



TRUCKEE MEADOWS WATER AUTHORITY
Board of Directors

AGENDA

Wednesday, September 16, 2020 at 10:00 a.m.
Virtual Meeting Only

MEMBERS OF THE PUBLIC MAY ATTEND VIA THE WEB LINK, OR
TELEPHONICALLY BY CALLING THE NUMBER, LISTED BELOW.
NO PHYSICAL LOCATION IS BEING PROVIDED FOR THIS MEETING
(be sure to keep your phones on mute, and do not place the call on hold)

Please click the link below to join the webinar:

<https://tmwa.zoom.us/j/92983233708?pwd=QjJydXVGWtN4d3B4dkQzNDQwOjZBQT09>

Password: 975223

Or call:

Phone: (888) 788-0099

Webinar ID: 929 8323 3708

Board Members

Chair Vaughn Hartung
Member Neoma Jardon
Member Jenny Brekhus
Member Paul Anderson

Vice Chair Kristopher Dahir
Member Jeanne Herman
Member Naomi Duerr

NOTES:

1. This meeting is being conducted pursuant to the Governor's Declaration of Emergency Directive 006 ("Directive 006 [http://gov.nv.gov/News/Emergency_Orders/2020/2020-03-22 - COVID-19 Declaration of Emergency Directive 006/](http://gov.nv.gov/News/Emergency_Orders/2020/2020-03-22_-_COVID-19_Declaration_of_Emergency_Directive_006/)) and will be held by teleconference only.
2. The announcement of this meeting has been electronically posted in compliance with NRS 241.020(3) and Directive 006 at <http://www.tmwa.com>, and NRS 232.2175 at <https://notice.nv.gov/>.
3. Pursuant to Directive 006, the requirement contained in NRS 241.020(3)(c) that physical locations be available for the public to receive supporting material for public meetings has been suspended. Staff reports and supporting material for the meeting are available on the TMWA website at <http://www.tmwa.com/meeting/> or you can contact Sonia Folsom at (775) 834-8002. Supporting material is made available to the general public in accordance with NRS 241.020(6).
4. The Board may elect to combine agenda items, consider agenda items out of order, remove agenda items, or delay discussion on agenda items. Arrive at the meeting at the posted time to hear item(s) of interest.
5. Asterisks (*) denote non-action items.
6. Pursuant to Directive 006, public comment, whether on action items or general public comment, may be provided without being physically present at the meeting by submitting written comments online on TMWA's Public Comment Form (tmwa.com/PublicComment) or by email sent to boardclerk@tmwa.com prior to the Board opening the public comment period during the meeting. In addition, public comments may be provided by leaving a voicemail at (775)834-0255 prior to 4:00 p.m. the day before the scheduled meeting. Voicemail messages received will be noted during the meeting and summarized for entry into the record. Public comment is limited to three minutes and is allowed during the public comment periods. The Board may elect to receive public comment only during the two public comment periods rather than each action item. Due to constraints of TMWA's videoconference system, public comment must be provided by voicemail, email or online comment as indicated above.
7. In the event the Chairman and Vice-Chairman are absent, the remaining Board members may elect a temporary presiding officer to preside over the meeting until the Chairman or Vice-Chairman are present (**Standing Item of Possible Action**).
8. Notice of possible quorum of Western Regional Water Commission: Because several members of the Truckee Meadows Water Authority Board of Directors are also Trustees of the Western Regional Water Commission, it is possible that a quorum of the Western Regional Water Commission may be present, however, such members will not deliberate or take action at this meeting in their capacity as Trustees of the Western Regional Water Commission.

¹The Board may adjourn from the public meeting at any time during the agenda to receive information and conduct labor-oriented discussions in accordance with NRS 288.220 or receive information from legal counsel regarding potential or existing litigation and to deliberate toward a decision on such matters related to litigation or potential litigation.

