



**TWSA BOARD MEETING  
PACKET  
For 9/13/2018**

**Refer to RED page numbers in the TOP left corner.**

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**NOTICE OF MEETING:**

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

**Thursday, September 13, 2018 / 12 noon to 4 pm**

**IVGID Public Works**

**1220 Sweetwater Rd., Incline Village, NV 89451**

Conference call will be available:

Call **1-877-594-8353** / when prompted, Enter Conference Dial-in **17757186**

**Agenda**

**Lunch will be provided at noon**

- A. Presentations** – none scheduled
- B. Roll Call**
- C. Public Comment** Conducted in accordance with Nevada Revised Statute Chapter 214.020 and limited to a maximum of 3 minutes in duration.
- D. Introduction of Guests**
- E. Approval of Agenda**
- F. Approval of Minutes** for the June 8, 2018 TWSA Board meeting.
- G. Reports**
  - a. Staff Reports
  - b. TWSA Chair Report
- H. General Business (for possible action/vote)**  
Items for Discussion and Possible Action (one or more items may be considered):
  - a. Nomination and selection of 2018-19 Chair/Vice Chair.
  - b. Update: TRPA Shoreline Plan Process
  - c. Update: TKPOA Aquatic Herbicide Application Process
  - d. Discussion/action on fund allocation for purchase of “Deterra® Drug Deactivation System pouches for tabling events.
  - e. Discussion/action on fund allocation for purchase 4 cyanoscope kits for Hazardous Algae Bloom (HAB) citizen monitoring team.
- I. Purveyor Updates**
- J. Public Comment**
- K. Adjournment**

**IMPORTANT DATES:**

2018 TWSA Board Meetings - Thursdays, quarterly, held from 12 to 4 pm.

- Dec. 13, 2018 (Edgewood) – Water Rights/Truckee River Operating Agreement Presentation as part of meeting

Community Events:

- Sept. 15, 2018 - Great Sierra Beach and River Cleanup (IVGID)

TWSA Board of Directors

Suzi Gibbons (Chair)

Andrew Hickman

Tim DeTurk, Nick Charles (alternate)

Gerry De Young, Patrick McKay (alt.)

Cameron McKay

Joseph Pomroy, Bob Lochridge (alt.)

Cameron McKay, Vice Chair

Bob Loding

Tony Laliotis

Shelly Thomsen

North Tahoe Public Utility District

Round Hill General Improvement District

Douglas County Systems

Edgewood Water Company

Glenbrook Water Cooperative

Incline Village General Improvement District

Kingsbury General Improvement District

Lakeside Park Association

Tahoe City Public Utility District

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](mailto:mod@ivgid.org)

**Certification of posting of agenda**

I hereby certify that on or before Fri. Sept. 7, 2018 at 9:00 am, a copy of this agenda was delivered to the post office addressed to the people who have requested to receive copies of IVGID's agendas; copies were either faxed or e-mailed to those people who have requested; and a copy was posted at the following locations within Incline Village/Crystal Bay in accordance with NRS 241.020:

1. IVGID Anne Vorderbruggen Building (Administrative Offices)
2. Incline Village Post Office
3. Crystal Bay Post Office
4. Raley's Shopping Center
5. Incline Village Branch of Washoe County Library

By, Madonna Dunbar, Executive Director, TWSA, (775) 832-1212 office; email: [mod@ivgid.org](mailto:mod@ivgid.org)

**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.

Copies of the packets containing background information on agenda items are available for public inspection at the Incline Village Library. TWSA agenda packets are available at the TWSA website [www.TahoeH2O.org](http://www.TahoeH2O.org) or the TWSA office at 1220 Sweetwater Road, Incline Village, Nevada 89451.

## MEETING MINUTES

**Minutes for the general Board meeting of the Tahoe Water Suppliers Association (TWSA)  
Thursday, June 7, 2018 / 12 noon to 4 pm, Edgewood Lodge, 100 Lake Parkway, Stateline, NV 89449**

### Minutes

- A. Presentations** – Tom Lotshaw and Rebecca Cremeen from the TRPA provided an informational briefing on the proposed Shoreline Plan. Water purveyors are encouraged to focus review on the water quality and public safety chapters.
- B. Roll Call** - Members in Attendance: Suzi Gibbons (NTPUD), Tim DeTurk (Douglas County), Bob Loding (LPA), Shelly Thomsen (STPUD), Brandon Garden (Glenbrook/ KGID), Joe Pomroy (IVGID), John Fassmann (RHGID), Patrick McKay (Edgewood), Reginald Lang (NDEP)  
TWSA Staff in Attendance: Madonna Dunbar, Sarah Vidra
- C. Public Comment** Conducted in accordance with Nevada Revised Statute Chapter 214.020 and limited to a maximum of 3 minutes in duration. No public comment given.
- D. Introduction of Guests**  
No guests were present.
- E. Approval of Agenda**  
Motion to approve agenda made by Bob Loding, second by Joe Pomroy, all in favor; motion carried.
- F. Approval of Minutes**  
Motion to approve the March 8, 2018 TWSA Board Meeting minutes, made by Joe Pomroy, second by Tim DeTurk, all in favor; motion carried.

### **G. Reports**

#### a. Staff Reports

##### **Outreach**

- TWSA water stations were used at both Earth Day 2018 Events
- Water pouch distribution stats available in the board packet
- Staffed tabled at the following events; Earth Day 2018 Events, South Lake Tahoe Chamber of Commerce “Go Local Business Expo”.
- The “Drink Tahoe Tap Song” has been completed and is posted online.
- Staff continues to coordinate the relaunch of the ‘Drink Tahoe Tap Network’, with support from local Eagle Scout.
- *Tahoe In-Depth* advertisements will run throughout the summer season.

##### **Activities**

- Results of the TWSA Drinking Water Taste Test were as follows:

##### **South Lake Tahoe**

Total 397

IVGID 188

TCPUD 171

Bottled 38

##### **Squaw Valley**

Total 174

RHGID 64

Edgewood 75

Bottled 35

- Snapshot Day 2018 was held on May 19, 2018 with 365 volunteers monitoring 84 sites. TWSA staff will be producing the event report.
- Conferences attended by staff
  - Western Aquatic Plant Management Society Annual Conference
  - National River Rally.

- Stakeholder group monitoring continues with the Near Shore Aquatic Weed Working Group, TRPA Shorezone Review, TRPA Shoreline Plan, Lake Tahoe Sustainable Recreation Workshop.
- The 'Future of Water Scholarship' was awarded to four local high school students.
- Four waterstations have been built and will be provided to requesting members in July 2018.
- The 2017-2018 Annual Report process will kick off with data request the second week of July 2018, please have datasets back in a timely manner for report completion for staffing requirements.

#### **Financial Report**

- Current reserve budget is \$104K.
- Full report provided in the board packet.

#### **b. TWSA Chair Report**

The Lahontan RWQCB is hosting a presentation for treatment of the Harmful Algae Bloom (HAB) in the Tahoe Keys. The treatment is an ionizing system called EcoSOAR. The Chair believes that non-chemical methods should be used before chemical treatments, and will keep the board informed on further information on possible implementation of this technology.

#### **H. General Business (for possible action/vote)**

Items for Discussion and Possible Action (one or more items may be considered):

##### **a. TWSA 2018-19 Organizational Goals – review of added items (action needed).**

IVGID representative Joe Pomroy provided expanded language for goal number four to read as follows:

##### **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
- TRPA Shoreline Plan and Project Reviews
- NV State Lands Notifications on Occupancy of Lake Bottom
- Truckee River Operating Agreement
- Federal and State Water Regulatory Updates

Motion to approve the TWSA 2018-19 organizational goals as amended, made by Joe Pomroy, second Tim DeTurk, motion passes unanimously.

##### **b. Fire Partnership/TFFT/Senator Heller Luncheon Aug 20: TWSA participation at event (action needed)**

Nevada Senator Heller reached out to the Fire Partnership members to host a luncheon on water and fire partnership on the Monday before the 2018 Tahoe Summit. The Luncheon will be held at the North Lake Tahoe Event Center in Kings Beach. The event is

currently being coordinated by NTPUD, STPUD and Lukins Water. Currently STPUD and NTPUD have agreed to sponsor the event though room rental, outreach materials and a portion of the catering budget.

The luncheon will include a 30-minute presentation; 15 minutes focused on water infrastructure projects and 15 minutes focused on fire prevention projects. The Chair would like to discuss for possible motion the TWSA collaborating in funding and planning.

Board discussion highlights are as follows:

- The current fire partnership funding program has made it more difficult for small utilities to be successful. If the TWSA were to fund this luncheon, would there be a better chance of small water systems receiving future funding?
- Previous funding mechanisms are not likely to return in the future.
- The current funding mechanisms are forcing water purveyors into partnerships with fire departments, even though this relationship is not ideal for water suppliers. The example was given to the group of a small water system, sixteen homes, whose fire department is now requiring a 12-inch water main to meet fire-flow requirements. This pipe sizing is not recommended for homes of this size, additionally the community is highly impacted by topography. In order to fill the 12-inch system on the steep grade, the pressure at the bottom of the community would be impossible to hold by the lower structure/home.
- The partnership with fire departments represents all kinds of challenges; however, the partnership is necessary to identify some way of funding projects.
- The luncheon is a great opportunity to bring up water supplier concerns and the water/fire district nexus.
- The opportunity to lobby with congressional staff is important to focus their attention on the Forest Service's budget even if the primary focus of the luncheon is the Lake Tahoe Restoration Acct. The Forest Service Fire Prevention money would be "real" money for infrastructure projects vs. Lake Tahoe Restoration Act funds that may or may not ever make it to water projects.
- NTPUD is currently sponsoring the luncheon for \$5k.

