Tahoe – Keep Tahoe Blue**

Volunteerism & Citizen Science: The power of engaged and informed community



Marilee oversees the League's volunteer program, cultivates local partnerships, designs educational materials and organizes the League's community events, including its cleanup efforts that have removed thousands of pounds of trash from Tahoe's beaches and neighborhoods. She also coordinates much needed environmental restoration events to strengthen Tahoe's resilience to climate change, and empowers residents and visitors to raise awareness and take direct action to Keep Tahoe Blue.

Jacquie Chandler | President, Sustainable Tahoe

Geotourism: tourism that does no harm. Offering nature based, cultural activities to get visitors out of cars.



Jacquie Chandler is the President of Sustainable Tahoe, a 501c3 non-profit organization, fostering Geotourism (destination stewardship) to inspire behaviors critical for a sustainable, prosperous and compassionate economy in the Lake Tahoe watershed.

Amy Berry | CEO, Tahoe Fund

Tahoe Fund Projects, Take Care Campaign, Kind Traveler Partnership



Amy Berry is currently the CEO of the Tahoe Fund. The goal of the Tahoe Fund is to use the power of philanthropy to improve the Lake Tahoe environment for all to enjoy. The organization focuses on forest health, lake clarity, sustainable recreation, transportation and stewardship.

Kristin and Erica will discuss the respective California and Nevada Green Business Programs. Erica will review the lodging checklist for those establishments interested in becoming green certified. Patty Baird will discuss why certifications do matter and why our industry should provide them.

Kristin York | VP of Business Innovation Sierra Business Council



Kristin's life work is focused on creating a more sustainable, equitable economy. She leverages her 20 years of experience in strategic planning, finance, operations, marketing, training, and business transformation to assist businesses in the Sierra thrive economically while understanding their environmental and social impact.



Erica Gallegos | GreenBizTracker Manager, Western Nevada College



Erica certifies green businesses in Northern Nevada and manages the GreenBizTracker database for the Nevada Green Business Network. Prior to this program, she worked for the City of Reno's Sustainability Office and greenUP's Green Dining District in Carson City.



Patty Baird | Owner/Builder/Director of The Cedar House Sport Hotel in Truckee



Built in 2004 and opened in 2006, the Cedar House Sport Hotel was an early adopter in the "greening" of its buildings and usage of best practices, integrating both sustainability and environmentalism into its business mission and messaging.

Become Green Certified Today!



greenbusinessca.org



nvgreenbusiness.org

DAY 2 PLENARY | 11:45 AM - 12 PM



INCLINE VILLAGE GENERAL IMPROVEMENT DIST
G/L TRANSACTION DETAIL REPORT

From Date: 07/01/2020
 To Date: 04/30/2021
 From Account: 200-28-990
 To Account:
 Run Date: 05/10/2021
 User: mjp
 Exclude Accounts With No Activity

G/L#	EFFECTIVE DATE	DESCRIPTION	STP	SOURCE	JE#	CHECK	DEPOSIT	VENDOR	VENDOR INVOICE#	INVOICE TYPE	PO	PROJECT	DEBIT	CREDIT	BALANCE	
200-28-990-4417		Service & User Fees										Balance Forward			0.00	
	07/22/2020	IVGID TWSA Membership Dues FYE 6.30.2021	AJ	GL	3392783								31,560.00	31,560.00	CR	
	08/26/2020	Lakeside Park Association	AJ	GL	342815								6,979.00	38,539.00	CR	
	08/26/2020	North Tahoe Public Utility District	AJ	GL	342815								15,687.00	54,226.00	CR	
	08/26/2020	South Tahoe Public Utility	AJ	GL	342815								14,920.00	69,146.00	CR	
	08/26/2020	Round Hill General Improvement District	AJ	GL	342815								7,456.00	76,602.00	CR	
	08/26/2020	Kingsbury General	AJ	GL	342815								12,682.00	89,284.00	CR	
	08/26/2020	Glenbrook Water Cooperative	AJ	GL	342815								8,554.00	97,838.00	CR	
	08/26/2020	Douglas County Nevada	AJ	GL	342815								22,790.00	120,628.00	CR	
	08/26/2020	Edgwood Companies	AJ	GL	342815								11,138.00	131,766.00	CR	
	10/08/2020	Tahoe City Public Utility District	AJ	GL	345314								17,437.00	149,203.00	CR	
		TOTAL											0.00	149,203.00	149,203.00	CR
200-28-990-4510		Operating Grants - State										Balance Forward			0.00	
	08/13/2020	NDEP MicroPlastics Grant Receipt	AJ	GL	343858								15,000.00	15,000.00	CR	
	03/09/2021	NDEP MicroPlastics Education Grant Receipt	AJ	GL	353801								18,037.14	33,037.14	CR	
		TOTAL											0.00	33,037.14	33,037.14	CR
200-28-990-5010		Regular Earnings										Balance Forward			0.00	
	07/17/2020	PAYROLL FOR 071720	AJ	PR	339221								1,584.95	1,584.95		
	07/17/2020	Accrued Vacation ck dtd 0717/20	USR	GL	342048								149.38	1,734.33		
	07/31/2020	PAYROLL FOR 073120	AJ	PR	339997								2,013.09	3,747.42		
	07/31/2020	PAYROLL FOR 081420	AJ	PR	341895								801.66	4,549.08		
	08/14/2020	PAYROLL FOR 081420	AJ	PR	341894								1,068.88	5,617.96		
	08/14/2020	Accrued Vacation ck dtd 08/14/20	USR	GL	344981								149.38	5,767.34		
	08/28/2020	PAYROLL FOR 082820	AJ	PR	342817								1,831.98	7,599.32		
	08/28/2020	Accrued Vacation ck dtd 08/28/20	AJ	GL	344983								149.38	7,748.70		
	08/31/2020	PAYROLL FOR 091120	AJ	PR	343675								1,294.14	9,042.84		
	09/11/2020	PAYROLL FOR 091120	AJ	PR	343676								718.97	9,761.81		
	09/11/2020	Accrued Vacation ck dtd 9/11/20	AJ	GL	344998								149.38	9,911.19		
	09/25/2020	PAYROLL FOR 092520	AJ	PR	344501								1,543.81	11,455.00		
	09/25/2020	Accrued Vacation ck dtd 9/25/20	AJ	GL	345000								149.38	11,604.38		
	09/30/2020	PAYROLL FOR 100920	AJ	PR	345162								1,176.54	12,780.92		
	10/09/2020	PAYROLL FOR 100920	AJ	PR	345161								320.88	13,101.80		
	10/09/2020	Accrued Vacation ck dtd 10/9/20	USR	GL	345448								150.75	13,252.55		
	10/23/2020	PAYROLL FOR 102320	AJ	PR	346134								1,944.80	15,197.35		
	10/23/2020	Accrued Vacation ck dtd 10/23/20	AJ	GL	346287								150.75	15,348.10		
	10/31/2020	PAYROLL FOR 110620	AJ	PR	346622								1,921.91	17,270.01		
	11/06/2020	Accrued Vacation ck dtd 11/6/20	AJ	GL	346781								150.75	17,420.76		
	11/20/2020	PAYROLL FOR 112020	AJ	PR	347415								2,035.12	19,455.88		
	11/20/2020	Accrued Vacation ck dtd 11/20/20	AJ	GL	347546								150.75	19,606.63		
	11/28/2020	PAYROLL FOR 120420	AJ	PR	347672								2,035.13	21,641.76		
	11/30/2020	PAYROLL FOR 121820	AJ	PR	348663								290.74	21,932.50		
	12/04/2020	Accrued Vacation ck dtd 12/4/20	AJ	GL	348077								150.75	22,083.25		
	12/18/2020	PAYROLL FOR 121820	AJ	PR	348662								1,744.38	23,827.63		
	12/18/2020	Accrued Vacation ck dtd 12/18/20	AJ	GL	348866								207.20	24,034.83		
	12/31/2020	PAYROLL FOR 123120	AJ	PR	349295								2,035.12	26,069.95		
	12/31/2020	PAYROLL FOR 011521	AJ	PR	349859								621.88	26,691.83		
	01/15/2021	PAYROLL FOR 011521	AJ	PR	349860								1,119.40	27,811.23		
	01/15/2021	Accrued Vacation ck dtd 1/15/21	AJ	GL	350279								174.38	27,985.61		
	01/29/2021	PAYROLL FOR 012921	AJ	PR	350667								2,001.25	29,986.86		
	01/29/2021	Accrued Vacation ck dtd 1/29/21	AJ	GL	351100								174.38	30,161.24		
	01/30/2021	PAYROLL FOR 021221	AJ	PR	351484								960.97	31,122.21		
	02/12/2021	PAYROLL FOR 021221	AJ	PR	351485								960.96	32,083.17		
	02/26/2021	PAYROLL FOR 022621	AJ	PR	352179								2,035.12	34,118.29		
	02/28/2021	PAYROLL FOR 031221	AJ	PR	352899								1,048.25	35,166.54		
	03/12/2021	PAYROLL FOR 031221	AJ	PR	352900								786.19	35,952.73		
	03/26/2021	PAYROLL FOR 032621	AJ	PR	353466								1,916.28	37,869.01		
	03/31/2021	PAYROLL FOR 040921	AJ	PR	353842								1,599.01	39,468.02		
	04/09/2021	PAYROLL FOR 040921	AJ	PR	353843								436.11	39,904.13		
	04/23/2021	PAYROLL FOR 042321	AJ	PR	355096								2,065.67	41,969.80		
	04/30/2021	PAYROLL FOR 050721	AJ	PR	355720								1,896.83	43,866.63		
		TOTAL											43,866.63	0.00	43,866.63	
200-28-990-5016		Accrued Hourly										Balance Forward			0.00	
	07/02/2020	Daily Payroll Estimate	AJ	GL	338247								231.90	231.90		
	07/04/2020	Daily Payroll Estimate	AJ	GL	338249								231.90	463.80		
	07/07/2020	Daily Payroll Estimate	AJ	GL	338283								231.90	695.70		
	07/09/2020	Daily Payroll Estimate	AJ	GL	338868								231.90	927.60		
	07/10/2020	Daily Payroll Estimate	AJ	GL	338899								235.52	1,163.12		
	07/11/2020	Reverse PR Estimate 7/1/20 - 7/11/20 - Hourly	AJ	GL	338981									1,163.12	0.00	
	07/16/2020	Daily Payroll Estimate	AJ	GL	339253								231.90	231.90		
	07/17/2020	Daily Payroll Estimate	AJ	GL	339735								231.90	463.80		
	07/23/2020	Daily Payroll Estimate	AJ	GL	339772								231.90	695.70		
	07/24/2020	Daily Payroll Estimate	AJ	GL	339816								231.90	927.60		
	07/27/2020	Daily Payroll Estimate	AJ	GL	339861								231.90	1,159.50		
	07/28/2020	Daily Payroll Estimate	AJ	GL	339902								231.90	1,391.40		
	07/31/2020	Reverse PR Estimate 7/12/20 - 7/25/20 - Hourly	AJ	GL	339858									927.60	463.80	
	07/31/2020	Reverse PR Estimate 7/26/20 - 7/31/20 - Hourly	AJ	GL	341641									463.80	0.00	
	08/05/2020	Daily Payroll Estimate	AJ	GL	341442								231.90	231.90		
	08/06/2020	Daily Payroll Estimate	AJ	GL	341555								231.90	463.80		
	08/07/2020	Daily Payroll Estimate	AJ	GL	341587								231.90	695.70		
	08/12/2020	Daily Payroll Estimate	AJ	GL	341900								231.90	927.60		
	08/13/2020	Daily Payroll Estimate	AJ	GL	342073								231.90	1,159.50		
	08/14/2020	Reverse PR Estimate 8/1/20 - 8/11/20 - Hourly	AJ	GL	341642									695.70	463.80	
	08/14/2020	Daily Payroll Estimate	AJ	GL	342106								231.90	695.70		
	08/17/2020	Daily Payroll Estimate	AJ	GL	342124								231.90	927.60		
	08/20/2020	Daily Payroll Estimate	AJ	GL	342410								231.90	1,159.50		
	08/21/2020	Daily Payroll Estimate	AJ	GL	342493								231.90	1,391.40		
	08/27/2020	Daily Payroll Estimate	AJ	GL	343027								231.90	1,623.30		
	08/28/2020	Reverse PR Estimate 8/9/20 - 8/22/20 - Hourly	AJ	GL	342633									1,391.40	231.90	
	08/28/202															