1. Roll call*
2. Pledge of allegiance*
3. Public comment — limited to no more than three minutes per speaker*
4. Possible Board comments or acknowledgements*
5. Approval of the agenda (**For Possible Action**)
6. Approval of the minutes of the August 19, 2020 meeting of the TMWA Board of Directors (**For Possible Action**)
7. Recognition of City of Sparks Mayor Ron Smith — Mark Foree*
8. Discussion and action, and possible direction to staff regarding acceptance of the 2020 Integrated Source Water and 319(h) Watershed Protection Plan for Public Water Systems and the Truckee River in the Truckee Meadows — Kara Steeland and Lynn Zonge and Jill Sutherland, Resource Concepts Inc. (RCI), and Kim Rigdon and Birgit Widegren, Nevada Department of Environmental Protection (NDEP) (**For Possible Action**)
9. Discussion and action, and possible direction to staff regarding the updated TMWA Draft 2020-2040 Water Resource Plan — Kara Steeland and John Enloe (**For Possible Action**)
10. Discussion and action on Resolution No. 288: A Resolution to approve funding for the projects recommended by the Truckee River Fund Advisory Committee and an authorization for the Community Foundation to fund such projects from Fund proceeds (Resolution may reflect action taken in one or more votes on recommended projects) — John Enloe (**For Possible Action**)
11. Discussion and action, and possible direction to staff to explore potential future agreement(s) with City of Reno for implementation of American Flat Advanced Purified Water Demonstration Project and staff and cost sharing for water resource development work — John Enloe and John Zimmerman (**For Possible Action**)
12. Discussion and action regarding General Manager performance review for contract year 2019/2020 and discussion and action on possible performance lump sum award and/or other compensation adjustment — Jessica Atkinson and Mark Foree (**For Possible Action**)
13. Discussion and action on request for Board input and acceptance of General Manager performance objectives for contract year 2020/2021 — Mark Foree (**For Possible Action**)
14. General Manager's Report*
15. Public comment — limited to no more than three minutes per speaker*
16. Board comments and requests for future agenda items*
17. Adjournment (**For Possible Action**)

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TRUCKEE MEADOWS WATER AUTHORITY
DRAFT MINUTES OF THE AUGUST 19, 2020
MEETING OF THE BOARD OF DIRECTORS

The Board of Directors met on Wednesday, August 19, 2020, via Zoom Virtual Meeting, Reno, Nevada. Chair Hartung called the meeting to order at 10: 01 a.m.

1. ROLL CALL

Members Present: Paul Anderson, Jenny Brekhus, Naomi Duerr, *Neoma Jardon, Vaughn Hartung, and Jeanne Herman.

Members Absent: Kristopher Dahir

A quorum was present by telephonic appearance.

**Member Jardon arrived at 10:10 a.m.*

2. PLEDGE OF ALLEGIANCE

The pledge of allegiance was led by Andy Gebhardt, TMWA Director of Operations & Water Quality.

3. PUBLIC COMMENT

There was no public comment.

13. BOARD COMMENTS AND REQUESTS FOR FUTURE AGENDA ITEMS

Chair Hartung elected to move item 13 to the beginning of the meeting. Chair Hartung expressed his condolences on the passing of Mayor Ron Smith, City of Sparks, and requested staff to send something to his family on behalf of TMWA in honor of Mayor Smith. Also, Chair Hartung acknowledged Lydia Peri, TMWA Engineering Resource Program Administrator, for receiving the graduate studies scholarship from Water Environment Federation (WEF). John Enloe, TMWA Director of Natural Resources, added that it is the only scholarship that WEF gives per year for graduate students, and it is for her work on the advanced purified water initiative.

4. APPROVAL OF THE AGENDA

Upon motion by Member Duerr second by Member Brekhus, which motion duly carried by unanimous consent of the members present, the Board approved the agenda.

5. APPROVAL OF THE MINUTES OF THE JUNE 17, 2020 MEETING

Upon motion by Member Brekhus, second by Member Duerr, which motion duly carried by unanimous consent of the members present, the Board approved the June 17, 2020 minutes.

6. PRESENTATION ON TMWA'S WATER MAIN REPLACEMENT PROGRAM

Danny Rotter, TMWA Engineering Manager, presented on TMWA's prioritized main replacement program and acknowledged Holly Flores, TMWA Principal Engineer, who finalized the report in 2015 with the support from the GIS Team. The report provides an inventory and analysis of TMWA's infrastructure with short- and long-term plans, which requires coordination with local entities, that are sustainable and reduce risk over time, to ensure a viable system for the community.

At this time, the Board addressed the amount of water volume lost with main breaks and leaks (about 6% in non-revenue water is lost); if any of the water testing conducted indicated any issues with the pipe materials, such as the asbestos cement (no, there have not been any asbestos issues in the water with the transite pipes); how TMWA coordinates with local entities (staff decides whether to follow a street and sewer project if the water line falls into the category of steel or cast iron and how much life is left in the pipe); what is TMWA's preferred material (PVC and ductile liner, and they use both in the system); and the importance of maintaining existing infrastructure in established neighborhoods regardless of where it is as long as it is within TMWA's Service Area (TMWA often follows road projects for cost effective replacements, but will initiate a separate project if the water mains have risen over the threshold to warrant replacement).

Chair Hartung confirmed the water leak at Vista Boulevard in 2019 was a blow-off valve that failed, not the water main, and TMWA requires developers to use materials that are up to TMWA standards. Mr. Rotter replied that is correct.

7. DISCUSSION AND POSSIBLE DIRECTION FROM BOARD REGARDING THE EVALUATION PROCESS FOR CONDUCTING GENERAL MANAGER'S PERFORMANCE REVIEW

Jessica Atkinson, TMWA Human Resources Administrator, presented the staff report and informed the Board they will receive the link to the survey on August 24th and two weeks to complete. The final evaluation will be presented at the September 16 Board meeting.