Motion made to match NTPUD's contribution to the luncheon, amount not to exceed \$5K made by Patrick McKay, second Shelly Thomsen, motion passes unanimously.

c. Discussion on Shoreline Plan

Draft comment letter presented to the board, the key topics discussed in the comment letter are as follows including:

- Clarification of ordinance 84.43 to water purveyor consultation when any structure is under TRPA review.
- Nevada NRS language on water intake protection.
- Support of language that all marinas have to have an AIS management plan and priority permitting to marinas who are green (i.e. mitigating the spread of AIS, installing BMPs and protecting the environment).
- Support of standardized regulations for boating practice including watercraft concessioners.

TWSA staff recommends that purveyors review the Shoreline Plan sections as recommended by TRPA staff including the Executive Summary, Water Quality and Public Safety chapters. There are other ordinances that agencies may want to address individually that are not TWSA related.

Board discussion on TWSA official comment letter on the TRPA Shoreline plan highlights are listed below.

- How does updating the TRPA code of ordinances affect the State Land Leases for shoreline structures? The most stringent regulations would need to be followed if the TRPA regulation is stronger than the state land lease, then TRPA would take precedent, or vise-versa.
- The TWSA should state in the comment letter that the number one priority of a shoreline plan should be to protect drinking water.
- The current code of ordinance is more black and white with a 600 ft. zone of protection of a drinking water intake; there is no enforcement at this time. Would changing the code of ordinance to the new language (of requiring only a consultation) be less of a benefit to drinking water protection than what is already in place?
- The language presented by the TRPA is the Executive Summary table ES-1 on page ES-28, impact 15-2: accidental releases of Hazardous Substances states that:
 

“With the addition of access points to the lake and the increase in navigational hazards in the form of longer piers and additional structures in the water, the Shoreline Plan alternatives could result in a long-term increase in the risk of accidental discharge of fuel and other hazardous materials into the lake. Alternative 1 would require that TRPA consult with water purveyors when evaluating applications and development of permit conditions for any proposed shoreline structure within one quarter mile of a drinking water intake, while Alternatives 2, 3 and 4 would require consultation within 600 feet. Furthermore, as described in Chapter 6, “Hydrology and Water Quality,” Impact 6-4, given the rapid rate of biodegradation of hydrocarbon compounds, the non-toxic levels monitored on the lake, and current TRPA regulations pertaining to control of discharges of contaminants from boating facilities using best management practices (BMPs).” TRPA 2018.

This language currently state shoreline structures, why would our comment letter recommend a change in language to what is already proposed?

The language presented by the TRPA in section 84.4.3.A.3 on page 84-10 of the draft TRPA Code of Ordinances, Adopted by Governing Board December 12, 2012 | proposed Amendments May 8, 2018 states that:

“For an additional pier located within one-quarter mile of a public drinking water intake, TRPA shall notify and consult with the appropriate water purveyor(s) as part of the application process.” TRPA 2018.

- IVGID would support Alternative 1 with water purveyor consultation language as written in Table ES-1, page ES-28.

- STPUD is in support of Douglas County’s recommendation for including of the top priority of the shoreline plan being protection of drinking water intakes. By providing the comment it will then be on the record and discussed, even if is not adopted.
- The existing regulation as noted by NTPUD is a 600 ft. zone of protection, and it needs to be enforced.
- The comment letter should focus on the following:
  - Protection of drinking water intakes by enforcing the existing 600 ft. zone of protection. Include that TRPA shall notify and consult with the appropriate water purveyor(s) as part of the application process for additional structures (not just piers) located within one-quarter mile of a public drinking water intake.
  - Enforcement of regulations and codes

Staff to amend draft comment letter and submit to board for electronic approval before July 9, 2018 comment deadline.

d. TKPOA Aquatic Herbicide Application: Status Update

Activities with the TKPOA are currently on hold. The Executive Director reached out to the TRPA for an update and received the following information.

- “The TKPOA has submitted their application for the use of herbicides followed by mechanical treatments.
- “The TRPA and Lahontan RWQCB have used an Expanded Environmental Checklist review that identified data insufficiencies or potentially significant impacts. Which concluded that a higher level of environmental review is necessary”

TWSA staff believe that this means that the TKPOA will be required to do a full Environmental Impact Review. This will come with a significant cost to the TKPOA.

Additionally staff have been informed that the TKPOA will no longer be in charge of the stakeholder meetings, these meetings will be replaced by a TRPA sponsored and leaded mediated process similar to the Shoreline Plan. The anticipated kickoff of the TRPA mediated process is fall 2018.

Board discussion included the following highlights.

- Glad that the TKPOA is not leading the stakeholder group because it has been highly influenced toward herbicides.
- Putting the mediator in place is to reduce the risk of a lawsuit if the permit is given for the use of herbicides.
- Keys are working on \$400K for AIS maintenance, the standard budget.
- They are putting in additional fragment control methods including the bubble curtain and Sea Bins for collection.
- Lahontan is still requiring the TKPOA to work on their IWMP by turning on the circulation pumps.



- Local media is reporting the TKPOA will receive a \$1M grant from the US Army Corps of engineers.
- The Army Corps is releasing a \$1M grant for AIS control and programs within the Lake Tahoe Basin, current distribution is unknown. If the Army Corps were to give grant money to the TKPOA this would be a significant change to the use of federal funds by providing money to a private agency.
- Staff believes that there is a plan in place to use the Army Corps grant funds for the AIS boat inspection program including permanent boat inspection facilities.

e. Discussion on Proxy Votes

Members to send approved alternate to the Executive Director before September 13, 2018 meeting, or Proxy vote must be given to meet standard proxy provisions as stated in the TWSA agreement, updated December 8, 2016.

f. Discussion on Intake Protection

See Discussion in item H. C

**I. Purveyor Updates**

**RHGID** – The Castle Rock Water Line Replacement Project will be under construction starting in July. The District will be replacing PRVs summer 2018.

**STPUD**- The District is currently working on a PCE contamination project with Lukins and the Tahoe Keys. The contractor is currently on site drilling for water samples. There will be a public meeting at the end of July to inform the public on the findings. This year makes the 50<sup>th</sup> anniversary of the export line, a celebration will be held in July, including a ribbon cutting for the turbine renewable energy project. STPUD continues to work on their metering project to meet the state mandate of full metering by 2021; this project is leading to several water main and service line relocations.

**LPA**- The Hill Street Main Replacement Project is going out to bid in June 2018, the permit process is going well and the TRPA permit was prepared with-in a week. LPA will be working on and preventative maintenance (P+M) program in the distribution system summer 2018.

**NDEP**- sanitary surveys are scheduled for summer 2018. NDEP is currently working with Washoe County.

**KGID**- The Highway 50 Water Main Replacement is currently in week 1 of 5. The District had two water line extensions planned for 2018, and will be working on P+M and PRV programs through out the summer.

**Edgewood**- The Water Company has signed a quote for a new Variable Frequency Drive for the pumphouse. The road to the water treatment facility will be paved after the 4<sup>th</sup> of July holiday, and the Water Company will continue to work with Edgewood Corporation on the placement of new buoy field.

**Douglas County**- (Cave Rock/ Skyland) the County had to issue a boil water order for due to a data collection error in May. The chlorine circle charts were good, but the computer did not collect flow rate so CT time could not be calculated. Work continues on the electrical issues

including replacement of the PLC and ground wires. (ZWood) the County finalized the replacement of the Whittell High School AC pipe replacement, the issue was from tree root intrusion. ZWOOD has completed an electrical project to replace surge protectors and battery backups.

**IVGID-** The District will not be replacing any water mains in 2018. A presentation was given to the IVGID Board of Trustees on the TWSA including AIS projects around the basin. The District has hired a new water operator. PRV maintenance project will take place through 2018. NDEP and Washoe County will be conducting the sanitary survey in June.

**NTPUD-** The District is working on a \$2M Steelhead Ave. replacement project in 'the grid'. The project includes placing valve clusters at intersections. Rapid Construction is the contractor. There was a sewer pump station issue in May, but the leak did not reach the lake.

**J. Public Comment**

Conducted in accordance with Nevada Revised Statute Chapter 214.020 and limited to a maximum of 3 minutes in duration. No public comment given.

**K. Adjournment**

Motion to adjourn made by Joe Pomroy, second Shelly Thomsen, motion passes unanimously. The meeting adjourned at 3:34 pm.

**MEMORANDUM**

**TO:** TWSA Board  
**FROM:** Madonna Dunbar, IVGID Resource Conservationist  
**SUBJECT:** TWSA Program Highlights – Q3 2018  
**DATE:** Sept. 5, 2018

**June 2018**

Staff facilitated the TWSA Board meeting on 6/7/18.

TWSA water stations were provided for:

- Rock Tahoe Half Marathon 4000 attendees
- Tahoe City Wine Walk 1000 attendees
- IVGID Beaches 4<sup>th</sup> of July week 10000 attendees

Tahoe Luxury Properties committed to removing packaged bottled water from their portfolio of vacation rental properties. They purchased 1,000 refillable metal bottles for their clients. 1,000 Drink Tahoe Tap stickers were donated for the refillable bottles.

Staff attended the TRPA Shoreline Plan Workshop on 6/6/18 and the TRPA Shoreline Plan Code Working Group meeting on 6/26/18 to discuss water provider concerns regarding intake and intake infrastructure protection from boating structures and boating activities. A formal comment letter was submitted on 7/2/18 requesting a ¼ mile trigger (next to intakes) for requiring water provider notification of such projects

Four new mobile water stations were built. Lakeside Park, NTPUD and TCPUD each received a new water refill station for their district use needs.

DRINK TAHOE TAP banner ads are running at [www.Tahoe.com](http://www.Tahoe.com) .

An article regarding the Aquatic Invasive Bottom Barrier Challenge was published in the Summer 2018 issue of *Tahoe In Depth*.

The Tahoe Keys Property Owner Association's (TKPOA) "Application for Exemption to Apply Aquatic Herbicides Test Project" is on hold pending further requirements for the regulatory agencies. Staff anticipates increased activity on this topic again later in summer 2018.