	12/21/2020	Daily Payroll Estimate	AJ	GL	348944		237.70	713.10
	12/22/2020	Daily Payroll Estimate	AJ	GL	348945		237.70	950.80
	12/28/2020	Daily Payroll Estimate	AJ	GL	349532		267.41	1,218.21
	12/29/2020	Daily Payroll Estimate	AJ	GL	349533		326.83	1,545.04
	12/30/2020	Daily Payroll Estimate	AJ	GL	349534		237.70	1,782.74
	12/31/2020	Daily Payroll Estimate Clearing	AJ	GL	349526			950.80
	12/31/2020	Daily Payroll Estimate	AJ	GL	349535		237.70	1,069.64
	12/31/2020	Daily Payroll Estimate Clearing	AJ	GL	349851			1,069.64
	01/01/2021	Daily Payroll Estimate	AJ	GL	349536		475.39	1,069.64
	01/07/2021	Daily Payroll Estimate	AJ	GL	349835		237.70	713.09
	01/08/2021	Daily Payroll Estimate	AJ	GL	349836		237.70	950.79
	01/12/2021	Daily Payroll Estimate	AJ	GL	349892		237.70	1,188.49
	01/13/2021	Daily Payroll Estimate	AJ	GL	349893		237.70	1,426.19
	01/14/2021	Daily Payroll Estimate	AJ	GL	349894		237.70	1,663.89
	01/15/2021	Daily Payroll Estimate Clearing	AJ	GL	349852			713.09
	01/15/2021	Daily Payroll Estimate	AJ	GL	350316		237.70	1,188.50
	01/18/2021	Daily Payroll Estimate	AJ	GL	350319		237.70	1,426.20
	01/22/2021	Daily Payroll Estimate	AJ	GL	350571		237.70	1,663.90
	01/29/2021	Daily Payroll Estimate Clearing	AJ	GL	350578			1,663.90
		TOTAL					20,830.04	20,830.04
200-28-990-5020		Other Earnings					Balance Forward	0.00
	09/30/2020	PAYROLL FOR 100920	AJ	PR	345162		10.39	10.39
	10/09/2020	PAYROLL FOR 100920	AJ	PR	345161		2.84	13.23
		TOTAL					13.23	0.00
200-28-990-5050		Taxes					Balance Forward	0.00
	07/17/2020	PAYROLL FOR 071720	AJ	PR	339221		118.04	118.04
	07/31/2020	PAYROLL FOR 073120	AJ	PR	339997		154.51	272.55
	07/31/2020	PAYROLL FOR 081420	AJ	PR	341895		63.25	335.80
	08/14/2020	PAYROLL FOR 081420	AJ	PR	341894		84.33	420.13
	08/28/2020	PAYROLL FOR 082820	AJ	PR	342817		147.58	567.71
	08/31/2020	PAYROLL FOR 091120	AJ	PR	343675		96.37	664.08
	09/11/2020	PAYROLL FOR 091120	AJ	PR	343676		53.54	717.62
	09/25/2020	PAYROLL FOR 092520	AJ	PR	344501		149.90	867.52
	09/30/2020	PAYROLL FOR 100920	AJ	PR	345162		120.25	987.77
	10/09/2020	PAYROLL FOR 100920	AJ	PR	345161		32.80	1,020.57
	10/23/2020	PAYROLL FOR 102320	AJ	PR	346134		151.65	1,172.22
	10/31/2020	PAYROLL FOR 110620	AJ	PR	346622		151.65	1,323.87
	11/20/2020	PAYROLL FOR 112020	AJ	PR	347415		151.65	1,475.52
	11/28/2020	PAYROLL FOR 120420	AJ	PR	347672		151.65	1,627.17
	11/30/2020	PAYROLL FOR 121820	AJ	PR	348663		21.67	1,648.84
	12/18/2020	PAYROLL FOR 121820	AJ	PR	348662		129.98	1,778.82
	12/31/2020	PAYROLL FOR 123120	AJ	PR	349295		161.92	1,940.74
	12/31/2020	PAYROLL FOR 011521	AJ	PR	349859		54.06	1,994.80
	01/15/2021	PAYROLL FOR 011521	AJ	PR	349860		97.28	2,092.08
	01/29/2021	PAYROLL FOR 012921	AJ	PR	350667		151.33	2,243.41
	01/30/2021	PAYROLL FOR 021221	AJ	PR	351484		75.68	2,319.09
	02/12/2021	PAYROLL FOR 021221	AJ	PR	351485		75.65	2,394.74
	02/26/2021	PAYROLL FOR 022621	AJ	PR	352179		151.33	2,546.07
	02/28/2021	PAYROLL FOR 031221	AJ	PR	352899		84.36	2,630.43
	03/12/2021	PAYROLL FOR 031221	AJ	PR	352900		63.28	2,693.71
	03/26/2021	PAYROLL FOR 032621	AJ	PR	353466		151.33	2,845.04
	03/31/2021	PAYROLL FOR 040921	AJ	PR	353842		118.90	2,963.94
	04/09/2021	PAYROLL FOR 040921	AJ	PR	353843		32.43	2,996.37
	04/23/2021	PAYROLL FOR 042321	AJ	PR	355096		153.78	3,150.15
	04/30/2021	PAYROLL FOR 050721	AJ	PR	355720		142.80	3,292.95
		TOTAL					3,292.95	0.00
200-28-990-5100		Retirement Fringe Ben					Balance Forward	0.00
	07/17/2020	PAYROLL FOR 071720	AJ	PR	339221		258.34	258.34
	07/31/2020	PAYROLL FOR 073120	AJ	PR	339997		328.13	586.47
	07/31/2020	PAYROLL FOR 081420	AJ	PR	341895		138.59	725.06
	08/14/2020	PAYROLL FOR 081420	AJ	PR	341894		184.77	909.83
	08/28/2020	PAYROLL FOR 082820	AJ	PR	342817		323.36	1,233.19
	08/31/2020	PAYROLL FOR 091120	AJ	PR	343675		210.94	1,444.13
	09/11/2020	PAYROLL FOR 091120	AJ	PR	343676		117.19	1,561.32
	09/25/2020	PAYROLL FOR 092520	AJ	PR	344501		328.13	1,889.45
	09/30/2020	PAYROLL FOR 100920	AJ	PR	345162		262.88	2,152.33
	10/09/2020	PAYROLL FOR 100920	AJ	PR	345161		71.70	2,224.03
	10/23/2020	PAYROLL FOR 102320	AJ	PR	346134		331.73	2,555.76
	10/31/2020	PAYROLL FOR 110620	AJ	PR	346622		331.73	2,887.49
	11/20/2020	PAYROLL FOR 112020	AJ	PR	347415		331.73	3,219.22
	11/28/2020	PAYROLL FOR 120420	AJ	PR	347672		331.73	3,550.95
	11/30/2020	PAYROLL FOR 121820	AJ	PR	348663		47.39	3,598.34
	12/18/2020	PAYROLL FOR 121820	AJ	PR	348662		284.34	3,882.68
	12/31/2020	PAYROLL FOR 123120	AJ	PR	349295		331.73	4,214.41
	12/31/2020	PAYROLL FOR 011521	AJ	PR	349859		118.47	4,332.88
	01/15/2021	PAYROLL FOR 011521	AJ	PR	349860		213.26	4,546.14
	01/29/2021	PAYROLL FOR 012921	AJ	PR	350667		331.73	4,877.87
	01/30/2021	PAYROLL FOR 021221	AJ	PR	351484		165.88	5,043.75
	02/12/2021	PAYROLL FOR 021221	AJ	PR	351485		165.85	5,209.60
	02/26/2021	PAYROLL FOR 022621	AJ	PR	352179		331.73	5,541.33
	02/28/2021	PAYROLL FOR 031221	AJ	PR	352899		185.22	5,726.55
	03/12/2021	PAYROLL FOR 031221	AJ	PR	352900		138.92	5,865.47
	03/26/2021	PAYROLL FOR 032621	AJ	PR	353466		331.73	6,197.20
	03/31/2021	PAYROLL FOR 040921	AJ	PR	353842		260.64	6,457.84
	04/09/2021	PAYROLL FOR 040921	AJ	PR	353843		71.09	6,528.93
	04/23/2021	PAYROLL FOR 042321	AJ	PR	355096		336.70	6,865.63
	04/30/2021	PAYROLL FOR 050721	AJ	PR	355720		312.66	7,178.29
		TOTAL					7,178.29	0.00
200-28-990-5200		Medical Fringe Ben					Balance Forward	0.00
	07/02/2020	PAYROLL FOR 070220	AJ	PR	338135		285.81	285.81
	07/17/2020	PAYROLL FOR 071720	AJ	PR	339221		524.18	809.99
	08/14/2020	PAYROLL FOR 081420	AJ	PR	341894		285.81	1,095.80
	08/28/2020	PAYROLL FOR 082820	AJ	PR	342817		524.18	1,619.98
	09/11/2020	PAYROLL FOR 091120	AJ	PR	343676		285.81	1,905.79
	09/25/2020	PAYROLL FOR 092520	AJ	PR	344501		524.18	2,429.97
	10/09/2020	PAYROLL FOR 100920	AJ	PR	345162		285.81	2,715.78
	10/23/2020	PAYROLL FOR 102320	AJ	PR	346134		524.18	3,239.96
	11/06/2020	PAYROLL FOR 110620	AJ	PR	346621		285.81	3,525.77
	11/20/2020	PAYROLL FOR 112020	AJ	PR	347415		524.18	4,049.95
	12/04/2020	PAYROLL FOR 120420	AJ	PR	347715		285.81	4,335.76
	12/18/2020	PAYROLL FOR 121820	AJ	PR	348662		524.18	4,859.94
	01/15/2021	PAYROLL FOR 011521	AJ	PR	349860		307.16	5,167.10
	01/29/2021	PAYROLL FOR 012921	AJ	PR	350667		563.33	5,730.43
	02/12/2021	PAYROLL FOR 021221	AJ	PR	351485		307.16	6,037.59
	02/26/2021	PAYROLL FOR 022621	AJ	PR	352179		563.33	6,600.92
	03/12/2021	PAYROLL FOR 031221	AJ	PR	352900		307.16	6,908.08
	03/26/2021	PAYROLL FOR 032621	AJ	PR	353466		563.33	7,471.41
	04/09/2021	PAYROLL FOR 040921	AJ	PR	353843		307.16	7,778.57
	04/23/2021	PAYROLL FOR 042321	AJ	PR	355096		563.33	8,341.90
		TOTAL					8,341.90	0.00
200-28-990-5250		Dental Fringe Ben					Balance Forward	0.00
	07/02/2020	PAYROLL FOR 070220	AJ	PR	338135		24.88	24.88
	07/17/2020	PAYROLL FOR 071720	AJ	PR	339221		43.35	68.23
	08/14/2020	PAYROLL FOR 081420	AJ	PR	341894		24.88	93.11
	08/28/2020	PAYROLL FOR 082820	AJ	PR	342817		43.35	136.46
	09/11/2020	PAYROLL FOR 091120	AJ	PR	343676		24.88	161.34
	09/25/2020	PAYROLL FOR 092520	AJ	PR	344501		43.35	204.69
	10/09/2020	PAYROLL FOR 100920	AJ	PR	345162		24.88	229.57
	10/23/2020	PAYROLL FOR 102320	AJ	PR	346134		43.35	272.92
	11/06/2020	PAYROLL FOR 110620	AJ	PR	346621		24.88	297.80
	11/20/2020	PAYROLL FOR 112020	AJ	PR	347415		43.35	341.15
	12/04/2020	PAYROLL FOR 120420	AJ	PR	347715		24.88	366.03
	12/18/2020	PAYROLL FOR 121820	AJ	PR	348662		43.35	409.38
	01/15/2021	PAYROLL FOR 011521	AJ	PR	349860		24.88	434.26
	01/29/2021	PAYROLL FOR 012921	AJ	PR	350667		43.35	477.61
	02/12/2021	PAYROLL FOR 021221	AJ	PR	351485		24.88	502.49
	02/26/2021	PAYROLL FOR 022621	AJ	PR	352179		43.35	545.84
	03/12/2021	PAYROLL FOR 031221	AJ	PR	352900		24.88	570.72
	03/26/2021	PAYROLL FOR 032621	AJ	PR	353466		43.35	614.07
	04/09/2021	PAYROLL FOR 040921	AJ	PR	353843		24.88	638.95
	04/23/2021	PAYROLL FOR 042321	AJ	PR	355096		43.35	682.30
		TOTAL					682.30	0.00
200-28-990-5300		Vision Fringe Ben					Balance Forward	0.00
	07/02/2020	PAYROLL FOR 070220	AJ	PR	338135		2.80	2.80
	07/17/2020	PAYROLL FOR 071720	AJ	PR	339221		5.27	8.07
	08/14/2020	PAYROLL FOR 081420	AJ	PR	341894		2.80	10.87
	08/28/2020	PAYROLL FOR 082820	AJ	PR	342817		5.27	16.14
	09/11/2020	PAYROLL FOR 091120	AJ	PR	343676		2.80	18.94
	09/25/2020	PAYROLL FOR 092520	AJ	PR	344501		5.27	24.21
	10/09/2020	PAYROLL FOR 100920	AJ	PR	345162		2.80	27.01
	10/23/2020	PAYROLL FOR 102320	AJ	PR	346134		5.27	32.28
	11/06/2020	PAYROLL FOR 110620	AJ	PR	346621		2.80	35.08
	11/20/2020	PAYROLL FOR 112020	AJ	PR	347415		5.27	40.35
	12/							

