



Patty Z. Kouyoumdjian, Executive Officer  
Lahontan Regional Water Quality Control Board  
2501 Lake Tahoe Blvd.  
South Lake Tahoe, CA 96150

January 31, 2018

RE: Section 13267(b) Compliance Report for Order No. R6T-2014-0059 – WDID 6A090089000

Dear Ms. Kouyoumdjian,

This report is submitted by the Tahoe Keys Property Owners Association (TKPOA) in response to the requirements specified in Lahontan Regional Water Quality Control Board Order No. R6T-2014-0059 (Order) Section II.D, Annual Reports and Updates.

This report covers 2017 activities under the Order, and includes a discussion of all requirements including an updated Integrated Management Plan, updated Nonpoint Source Water Quality Management Plan, Aquatic Plant Monitoring Plan, Bottom Barrier Implementation Program Summary, and Operations and Maintenance Report, in addition to the activities tentatively planned for 2018.

Integrated Management Plan for the Control of Aquatic Macrophytes

TKPOA, through adaptive management, has updated and appended herewith (Attachment 1), for your review and acceptance, its Integrated Management Plan for the Control of Aquatic Macrophytes (IMP) in accordance with Section II.C. of the Order.

Nonpoint Source Water Quality Management Plan

TKPOA has updated and appended herewith (Attachment 2), for your review and acceptance, its Nonpoint Source Water Quality Management Plan (NPS Plan) in accordance with Section II.B. of the Order.

Aquatic Plant Monitoring Plan

TKPOA conducted detailed aquatic plant monitoring surveys of the Tahoe Keys Main (west) Lagoon and Tahoe Keys Marina (east) Lagoon in 2014, 2015, 2016, and 2017. Surveys were also conducted in the Lake Tallac Lagoon in 2015, 2016, and 2017. The 2017 survey is appended herewith (Attachment 3) for your review. The 2017 survey included the use of a hydroacoustic system that was purchased in 2015. With comparable data, the approximate volume of plants in the Tahoe Keys Lagoons can now be tracked from year to year to show changes in the infestation. The 2018 survey plan will be the same as the 2017 plan to ensure consistency of data collection.

For the 2014 through 2017 timeframe, the aquatic plant survey data shows recent periods of exponential growth of the highly aggressive Curlyleaf Pondweed (CLPW), which has both expanded its

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presence throughout the lagoons and increased its occurrence in and between the West Channel and East Channel in the near-shore area of Lake Tahoe. As reported in TKPOA correspondence to the Tahoe Resource Conservation District and your and other agencies, CLPW is becoming established in areas of Lake Tahoe where it has not been previously observed. We believe these observations and data clearly indicate a near-term threat to Lake Tahoe that could mandate immediate actions to help forestall this plant's spread into broader areas of Lake Tahoe. TKPOA's report for 2017 further describes our concerns regarding the increase in the presence and occurrences of CLPW.

#### Bottom Barrier Implementation Program

In 2017, TKPOA continued with its bottom barrier program for property owners. Three property owners were able to successfully install barriers around docks and shorelines to help control the growth of aquatic plants. A report is appended (Attachment 4) further describing the results of the 2017 program. The TKPOA will likely offer the bottom barrier program again for its property owners in 2018 and will follow the same permit requirements as 2017.

#### Operations and Maintenance Report

TKPOA conducted aquatic plant removal operations again in 2017 using its harvesting equipment and boats from which staff collected floating fragments. In addition to the regular fragment collection boats, an OmniCat was purchased and utilized for the 2017 season which significantly increased the collection of floating fragments in and around the Tahoe Keys lagoons. The aquatic plants removed in 2017 had a freshly harvested volume of approximately 10,000 cubic yards, which is similar to the amount that was removed in 2016. Further improvements to the harvesting program will be made in 2018 including the planned purchase and installation of active skimmers that are expected to aid in the collection of fragments within the lagoons.

#### Other Planned 2018 Activities

TKPOA will continue its adaptive management program activities for several requirements under the Order. In 2018, TKPOA plans to further implement the IMP (Attachment 1) and NPS Plan (Attachment 2) in addition to conducting its fourth year of hydroacoustic monitoring and the homeowners' Bottom Barrier Program. In addition, TKPOA will be submitting several additional reports within the next two months to provide baseline data and background information for the 2018 adaptive management review process.

During 2018, the TKPOA also plans on pursuing a test of laminar flow aeration, which is a technology that has been shown to aid in improving water quality and reducing algae growth. While this technology is not proven for the control of aquatic macrophytes, it is hoped that its intended use to reduce sediment nutrients will, over time, help to improve water quality.

Lastly, TKPOA will continue to seek regulatory approvals in 2018 to test aquatic herbicides within a small portion of the Tahoe Keys lagoons. This information is time-critical to informing a long-term plan for the successful control and management of aquatic weeds in the lagoons to help protect Lake Tahoe.

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#### Additional WDR Compliance Actions

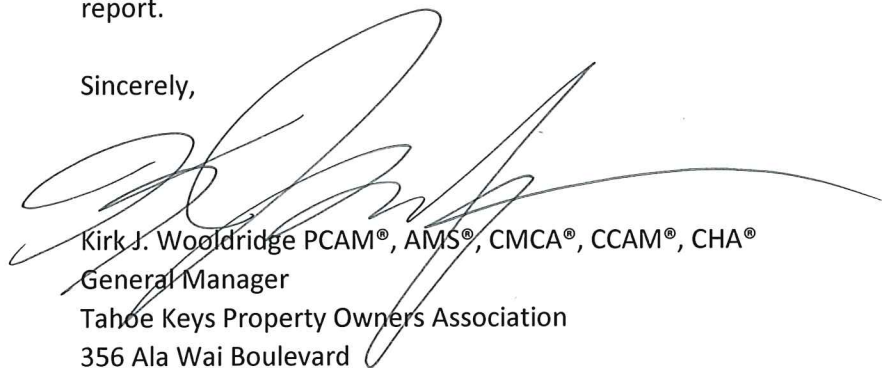
TKPOA has had preliminary discussions with the City of South Lake Tahoe regarding coordination on shared stormwater facilities. TKPOA began a comprehensive data collection program in 2016 to locate and GPS all visible storm drains into the Tahoe Keys lagoons. However, due to the high water levels present in 2017, data collection was impeded and will potentially begin in 2018 depending on water level. As the field data collection is completed and meetings with the City move forward, TKPOA will develop a plan for periodic inspection of both shared and non-shared stormwater facilities to monitor and address potential future increases in pollutant loads.

#### Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware of the potential for significant penalties for submission of false information, including the possibility of fines and imprisonment for knowing violations.

Please contact me at 530.542.6444 Extension 224 if you need any additional information regarding this report.

Sincerely,



Kirk J. Wooldridge PCAM®, AMS®, CMCA®, CCAM®, CHA®

General Manager

Tahoe Keys Property Owners Association

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#### Attachments

- 1 – Integrated Management Plan for the Tahoe Keys Lagoons
- 2 – Nonpoint Source Water Quality Management Plan
- 3 – Tahoe Keys 2017 Aquatic Macrophyte Survey Report
- 4 – 2017 Bottom Barrier Monitoring Report