Staff participated in a conference call on development of the River Network's new online resource "Where does my Drinking Water Come from?"

Staff published (online and print) the 2018 IVGID Consumer Confidence Report (CCR). Copies of the report and the Verification Form for Distribution were sent to Washoe County Health. The CCR was included as an insert in the water utility billing customers June mailing.

**July 2018**

TWSA water stations were provided for:

- IVGID Beaches 4<sup>th</sup> of July week      10,000 attendees
- Tales and Trails Festival              1,000 attendees

Water pouches were distributed at:

- 100 water pouches to participants of the GoF-West 2018 car show
- 200 water pouches for the first Truckee Air Show attendees
- 150 water pouches for attendees of Tales and Trails Festival

Staff provided DRINK TAHOE TAP outreach booth at the Tales and Trails festival held on 7/28/18 at Sugar Pine Point State Park.

Staff was invited to be on the section panel for the facilitation/mediation contractor for the Tahoe Keys Integrated Weeds Management Plan Workgroup. This effort is being led by TRPA in order to enable revived discussion over weed control methods options, related to the Tahoe Keys Request for Exemption Application (for the use of herbicides) submitted to the Lahontan Regional Water Quality Control Board.

DRINK TAHOE TAP banner ads are running at [www.Tahoe.com](http://www.Tahoe.com) .

Tahoe Fund/TWSA Bottom Barrier Purchase Project publicity video is posted at <https://vimeo.com/256686801>.

A 'Bottom Barrier Placement Media Day' was held on 8/15/18.

The Tahoe RCD, Tahoe Fund and TWSA hosted outreach booths while divers were in the water installing mats at Lakeside Marina. The following list details coverage of the event:

<https://www.sierrasun.com/news/environment/fight-against-tahoese-invasive-species-goes-to-the-mat/>

<http://www.kolotv.com/content/news/Keeping-Lake-Tahoe-clean-with-bottom-barriers-490967561.html>

<http://www.ktvn.com/clip/14565568/tahoe-barriers-invasive-species>

<http://www.ktvn.com/story/38894280/crews-tackle-invasive-aquatic-plant-issue-at-lake-tahoe>

**August 2018**

TWSA water stations were provided for the:

- Aug. 7 Tahoe Environmental Summit 500 attendees \*
- Aug. 9 Private wedding 200 attendees
- Aug. 15 Bottom Barrier Challenge Media Day 25 attendees \*
- Aug. 24 Incline Elementary JogAThon 200 attendees
- Aug. 24 Incline Community Meeting 25 attendees \*
- Aug. 25 Children's Environment Science Day 500 attendees \*

Water bottles/pouches were distributed at the \* starred events above.

In late July, staff worked on the interview/selection panel for the facilitation/mediation contractor for the Tahoe Keys Integrated Weeds Management Plan Workgroup. "Zephyr Collaborative" was selected as the mediation team. Staff then participated in their initial stakeholder interviews. The mediation process is expected to proceed rapidly over the next several months, and up to 18 months of future work anticipated. This effort is being led by TRPA in order to revive discussion over weed control methods options, related to the Tahoe Keys Request for Exemption Application (for the use of herbicides) submitted to the Lahontan Regional Water Quality Control Board.

Staff is working with Tahoe RCD on the installation of 8 dog waste bag stations in the newly acquired Johnson Meadows lands in South Lake Tahoe.

Staff attended the TRPA Board Meeting on 8/22 for the agenda item of the TKPOA Aquatic Invasive Species Program update.

DRINK TAHOE TAP banner ads are running at [www.Tahoe.com](http://www.Tahoe.com) .

The Tahoe Keys Property Owner Association's (TKPOA) "Application for Exemption to Apply Aquatic Herbicides Test Project" 2017 submittal was withdrawn and replaced in late July with a new exemption application to Lahontan RWQCB and TRPA. Staff received the new document at the end of August and began review of the document. Staff will be developing a project summary for the TWSA Board.

Staff has been working on a revised water conservation program for IVGID. A USEPA WaterSense appliance rebate program in development for 2019-2021.

**INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT  
STATEMENT OF OPERATING SOURCES AND USES**

**200-28-990 TAHOE WATER SUPPLIERS ASSOCIATION ADMINISTRATION  
APPENDIX A  
CURRENT YEAR TO PRIOR YEAR COMPARISON**

For Period Ending 09/30/2018

GL Account Number	GL Account Description	PY Month Actual	Current Month Actual	PY Month Variance	PY YTD Actual	Current YTD Actual	PY YTD Variance
<b>OPERATING SOURCES</b>							
200-28-990-4417	Service & User Fees	0	0	0	145,000	106,523	-38,477
	Sales and Fees	0	0	0	145,000	106,523	-38,477
	Fines and Penalties	0	0	0	0	0	0
	<b>TOTAL OPERATING SOURCES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>145,000</b>	<b>106,523 *</b>	<b>-38,477</b>
<b>OPERATING USES</b>							
200-28-990-5010	Regular Earnings	2,478	0	2,478	8,957	6,410	2,547
	Salaries and Wages	2,478	0	2,478	8,957	6,410	2,547
200-28-990-5050	Taxes	242	0	242	738	501	237
200-28-990-5100	Retirement Fringe Ben	449	0	449	1,374	985	389
200-28-990-5200	Medical Fringe Ben	518	0	518	1,553	1,036	518
200-28-990-5250	Dental Fringe Ben	43	0	43	128	85	43
200-28-990-5300	Vision Fringe Ben	5	0	5	16	10	6
200-28-990-5400	Life Ins Fringe Ben	3	0	3	9	6	3
200-28-990-5500	Disability Fringe Ben	21	0	21	51	38	13
200-28-990-5600	Unemployment Fringe Ben	47	0	47	145	92	53
200-28-990-5700	Work Comp Fringe Ben	75	0	75	230	154	76
	Employee Fringe	1,404	0	1,404	4,245	2,908	1,338
	<b>Total Personnel Cost</b>	<b>3,881</b>	<b>0</b>	<b>3,881</b>	<b>13,202</b>	<b>9,318</b>	<b>3,885</b>
	Professional Services	0	0	0	0	0	0
200-28-990-7010	Advertising - Paid	125	0	125	750	400	350
200-28-990-7330	Contractual Services	4,017	0	4,017	4,017	0	4,017
200-28-990-7405	Office Supplies	0	0	0	287	0	287
200-28-990-7415	Operating	858	0	858	3,917	2,064	1,853
200-28-990-7470	Printing & Publishing	105	0	105	2,864	765	2,099
200-28-990-7680	Training & Education	353	0	353	403	0	403
200-28-990-7685	Travel & Conferences	79	0	79	340	65	276
	Services and Supplies	5,537	0	5,537	12,578	3,294	9,285
	Insurance	0	0	0	0	0	0
200-28-990-7840	Telephone	48	0	48	48	0	48
	Utilities	48	0	48	48	0	48
	Cost of Goods Sold	0	0	0	0	0	0
200-28-990-7980	Central Services Allocation Cs	500	550	-50	1,500	1,650	-150
	Central Services Cost	500	550	-50	1,500	1,650	-150
	Defensible Space	0	0	0	0	0	0
	<b>TOTAL OPERATING USES</b>	<b>9,966</b>	<b>550</b>	<b>9,416</b>	<b>27,329</b>	<b>14,261</b>	<b>13,067</b>
	<b>OPERATING SOURCES(USES)</b>	<b>-9,966</b>	<b>-550</b>	<b>9,416</b>	<b>117,671</b>	<b>92,262</b>	<b>-25,410</b>

Reserve Fund Balance (Deferred Revenue) = \$125, 116.27

- \* RHGID expected payment end of Sept. ; needs Board approval
  - \* IVGID dues currently in process
- (\$38,477 total)

**INCLINE VILLAGE GENERAL IMPROVEMENT DIST**  
G/L TRANSACTION DETAIL

14

From Date: 07/01/2018  
 To Date: 09/04/2018  
 From Account: 200-28-990  
 To Account:  
 Exclude Accounts With No Activity  
 Run Date: 09/04/2018  
 User: mod

G/L#	EFFECTIVE DATE	DESCRIPTION	STPSOURCE	JE#	DEPOSIT	CHECK	VENDOR	VENDOR INVOICE#	INVOICE TYPE	PO	PROJECT	DEBIT	CREDIT	BALANCE
200-28-990-4417		Service & User Fees										Balance	Forward	0
	07/31/2018	Douglas County - Tahoe Water Suppliers Assoc. Membership dues for 2018-2019	AJ	JL	249148								23,638	23,638 CR
	07/31/2018	Tahoe City PUD - Tahoe Water Suppliers Assoc. Membership dues for 2018-2019	AJ	JL	249148								14,517	38,155 CR
	07/31/2018	North Tahoe PUD - Tahoe Water Suppliers Assoc. Membership dues for 2018-2019	AJ	JL	249148								15,434	53,589 CR
	07/31/2018	Kingsbury GID - Tahoe Water Suppliers Assoc. Membership dues for 2018-2019	AJ	JL	249148								12,738	66,327 CR
	07/31/2018	South Tahoe PUD - Tahoe Water Suppliers Assoc. Membership dues for 2018-2019	AJ	JL	249148								14,578	80,905 CR
	07/31/2018	Lakeside Park Assoc. - Tahoe Water Suppliers Assoc. Membership dues for 2018-2019	AJ	JL	249148								6,497	87,402 CR
	08/16/2018	Edgewood Co. - Tahoe Water Suppliers Assoc. Membership dues for 2018-2019	AJ	JL	253506								10,855	98,257 CR
	08/16/2018	Glenbrook Water Co-op - Tahoe Water Suppliers Assoc. Membership dues for 2018-2019	AJ	JL	253506								8,266	106,523 CR
		TOTAL										0	106,523	106,523 CR
200-28-990-5050		Taxes										Balance	Forward	0
	07/20/2018	PAYROLL FOR 072018	AJ	PR	246986							124		124
	07/28/2018	PAYROLL FOR 080318	AJ	PR	249823							125		249
	07/31/2018	PAYROLL FOR 081718	AJ	PR	253190							27		275
	08/17/2018	PAYROLL FOR 081718	AJ	PR	253191							98		373
	08/31/2018	PAYROLL FOR 083118	AJ	PR	255717							127		501
		TOTAL										501	0	501
200-28-990-5100		Retirement Fringe Ben										Balance	Forward	0
	07/20/2018	PAYROLL FOR 072018	AJ	PR	246986							244		244
	07/28/2018	PAYROLL FOR 080318	AJ	PR	249823							246		491
	07/31/2018	PAYROLL FOR 081718	AJ	PR	253190							53		544
	08/17/2018	PAYROLL FOR 081718	AJ	PR	253191							194		737
	08/31/2018	PAYROLL FOR 083118	AJ	PR	255717							247		985