	12/18/2020	PAYROLL FOR 121820	AJ	PR	348662				3.48	20.88		
	01/29/2021	PAYROLL FOR 012921	AJ	PR	350667				3.48	24.36		
	02/26/2021	PAYROLL FOR 022621	AJ	PR	352179				3.48	27.84		
	03/26/2021	PAYROLL FOR 032621	AJ	PR	353466				3.48	31.32		
	04/23/2021	PAYROLL FOR 042321	AJ	PR	355096				3.48	34.80		
		TOTAL							34.80	0.00		
200-28-990-5500		Disability Fringe Ben							Balance Forward	0.00		
	07/02/2020	PAYROLL FOR 070220	AJ	PR	338135				8.05	8.05		
	07/17/2020	PAYROLL FOR 071720	AJ	PR	339221				11.29	19.34		
	07/31/2020	PAYROLL FOR 073120	AJ	PR	339997				8.41	27.75		
	08/14/2020	PAYROLL FOR 081420	AJ	PR	341894				8.29	36.04		
	08/28/2020	PAYROLL FOR 082820	AJ	PR	342817				10.99	47.03		
	09/11/2020	PAYROLL FOR 091120	AJ	PR	343676				8.41	55.44		
	09/25/2020	PAYROLL FOR 092520	AJ	PR	344501				11.27	66.71		
	10/09/2020	PAYROLL FOR 100920	AJ	PR	345161				8.52	75.23		
	10/23/2020	PAYROLL FOR 102320	AJ	PR	346134				11.36	86.59		
	11/06/2020	PAYROLL FOR 110620	AJ	PR	346621				8.50	95.09		
	11/20/2020	PAYROLL FOR 112020	AJ	PR	347415				11.36	106.45		
	12/04/2020	PAYROLL FOR 120420	AJ	PR	347715				8.50	114.95		
	12/18/2020	PAYROLL FOR 121820	AJ	PR	348662				11.36	126.31		
	12/31/2020	PAYROLL FOR 123120	AJ	PR	349295				8.50	134.81		
	01/15/2021	PAYROLL FOR 011521	AJ	PR	349860				8.50	143.31		
	01/29/2021	PAYROLL FOR 012921	AJ	PR	350667				11.36	154.67		
	02/12/2021	PAYROLL FOR 021221	AJ	PR	351485				8.50	163.17		
	02/26/2021	PAYROLL FOR 022621	AJ	PR	352179				11.36	174.53		
	03/12/2021	PAYROLL FOR 031221	AJ	PR	352900				8.29	182.82		
	03/26/2021	PAYROLL FOR 032621	AJ	PR	353466				11.36	194.18		
	04/09/2021	PAYROLL FOR 040921	AJ	PR	353843				8.50	202.68		
	04/23/2021	PAYROLL FOR 042321	AJ	PR	355096				11.49	214.17		
		TOTAL							214.17	0.00		
200-28-990-5600		Unemployment Fringe Ben							Balance Forward	0.00		
	07/17/2020	PAYROLL FOR 071720	AJ	PR	339221				20.76	20.76		
	07/31/2020	PAYROLL FOR 073120	AJ	PR	339997				26.38	47.14		
	07/31/2020	PAYROLL FOR 081420	AJ	PR	341895				11.14	58.28		
	08/14/2020	PAYROLL FOR 081420	AJ	PR	341894				14.85	73.13		
	08/28/2020	PAYROLL FOR 082820	AJ	PR	342817				30.36	103.49		
	08/31/2020	PAYROLL FOR 091120	AJ	PR	343675				19.80	123.29		
	09/11/2020	PAYROLL FOR 091120	AJ	PR	343676				11.00	134.29		
	09/25/2020	PAYROLL FOR 092520	AJ	PR	344501				30.80	165.09		
	09/30/2020	PAYROLL FOR 100920	AJ	PR	345162				24.67	189.76		
	10/09/2020	PAYROLL FOR 100920	AJ	PR	345161				6.73	196.49		
	10/23/2020	PAYROLL FOR 102320	AJ	PR	346134				31.14	227.63		
	10/31/2020	PAYROLL FOR 110620	AJ	PR	346622				31.14	258.77		
	11/20/2020	PAYROLL FOR 112020	AJ	PR	347415				31.14	289.91		
	11/28/2020	PAYROLL FOR 120420	AJ	PR	347672				31.14	321.05		
	11/30/2020	PAYROLL FOR 121820	AJ	PR	348663				4.44	325.49		
	12/18/2020	PAYROLL FOR 121820	AJ	PR	348662				26.70	352.19		
	12/31/2020	PAYROLL FOR 123120	AJ	PR	349295				31.14	383.33		
	12/31/2020	PAYROLL FOR 011521	AJ	PR	349859				11.13	394.46		
	01/15/2021	PAYROLL FOR 011521	AJ	PR	349860				20.01	414.47		
	01/29/2021	PAYROLL FOR 012921	AJ	PR	350667				31.14	445.61		
	01/30/2021	PAYROLL FOR 021221	AJ	PR	351484				15.57	461.18		
	02/12/2021	PAYROLL FOR 021221	AJ	PR	351485				15.57	476.75		
	02/26/2021	PAYROLL FOR 022621	AJ	PR	352179				31.14	507.89		
	02/28/2021	PAYROLL FOR 031221	AJ	PR	352899				17.39	525.28		
	03/12/2021	PAYROLL FOR 031221	AJ	PR	352900				13.03	538.31		
	03/26/2021	PAYROLL FOR 032621	AJ	PR	353466				31.14	569.45		
	03/31/2021	PAYROLL FOR 040921	AJ	PR	353842				24.47	593.92		
	04/09/2021	PAYROLL FOR 040921	AJ	PR	353843				6.67	600.59		
	04/23/2021	PAYROLL FOR 042321	AJ	PR	355096				31.60	632.19		
	04/30/2021	PAYROLL FOR 050721	AJ	PR	355720				29.34	661.53		
		TOTAL							661.53	0.00		
200-28-990-5700		Work Comp Fringe Ben							Balance Forward	0.00		
	07/17/2020	PAYROLL FOR 071720	AJ	PR	339221				38.05	38.05		
	07/31/2020	PAYROLL FOR 073120	AJ	PR	339997				48.32	86.37		
	08/14/2020	PAYROLL FOR 081420	AJ	PR	341895				20.40	106.77		
	08/14/2020	PAYROLL FOR 081420	AJ	PR	341894				27.22	133.99		
	08/28/2020	PAYROLL FOR 082820	AJ	PR	342817				47.62	181.61		
	08/31/2020	PAYROLL FOR 091120	AJ	PR	343675				31.07	212.68		
	09/11/2020	PAYROLL FOR 091120	AJ	PR	343676				17.25	229.93		
	09/25/2020	PAYROLL FOR 092520	AJ	PR	344501				48.32	278.25		
	09/30/2020	PAYROLL FOR 100920	AJ	PR	345162				38.71	316.96		
	10/09/2020	PAYROLL FOR 100920	AJ	PR	345161				10.55	327.51		
	10/23/2020	PAYROLL FOR 102320	AJ	PR	346134				48.85	376.36		
	10/31/2020	PAYROLL FOR 110620	AJ	PR	346622				48.85	425.21		
	11/20/2020	PAYROLL FOR 112020	AJ	PR	347415				48.85	474.06		
	11/28/2020	PAYROLL FOR 120420	AJ	PR	347672				48.85	522.91		
	11/30/2020	PAYROLL FOR 121820	AJ	PR	348663				6.38	529.29		
	12/18/2020	PAYROLL FOR 121820	AJ	PR	348662				41.87	571.16		
	12/31/2020	PAYROLL FOR 123120	AJ	PR	349295				48.85	620.01		
	12/31/2020	PAYROLL FOR 011521	AJ	PR	349859				17.44	638.05		
	01/15/2021	PAYROLL FOR 011521	AJ	PR	349860				31.41	669.46		
	01/29/2021	PAYROLL FOR 012921	AJ	PR	350667				48.85	718.31		
	01/30/2021	PAYROLL FOR 021221	AJ	PR	351484				24.43	742.74		
	02/12/2021	PAYROLL FOR 021221	AJ	PR	351485				24.42	767.16		
	02/26/2021	PAYROLL FOR 022621	AJ	PR	352179				48.85	816.01		
	02/28/2021	PAYROLL FOR 031221	AJ	PR	352899				27.28	843.29		
	03/12/2021	PAYROLL FOR 031221	AJ	PR	352900				20.45	863.74		
	03/26/2021	PAYROLL FOR 032621	AJ	PR	353466				48.85	912.59		
	03/31/2021	PAYROLL FOR 040921	AJ	PR	353842				38.38	950.97		
	04/09/2021	PAYROLL FOR 040921	AJ	PR	353843				10.47	961.44		
	04/23/2021	PAYROLL FOR 042321	AJ	PR	355096				49.57	1,011.01		
	04/30/2021	PAYROLL FOR 050721	AJ	PR	355720				46.03	1,057.04		
		TOTAL							1,057.04	0.00		
200-28-990-6030		Professional Consultants							Balance Forward	0.00		
	09/13/2020	CEQA Review for TWSA, per Proposal dated April 24, 2020.	SYS	AP	344961	774795	Water Quality & Treatment Solutions, Inc	20-3141	Default Invoice	20-0265	16,262.40	16,262.40
	01/05/2021	TM Registration Renewal	SYS	AP	349994	775417	Law Office of Lara Pearson LTD., PBC	827	Default Invoice		1,525.00	17,787.40
	02/04/2021	USPTO filing fees of \$850, 1 @ \$850.00	SYS	AP	351206	775565	Law Office of Lara Pearson LTD., PBC	840	Default Invoice		850.00	18,637.40
		TOTAL									18,637.40	0.00
200-28-990-7010		Advertising - Paid watershed protect ad							Balance Forward	0.00		
	09/27/2020	Business Partner 6th Annual Tahoe Film Fest	AJ	GL	345388				250.00	250.00		
	10/10/2020	TAHOE.COMTWSA web ads	SYS	AP	346681	775000	Tahoe Film Fest	9012	Default Invoice		1,000.00	1,250.00
	10/27/2020	TAHOE.COM,twsa web ad	AJ	GL	346802				62.50	2,312.50		
	11/27/2020	Tahoe In Depth - Winter 2020, Issue 18, Bronze Underwriting Level	AJ	GL	347881				62.50	2,375.00		
	12/21/2020	TAHOE.COM,TWSA Tahoe.com ad	SYS	AP	349055	775330	TRPA	0003925	Default Invoice		500.00	2,875.00
	12/27/2020	TAHOE.COM,TWSA Ad	AJ	GL	349504				62.50	2,937.50		
	01/27/2021	TAHOE.COM,Tahoe.com Drink Tahoe Tap ad banner	AJ	GL	350779				62.50	3,000.00		
	02/26/2021	Drink Tahoe Pad Adds March 2021 - May 2021	AJ	GL	352548				62.50	3,062.50		
	03/17/2021	TAHOE.COM,Tahoe.com summer magazine ad Tahoe Tap	SYS	AP	353279	775823	Tahoe Mountain News	2021.03.17	Default Invoice		600.00	3,662.50
	03/27/2021	TAHOE.COM,tahoe tap web ad	AJ	GL	353774				673.00	4,335.50		
	04/27/2021		AJ	GL	355532				62.50	4,398.00		
		TOTAL							4,398.00	0.00		
200-28-990-7405		Office Supplies							Balance Forward	0.00		
	07/09/2020	BREWER,K1500,SINGLE SERV, BOOK,MEMO,WRBND, TOP,CR,6, Notebook 9.5x6" College	SYS	AP								