G/L#	15	EFFECTIVE DATE	DESCRIPTION	STPSOURCE	JE#	DEPOSIT	CHECK	VENDOR	VENDOR INVOICE#	INVOICE TYPE	PO	PROJECT	DEBIT	CREDIT	BALANCE
			TOTAL										985	0	985
200-28-990-5200			Medical Fringe Ben										Balance	Forward	0
		07/06/2018	PAYROLL FOR 070618	AJ	PR	243590							169		169
		07/20/2018	PAYROLL FOR 072018	AJ	PR	246986							349		518
		08/03/2018	PAYROLL FOR 080318	AJ	PR	249822							169		687
		08/17/2018	PAYROLL FOR 081718	AJ	PR	253191							349		1,036
			TOTAL										1,036	0	1,036
200-28-990-5250			Dental Fringe Ben										Balance	Forward	0
		07/06/2018	PAYROLL FOR 070618	AJ	PR	243590							14		14
		07/20/2018	PAYROLL FOR 072018	AJ	PR	246986							29		43
		08/03/2018	PAYROLL FOR 080318	AJ	PR	249822							14		56
		08/17/2018	PAYROLL FOR 081718	AJ	PR	253191							29		85
			TOTAL										85	0	85
200-28-990-5300			Vision Fringe Ben										Balance	Forward	0
		07/06/2018	PAYROLL FOR 070618	AJ	PR	243590							1		1
		07/20/2018	PAYROLL FOR 072018	AJ	PR	246986							4		5
		08/03/2018	PAYROLL FOR 080318	AJ	PR	249822							1		7
		08/17/2018	PAYROLL FOR 081718	AJ	PR	253191							4		10
			TOTAL										10	0	10
200-28-990-5400			Life Ins Fringe Ben										Balance	Forward	0
		07/20/2018	PAYROLL FOR 072018	AJ	PR	246986							3		3
		08/17/2018	PAYROLL FOR 081718	AJ	PR	253191							3		6
			TOTAL										6	0	6
200-28-990-5500			Disability Fringe Ben										Balance	Forward	0
		07/06/2018	PAYROLL FOR 070618	AJ	PR	243590							6		6
		07/20/2018	PAYROLL FOR 072018	AJ	PR	246986							9		16
		08/03/2018	PAYROLL FOR 080318	AJ	PR	249822							7		22
		08/17/2018	PAYROLL FOR 081718	AJ	PR	253191							9		31
		08/31/2018	PAYROLL FOR 083118	AJ	PR	255717							7		38
			TOTAL										38	0	38
200-28-990-5600			Unemployment Fringe Ben										Balance	Forward	0
		07/20/2018	PAYROLL FOR 072018	AJ	PR	246986							24		24
		07/28/2018	PAYROLL FOR 080318	AJ	PR	249823							23		47
		07/31/2018	PAYROLL FOR 081718	AJ	PR	253190							5		52
		08/17/2018	PAYROLL FOR 081718	AJ	PR	253191							18		69
		08/31/2018	PAYROLL FOR 083118	AJ	PR	255717							23		92
			TOTAL										92	0	92
200-28-990-5700			Work Comp Fringe Ben										Balance	Forward	0
		07/20/2018	PAYROLL FOR 072018	AJ	PR	246986							38		38
		07/28/2018	PAYROLL FOR 080318	AJ	PR	249823							39		77
		07/31/2018	PAYROLL FOR 081718	AJ	PR	253190							8		85
		08/17/2018	PAYROLL FOR 081718	AJ	PR	253191							30		116
		08/31/2018	PAYROLL FOR 083118	AJ	PR	255717							39		154
			TOTAL										154	0	154
200-28-990-7010			Advertising - Paid										Balance	Forward	0
		08/17/2018	Tahoe Tap Video	SYS	AP	254000	768560	Joaquin Fioresi	123-456-7890	Default Invoice			400		400
			TOTAL										400	0	400
200-28-990-7415			Operating										Balance	Forward	0
		07/27/2018	THE WEBSTAURANT STORE	RV	GL	252216								730	730 CR
		07/27/2018	VILLAGE MARKET	RV	GL	252216								212	942 CR
		07/27/2018	THE WEBSTAURANT STORE	AJ	GL	252219							730		212 CR
		07/27/2018	VILLAGE MARKET	AJ	GL	252219							212		0
		08/20/2018	10 mitten bag dispensers & 20 cases of 2	SYS	AP	255760		A-#1 Chemical, Inc	6190072	Default Invoice			2,064		2,064
			TOTAL										3,006	942	2,064



G/L#	EFFECTIVE DATE	DESCRIPTION	STPSOURCE	JE#	DEPOSIT	CHECK	VENDOR	VENDOR INVOICE#	INVOICE TYPE	PO	PROJECT	DEBIT	CREDIT	BALANCE
200-28-990-7470		Printing & Publishing										Balance	Forward	0
	07/02/2018	MachineID# X4668 - base rate charges for	SYS	AP	245082	769	Sierra Office Solutions	IN191557	Default Invoice	18-0204		62		62
	07/27/2018	STICKER MULE	AJ	GL	252219							641		703
	08/01/2018	August 2018 - 36 month maintenance contr	SYS	AP	250797	878	Sierra Office Solutions	IN206947	Default Invoice	18-0204		62		765
		TOTAL										765	0	765
200-28-990-7685		Travel & Conferences										Balance	Forward	0
	07/27/2018	EB SCIENCE SPEAKS LUN	RV	GL	252216								100	100 CR
	07/27/2018	EB SCIENCE SPEAKS LUN	AJ	GL	252219							100		0
	07/27/2018	INFINITE CONFERENCING	AJ	GL	252219							65		65
		TOTAL										165	100	65
200-28-990-7980		Central Services Allocation Cs										Balance	Forward	0
	07/31/2018	Record Central Svc Cost Alloc July 2018	AJ	GL	248577							550		550
	08/31/2018	Record Central Svc Cost Alloc August 2018	AJ	GL	248590							550		1,100
		TOTAL										1,100	0	1,100
		<b>GRAND TOTAL</b>										<b>8,343</b>	<b>107,565</b>	<b>99,222 CR</b>

**MEMORANDUM**

TO: TWSA Board  
FROM: Madonna Dunbar, IVGID Resource Conservationist / TWSA Executive Director  
SUBJECT: Meeting with TRPA Shoreline Code Working Group  
DATE: 6/26/2018

On 6/26/18, I met with the TRPA Shoreline Code Working Group to discuss the water provider concerns regarding the proposed Shoreline Plan, Alternative 1. Here are my notes from the meeting:

Regarding Ch. 82.5.2 - Navigational buoy relocation and placement (aka: infrastructure warning buoys):

- 1) Navigational buoys are exempt from the allocation pool of the proposed Shoreline Plan;
- 2) Navigational buoys and shoreline navigational warning signs must still be permitted by the applicable state or federal regulatory agencies;
- 3) Navigational buoys and shoreline navigational hazard warning signs are considered qualified exempt activities; however, certification of compliance of item #2, and the GPS coordinates will be still required by TRPA.

Regarding Ch. 84.4.3.A.3 – Notification for all structures near water intakes (not just piers):

- 1) I presented the TWSA suggested language revisions from our original draft letter.
- 2) There was some resistance from an advisory member of the working group that the code did not need to be changed from what is proposed (¼ mile notification trigger for proposed new piers) – it did not need to include moorings/buoy fields. I restated that the TWSA Board feels that formal codification of a ¼ mile requirement of notification in the Shoreline Plan for *all shoreline structures*, is the best method for protecting drinking water infrastructure.
- 3) We then discussed, if codification of our expanded language is not adopted what could be permit process notification improvements? It was suggested that adding to the TRPA Permit application checklist - a specific line item to be checked if a proposed shoreline project is within 600 feet of an intake (TRPA Ch. 60.3 {existing source water protection ordinance requirement}), which would then trigger notification of the project to the applicable water provider.
- 4) I will proceed with submitting the revised, attached letter on July 2, 2018, unless there is significant Board input otherwise.
- 5) I need any input or changes to the attached letter, by noon on Friday 6/29/18.



**Tahoe Water  
Suppliers  
Association**  
Protect the Source

1220 Sweetwater Road  
Incline Village, Nevada 89451  
775-832-1212

**TWSA Members:**  
Cave Rock Water System  
Edgewood Water Company  
Glenbrook Water Cooperative  
Incline Village GID  
Kingsbury GID  
Lakeside Park Association  
North Tahoe PUD  
Round Hill GID  
Skyland Water Company  
South Tahoe PUD  
Tahoe City PUD  
Zephyr Water Utility

July 2, 2018

Ms. Rebecca Cremeen  
Shoreline Plan EIS Comments  
Tahoe Regional Planning Agency (TRPA)  
PO Box 5310  
Stateline, NV 89449

Thank you for taking the time to meet with Tahoe Water Suppliers Association (TWSA) staff on 6/26/18 to discuss the water provider concerns regarding the proposed Shoreline Plan. As was discussed, the TWSA Board supports the formal codification of a '¼ mile requirement of notification' in the Shoreline Plan for *all shoreline structures*, for protection of drinking water infrastructure. Our organization's #1 priority is the protection of the public drinking water sources located here at Lake Tahoe.

On behalf of the Tahoe Water Suppliers Association Board (TWSA), we would like to submit two specific comments, and two general comments, regarding the proposed Shoreline Plan Code of Ordinance language.

The TWSA Board is in support of Alternative 1, *pending adoption of the following language revisions:*

Section 84.4.3:

- 1) We request that the word "pier" be replaced by "**shoreline structure**", to read as follows:

Development Standards: "For an additional ~~pier~~ "**shoreline structure**" located within ¼ mile of a public drinking water intake, TRPA shall notify and consult with the appropriate water provider(s) as part of the application process."

This suggested language revision would clarify Section 84.4.3 to match the definition in Section 50.11. (Section 50.11 - Allocation of Shorezone Structures:

"Structures in the shorezone and lakezone shall be allocated pursuant to applicable provisions in Chapter 84, Development Standards in the Shorezone and Lakezone. The following subsections address allocation of shorezone structures: 84.3 Mooring Structures / 84.4.Piers")

2) Add the suggested language below to Section 84.3.2.E.7 (page 84-4)

(84.3 Mooring Structures, 2. General Standards, E. Allocation, and Permitting:

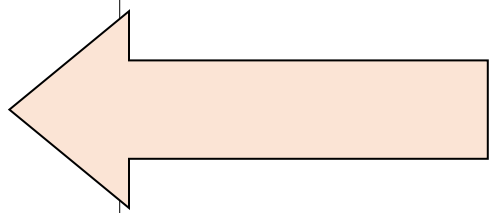
**Add: 7.) “For additional structures located within 1/4 mile of a public drinking water intake, TRPA shall notify and consult with the appropriate water purveyor(s) as part of the application process.”**

The comments below outline the reasoning behind the requested language changes.

- All structures have potential impact to drinking water supply infrastructure. There have been multiple instances where buoy blocks and anchor lines have been moved by littoral drift, and/or deliberate human alteration. This has placed boats very close to municipal water intakes. Some intakes here at Lake Tahoe have suffered damage from these actions. Boats have sunk close to, and on top of, active intake lines. Having a greater ability to consult with TRPA, and TRPA enhanced enforcement regarding mooring placements, would provide greater protection to the water supply.
- The EIS summarizes the intent for consultation within ¼ mile for “any proposed shoreline structure”, and the potential for impacts to water supply, in the EIS Summary section 15.3, excerpt below.

**Table ES-1 Summary of Impacts and Mitigation Measures**

Impacts			Significance without Mitigation	Mitigation Measures		Significance with Mitigation
B = Beneficial	NI = No impact	LTS = Less than significant	PS = Potentially significant	S = Significant	SU = Significant and unavoidable	
<p>not result in adverse effects. Specific projects implemented in accordance to the adopted Shoreline Plan would be subject to permit processes and conditions pursuant to TRPA regulations and, depending upon location and whether or not there is federal discretion, CEQA and NEPA statutes and implementing regulations. Such review could include site-specific impact analysis and adoption of feasible mitigation measures that must be implemented to assure that standards of the region are met.</p> <p>With the addition of access points to the lake and the increase in navigational hazards in the form of longer piers and additional structures in the water, the Shoreline Plan alternatives could result in a long-term increase in the risk of accidental discharge of fuel and other hazardous materials into the lake. Alternative 1 would require that TRPA consult with water purveyors when evaluating applications and development of permit conditions for any proposed shoreline structure within one quarter mile of a drinking water intake, while Alternatives 2, 3 and 4 would require consultation within 600 feet. Furthermore, as described in Chapter 6, “Hydrology and Water Quality,” Impact 6-4, given the rapid rate of biodegradation of hydrocarbon compounds, the non-toxic levels monitored on the lake, and current TRPA regulations pertaining to control of discharges of contaminants from boating facilities using best management practices (BMPs).</p>						



In addition to the specific language revisions, TWSA offers two general comments:

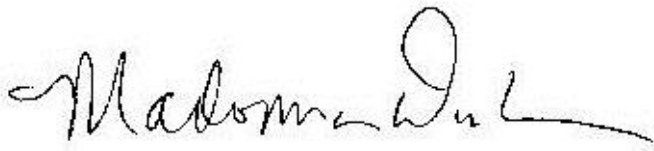
- 3) We support the requirement for all marinas to have Aquatic Invasive Species Management Plans.
- 4) We are pleased to see the emphasis on improving concessionaire boating practices through the permitting of concessions and the future restriction of refueling of rental of motorized watercraft to marina or other authorized refueling locations. Currently there are some, but not all, concessionaires with improper boating practices such as beachside fueling, which affect the watershed. Through the permitting process, concessionaires should be required to document their refueling locations.

We would be happy to meet with you at your convenience to discuss these comments.  
We thank you for your time and consideration of our request.

Respectfully submitted on behalf of the TWSA Board,



Suzi Gibbons  
Chair, Tahoe Water Suppliers Association  
Contracts and Planning Coordinator  
North Tahoe Public Utility District  
(530) 553-5433  
[sgibbons@ntpud.org](mailto:sgibbons@ntpud.org)



Madonna Dunbar  
TWSA Executive Director  
Resource Conservationist  
Incline Village General Improvement District  
(775) 832-1212  
[mod@ivgid.org](mailto:mod@ivgid.org)

**MEMORANDUM**

**TO:** TWSA Board  
**FROM:** Madonna Dunbar, TWSA Executive Director  
**DATE:** Sept. 5, 2018

**SUBJECT:** TWSA Programs – proposed new tabling handout: DeTerra Drug Deactivation Pouches

The DeTerra company offers specialty drug de-activation pouches which are used by consumers to nullify medications for landfill disposal. Their products support source water protection by offering consumers a safe, discreet and convenient disposal option. TWSA staff requests of the Board - discussion and possible action on allocation of \$4,000 from the reserve funds, to purchase 800 DeTerra medium pouches (@ \$5/per unit) for use at 2019 Earth Day events. The pouches will have a TWSA sponsorship tag/sticker added to them. One of the main topics discussed with customers about Tahoe Tap, is the closed system benefits of the Tahoe Basin Watershed, and the fact we are not downstream from industrial and municipal pollutants. This product may be an excellent tool to foster discussions on proper disposal of medicines, and other items that should not be put in toilet or enter a watershed.



Safe. Convenient. Effective.

# Deterra is the solution

Closing the loop on the pharmaceutical lifecycle



## Vetted, Endorsed, and Recommended

- The manufacturers of Deterra® have testified before a Joint Congressional Committee about at-home drug deactivation.
- The manufacturers of Deterra have testified before the FDA to amend recommendation to expand to the use of at-home drug deactivation and disposal technology.
- Deterra is endorsed by the DEA Educational Foundation. The White House Office of National Drug Control Policy cited at-home deactivation technology in their Drug Control Policy 2.0
- The President's Commission on Combating Drug Addiction and the Opioid Crisis supported the use of drug deactivation pouches for disposal of unused prescription opioids.

## Put Into Use

- Deterra was developed under a Small Business Innovation Research (SBIR) contract with the National Institute on Drug Abuse (NIDA).
- Attorneys General in Pennsylvania and Kentucky are currently distributing Deterra pouches throughout their states.
- Pending legislation has been put forth in multiple states to provide for at-home drug deactivation and disposal technology.
- Deterra enjoys many marquee clients in six market verticals.

## The Deterra drug deactivation system neutralizes drugs effectively, safely and quickly.

Each patented Deterra pouch contains a water-soluble inner pod containing MAT<sub>12</sub>® activated carbon. Once the pharmaceuticals are placed in the pouch, warm water is then added, which dissolves the inner pod releasing the activated carbon. The warm water will also help dissolve pills and draw the drugs out of patches.



1

Tear open pouch and place unused medications inside



2

Fill pouch halfway with warm water and wait 30 seconds



3

Seal pouch tightly, gently shake and dispose of in normal trash

[www.DeterraSystem.com](http://www.DeterraSystem.com)

verde  
Technology



Verde Salesperson: Cristen Shaver

Quote Number: 15326

Quote Date: 8/2/2018

Quote Expiration Date: 9/2/2018

**QUOTED TO:**

Incline Village General Improvement District  
Joseph Hill  
1220 Sweetwater Road  
Incline Village, NV 89451  
jah@ivgid.org

Item Description	Quantity Of Cases	Item Number	UPC	Description	Units Per Case	Cost Per Case
Deterra SP (small pouch)	1	1303	864583000303	15 pills OR 59 mL liquid OR 2 patches	250	\$647.50
Deterra MP (medium pouch)	1	2310	864583000310	45 pills OR 177 mL liquid OR 6 patches	200	\$758.00
Deterra LP (large pouch)	1	3327	864583000327	90 pills OR 354 mL liquid OR 12 patches	100	\$499.00
Deterra XL (extra large pouch)	1	4334	864583000334	450 pills OR 1.8 L liquid OR 60 patches	20	\$479.00
Deterra - 3.5 (3.5 gallon container)	1	5341	864583000341	1,400 pills OR 6 L liquid OR 185 patches	1	\$72.00
Deterra - 5.0 (5.0 gallon container)	1	6358	864583000358	2,000 pills OR 9.5 L liquid OR 265 patches	1	\$99.00

Shipping Fee	\$22.00/CASE
--------------	--------------

**5 CASE MINIMUM ORDER**

**SALES TAX NOT INCLUDED**

\*\* Tax Exempt Organizations must submit certificate of exemption



## Deterra® Drug Deactivation System Frequently Asked Questions (FAQ's)



### How does Deterra® work?

Each patented Deterra® pouch contains a water-soluble inner pod containing MAT<sub>12</sub>® activated carbon. Once the pharmaceuticals are placed in the pouch, warm water is then added, which dissolves the inner pod releasing the activated carbon. The warm water also dissolves prescription pills, patches and liquids, allowing them to be adsorbed by the carbon, rendering them inert and non-retrievable.