09/01/2020	CN12777-01 PW Copier Base 09/01/20-09/30/20	SYS AP	343286	3854	Sierra Office Solutions	IN1592996	Default Invoice		63.00	878.80
09/25/2020	36 month maintenance contract for PW Admin Xerox effective 1/1/18.	SYS AP	344958	3954	Sierra Office Solutions	IN1629108	Default Invoice 18-0204		49.24	928.04
10/01/2020	36 month maintenance contract for PW Admin Xerox effective 1/1/18.	SYS AP	345488	3986	Sierra Office Solutions	IN1640787	Default Invoice 18-0204		63.00	991.04
11/02/2020	36 month maintenance contract for PW Admin Xerox effective 1/1/18.	SYS AP	347062	4081	Sierra Office Solutions	IN1686825	Default Invoice 18-0204		63.00	1,054.04
12/01/2020	36 month maintenance contract for PW Admin Xerox effective 1/1/18.	SYS AP	348680	4174	Sierra Office Solutions	IN1726570	Default Invoice 18-0204		42.68	1,096.72
12/27/2020	RICKS AEC REPROGRAPHICS,15 Annual Report Print copies	AJ GL	349504						3,466.50	4,563.22
12/29/2020	CN12777-01 PW Copier Base 09/01/20-12/29/20	SYS AP	350342	4308	Sierra Office Solutions	IN1764305	Default Invoice		33.07	4,596.29
01/01/2021	20-934-933 Waste not 30-Dog Doody signs	AJ GL	351111						298.00	4,894.29
01/05/2021	36 month maintenance contract for PW Admin Xerox effective 1/1/18.	SYS AP	349886	4279	Sierra Office Solutions	IN1769849	Default Invoice 18-0204		63.00	4,957.29
01/27/2021	STICKER MULE DTT Drop stickers	AJ GL	350779						915.00	5,872.29
02/02/2021	36 month maintenance contract for PW Admin Xerox effective 1/1/18.	SYS AP	351671	4409	Sierra Office Solutions	IN1812145	Default Invoice 18-0204		63.00	5,935.29
03/02/2021	36 month maintenance contract for PW Admin Xerox effective 1/1/18.	SYS AP	353031	4532	Sierra Office Solutions	IN1854522	Default Invoice 18-0204		63.00	5,998.29
04/02/2021	36 month maintenance contract for PW Admin Xerox effective 1/1/18.	SYS AP	354860	4673	Sierra Office Solutions	IN1902147	Default Invoice 18-0204		63.00	6,061.29
	TOTAL								6,061.99	0.70
										6,061.29
200-28-990-7685	Travel & Conferences							Balance Forward		0.00
07/27/2020	LOGMEIN GOTOMEETING, toll free number monthly	AJ GL	341590						5.00	5.00
08/27/2020	LOGMEIN GOTOMEETING	AJ GL	344894						5.00	10.00
09/27/2020	AMZN MKTP US MVB825710Masks	AJ GL	345388						5.00	15.00
10/27/2020	LOGMEIN GOTOMEETING,video conference call in number	AJ GL	346802						5.00	20.00
11/27/2020	LOGMEIN GOTOMEETING,conferencing - toll free number monthly	AJ GL	347881						5.00	25.00
12/27/2020	LOGMEIN GOTOMEETING,toll free number monthly charge	AJ GL	349504						5.00	30.00
01/01/2021	Membership Dues 04/01/21-03/31/22 Member # 00626955	SYS AP	350795	775499	American Water Works Assoc.	7001883208	Default Invoice		294.00	324.00
01/27/2021	LOGMEIN GOTOMEETING,toll free number	AJ GL	350779						5.00	329.00
02/26/2021	LOGMEIN GOTOMEETING,Toll free number monthly charge for GoToMeeting video calls	AJ GL	352548						5.00	334.00
03/27/2021	LOGMEIN GOTOMEETING,monthly toll free number	AJ GL	353774						5.00	339.00
04/27/2021	LOGMEIN GOTOMEETING,toll free conference call number	AJ GL	355532						5.00	344.00
	TOTAL								344.00	0.00
										344.00
200-28-990-7840	Telephone (cell)							Balance Forward		0.00
09/30/2020	1st QTR Stipend 7/1/2020 - 9/30/2020	SYS AP	345861	4012	MADONNA DUNBAR	1stQTR Stipend 20-21	Default Invoice		48.00	48.00
12/31/2020	2nd QTR Stipend 10/1/2020 - 12/31/2020	SYS AP	348954	4203	MADONNA DUNBAR	2ndQTR Stipend 20-21	Default Invoice		48.00	96.00
03/31/2021	3rd QTR Stipend 01/01/2021 - 03/31/2021	SYS AP	354409	4631	MADONNA DUNBAR	3rdQTR Stipend 20-21	Default Invoice		48.00	144.00
	TOTAL								144.00	0.00
										144.00
200-28-990-7980	Central Services Allocation Cs							Balance Forward		0.00
07/31/2020	Record Central Services Cost Allocation for July 2020	AJ GL	342077						500.00	500.00
08/31/2020	Record Central Services Cost Allocation for August 2020	AJ GL	342078						500.00	1,000.00
09/30/2020	Record Central Services Cost Allocation for September 2020	AJ GL	342079						500.00	1,500.00
10/31/2020	Record Central Services Cost Allocation for October 2020	AJ GL	342080						500.00	2,000.00
11/30/2020	Record Central Services Cost Allocation for November 2020	AJ GL	342081						500.00	2,500.00
12/31/2020	Record Central Services Cost Allocation for December 2020	AJ GL	342082						500.00	3,000.00
01/31/2021	Record Central Services Cost Allocation for January 2021	AJ GL	342083						500.00	3,500.00
02/28/2021	Record Central Services Cost Allocation for February 2021	AJ GL	342084						500.00	4,000.00
03/31/2021	Record Central Services Cost Allocation for March 2021	AJ GL	342085						500.00	4,500.00
04/30/2021	Record Central Services Cost Allocation for April 2021	AJ GL	342086						500.00	5,000.00
	TOTAL								5,000.00	0.00
										5,000.00
	GRAND TOTAL								180,623.72	204,054.24
										23,430.52 CR

TWSA Reserve fund = \$167,925.85

TWSA Future Goals

The TWSA Board conducts annual goal setting and review. The Board Goals are as follows (reviewed 6/2020):

1. ***“Continue and increase emphasis on extensive education and outreach on focus topics of: source water protection, Aquatic Invasive Species (AIS) threats, treatment methods used for AIS and the value of municipal tap water.”***

As detailed in Action Plan Highlights 1.0 through 1.9 – a variety of actions happen towards this goal.

2. ***“Continue outreach and advocacy efforts for federal infrastructure funding, especially for fire flow capacity.”***

STPUD and IVGID conduct federal lobbying efforts on behalf of drinking water concerns for the Association. STPUD has conducted collective grant funding management for the TWSA group on fire flow enhancement infrastructure such as additional tanks, hydrants, pipe replacement and upgrades.

3. ***“Continue a strong communication relationship with Tahoe Regional Planning Agency (TRPA), Nevada Department of Environmental Protection (NDEP), Lahontan Regional Water Quality Control Board (LRWQCB) and other regulatory agencies on source water protection.”***

The most significant recent development includes participation on the Stakeholder Committee of the Tahoe Keys Control Methods Test working group. This is a mediated team coordinated by TRPA for the Tahoe Keys Property Owners Association “Application for Exemption” resubmitted to the Lahontan Regional Water Quality Control Board in July 2018. Past participation has ongoing project review and mitigation suggestions provided regarding pesticide and herbicide use (land and water use) to Lahontan Regional Water Quality Control Board (LRWQCB). Agency involvement by Nevada Dept. of Environmental Protection and California Dept. of Public Health was prompted by water provider concerns. Initial public comment prompted the LRWQCB Board to direct staff to form a working group to address the water provider concerns and produce appropriate intake protection/mitigation language. This language was incorporated into the existing regulations. TWSA staff has been heavily involved in the Nearshore Aquatic Invasive Weeds Working Group (NAIWWG) in the past 5 years. Public comment is offered. Research is conducted and shared with the group.

TWSA’s Executive Director and Chairman are in regular contact with agency staff regarding drinking water provider concerns. Staff has maintained presence on TRPA led planning and workgroup committees for shore zone projects and AIS projects.

TWSA is a sponsor for, and TWSA staff submits articles to TRPA’s *Tahoe in Depth* publication. This magazine is Tahoe’s environmental news print (also online) platform. Print copies are distributed quarterly via US Mail to all property owners in the Basin, and are offered at visitor locations.

4. ***“Maintain and improve project review / involvement process with TRPA, NV State Lands, Lahontan Water Board and other planning/regulatory agencies.”***

Current active projects include:

- *Aquatic Invasive Species (AIS) Programs (threats/prevention programs, treatment methods, Integrated Weeds Management Plan)*

- *Groundwater Contamination at the 'Y' / PCE Plume Project*
- *Tahoe Regional Planning Agency Shoreline Plan and Project Reviews*
- *Nevada State Lands notifications on occupancy of lake bottom*
- *Truckee River Operating Agreement (TROA) Ongoing regulatory updates*
- *Ongoing federal and state regulatory updates*

TWSA members worked with TRPA on establishing a standardized Memorandum of Understanding (MOU) for routine water utility work, reducing the need to obtain individual permits for standard small scale construction and infrastructure upgrades. As outlined above in Action Plan highlights 4.0-4.1; TWSA staff and member agencies are actively involved in the planning and review of projects, activities and regulations related to source water protection at Lake Tahoe.

5. *“Utilize regional studies/projects to determine how they protect source water quality. Continue to work with LTWIP as appropriate.”*

Review of published reports and studies is conducted on an ongoing basis by TWSA staff and member agencies. Intensive staff resources have been directed to research and develop TWSA public comment on the potential use of aquatic herbicides for aquatic weeds control, driven by planning efforts in the Tahoe Keys area. Many of the reports and studies released in the past year are referenced in this annual report.

TAHOE TRUCKEE AREA AGREEMENT FOR MUTUAL EMERGENCY AID

This Agreement for Mutual Aid is to benefit the participating agencies in the event of natural disasters, emergencies, or other assistance that may be requested. The participating agencies have confirmed that a mutual aid agreement would be beneficial.

This Agreement is made and entered into on the dates set forth below, by and between the public agencies set forth below.

WHEREAS, the participating agencies party to this Agreement maintain and operate wastewater and/or water treatment and distribution, collection, transportation and/or treatment facilities in the Lake Tahoe-Truckee areas; and

WHEREAS, the participating agencies have engaged in an informal policy of mutual cooperation wherein the resources of each were available to the other on an as-available basis for the purposes of minimizing environmental damage due to leakage from or destruction of such facilities and of promoting public health; and

WHEREAS, it is the desire of the participating agencies to execute a mutual aid agreement wherein the policy of mutual cooperation is formalized and expanded to meet projected needs of the participating agencies; and

WHEREAS, by becoming a participating agency under the terms of this Agreement, the governing body or board of the participating agency will be deemed to have read and agreed to be bound by the terms of this Agreement.

NOW, THEREFORE, the participating agencies hereto mutually agree as follows:

1. To furnish to each other personnel trained in the emergency operation and/or repair of wastewater and/or water treatment, distribution, collection, and/or transportation facilities, together with equipment, materials and supplies required for such operation and/or repair as may be necessary during emergency conditions, on and subject to the terms and conditions of this Agreement.
2. To provide such emergency aid within the ability of the participating agencies to this Agreement, provided, however, that no participating agency shall be required to deplete its own resources, personnel, services or facilities to the detriment of its normal responsibilities or the detriment of anticipated needs. No agency shall incur any liability or be found at fault for failure to furnish personnel, equipment, materials or supplies when such are available. In addition, each agency shall have the right, at the sole discretion of said agency, to order any personnel, equipment, materials or supplies furnished to another agency be returned to the furnishing agency, without any liability for said order.
3. That no response to an emergency aid request provided for in this Agreement will be made by any participating agency hereto unless such request is received through established communication channels and made by a previously designated responsible

official of the agency requesting such aid. The Manager of each participating agency shall be deemed a responsible official and shall have the authority to designate alternate responsible officials to other participating agencies. No such designation shall be effective until received, in writing, by the other participating agencies.

4. The personnel and equipment furnished by a participating agency (the “Assisting Agency”) shall remain, at all times, under the direct supervision and control of the designated supervisory personnel of the Assisting Agency. In instances where only equipment, materials or supplies are provided by the Assisting Agency, the ownership of said equipment, materials or supplies shall remain with the Assisting Agency and said equipment, materials or supplies shall be returned to the Assisting Agency immediately upon request (unless to the extent that the materials or supplies are perishables and they have been used or exhausted in the emergency response).

Representatives of the participating agency receiving assistance from the Assisting Agency (the “Requesting Agency”) shall suggest work assignments and schedules for the personnel of the Assisting Agency; however, the designated supervisory personnel of the Assisting Agency shall have the exclusive responsibility and authority for assigning work and establishing work schedules for the personnel of the Assisting Agency in conjunction with the Incident Command or the Requesting Agency. The designated supervisory personnel of the Assisting Agency shall maintain daily personnel time records, a log of equipment hours, be responsible for the operation and maintenance of the equipment, materials or supplies furnished by the Assisting Agency, and report work progress to the Requesting Agency.

5. Unless specifically instructed otherwise, the Requesting Agency shall have the responsibility of providing food and housing for the personnel of the Assisting Agency from the time of their arrival at the designated location to the time of their departure. However, Assisting Agency personnel and equipment should be, to the greatest extent possible, self-sufficient while working in the emergency or disaster area. The Requesting Agency may specify only self-sufficient personnel and resources in its request for assistance.
6. Should it be necessary to recover costs or in order to be reimbursed from outside sources, at the sole discretion and request of the Assisting Agency, the Requesting Agency shall pay the Assisting Agency monthly, on receipt of invoice, costs for the equipment, personnel, materials and supplies furnished. Equipment costs shall be reasonable and subject to each participating agency’s established rates. If a participating agency does not have established rates, either actual cost or the most current Schedule of Equipment Rates set by the Federal Emergency Management Agency (FEMA) shall apply. Some participating agencies may require operators to accompany their equipment and therefore the rate may include operator labor costs. All labor will be billed at actual rate paid plus benefits. All expendable materials and supplies will be billed at cost.
7. Any controversy or claim arising out of or relating to this Agreement or the breach thereof, shall be settled by mutual agreement. If dispute cannot be settled by mutual agreement, then dispute shall be settled by arbitration in accordance with the Rules of the American Arbitration Association and judgment on the award rendered by the

arbitrator(s) may be entered in any court having jurisdiction thereof. Arbitration is binding and final.