### What drugs will Deterra® deactivate?

Deterra® will deactivate any organic medications including opioids. However, it will not adsorb any metals, such as iron or lithium, contained in certain medications. If a select medication has specific disposal instructions, please follow those instructions.

### Why shouldn't I just flush or "sink" unused meds?

Water treatment facilities struggle to filter out all pharmaceutical drugs from the water. As of 2014, there were over 1,500 published reports of the occurrence of pharmaceuticals in sewage, surface waters, ground waters, and elsewhere. Because of these findings, most federal, state and local authorities are now recommending (and many requiring) that pharmaceuticals NOT be disposed in the toilet or sink.

### What about mixing medications with cat litter, coffee grounds or sawdust?

#### How does that compare?

Cat litter, coffee grounds, and sawdust make the drug undesirable but do not deactivate the drugs. Once in the landfill, these drugs can still leach out into the ground and into the water. Third party testing proves that the MAT<sub>12</sub>® carbon in Deterra® deactivates the drugs rendering them inert and more environmentally friendly.

### How quickly does the deactivation process work?

With Deterra®, the process of deactivation starts immediately, but it takes time to complete. Some highly soluble drugs will dissolve and react rapidly, while other less soluble drug types will take longer to dissolve and react. The deactivation period varies based on volume and type of medication. It is important to keep Deterra® out of the reach of children and pets as the product is deactivated.

### Are different sizes of Deterra® available?

Yes, Deterra® is available in multiple sizes. Please consult our website or a Deterra® representative to determine which size will best meet your needs. [www.deterrasystem.com](http://www.deterrasystem.com)

### What is the capacity of Deterra® for pharmaceuticals? What if I accidentally added more drugs than the amount recommended?

The recommended capacity is listed on each Deterra® package. Adding drugs to Deterra® in amounts at (or less than) our recommended capacity will result in optimal deactivation efficiency. If one were to add more than the recommended pharmaceutical capacity, deactivation of additional drugs will still occur but at reduced efficiency.

**MEMORANDUM**

**TO:** TWSA Board  
**FROM:** Madonna Dunbar, TWSA Executive Director  
**DATE:** Sept. 4, 2018  
**SUBJECT:** TWSA Programs: Request to allocate \$3000 from reserve fund to purchase (4) Combined Cyanoscope Kits for increase monitoring of harmful algae blooms (HABs) through citizen science team.

TWSA staff has been in dialogue with Lahontan Regional Water Quality Control Board staff over the recent appearance (2017/2018) of HABs in the Tahoe Keys lagoons. These blooms are being visually monitored by TKPOA staff, with some limited sampling occurring. In 2018, the Tahoe Keys' waters experienced a spring HAB bloom and another bloom was present in August/Sept., in the West Channel, East Channel and Lake Tallac. State agency response on HABs is usually triggered by a critical, health-impacting situation. The blooms in the Keys have not reached these critical levels; limited resources are currently allocated to monitoring and sampling.

BloomWatch (<https://cyanos.org/bloomwatch>) is a citizen science monitoring program, using smartphones and an app, that being used nationally to support state agency monitoring. Part of this work included the ability to identify cyanobacteria in the bloom, using Cyanoscopes. Citizen scientist work can provide much needed labor and time resources to agency staff.

Lahontan and TWSA staff are interested in creating a small, 4 to 6 person, citizen volunteer sampling team to provide greater frequency of observation and sampling of the HABs, using the Bloom Watch model. Free training support from the CA State Water Board is available for the volunteer team.

The purchase of 4 Complete CyanoScope Kits (@appx \$700 each), approximate cost total of \$3,000, would enable the development of the citizen monitoring program to support enhanced understanding of the scope of this emerging issue in water quality.

Mon 7/30/2018 12:36 PM

**Fiore-Wagner, Mary@Waterboards** <mary.fiore-wagner@waterboards.ca.gov>

**RE: Citizen Science monitoring of algal blooms**

To: Dunbar, Madonna; Norman, Russell@Waterboards; Jesse Patterson; Greg Hoover; Harold Singer; heathersegale

Cc: Letton, Ben@Waterboards; Smith, Doug@Waterboards; Burres, Erick@Waterboards; Tucker, Robert@Waterboards

You forwarded this message on 7/30/2018 12:49 PM.

Madonna,


Yes-let's make this citizen science happen. Having citizens, HOAs, TRCDs, Tahoe Basin recreators, non-profit groups, etc. trained on tools like Bloomwatch and Cyanoscope will help provide an initial screening of suspected harmful algal blooms (HABs). Initial screening from citizen scientists will help the State prioritize and make informed decisions about where to direct available funding for HAB incident response and further investigation.

I have contacted Erick Burres, who is a Sr. Environmental Scientist with the State Board who leads the Clean Water Team and Citizen Monitoring Program. We discussed the possibility of hosting a workshop between mid-September–October (or next summer), which could focus on teaching citizens (1) the Bloomwatch App, (2) Microscopy Identification of cyanobacteria using the cyanoscope, and (3) quantitative tests (known as the stick test and jar test) that can be done to help with initially screening for HABs. (Last year, I also discussed adding the Bloomwatch tool to the League to Save Lake Tahoe's- Eyes on the Lake Training.)

Erick would be available to travel to the Tahoe Basin to provide the training, but Erick has limited supplies, and he (the State) is not able to provide cyanoscopes. However, the kits, which include a digital optics adapter, are very affordable through <https://cyanos.org/cyanoscope/>. If TWSA could secure a few cyanoscopes, we could probably do a hands-on cyanoscope session. (We also have a cyanoscope at the Regional Board, which could be loaned for this training.)

We can continue this conversation, and start discussing meeting logistics if this sounds like something you'd be interested in helping organize. Thank you.

-Mary

 **Mary Fiore-Wagner**  
Senior Environmental Scientist  
Lahontan Regional Water Quality Control Board  
2501 Lake Tahoe Blvd, South Lake Tahoe, CA 96150  
(530) 542-5425 | [mary.fiore-wagner@waterboards.ca.gov](mailto:mary.fiore-wagner@waterboards.ca.gov)

Tahoe Keys POA - Harmful Al... | Cyanobacteria Monitoring Coi... | +


https://cyanos.org/equipment/#cyanoscope

OVERVIEW | BLOOMWATCH | CYANOSCOPE | MONITORING | NEWS

## CYANOSCOPE & CYANOMONITORING

cyanoScope only | **both kits** | cyanoMonitoring only

- Richter Optica F1 elementary microscope
- Microscope mechanical stage
- Calibration slide
- Digital optics adapter
- Cyanobacteria concentrator
- Plankton net with spool
- Microscope supplies box
- Microscope cozy
- 125ml and 250ml brown plastic HDPE bottles
- Digital thermometer
- Carry sack
- Integrated tube sampler



11:15 AM 9/4/2018

# Leland Family Enterprises, LLC

Massachusetts DBE/WBE Certified Company

Madonna Dunbar,  
 Resource Conservationist, IVGID Waste Not Program/Public Works  
 Executive Director, Tahoe Water Suppliers Association  
 1220 Sweetwater Road, Incline Village, NV 89451  
 P: 775-832-1212

July 31, 2018

Re: Price Quote cyanoScope and cyanoMonitoring Kits

Dear Ms. Dunbar,

Thank you for the opportunity to provide you with a quote for the cyanoScope and cyanoMonitoring kit. If you have any questions, please feel free to contact me at your convenience.

Description	Price \$ (USD)
Combined cyanoScope and cyanoMonitoring Kit:	
50um plankton net w/spool, Pocket ZAPPR, Integrated tube sampler, Waterproof digital thermometer, Microscope kit & supplies, Digital optics adapter, cyanoScope carry sack, Field microscope/camera/adapter/calibration slide*	
Unit Price	694.90


\*Shipped separately as #M150C-E5/#MS90/#MR095-  
 UPS Ground

Regards,  
 Nancy Leland, Manager

Tahoe Keys POA - Harmful Al... Cyanobacteria Monitoring Coll...  
[https://cyanos.org/bloomwatch/#bloomwatch\\_how](https://cyanos.org/bloomwatch/#bloomwatch_how)

OVERVIEW BLOOMWATCH CYANOSCOPE MONITORING NEWS

## HOW DOES THE BLOOMWATCH APP WORK?




**1. Download the app**  
Install bloomWatch app on your smartphone or tablet

[DOWNLOAD FOR IOS](#)


[DOWNLOAD FOR ANDROID](#)

[GET METHODS](#)



**2. Learn what to look for**  
Get familiar with the appearance of cyanobacteria blooms

[SEE REPORTED BLOOMS](#)



**3. Report what you found**  
Document blooms with the app

1) use bloomWatch app to take good photos of potential blooms, 2) submit your photos to the project, 3) send info to the relevant state agency


NOTE: Avoid bloom and don't touch the water  
NOTE: Submissions through bloomWatch do not constitute a formal report to authorities  
NOTE: Images submitted via bloomWatch will be used only for citizen science purposes and will not be sold or distributed to advertisers or other entities

11:06 AM 9/4/2018

Tahoe Keys POA - Harmful Al... Cyanobacteria Monitoring Coll...  
<https://cyanos.org/cyanoscope/>

OVERVIEW BLOOMWATCH CYANOSCOPE MONITORING NEWS

## HOW DOES CYANOSCOPE WORK?




**Collect cyanobacteria**

1) collect cyanobacteria with a net tow, 2) prepare your microscope slides, 3) identify cyanobacteria found in your sample

[LEARN ABOUT EQUIPMENT](#)

[GET METHODS](#)

[IDENTIFY CYANOBACTERIA](#)




**Submit your images**

1) take pictures of cyanobacteria found in your sample, 2) upload the images and relevant info on iNaturalist.org

NOTE: Be sure include basic information about where and when the sample was collected.  
NOTE: If not sure what cyanobacteria you have, that's fine! Go ahead and upload your image.