- 8. The Assisting Agency and its workers' compensation insurer or self-insurer will be liable for any workers' compensation benefits payable on account of an injury or illness to an Assisting Agency employee occurring in the course of providing personnel assistance under this Agreement. The Assisting Agency and its property damage insurer or self-insurer will be liable for any damage to or destruction of any Assisting Agency equipment, material or supplies occurring in the course of furnishing the equipment, material or supplies under this Agreement. The Requesting Agency shall indemnify, defend, protect and hold harmless the Assisting Agency, and its officers, employees, and agents, from and against any Requesting Agency or third party liability, loss, claim, damage, expense, demand, and costs (including, but not limited to, attorney, expert witness and consultant fees, and litigation costs) of every nature arising out of the Assisting Agency's assistance provided under this Agreement, except when caused by the sole negligence or willful misconduct of the Assisting Agency or as otherwise provided or limited by law.
- 9. That each agency shall maintain coverage for liability, property damage, and worker's compensation for industrial injury or illness through insurance or self-insurance, including coverage for its equipment and employees when used by other agencies under this Agreement. Any participating agency to this Agreement shall have the right to evidence of such coverage upon request.
- 10. That this Agreement shall not operate to merge any of the participating agencies hereto, to subject any of the participating agencies hereto to the jurisdiction of any regulatory agency not having jurisdiction in the absence of this Agreement, or to require that any participating agency cooperate with or report to any agency not a party to this Agreement.
- 11. That this Agreement shall become effective as to each participating agency upon execution by that agency and shall remain in full force and effect as to each participating agency until a participating agency terminates its participation in the Agreement. Any participating agency may terminate its rights and obligations under this Agreement by giving all other participating agencies thirty (30) days prior written notice, however such termination shall not affect the rights and obligations of the remaining participating agencies hereto or any rights and obligations of the withdrawing participating agency occurring prior to the effective date of termination.

IN WITNESS WHEREOF, the participating agencies hereto have caused this Agreement to be executed as of the days and years set forth below.

ALPINE SPRINGS COUNTY WATER DISTRICT

Date: _____ By: _____

Attest: _____

DOUGLAS COUNTY LAKE TAHOE SEWER AUTHORITY

Date: _____ By: _____

Attest: _____

DOUGLAS COUNTY UTILITIES

Date: _____ By: _____

Attest: _____

EDGWOOD WATER COMPANY

Date: _____ By: _____

Attest: _____

GLENBROOK WATER COOPERATIVE

Date: _____ By: _____

Attest: _____

INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT

Date: _____ By: _____

Attest: _____

KINGSBURY GENERAL IMPROVEMENT DISTRICT

Date: _____ By: _____

Attest: _____

LAKESIDE PARK ASSOCIATION

Date: _____ By: _____

Attest: _____

NORTH TAHOE PUBLIC UTILITY DISTRICT

Date: _____ **By:** _____

Attest: _____

NORTHSTAR COMMUNITY SERVICE DISTRICT

Date: _____ **By:** _____

Attest: _____

ROUND HILL GENERAL IMPROVEMENT DISTRICT

Date: _____ **By:** _____

Attest: _____

SOUTH TAHOE PUBLIC UTILITY DISTRICT

Date: _____ **By:** _____

Attest: _____

SQUAW VALLEY PUBLIC SERVICE DISTRICT

Date: _____ **By:** _____

Attest: _____

TAHOE CITY PUBLIC UTILITY DISTRICT

Date: _____ **By:** _____

Attest: _____

TAHOE DOUGLAS SEWER DISTRICT

Date: _____ **By:** _____

Attest: _____

TAHOE - TRUCKEE SANITATION AGENCY

Date: _____ **By:** _____

Attest: _____

TRUCKEE SANITARY DISTRICT

Date: _____ **By:** _____

Attest: _____

(Signatures Continued on Next Page)

TRUCKEE DONNER PUBLIC UTILITY DISTRICT

Date: _____ **By:** _____

Attest: _____

SIERRA LAKES COUNTY WATER DISTRICT

Date: _____ **By:** _____

Attest: _____

**Sierra Nevada Alliance (SNAP) AmeriCorps 2022 Program
Tahoe Aquatic Weeds Control and Outreach Specialist (TAWCOS)**

Position description draft 5-18-2021

What is SNAP?

The Sierra Nevada Alliance implements the “Serve the Sierra” Sierra Nevada AmeriCorps Partnership (SNAP) program. They currently place 28 AmeriCorps members with partner conservation organizations throughout the Sierra Nevada in both year-long and half-year positions. During their terms of service, members restore and monitor impaired Sierra watersheds, educate and outreach to Sierra residents and visitors on environmental issues, and recruit and manage volunteers for a variety of programs. SNAP members gain skills and technical training, are mentored by outstanding environmental leaders, and provide a meaningful impact to the communities of the Sierra Nevada. A living allowance, loan forbearance, and health care benefits are provided during the term of service, as well as an end-of-service education award.

Tahoe Aquatic Weeds Control and Outreach Specialist (TAWCOS)

This position description is modeled from a long-standing, seasonal, multi-member AmeriCorps Aquatic Invasive Species Control Program hosted by the Squam Lakes Association (SLA) located in Holderness, New Hampshire.

<https://www.squamlakes.org/SLA-overview>

<https://www.squamlakes.org/lrcc-squam-lakes-association/LRCC-summer>

Six half-year positions (22.5 weeks) are proposed for the SNAP 2022 AmeriCorps “Serve the Sierra” summer/fall program. Members will scuba dive to remove aquatic invasive species, monitor water quality, lead volunteer crews, run engaging environmental education programs, educate the public on local and regional conservation initiatives, and more.



Goals for the TAWCOS Program

A primary goal of the program is to develop skills and experience for conservation professionals. This proposed program provides hands-on conservation work experience and numerous certifications over a broad range of areas; filling a need for specialized restoration staff.

By provide professional training in aquatic restoration services, the program can support non-chemical control methods testing and control projects outlined in the Lake Tahoe Aquatic Invasive Species Action Agenda, 2021-2030. Lake Tahoe is an Outstanding National Resource Water (ONRW) renowned for its extraordinary clarity and blue color. Climate change effects, the millions of people that visit the Lake Tahoe Region annually, and aquatic invasive species (AIS) amplify existing and predicted stressors on Lake Tahoe aquatic ecosystems. Enhancing resilience to these and other stressors is needed to mitigate detrimental effects to ecosystems, the local economy, and the public. To address the introduction and expansion of AIS to Lake Tahoe, the California Tahoe Conservancy initiated an effort to develop short- and long-term management targets and a set of specific actions to control AIS in the Lake Tahoe Region. This Action Agenda implements a comprehensive, robust, simultaneous, science-based, and aggressive suite of AIS control actions through the next decade to reduce the economic, environmental, and social effects of AIS in the Lake Tahoe Region. The Agenda describes a 10-year (2021–2030) two-phased effort.

The U.S. Army Corps of Engineers, the California Tahoe Conservancy, and the Lake Tahoe AIS Coordination Committee have worked together to compile this plan. Aquatic invasive species threaten the economic, environmental, and aesthetic value of this important resource to California and Nevada.

The goals of the Plan are to: Prevent new introductions of AIS to the Tahoe Region; Limit the spread of existing AIS populations in the Tahoe Region, by employing strategies that minimize threats to native species, and extirpate existing AIS populations when possible; Abate harmful ecological, economic, social and public health impacts resulting from AIS.

Phase 1 (2021–2025) aggressively treats and controls AIS throughout the Region for five consecutive years while containing AIS and completing AIS control planning for the Tahoe Keys. This program would allow the Tahoe RCD and its underwater restoration contract specialist, Marine Taxonomic Services (MTS) to train and supervised the AmeriCorps dive team members to identify and remove aquatic invasive weeds using hand pulling and DASH (Diver Assisted Suction Harvesting) methods. Tahoe RCD has identified prioritized control locations at several South Lake Tahoe locations (no work to be conducted inside the Tahoe Keys).

The Action Agenda reflects a 272% increase in pace and scale relative to current efforts at a cost of \$7.4 million annually for ten years. This increase in pace and scale creates an identified need for more aquatic invasive species technical support staff.

Proposed Position Description

The League to Save Lake Tahoe (League) will host six half-year positions (22.5 weeks/900 hours per position) as part of the Sierra Nevada Alliance Partnership (SNAP) summer/fall 2022 program. These members will conduct scuba dive to remove aquatic invasive species, lead volunteer crews, run engaging environmental education programs, educate the public on local and regional conservation initiatives, and more. The trainings, certifications, and experiences within the program develop important professional skills that are applicable to future careers within any occupational and educational field.

Summer/Fall members for this position must be PADI or NAUI certified prior to the service term. Candidates with previous experience and training in cold, open water swimming, scuba diving are preferred.

Outreach/Admin Component – 2 days week (16 hours/week)

Working with Lead Partner on Outreach, League to Save Lake Tahoe: the members will offer aquatic invasive species and recreational best practices educational information, managed through the Leagues' existing citizen science and outreach programs.

Potential topics: Site specific, field staged outreach at Tahoe area restoration sites; Recreation Best Practices; AIS Threats, Vectors, and Control Projects

Dive Component = 3 days week (24 hours/week)

Working with TRPA, Tahoe RCD staff and Professional Contractors: The term 'Dive' represents the Eurasian Water Milfoil (EWM) and Curlyleaf Pondweed (CP) "Diver Assisted Suction Harvesting" (DASH) management activities of the restoration program. Most of the dives focus on the hand/suction removal of EWP/CP in less than 20 feet of water. Dives will be staged at multiple locations on public lands in Lake Tahoe, based on Tahoe RCD site prioritization. On "Dive Days", you may spend part of the day topside, collecting AIS pulled up by the divers, packing milfoil into bins for composting at our facility, watching for boats and other threats to our divers' safety, or gathering milfoil fragments that broke off during removal activities. The day could also be spent snorkeling. We survey large sections of the lake in search of invasive plants that have avoided detection. They are then marked with a GPS unit for later removal. Data entry, mapping, and field notations may be part of the assignment.

Diving is hard work, and most dive days will be spent finding, collecting, and disposing invasive plants. Dive days are long, and our divers jump in the water in almost all weather conditions (except during thunderstorms). Expect many cold dive days!

Other Admin tasks consist of data input, timekeeping and administrative tasks.

Rough Schedule:

6 members x 40 hrs. wk. x 22.5 wks. = 5400 Project hours - total minimum including training, etc.
 = Training (1000 hours total) frontloaded in April/May (167 hours per member)
 = Dive time (2700 hours total) – calculated for @ 50% total allocation (450 hours per member)
 = Outreach (1700 hours total) (284 hours per member)

Approximate Budget – in early draft development.

Program cost, capital purchases and general operating: proposed budget is roughly \$98,000; appx. \$ \$20/hr. per member. In kind staff costs have not been calculated in to this estimate. Enhancing the stipend with provided seasonal housing would increase this estimate appx. \$25,000.

Fiscal Partners / In Kind Supporters

The League to Save Lake Tahoe has taken project lead; providing significant cash and staff resources. They are proposing to cover the Program Sponsorship (6 AmeriCorps) \$50,000 cash plus in-kind staff SNAP supervisor (20 hours/2 days/week).

Tahoe Keys Property Owners Association (TKPOA) - Potential site implementation support; in kind use of boat, gasoline storage. \$25,000 cash plus in kind staff (15 hours week).

- * Tahoe Water Suppliers Association (TWSA) - capital purchase of purchase of non-diver specific reusable dive equipment for 6 divers (SNUBA setup; BCD, regulator, dive computer (combo); Assorted dive safety equipment / survey equipment. \$15,000- \$18,000 cash plus in kind admin. staff - 2 hours week.

Tahoe Resource Conservation District (Tahoe RCD):

On-water supervisor days (30 hours / 2.5 days a week in kind staff)

Tahoe Fund / Private Donor: Diver specific needs (wetsuits, fins, mask, gloves, hoodies (possible reuse) and training costs (\$5,000 cash)

Training Requirements:

All members will be required to pass the scuba and weed control diver certification classes that is provided through regional AIS staff. The following proposed trainings will be offered to the entire team; regardless of initial background or experience; in order to develop a team with standardized baseline trainings. It is anticipated that this training would be front loaded for completion in April/May, in the initial part of the term:

Members will receive the following proposed trainings over the course of the program:

- Weed Control Diver training/certification
- Lake Host training
- Safe Boating certification
- Wilderness First Aid & CPR certifications
- Tahoe Boat Inspection training?
- Water Quality testing training
- Sierra/Tahoe ecosystems restoration training
- Other training?

Candidate Qualifications:

- Must be 18 years of age by May XX, 2022
- Must be covered by health insurance for duration of program
- **Summer/Fall members for this position must be PADI or NAUI certified prior to the service term.**
- Must be a competent swimmer
- Able to lift 50 pounds
- Able to carry and use heavy tools
- Able to work independently and with a group
- Available from April 2022-Oct. 2022 (end date dependent on completion of service hours)
- Must apply online
- Must meet the Corporation for National Community Service's minimum requirements:
 - Must clear all required National Service Criminal History Checks
 - Must be a US citizen, US national, or legal permanent resident of the US
 - Must be high school graduates, GED recipients, or must be working toward attaining a high school diploma or GED during their term of service

Stipend

- Housing with kitchen facilities (?????????)
- Living allowance \$211 weekly, distributed biweekly
- AmeriCorps Education Award of \$3,097.50 received upon successful completion of program (minimum of 900 hours)

Key concerns for placing Tahoe Area members:

Housing with kitchen facilities (some form of group hosted lodging near worksite staging w/In Tahoe Keys?) Housing is provided for LRCC-SLA members on the SLA's campus. Is the CCC Campus a possibility?

Transportation of crews to site locations?

Site and personnel equipment

COVID 2022 contingencies



* **TWSA Capital Purchase {Proposal} or tank rental costs**

Option 1:

3 diver x 2 person per unit

Brownies Third Lung Diving Systems (gas powered) = appx. \$13,000 with tax/shipping

PIONEER Diving System - <https://www.browndive.com/product/the-pioneer-diving-system>

Pioneer "PRO" package: \$3,995.00

The Pioneer Diving package was designed to be both light weight and easy to function. On land, carrying the unit is easier than moving a single scuba tank and BC. With its hard cover Travel Case, the Pioneer is easy to store and easier to transport than regular scuba gear, making the Pioneer the perfect system for exotic dive vacations. The Pioneer Diving package was designed to be both light weight and easy to function. On land, carrying the unit is easier than moving a single scuba tank and BC. With its hard cover Travel Case, the Pioneer is easy to store and easier to transport than regular scuba gear, making the Pioneer the perfect system for exotic dive vacations.

Pioneer – 2 Diver Standard Package: Includes: motor/compressor assembly, storage case with impact resistant HDPE cover and 7 ft heat hose with easy to clean in-line particle filter.

System includes:

- **Engine:** 4.0 HP 4-Cycle Honda
- **Compressor:** Single Head Direct Drive Oil-less
- **Run time:** 3 hours per tank of gas
- **Depth:** 2-3* divers to 33 ft with **Standard Package** and 2 divers to 65 ft with **PRO Package**

With the purchase of an Add-A-Diver kit

- **Weight:** 44 pounds – compressor in storage case
- **Dimensions:** 17" L x 24" W x 14" H (in storage case)

QTY ITEM

- 1 40ft common down line with QRS fittings
- 2 20ft individual diver hoses with QRS fittings
- 2 Brownie's™ hookah regulators
- 2 Brownie's™ patented Drop Weight Cumberbelts™
- 1 Intake staff w/dry top
- 1 Dive flag
- 1 Float tube
- 1 QRS Y-Divider
- 1 Deluxe mesh duffel gear bag
- 1 Owner's Manual

Pioneer "PRO" package: \$3,995.00

Substitutes the 40 ft common downline with a **60 ft common downline;**

also includes:

- (2) Wrist mount diving computers
- (2) Spare Air add on packages

Option 2:

Brownie's VS Sea Lion 3.0 (RECHARGEABLE – lithium ion power)

3 diver kit x 3 = \$19,000 (2 divers per unit)

3 diver kit x 2 = \$ 13,000 (3 divers per unit = awkward working configuration)

\$5,995.00 plus \$200 shipping each tax and shipping

Brownie's VS Sea Lion 3.0 electric hookah system delivers the ultimate in hookah diving. This environmentally friendly system is powered by a strong 24V lithium ion battery, yet it performs like a gasoline powered unit - reliability so you dive with ease. No more fuel cans and hauling gasoline along. Fitted with Brownie's Variable Speed technology, your air delivery will be consistent throughout the dive. Even better, you can plan your dive, estimating down time with the maximum depth selector.

This unit comes complete with everything you need to get up to 3 hookah divers in the water (to a maximum depth of 35 feet). As with all Brownie's units, you can add additional hookah divers with their add-a-diver kits or increase your depth range with additional hoses and fittings.

System Includes

- Motor/compressor assembly
- Storage case with impact resistant HDPE cover
- 7ft heat hose with in-line particle filter

- One 24V lithium ion battery w/ custom terminals
- One battery charger - 110V /220V compatible
- One 2.5 gallon accumulator tank
- One 60 foot common down line with QRS fittings
- Three 20 foot individual diver hoses with QRS fittings
- Three Brownie's™ hookah regulators
- Three Brownie's™ patented Drop Weight Cummerbelts™
- One intake staff w/dry top
- A dive flag
- A float tube
- Two QRS Y-dividers
- A 5 liter Brownie's dry bag
- A deluxe mesh duffel gear bag
- An owner's manual

Brownie's VS Sea Lion 3.0 Features:

- 0.75 hp sealed DC motor powered by (1) 24V / 63.8 amp-hour lithium ion battery
- Single head direct drive oil-less compressor
- Up to 3+ hours run time available
- Maximum depth selector
- Depth: 2 divers to 65 feet / 3 divers to 35 feet
- Weight: Unit only 33lbs, battery 22lbs, gear bag 35lbs
- Dimensions in storage case: 17 L x 24 W x 14 H (inches)

Grant funding submittal that TWSA staff located for TKPOA/TRPA

ELIGIBILITY REQUIREMENTS AND REVIEW PROCESS

Applicants must meet all of the Eligibility Requirements set forth in the Solicitation and meet all of the [Terms and Conditions](#) in the Partial List of Mandatory Terms and Conditions. Both can be downloaded from <https://www.cdpr.ca.gov/docs/pestmgmt/grants/alliance/index.htm>.

Department of Pesticide Regulation (DPR) staff will review Concept Applications for adherence to the Eligibility Requirements. Applicants who submit Concept Applications and meet all of the Eligibility Requirements set forth in the Solicitation will be invited to submit a Proposal Application.

CONCEPT APPLICATION

All four parts of the Concept Application must be completed for the application to be considered.

Part 1: Applicant and Submitter Information

Notification Information

Contact Person:

Name:

Organization:

Position:

Email:

Street Address:

Submitting Person (if different from the contact person):

Name:

Organization: Sierra Ecosystem Associates

Position: Biologist / Natural Resources Analyst

Email:

Street Address:

Part 2: Certification and Submission Statement

I certify under penalty of perjury:

- I am the applicant or an employee of or a consultant for the Applicant and I am authorized to submit this application;
- The information provided is true and complete to the best of my knowledge, and;
- I understand that any false, incomplete, or incorrect statements may result in the disqualification of this application.

By submitting this application, I waive any and all rights to privacy and confidentiality of the proposal, to the extent provided in this Solicitation.

Submitted By:

Relationship to Applicant (if applicable):

Submission Date:

Part 3: Eligibility Questions

Applicants must answer **yes** or **no** to each of the following questions:

- Does the project intend to increase the implementation and adoption of existing and effective integrated pest management (IPM) practices that include a combination of techniques, such as habitat manipulation, modification of cultural practices, and reduced-risk pesticide use?
- Does the Applicant meet all of the Eligibility Requirements set forth in the [Solicitation](https://www.cdpr.ca.gov/docs/pestmgt/grants/alliance/index.htm)? Available for download at <https://www.cdpr.ca.gov/docs/pestmgt/grants/alliance/index.htm>
- Can the applicant meet all of the [Terms and Conditions](https://www.cdpr.ca.gov/docs/pestmgt/grants/alliance/index.htm) stated in the Partial List of Terms and Conditions? Available for download at <https://www.cdpr.ca.gov/docs/pestmgt/grants/alliance/index.htm>
- Does any participating entity or individual have outstanding fines or penalties with DPR or with any County Agricultural Commissioner?
- Is the amount of funding requested within the minimum and maximum funding limits of \$50,000-\$400,000?
- Does the project focus primarily on research? (Note: Alliance Grant projects must not focus primarily on research, although research may be a minor component of the overall project. If the answer to this question is “yes”, the concept application may be more appropriate as a Research Grant.)
- Does the project primarily benefit the people of California?
- Will the project’s deliverables be freely available to the public?
- Can the project be completed without the mention, promotion, or disparagement of a pest control brand or trade name in the deliverables or the use of product images in the deliverables?
- Do the applicants and project members have the appropriate background and technical experience to complete the project?

Part 4: Project Details

Project Total Budget: \$

Project Description: Provide a description of the project and a narrative for how the project will achieve the goals of the Alliance Grants Program. (4,000 characters maximum).

IPM Practices: Describe the IPM practices that will be promoted, enhanced, or improved by the project. (1,000 characters maximum).

Project Team: List team members and their affiliations, as well as their role on the Alliance Team. (1,000 characters maximum).

Relevant Stakeholders: Who are the project's primary stakeholders in California and why would they be interested in the project's outcome? A stakeholder is an individual, group, or environmental entity with an interest, concern, or connection to the pesticide-related problems or the IPM-based solutions that the project plans to address. (4,000 characters maximum).

Economic Feasibility: Describe the predicted feasibility of the project as it relates to the implementation and adoption of the proposed IPM practices. (2,000 characters maximum).



April 12, 2021

California Department of Pesticide Regulation
RE: Concept Application – Letter of Support from Tahoe Water Suppliers Association

Dear Review Committee,

This is a letter of support for the grant submittal entitled “Tahoe Keys Invasive Aquatic Plant Integrated Treatment Project”. The proposed project would deploy a range of non-chemical weed control methods as part of an Integrated Pest Management (IPM) strategy to minimize or eliminate the use of aquatic herbicides.

This topic is of prime importance to the municipal water suppliers at Lake Tahoe, many of whom possess minimal requirements for drinking water disinfection (including 6 ‘filtration exemption’ systems); due to the exceptional high quality of Tahoe as a drinking water source.

Since 2002, we have monitored and been engaged in activities in the Tahoe Basin Watershed, as part of the TWSA members’ Watershed Control Program E.P.A. requirements. Our staff and Board have been involved in the Tahoe Keys Control Methods Tests project development and Stakeholder Working Group for many years now.

The potential use of herbicides has been of concern to the TWSA members, since Lahontan authorized modifications to the Basin Plan Amendment. Over this time, the TWSA Board has publicly supported full exploration (including field testing) of existing and emerging non-chemical methods available, before herbicide use is authorized.

For this reason, the TWSA supports this project. It is an excellent opportunity to field test a combination of (existing and emerging) non-herbicide methods, in challenging conditions, in an effort to potentially avoid the use of aquatic herbicides. The DPR-funded project would occur between 2022-2024 within the Tahoe Keys where laminar flow aeration (LFA) has been used since 2018. This project would build upon the ability to use LFA in combination with other non-chemical methods; with strong science and monitoring behind the efforts.

Sincerely,

Madonna Dunbar, MFA/BFA
Resource Conservationist, Incline Village GID (IVGID) -Waste Not Programs
Executive Director, Tahoe Water Suppliers Association (TWSA)

Status of the Tahoe Keys Lagoons Aquatic Restoration Project

**By Kirk Wooldridge, General Manager and
Andrew Kopania, Water Quality Committee - Chairperson**

ON DECEMBER 11TH, 2020, the Tahoe Keys Property Owners Association (TKPOA), received written notice of a “Regulatory Process Schedule Revision” for the TKPOA’s The Tahoe Keys Lagoons Aquatic Restoration Project from Mike Plaziak the Acting Executive Officer of the Lahontan Regional Water Quality Control Board (LRWQCB).

This letter was a follow-up from the LRWQCB public workshop for the Tahoe Keys Lagoons Aquatic Restoration Project on Thursday, November 19th, 2020. The LRWQCB conducted an informational workshop that provided an overview of the Basin Plan pesticide prohibition exemption process and National Pollutant Discharge Elimination System (NPDES) permitting process for this important TKPOA proposed project. As part of this workshop they also received public comments, and presentations from the Tahoe Regional Planning Agency (TRPA), TKPOA and LRWQCB staff on the status of the draft Environmental Impact Report/Environmental Impact Statement (EIR/EIS).

After the review of this Public Workshop and meeting with the TKPOA staff and Water Quality Committee (WQC) it has been recommended by the LRWQCB staff to shift the schedule from March 2021 to September 2021 to bring the Final EIR/EIS, proposed Basin Plan Prohibition Exemption, and proposed NPDES permit for the Tahoe Keys Lagoons Aquatic Restoration Project (Project) before the LRWQCB Board of Directors.

Back in March 2019, LRWQCB staff expressed confidence that this overall permit action consisting of the above-referenced documents could be brought before the LRWQCB for consideration by spring 2021. In addition to this, Rob Tucker, LRWQCB Senior Water Resource Control Engineer, also attended the TKPOA Board of Directors – Regular Open Board meeting on March 16th, 2019 and provided an overview of the Basin Plan prohibition exemption, and proposed NPDES permit review timing at that meeting.