To submit your images, sign in or register at:

[CYANOSCOPE ON INATURALIST](#)



**Interact online**

1) the iNaturalist community can help confirm the identity of cyanobacteria, 2) you can view and comment on images submitted by others, 3) everyone can explore patterns of the appearance of cyanobacteria

To view and comment on images, sign in or register at:

[CYANOSCOPE ON INATURALIST](#)

11:13 AM 9/4/2018



Information on the BloomWatch/Program:

[https://cyanos.org/wp-content/uploads/2017/04/cmc\\_qapp\\_final.pdf](https://cyanos.org/wp-content/uploads/2017/04/cmc_qapp_final.pdf)

The BloomWatch cyanobacteria monitoring collaborative program has three overlapping components or tiers: Bloom watch/tracking component, a cyanobacteria identification and documentation component, and a cyanobacteria monitoring component. Each expanding tier has a specific component objective associated with it.

The BloomWatch tracking component was developed to enable lay people, citizen scientists and the like to be able to report on the presence of a bloom with the use of a smartphone App. This tier creates awareness while educating, and provides important information on where and when blooms are occurring.

The second tier provides the opportunity to go beyond just documenting a bloom, by identifying what types of cyanobacteria may be present and if they are potential toxin producers. This information can be aggregated up with bloomwatch information, providing higher resolution on the prevalence and occurrence of cyanobacteria.

The final Tier, or cyanomonitoring component, provides the opportunity to develop a monitoring program that will provide potential bloom forecasting and insights into the waterbody specific characteristics and behavior of cyanobacteria. All tier levels are designed to have a baseline level of effort with commensurate quality assurance and established methods.

## 5.1

### BloomWatch (Tier 1)

The main objective of BloomWatch is to photographically document the spatial and temporal occurrence of a perceived bloom for further verification, while engaging and educating the lay person/citizen scientist on cyanobacteria and harmful algal blooms. Because of logistics and the variability of when and where HABs may occur, (blooms may only be visibly present for a few hours or less and at specific locations within a particular waterbody) it is imperative that efforts be made to engage the public's help. Local knowledge of where and when blooms are occurring is likely under reported, or not reported at all. When blooms are reported to a state water quality or health official, by the time officials can reach the location the bloom has often dissipated or shifted from its prior location. Local citizens are usually the first to encounter a bloom condition, as they often occur in the early morning hours while individuals are out walking their dogs, getting in a morning run, or getting ready for the day's work. Images can be taken at any time and consist of three images per submittal, but must follow the prescribed format listed in this document.

## 5.2 CyanoScope (Tier 2)

This "second tier" of the cyanomonitoring program is established in order to identify and determine the timing and spatial distribution of cyanobacteria genera, assisting in the mapping and identification of potential toxin producing waterbodies as well as providing an educational component. Samples are collected on the lake, from the shoreline, or both utilizing a 50 micron plankton net, concentrated utilizing a specialized tool, and then observed and recorded utilizing a microscope and digital image capture software.

Monitoring "kits" have been developed and put together to provide consistency and quality assurance while sampling. Samples can be collected at any time, at any frequency, and at as many locations as desired, as the main goal is to determine the genera of cyanobacteria that may be residing in the waterbody.

## 5.3

## CYANOMONITORING (Tier 3)

The principal objective of the cyanomonitoring component of the program is to track cyanobacteria development and dynamics within waterbodies and across waterbodies, assist in tracking trends due to climate changes and current and emerging land use practices, and assess waterbody/human health vulnerability to toxic cyanobacteria. This is the third tier of the program, which builds upon the two lower tiers and provides increasing resolution to the dynamic characteristics of cyanobacteria development in a waterbody.

## **Tahoe Water Suppliers Association (TWSA) Agreement**

This Tahoe Water Suppliers Agreement is entered into this December 8, 2016, by and between Douglas County (“Zephyr Cove, Skyland, Cave Rock”), Incline Village General Improvement District (“IVGID”), Glenbrook Water Cooperative (“Glenbrook”), Round Hill General Improvement District (“Round Hill”), Kingsbury General Improvement District (“Kingsbury”), Edgewood Water Company (“Edgewood”), Lakeside Park Association, North Tahoe Public Utility District (“NTPUD”), South Tahoe Public Utility District (“STPUD”), Tahoe City Public Utility District (“TCPUD”) (collectively referred to herein as the “Parties” or “Water Supplier”).

### **Recitals**

1. Each of the Parties owns and operates a public water system within the Lake Tahoe Basin (Basin).
2. In order to assure a safe water supply and promote responsible use of a natural resource water suppliers must conduct watershed sanitary surveys on a regular basis, participate in an active watershed protection program, and comply with additional requirements and regulations.
3. The Parties desire to create the Tahoe Water Suppliers Association whose purpose is to develop, implement and maintain an effective watershed control program in order to satisfy recommendations in watershed sanitary surveys, advocate for the protection of Lake Tahoe as a viable source of drinking water and to satisfy additional state and federal requirements.

NOW, THEREFORE, based upon the foregoing, the Parties hereto agree as follows:

### **ARTICLE I**

#### **INTENT**

With the execution of this agreement, it is the intent of the Parties to provide for the establishment of the Tahoe Water Suppliers Association (“Association”) to assist the Parties in:

- a) Meeting federal and state requirements for filtration avoidance and other requirements; promulgated by the Surface Water Treatment Rule and its amendments.
- b) Maintaining an active watershed management control program, and carrying out the goals of the Association.
- c) Promoting and protecting Lake Tahoe and other sources in the Basin as viable sources of drinking water
- d) Defining the roles and responsibilities of the Executive Director and securing funding for the Executive Director to coordinate and execute the activities of the Association.

### **ARTICLE II**

#### **CREATION OF THE TAHOE WATER SUPPLIERS ASSOCIATION**

Section 2.1. Establishment of Association. The Parties to this Agreement agree to establish the Tahoe Water Suppliers Association with the authority and responsibilities set forth in this Agreement.

Section 2.2. Executive Director. IVGID shall designate one of its staff persons to act as the Executive Director for the Association and IVGID may assign additional staff to perform the activities of the Association.

Section 2.3. Association Board. The Association shall be managed by the Board of Directors (“Board”). The Board shall consist of one representative appointed by each dues paying Water Supplier. The position of Board Chair and Vice Chair will be elected annually by the Board. The Board shall also have the position of Vice Chair to act as Chair in their absence. The Chair shall conduct the Association Board meetings and participate with the Executive Director



in preparation of the agenda. The Chair shall act as the spokesperson for the Association Board on matters of concern to the Association or assign this to the Vice Chair or Executive Director, or other members of the Board.

Water Suppliers List

Douglas County – Zephyr Cove  
 Douglas County – Skyland  
 Douglas County – Cave Rock  
 Edgewood Water Company  
 Glenbrook Water Cooperative  
 Incline Village General Improvement District  
 Kingsbury General Improvement District  
 Lakeside Park Association  
 North Tahoe Public Utility District  
 Round Hill General Improvement District  
 South Tahoe Public Utility District  
 Tahoe City Public Utility District

Section 2.4. Duties. The Board shall be responsible for implementing the terms and conditions of this Agreement including, without limitation, the following:

- 2.4.1 Setting of periodic meetings to insure dissemination of information and discussion of issues.
- 2.4.2 Providing for cooperation among the Parties and with local, state and federal agencies and private entities with respect to watershed evaluation and watershed management.
- 2.4.3 Providing for the prevention of watershed degradation through advertising and education, conducting studies, retaining consultants as needed.
- 2.4.4 Developing a budgeting and funding process that ensures that the Association's cooperative efforts will be adequately staffed and funded.

Section 2.5. Appointment Alternatives. Each of the Parties to this Agreement shall name an alternate Board member representative to act in the event a Party's appointed Board representative is not in attendance at the meeting. In the event that the Party's appointed Board member is not in attendance at the meeting, the alternate Board member shall be entitled to one (1) vote in conducting the business of the Board. A Board member may also assign its voting privileges by standard proxy provisions.

Section 2.6 Meetings.

- 2.6.1. Regular Meetings. Regular meetings of the Board shall be held at least quarterly or at such other time as decided by the Board majority and shall be held at such place as the Chair or members of the Board may determine. Members can attend via conference call or other electronic communication methods.
- 2.6.2. Special Meetings. Special meetings of the Board may be called by or at the request of the Chairman or any two (2) members of the Board, and shall be held at such place as the Chairman or members of the Board may determine.
- 2.6.3. Emergency Meeting. An emergency meeting can be convened at any time with 100% concurrence of the Board members and shall be held at such place as the Chairman or members of the Board may determine.

Section 2.7 Notice of Meetings. Meeting notices will be posted according to Nevada Revised Statutes 241 and the California Brown Act, whichever is more restrictive. The Board shall be given notice of meetings and meeting agenda packets, delivered personally, sent by email, or sent by mail to each Board member at the Board member's address as provided in the Association records. If mailed, such notice shall be deemed to be delivered when deposited in the United States mail in a sealed envelope, so addressed, with postage thereon prepaid.

Section 2.8. Quorum. A majority of the members of the Board shall constitute a quorum for the transaction of business at any meeting of the Board. Each water supplier as listed in Section 2.3 is entitled to one vote. A single person may represent more than one water supplier and therefore have more than one vote.

Section 2.9. Voting Requirements. An affirmative vote of a majority members of the Board at any meeting shall be required to take action. Votes can be either voice votes or other methods of tabulating votes by electronic communication means.