CONTINUED ON PAGE 14

STATUS OF THE TAHOE KEYS LAGOONS AQUATIC RESTORATION PROJECT
CONTINUED FROM PAGE 11

LRWQCB staff has also attended the past fifteen TRPA – Tahoe Keys Lagoons Aquatic Restoration Project Stakeholders Committee meetings since 2018. The TKPOA had also recently provided a revised Aquatic Pesticide Application Plan (A.P.A.P.), based on the LRWQCB staff’s recent request for revisions.

Unfortunately, conditions recently identified below by the LRWQCB staff have collectively contributed to this “Regulatory Process Schedule Revision” and a delay in this schedule:

- In the fall 2019, the LRWQCB underwent a reorganization creating a temporary reduction in Staff available to work on the Project. That situation has been rectified for this Project.
- The LRWQCB experienced significant resource reductions due to COVID-19 early this year as select staff were re-assigned to address critical contact tracing needs levied by the Governor to address public health agency shortfalls. Those re-assignments continue in our region, yet the workload has not diminished and has been redistributed among staff.
- Furloughs were implemented at the beginning of this fiscal year for all state employees. The consequence of the furlough is a reduction of two days per month in staff time and this has impacted the LRWQCB staff.
- Following release of the Draft EIR/EIS (middle/late summer 2020), LRWQCB staff began assisting with responding to over 3,000 comments submitted on the Draft EIR/EIS. The unanticipated volume of comments on this document has required significant staff resources to address.
- Work on the Basin Plan prohibition exemption and the draft NPDES permit revealed data gaps in the record supporting the prohibition exemption and NPDES permit. The LRWQCB staff concluded that the documents had either (1) not been updated to reflect significant changes to the Project proposal submitted in 2018; (2) had not undergone peer review required by Basin Plan prohibition exemption criteria; or (3) had not been provided.

The TKPOA staff, Water Quality Committee, contracted consultants, and related regulatory agencies do not fully agree with the last statement and will continue to investigate and respond to the three points in that statement. Based on a follow up meeting with LRWQCB staff, they will prepare a list of the remaining information needed to prepare the draft Basin Plan prohibition exemption and draft NPDES permit.

What does this “Regulatory Process Schedule Revision” (which means a proposed eight-month delay or more) mean to the TKPOA property owners? First, it means that if we had received approval in March 2021 as planned for the Tahoe Keys Lagoons Aquatic Restoration Project the TKPOA would have moved forward with the Small-Scale Herbicide Testing in the West Channel Lagoons in the spring of 2021 when the environmental conditions are optimal and in accordance with our application. This means we miss this window for the spring of 2021 to move forward with this test. Based on receiving approval in September 2021 the Small-Scale Herbicide Testing in the West Channel Lagoons would be schedule for the spring of 2022. Second, this means that the TKPOA will have to provide additional documentation and data to respond to the additional requests and reviews currently alleged by the LRWQCB staff. This additional work on the Tahoe Keys Lagoons Aquatic Restoration Project application will further support the basis for a legally defensible application and potential LRWQCB approval. Third, this means that the conditions for RESOLUTION TKPOA #2019-0087 “Authorization to Pursue Regulatory Approvals for the Use of Aquatic Herbicides to Control Aquatic Invasive Weeds in the Tahoe Keys Lagoons” that was approved by TKPOA property owners vote will not be met in March 2021 that would have resulted in the “Third Payment of the Special Assessment.” This “Third Payment” would be not more than \$600 conditioned on successful completion of the EIR/EIS required by the California Environmental Quality Act (CEQA) for the approval of the small-scale testing of aquatic herbicides. This payment would cover the cost of work required to receive the approvals for full-scale use of herbicides in the future. Based on this delay in the decision process and delay of the potential

successful completion of the EIR/EIS, the TKPOA is now facing a funding issue for the work that may need to be performed to keep this process on track, as well as any additional work the TKPOA may want to perform in support of this application for the next eight months or more.

Moving Forward

Based on this “Regulatory Process Schedule Revision” that is causing a proposed eight-month delay, the TKPOA WQC will be continuing to work on the Aquatic Invasive Weed Control Methodology Test Project application support as well as implementing and evaluating some of the non-herbicide alternatives submitted as part of our application in the West Channel Lagoons. The TKPOA WQC and Water Quality Staff will also be contacting the Regulatory Agencies, Environmental Non-Profit Groups, member agencies of the Stakeholders Committee and Stakeholders Consultation Circle (SCC) that have been participating in the Tahoe Keys Lagoons Aquatic Restoration Project Stakeholders Committee meetings—conducted by the TRPA and Zephyr Collaboration for the support of the EIR/EIS process, to determine if there is any grant funding and/or Tahoe Keys Waterways Restoration Fund 501(c)3 (TKWRF) donations available.

Based on the support identified, potential grant funding, TKWRF Funding and other TKPOA funding the following projects are proposed for the 2021 summer:

- Continue the implementation of the Water Quality Assessment Second Payment Special Assessment Projects as approved by TKPOA Membership Vote
- Continue the testing and evaluation of the existing TKPOA Lagoon Water Circulation System
- Additional small-scale pump installations for lagoon water circulation system augmentation and evaluation
- Additional West Channel Lagoon Bubble Curtain installation and evaluation
- Support of Bubble Curtain installation in the East Channel (TRPA funded)
- Evaluation of current Laminar Flow Aeration (LFA) system installation

- Additional small-scale LFA systems installation and evaluation
- Ultraviolet (UV) light treatment applications and evaluation
- Small-scale diver assisted hand AIS weed removal with suction implementation and evaluation
- Floating Wetlands Program installation and evaluation
- 2022 proposed TKPOA Small-Scale Herbicide Testing Project Planning
- Ongoing evaluation of TKPOA Weed Harvesting programs to meet LRWQCB Waste Discharge Requirements (WDR)

As demonstrated, there is still additional work that can be done to move the Tahoe Keys Lagoons Aquatic Restoration Project forward with the best support of tested and scientifically based programs during this unfortunate delay.

All of our Water Quality work and the special assessment payments can be characterized as an investment in the future of the Tahoe Keys. Greatly reducing or eliminating the aquatic weeds from the Tahoe Keys Lagoons is anticipated to improve the quality of boating, recreation, and aesthetics thereby improving property values throughout our community.

Questions or Request for Additional Information

Please check the project website: www.tahoekeysweed.org for public workshops, outreach materials and additional information. Also contact the TKPOA front desk at (530) 542-6444 Monday through Friday 8:30 am–4:30 pm and additional information can be found on the TKPOA website at www.tkpoa.com, and www.keyswedsmanagement.org.

For more information or to make a donation to the Tahoe Keys Waterways Restoration Fund 501(c)(3) (TKWRF) contact the El Dorado Community Foundation at (530) 622-5621 or through their website: www.eldoradocf.org.

TAHOE KEYS WATER COMPANY— UPDATE

**By Daniel Larson – Water Company/
Water Quality Manager**

THE TAHOE KEYS WATER COMPANY (TKWC) sent a letter dated December 22nd, 2020 to all Tahoe Keys Property Owners Association (TKPOA) property owners which included the State Water Resources Control Board (SWRCB) Tier 2 Notification regarding the presence of Uranium in Well #2. The TKWC staff have been receiving calls regarding the safety of the water from our wells. We are communicating with the SWRCB on a regular basis and continue to monitor the contaminate levels (Uranium, Arsenic, and PCE) on a modified schedule. The TKWC staff are committed to providing safe water to our customers. To address these concerns, we can state the TKWC water does not present a health risk and yes, it is safe to drink.

Naturally occurring Uranium and Arsenic has been detected in our TKWC [ID# 0910015] Water Distribution System in minimal levels since 2016. Our Well #2 has recently tested in excess of the Maximum Contamination Level (MCL) that is determined safe by the Environmental Protection Agency (EPA) and the SWRCB. On November 17th, 2020, Well #2 has tested for Uranium at 45.5 ppb which is above the SWRCB MCL of 30 ppb. The EPA defines the MCL in “parts per billion” (ppb) and the SWRCB defines the MCL in “picocuries” (pCi/L). (TKPOA test 28.5 pCi/L MCL 20.0 pCi/L)

We notified the SWRCB immediately when we received our test results indicating elevated Uranium levels and took Well #2 off-line completely and isolated it from the water distribution system. As stated above we also notified all TKPOA property owners via mail on December 22nd, 2020, which included a letter from TKWC, EPA information on Uranium, and the SWRCB Notification, a copy of the information on the TKPOA webpage a www.tkpoa.com, and on the Pavilion bulletin board.

Our source waters are now sampling for elevated levels of natural occurring Uranium and Arsenic at all

three TKWC Wells. Wells #2 and #3 are either above the MCL or exceeding the benchmarks established by the Environmental Protection Agency (EPA) and our governing agency, the State Water Resources Control Board (SWRCB) for Uranium. Neither of these two wells are currently above the MCL for Arsenic even though Well #2 did spike above the MCL once. Well #1 is notably below the MCL for both Arsenic and Uranium, however it has sampled above 3.6 ppb for Perchloroethylene (PCE).

Currently, we have configured Well #1 as our primary water source and restricted Well #3. The TKPOA Board of Directors have approved additional sampling and testing to ensure we stay ahead of any significant changes in our well water supply quality.

Well #1 has tested slightly above ½ MCL for Uranium and is operating as our primary water source. Well #1 is capable of pumping slightly over 1000 GPM which should be adequate for the winter months. However, we are not sure what effect the continual operation of Well #1 as the primary water source will have on its PCE levels. Well #1 has tested recently at 3.6 and 3.4 ppb for PCE which is under the 5 ppb MCL but is close enough to warrant weekly monitoring.

Well #3 has tested slightly above the MCL for Uranium two consecutive quarters, and in compliance with the “Compositing Rule (40 CFR 141.26(4))” if the next two quarterly samples test in excess of the MCL, the TKWC will be in violation of exceeding the MCL for Uranium. The Compositing Rule defined when testing for radionuclides (Gross Alpha, Radium, and Uranium) compliance will be determined by the “Average Analytical Results (AAR)” of four consecutive, quarterly tests in one year. If the sum of these four tests divided by four is greater than the MCL (30 ppb) the water purveyor is in violation of the MCL. Well #3 is capable of pumping slightly in excess of 1200 GPM and is currently operating as our secondary water source if it is needed to help keep up with demand.

STATE WATER RESOURCES BOARD MONITORING FREQUENCY

< Detection Limit	1 Sample Every 9 Years
≤ Detection Limit and ≥ One-half MCL	1 Sample Every 6 Years
<One-half MCL ≥ the MCL	1 Sample Every 3 Years
> MCL	1 Sample Per Quarter Until Results from 4 Consecutive Quarters ≤ MCL

EPA: MCL 30 ppb, SWRCB: MCL 20pCi/L

**To convert between pCi/L and ppb is an easy conversion
(example 30 ppb X .67 = 20 pCi/L and 20 pCi/L X 1.49 = 30 ppb.)**

The TKWC also has an inter-tie with South Tahoe Public Utility District (STPUD) which is approved by our SWRCB permit to provide up to 478 GPM in case of emergency. However, this inter-tie is solely owned and operated by STPUD. The TKPOA staff and Board of Director will be in communication with the STPUD to determine our options to meet our demand.

These two contaminants are not uncommon in ground water sources here in California and around the Country, and there are tested, and proven, methods for removing these contaminants safely and reliably which are currently in operation around the Country.

In addition to these contaminants, most of you are aware that the Water Purveyors in the South "Y" have been confronting an issue with Perchloroethylene (PCE) for past thirty years. PCE is a man-made chemical that has been deposited of improperly and has found its' way into the local aquifers and ultimately our water supply. In 2008, the contamination level for PCE at our Well #2 exceeded the MCL that is determined safe by the EPA, and SWRCB. The TKPOA had to shut down Well #2 until an approved treatment process could be installed. In 2010 Well #2 was placed back online with two 20,000 lbs. Granular Activated Carbon (GAC) vessels and carbon media to filter out the PCE. We continue to sample and test all three wells on a regular basis to monitor our water supply for PCE. Well #2 is still above the MCL but with the GAC filtration system it is PCE free. Our Well #3 has tested positive PCE once, and it was a very minimal level, Well #1 has traces of PCE contamination but it is currently below the MCL.

On December 16th, 2020, the TKPOA Board of Directors have approved the immediate release of a "Request for Proposal" to water system Engineers and Consultants to analyze the most expedient solution to our contamination problems through a "Long Term Facilities Plan." This plan will also address the ongoing PCE plume contamination that could affect the TKPOA water supply in the future.

The TKWC is optimistic we will be able to provide sufficient amounts of water to meet the demand through the winter months, however the summer months may become a challenge. If you recall last summer when we temporarily lost power to the Well #3 VFD and lost pressure in the distribution system, the TKWC had to issue a "Boil Water" mandate. The TKWC estimated we were losing close to 2,000 gallon-per-minute on the ground via the irrigation of Common Areas and Residential Landscaping, which significantly contributed to the loss of water pressure in the system.

Possibly the most pressing question, right now, since we all consume the water is, "what are the health risks?" The Federal and State experts define the risks to Public Safety and we react accordingly. The MCL is the threshold the experts have determined is the maximum level of a contaminate which can be consumed before presenting a risk to Public Health.

For more information contact the TKPOA Water Company at (530) 542-6451. For any Water related Emergencies please contact our 24-hour number at (530) 318-4268.



WORKING TOGETHER TO SOLVE THE TAHOE KEYS WEEDS PROBLEM

Dear Tahoe Keys Property Owners:

MANY OF US LIVE AND PLAY HERE because we know Lake Tahoe is a special place. I feel fortunate to have spent the last 11 years serving as Executive Director of the Tahoe Regional Planning Agency (TRPA). A bistate compact created our agency 50 years ago to lead the regional initiatives to protect Lake Tahoe's environment and strengthen our communities.

Aquatic invasive species pose an enormous threat to our treasured lake. They destroy ecosystems around the globe and with them biological balance and economic stability. Since 2008, TRPA has been leading a broad collaborative partnership to combat invasive species in the Tahoe Region. As many of you know, we inspect every boat that enters Lake Tahoe to prevent new invasions, in addition to implementing control and eradication projects around the lake.

Aquatic invasive weeds in the lagoons of the Tahoe Keys are growing out of control and are considered the number one priority for treatment. The shallow, warm waters in the Tahoe Keys create conditions favorable to the growth of aquatic weeds, causing the water's murky green hue throughout the summer and greater risk of toxic algal blooms.

The Tahoe Keys lagoons comprise the biggest aquatic weed infestation in Lake Tahoe at 172 acres. This infestation is more than five times larger than the

combined area of all other marinas around Lake Tahoe. A science-based plan produced by the University of Nevada, Reno identifies the Tahoe Keys lagoons as the primary source for new infestations around the lake.

This fall, we quickly deployed a team to work on a weed infestation of more than 100 acres just outside the Tahoe Keys west channel, with an initial investment of \$150,000 of public and non-profit funds. This additional infestation within Lake Tahoe will be an ongoing project for the next few years that will require more resources to curb the spread.

We know that the Tahoe Keys Property Owners Association has been working on the aquatic weeds problem for decades, with significant time and financial investments. Despite that attention, we've lacked consensus on a path forward with support from the diverse interests of agencies, the public, and private property owners. Meanwhile, the weeds in the Tahoe Keys have grown worse with every passing year.

I am grateful for your support and commitment to fighting aquatic invasive species in your backyard. You and your property owners' association have tried and tried again, yet comprehensive solutions are elusive. Your work is appreciated and has shown us that the scale of this problem does not lend itself to any single solution.

More generally, what decades of experience has revealed to everyone is that to solve the lake's toughest, most vexing problems — like invasive weeds at the



Tahoe Keys — it often takes a much more collaborative approach to reach a total solution.

Several years ago, we shifted our mindset to make the Tahoe Keys weeds infestation our collective problem. We agreed to move forward together with the common interest of protecting the Tahoe Keys, the lake, and Tahoe's \$5 billion economy. The collaborative approach engages property owners with agencies, key stakeholders, and the public as partners rather than adversaries.

With this collective goal in mind, TRPA set out to secure funding to contribute toward a supported solution. TRPA worked at the federal level for several years seeking special sources of funds and, over the last 3 years alone, we've contributed over \$2 million to the cause. Those dollars from the federal Lake Tahoe Restoration Act and the U.S. Army Corps of Engineers funded:

- The technical studies and a comprehensive analysis of environmental impacts.
- A facilitator to help work with stakeholders and the public.
- Contributions to various treatment methods.

TKPOA's proposed pilot test would assess a variety of aquatic weed control methods, such as ultraviolet light, laminar flow aeration, and aquatic herbicides. This proposed test project will help determine which combination of methods is most effective in controlling

aquatic weeds within the Tahoe Keys lagoons.

This summer, we released a Draft Environmental Impact Statement/Environmental Impact Report analyzing the potential effects of the tests of all available methods. Studies over the last two years show no harmful effects from the pilot test as proposed. The only thing that will have a significant negative environmental effect is to delay the tests and maintain the status quo.

Lake Tahoe's sensitive environment warrants moving carefully toward a final remedy, using testing first to assess effects without waiting so long that the problem becomes irreparable. Time is running out and we must act.

Finding solutions to control and prevent aquatic weeds in the Tahoe Keys lagoons is not an easy problem to solve. The heart and success of hard solutions in Tahoe have been built as public private partnerships like this one we've created. We look forward to continuing to be a partner with you through every step of this journey.

In the meantime, I encourage you to visit www.tahoekeysweeds.org to learn more about the proposed test project and next steps.

Your committed partner in battling aquatic weeds,

Joanne S. Marchetta
TRPA EXECUTIVE DIRECTOR

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—IT'S YOUR WATER, YOUR COMPANY— TAHOE KEYS WATER COMPANY

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PUBLISHING DISCLOSURE NOTICE

The *Keys Breeze* is the official monthly publication of the Tahoe Keys Property Owners Association (TKPOA), which is located at 356 Ala Wai Blvd., South Lake Tahoe, CA 96150. Each membership parcel receives one subscription to *Keys Breeze* mailed to a domestic address. Cost to produce and distribute this publication is offset by advertising revenues and budgeted funds. The inclusion of advertising in this publication does not constitute an endorsement or recommendation by the Tahoe Keys Property Owners Association or its Board of Directors of the projects, services or views contained therein.

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COVER PHOTO Kirk Wooldridge

Printed on recycled paper with soy-based inks.

THERE ARE APPROXIMATELY 100 mutual water companies owned by Home Owner Associations in California servicing from less than 1,000 property owners to as many as 10,000 property owners. The Tahoe Keys Water Company (TKWC) is a privately owned, unincumbered, non-profit mutual water company owned by the Tahoe Keys Property Owners Association (TKPOA) members servicing about 1,528 property owners and four commercial accounts. In 2020 the TKWC produced over 340 million gallons of water for the year. 305 million gallons were produced from May through October which is our peak season. During this 6-month period the 305 million gallons we produced would equate to approximately 33,000 gallons per month, per household. If we were to average 340 million gallons produced over the entire year, this would equate to 18,000 gallons per month, per household. The water industry estimates that an average person uses 3,000 gallons



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The Keys Breeze Magazine
IS THE OFFICIAL PUBLICATION
OF THE TAHOE KEYS PROPERTY
OWNERS ASSOCIATION

356 Ala Wai Boulevard
South Lake Tahoe, CA 96150
(530) 542-6444 p
(530) 541-2521 f
tkpoa.com

ADMINISTRATIVE OFFICE HOURS
8:30 a.m. to 4:30 p.m. Daily

**TAHOE KEYS PROPERTY
OWNERS ASSOCIATION**
Kirk J. Wooldridge
General Manager, Ext. 224

Heather Blumenthal
Operations Manager, Ext. 228

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Architectural Control Dept.
Manager, Ext. 239

Tom Callahan
Facilities Manager, Ext. 226

Vacant
Project Coordinator/
Property Manager, Ext. 241

Bill Spicer
Pool Supervisor (530) 545-4124

Security (530) 545-0847

Daniel Larson
Water Company and Water
Quality Manager (530) 542-6451

Front Desk Attendant Dial 0

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of water monthly, so a family of four would use 12,000 gallons for bathing, cooking, washing, recreation and watering.

Water is quickly becoming a valuable commodity, in fact, Wall Street has started trading water as a commodity like gold and oil. On December 7th, 2020, the Country's first water market was launched on the Chicago Mercantile Exchange with 1.1 billion dollars in contracts tied to water prices in California. The TKPOA property owners have enjoyed being shielded from the increasing costs of water for many years, paying possibly some of the lowest prices per volume used. While most communities pay for water by the gallon, or cubic foot, and a monthly connection or service fee, the TKPOA property owners pay a flat \$183 quarterly assessment regardless of how much water used by individual households. Curiosity begs to question, "What would TKPOA property owners be paying if we were getting our water from South Tahoe Public Utility District?" Using STPUD's published rate calculator and their current rate structure, the average quarterly bill for 18,000 gallons per month would be approximately \$366.52, however during the peak spring and summer months, when the usage is much higher, the average quarterly billing during these quarters would be much higher.

The TKWC like all utilities require a certain amount of investment to maintain the infrastructure, retain qualified and required personnel, and in many cases, upgrading treatment processes for changing conditions in the source water. In the past, the TKPOA property owners have enjoyed a minimal cost for owning their own utility, however the infrastructure is over 50-years old and starting to deteriorate, equipment is beginning to feel its age, and Mother Nature is releasing harmful elements

such as Uranium and Arsenic into our source water. Not forgetting to mention, man-made contaminants such as Perchloroethylene (PCE) which we have been contending with for decades. The TKWC is required to have a 30-year Reserve Plan to address our aging infrastructure and it is updated and revised every year.

The TKWC in our letter dated December 23rd, 2020, briefly outlined the status of the three TKPOA Wells, currently Well #2 is still completely off-line due to high Uranium levels after the Granular-Activated-Carbon (GAC) filters. Well #2 is capable of pumping in excess of 2,000 gallons-per-minute (GPM) but is restricted to less than 550 GPM due to the flow through the two GAC filters. Well #3 has tested slightly above the Maximum-Contaminate-Level (MCL) for Uranium three consecutive quarters, and in compliance with the "Compositing Rule (40 CFR 141.26(4))" if the next quarterly sample tests in excess of the 30 parts-per-billion (ppb), TKWC will be in violation of exceeding the MCL for Uranium. This explanation for Well #3's status may sound confusing and it is, but to clarify, when testing for radionuclides (Gross Alpha, Radium, and Uranium) compliance will be determined by the "Average Analytical Results (AAR)" of four consecutive, quarterly tests in one year. If the sum of these four tests divided by four is greater than the MCL (30 ppb) the water purveyor is in violation of the MCL. Well #3 is capable of pumping slightly in excess of 2,000 GPM and is currently operating as our secondary water source if needed to keep up with demand.

Well #1 has tested, in our latest sampling, slightly above 23 ppb (MCL 30ppb) for Uranium, up from the previous 17 ppb, and is operating as our primary water source. Well #1 is capable of pumping slightly over

WATER

QUALITY

1,000 GPM which should be adequate for the winter months of 2021. It is important to note the maximum volume of water each pump is capable of pumping is not the actual volume maintained by the TKWC. To mitigate leaks caused by higher pressures used to move larger volumes of water through the aging Distribution System the TKWC maintains a system pressure of 48-53 pounds per square inch (PSI) which means we are using our pumps at slightly over half their rated capacities. An additional backup to TKWC Wells is an inter-tie with STPUD which is approved by our State Water Resources Control Board (SWRCB) permit to provide up to 478 GPM in case of emergency. However, this inter-tie is solely owned and operated by STPUD.

The TKWC is optimistically confident we will be able to provide sufficient amounts of safe water to meet the demand through the winter months of 2021, however the summer months are a different story. If you recall last summer when we lost Well #3 for a short time and had to issue a "Boil Water" mandate because we lost pressure in the system, even with Well #1 pumping at maximum capacity and Well #2 pumping 550 GPM. If in April when we draw our 4th sample for testing on Well #3 and we are over the 30 ppb for Uranium we may find ourselves in a similar situation and we will not have Well #2 to supplement Well #1.

The TKPOA Board of Directors, the TKPOA Management Staff, and the TKWC are taking aggressive actions to get in front of these circumstances. The TKWC is working with STPUD engineers to test the inter-tie and possibly increase the volume of water we can get from STPUD. STPUD engineers are working with models to determine if they can divert additional water to supplement our demands. The TKWC is in communications with Lukin Brothers Water Company to determine the feasibility of an inter-tie with their Company. The TKPOA Board of Directors and TKPOA Management put out a Request for Proposals to qualified Engineering Firms to propose a short-term plan and long-term plan to address the contamination issues. As of the publication of this article The TKPOA Board of Directors may have selected an engineering firm and they are evaluating feasible short-term solutions to get us through the summer demands. The TKWC is in regular communications with the SWRCB, working with the selected engineering firm and STPUD, and doing our best to keep the TKPOA members informed while providing

safe reliable water to our customers.

We will be soliciting the TKPOA property owners to help conserve water during peak demands by limiting the use of their irrigation systems. As mentioned before, last summer when we lost Well #3 for that short period of time, TKWC estimated we were dumping in excess of 1500 GPM of the water from Well #1 & #2 on the ground irrigating the common areas, the Coves, and private residences simultaneously.

The TKWC would like to remind everyone, the MCL is the threshold the Federal and State experts have determined is the maximum level of a particular contaminate which can be consumed before presenting a risk to public health. So, the big question is, **"Is the water safe to drink?"** YES, the TKPOA Board of Directors, the TKPOA Management, and the TKWC personnel are committed to providing safe, reliable water to the TKPOA property owners.

For any additional questions contact TKWC at (530) 542-6451, or for water emergencies call US 24/7 at (530) 318-4268.

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