Section 2.10. Books and Records. The Board shall keep correct and complete books and records of account, minutes of its proceedings and record giving the names and addresses of the members entitled to vote. All books and records of the Board shall be kept at a location determined by the Board and may be inspected by any Board member, or that member's agent or attorney, for any proper purpose at any reasonable time. Records shall be retained in accordance with record retention policies.

### ARTICLE III

#### CHARGES

Section 3.1. Establishment. Consistent with this Agreement, the Board shall establish charges to be paid by each Party to finance all necessary activities. Necessary activities are those identified by the Board in an approved annual budget.

Section 3.2. Apportionment of Charges. Parties shall pay the percentages of the annual budget. Each party's costs include shared program costs and dependent program costs, other than STPUD which pays 10% of total TWSA costs. Shared program costs are defined as 25% of TWSA staff costs and 75% of TWSA operating costs and account for activities that are necessary for all members. The shared costs effort does not vary based on size of the member's service area. Dependent program costs are defined as 75% of TWSA staff and 25% of TWSA operating. The dependent costs account for activities such as mapping and monitoring that inherently are more time and resource demanding for members with larger service areas and greater number of customers/connections than members with smaller services areas and customers/connections. Shared costs are appropriated equally to all Parties while, dependent costs are proportioned according to the size of the service area, customers, and connections.

Section 3.3. Use of Funds. Funds received from such charges shall be used for those purposes for which the Association has established.

Section 3.4. Budget and Charges. The Executive Director shall prepare an annual budget that will include a budget for all anticipated shared program and dependent program costs by the third quarterly meeting proceeding the budget year which begins on July 1<sup>st</sup>. The Board shall review and direct charges to the budget proposal and shall approve an annual budget at the March Meeting. The charges paid by each Party for the succeeding budget year shall be based on the approved budget.

Section 3.5. Account. The Executive Director will establish an account called the Tahoe Water Suppliers Association Account ("Account") to be used exclusively for purposes of the Association. Annual budget will determine the amount budgeted in the Account. The budget will be prorated for the Parties according to Section 3.2 and billed out on or about July 1 annually and become due 45 days later. Any monies not utilized during the budget year will be allocated to the next budget cycle unless allocated to the TWSA reserve fund. IVGID manages the reserve fund.

Section 3.6. Account Disbursements. All disbursements from the Account will be used for expenditures authorized by the Board in accordance with this Agreement. Except as otherwise provided in this section, the Board shall approve all TWSA programs and related payments from the Account in the annual Association budget process. The TWSA Director is authorized to approve all transactions as already defined and specified in the approved Association budget. Payments

of \$500 or less may be made by the Executive Director for actions not previously approved or detailed in the Association budget. All disbursements from the Account of greater than \$500 and less than \$1,000 shall require the approval of the Chairman for actions not previously approved or detailed in the Association budget. All disbursements from the Account \$1,000 or greater shall require approval of the majority of the Board for actions not previously approved or detailed in the Association budget.

#### ARTICLE IV

##### MEMBERSHIP PROCESS

Section 4.1. Admission of New Association Members. Public Water Systems desiring to join the Association shall submit a written request for consideration. The Board shall consider and discuss the request at a regularly scheduled Board meeting and conduct a vote on whether to admit the new member at a following regularly scheduled Board meetings. Public Water Systems requesting consideration of admission shall not have interests in conflict with TWSA's Mission Statement. A prospective member must receive approval by a minimum of at least 75% of the whole Board at the regularly scheduled meeting. Membership dues will be prorated for the current budget year based on the date of becoming a member and will become payable within 45 days of issuing the membership bill.

#### ARTICLE V

##### MISCELLANEOUS

Section 5.1. No Joint Venture / No Joint Power Authority. The Parties specifically acknowledge that no Party is acting as the agent of any other Party in any respect, and that each Party is an independent entity with respect to the terms, covenants and conditions contained in this Agreement. None of the terms or provisions of this Agreement shall be deemed to create a partnership between or among the Parties in their businesses, operations, affairs, or otherwise; nor shall it cause them to be considered joint ventures, joint power authority or members of any joint enterprise.

Section 5.2. No Third-Party Beneficiary. This Agreement is not intended, nor shall it be construed, to create any third-party beneficiary rights in any person or entity that is not a Party to this Agreement.

Section 5.3 Entire Agreement. This written Agreement constitutes the entire Agreement between the Parties with respect to the subject matter of the Agreement and supersedes all negotiations, prior agreements, and understandings between the Parties with respect to the subject matter.

Section 5.4. Further Actions. Each Party agrees to take all reasonable actions, to do all reasonable things, and to execute any and all documents and writings that may reasonably be necessary or proper to achieve their purposes and objectives of this Agreement.

Section 5.5. Good Faith. The Parties recognize and adopt the covenant of good faith and fair dealing in carrying out this Agreement.

Section 5.6. Modification. The Parties may not modify the terms of this Agreement except by approval of 75% of all Association members.

Section 5.7. Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of Nevada.

Section 5.8. Construction. The Parties acknowledge that each had the benefit of legal counsel, has had an opportunity to review this Agreement with its legal counsel, and that this Agreement shall be construed as if jointly drafted by all Parties.

Section 5.9. Counterparts. This Agreement may be executed by the Parties in counterparts, each of which shall be deemed an original instrument, and all of which shall constitute one and the same instrument.

Section 5.10. Notices. Any and all notices or other communications required or permitted by this Agreement or by law

to be served on or given to any Party by any other Party, shall be in writing, and shall be deemed duly served and given when personally delivered to the Party to whom it is directed, or in lieu of such personal service, then deposited in the United States Mail, first class postage prepaid, addressed to the Party at its last known address.

Section 5.11. Severability. In the event that any provision of this Agreement shall be held to be invalid or otherwise unenforceable, the Parties agree that the remaining provisions shall be valid and binding on the Parties hereto.

Section 5.12. Clarifying Statement. No member is delegating any of its authority or granting any right to act on its behalf by participation, except as to the specific tasks and revenues referenced. This Agreement provides no authority to bind its members.

Section 5.13. Termination. Any Party to this Agreement may withdraw from the Association for the upcoming year by giving notice of withdrawal to the other Parties at any time. No refund will be made of sums paid under this Agreement.

####

In WITNESS WHEREOF,  
The Parties hereto have executed this Agreement on the date and year above first written:

**LAKESIDE PARK ASSOCIATION**  
P.O. BOX 1775  
ZEPHYR COVE, NV 89448

BY

PRINT NAME: Bob Lodings

SIGNATURE: Bob Lodings


DATE: 2/7/17

In WITNESS WHEREOF,  
The Parties hereto have executed this Agreement on the date and year above first written:

**ROUND HILL GENERAL IMPROVEMENT DISTRICT**  
P.O. BOX 976  
ZEPHYR COVE, NV 89448

BY

PRINT NAME: A. Gregory Reed

SIGNATURE: 

DATE: 1-30-2017

In WITNESS WHEREOF,

The Parties hereto have executed this Agreement on the date and year above first written:

**INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT**  
1220 SWEETWATER  
INCLINE VILLAGE, NV 89451

BY

PRINT NAME: Joseph J. Pomroy

SIGNATURE: Joseph J. Pomroy

DATE: 1/18/17

In WITNESS WHEREOF,  
The Parties hereto have executed this Agreement on the date and year above first written:

**NORTH TAHOE PUBLIC UTILITY DISTRICT**  
P.O. BOX 139  
TAHOE VISTA, CA 96148

BY

PRINT NAME: Duane Whitelaw

SIGNATURE: AT Whitelaw

DATE: 1/23/17



In WITNESS WHEREOF,  
The Parties hereto have executed this Agreement on the date and year above first written:

**SOUTH TAHOE PUBLIC UTILITY DISTRICT**  
1275 MEADOW CREST DRIVE  
SOUTH LAKE TAHOE, CA 96150

BY

PRINT NAME: Richard Solbrig

SIGNATURE: Richard Solbrig

DATE: 1-24-17

In WITNESS WHEREOF,  
The Parties hereto have executed this Agreement on the date and year above first written:

**DOUGLAS COUNTY (ZEPHYR, CAVE ROCK, SKYLAND WATER COMPANIES)**  
P.O. BOX 218  
MINDEN, NV 89423

BY

PRINT NAME: Timothy M. DeTurk

SIGNATURE: 

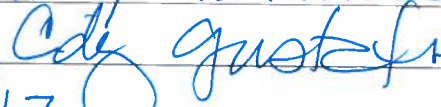
DATE: 1-25-2017

In WITNESS WHEREOF,  
The Parties hereto have executed this Agreement on the date and year above first written:

**TAHOE CITY PUBLIC UTILITY DISTRICT**  
P.O. BOX 5249  
TAHOE CITY, CA 96143

BY

PRINT NAME: CINDY GUSTAFSON

SIGNATURE: 

DATE: 3/14/17

In WITNESS WHEREOF,  
The Parties hereto have executed this Agreement on the date and year above first written:

**GLENBROOK WATER COOPERATIVE**  
POBox295  
Glenbrook, NV 89413

BY

PRINT NAME: Ken Riley

SIGNATURE: *Ken Riley*

DATE: 4-27-17

In WITNESS WHEREOF,  
The Parties hereto have executed this Agreement on the date and year above first written:

**KINGSBURY GENERAL IMPROVEMENT DISTRICT**  
P.O. BOX 2220  
STATELINE, NV 89449

BY

PRINT NAME: CAMERON HICKMAN

SIGNATURE: 

DATE: 3-6-17

In WITNESS WHEREOF,  
The Parties hereto have executed this Agreement on the date and year above first written:

**EDGEWOOD WATER COMPANY**  
P.O. BOX 5400  
STATELINE, NV 89449

BY

PRINT NAME: KING

SIGNATURE: *[Handwritten Signature]*

DATE: 3.8.17