No action taken.

8. PRESENTATION OF PRELIMINARY FISCAL YEAR 2020 UNAUDITED FINANCIAL PERFORMANCE

Matt Bowman, TMWA Financial Controller, informed the Board that total operating revenues came in at \$1.6m (within 1%) lower than budget; water sales revenue came within \$200k (1%) of budget; TMWA had a strong fourth quarter of FY 2020 due to an increase in residential and irrigation revenues, despite a decrease (about 25%) in commercial water sales, although commercial water sales make up only about 12% of overall revenue; connections increased 2% year over year; overall operating expenses was \$7.6m (8%) lower than budget; salaries and wages were down from budget due vacant positions; services and supplies were lower by about \$3.9m; non-operating expenses were \$4.0m under budget (which is attributed to increased investment earnings); and lower interest expense of \$0.4m which is mostly due to our commercial paper program having lower rates (which is down to \$14.5m and expect to pay it off within the next three years).

Member Brekhus stated she was pleased with the progress made towards paying down the commercial paper debt and inquired how the stock market is impacting TMWA's balance sheet. Michele Sullivan, TMWA Chief Financial Officer, replied the stock market does affect PERS, however doesn't have a substantial impact on TMWA's investments.

Chair Hartung stated TMWA has had strong financial advisors since inception, Ms. Sullivan and Mr. Bowman are doing amazing work, and he is pleased with the steady financial position at TMWA.

9. DISCUSSION AND ACTION, AND POSSIBLE RECONSIDERATION AND MODIFICATION OF IMPLEMENTATION OF PHASE THREE, PHASE FOUR AND/OR PHASE FIVE RATE ADJUSTMENTS IN AMOUNT OF 2.5% EACH CURRENTLY SCHEDULED TO BE IMPLEMENTED ON FIRST BILLING CYCLE IN SEPTEMBER 2020, MAY 2021 AND MAY 2022

Ms. Sullivan, presented the staff report recommending the Board to defer to May 2021 the Phase 3 rate increase that was deferred at the April meeting for implementation to September 2020 and recommended the Board also defer phases four and five to May 2022 and 2023, respectively, as a result of the economic impacts the COVID pandemic has had on customer and the local economy. FY 2020 ended 2% better than planned, but still 5.8% short on costs of service versus operating revenue. She stated they are forecasting quite a large deficit in funding for FY2021. Also, the senior lien coverage target is 1.5x and the delay makes it close to being under that target, so we need to ensure we do not get downgraded by credit rating agencies and implement a rate plan.

Member Duerr inquired if the surplus or deficiency as a percent of cost of service if it is cumulative or annual calculation. Ms. Sullivan replied that they are an annual calculation and the numbers are reflective of implementing the 2.5% rate increases for the next three years.

The Board discussed the need to tie the deferral of the rate increases to COVID-19 and whether to cancel phase three that is currently scheduled to be implemented in September. Discussion occurred regarding the scope of the original Resolution (No. 250) which was adopted in 2017 and the scope of the amendment (Resolution No.269) and whether a new resolution should be brought before the Board given the passage of time. Legal counsel noted that those resolutions authorized the Board to lower, defer or cancel

implementation of the approved phases, and that a decision to defer further would be an implementation of those prior resolutions. The Board discussed that all three phases of the 2.5% rate adjustments are required to minimize the funding gap over the next five years and the need to defer Phase 3, 4 and 5 increases due to economic and COVID factors.

Upon motion by Member Duerr, second by Member Brekhus, which motion duly carried by unanimous consent of the members present, the Board approved to defer the implementation of the Phase Three, Phase Four and Phase Five rate adjustments in amount of 2.5% each currently scheduled to be implemented on first billing cycle in September 2020, May 2021 and May 2022 respectively, to be implemented on the first billing cycle in May 2021, May 2022, and May 2023, respectively.

10. DISCUSSION AND ACTION, POSSIBLE DIRECTION TO STAFF AND POSSIBLE APPROVAL OF MEMORANDUM OF UNDERSTANDING (MOU) WITH CARSON CITY AND STOREY COUNTY REGARDING IDENTIFICATION AND AVAILABILITY OF SURPLUS WATER RESOURCES IN THE MARLETTE LAKE WATER SYSTEM

John Enloe, TMWA Natural Resources Director, reported that staff has been working with the State of Nevada, Carson City and Storey County and have clarified the initial misconceptions regarding TMWA's intent to utilize the surplus water from the Marlette Lake Water System. Mr. Enloe confirmed that Carson City and Storey County have first priority to the water rights for existing and planned future water uses. Storey County is drafting a master plan for future water service in areas that do not currently have water service now. The MOU provides for a two-year timeframe to work on the details with all three entities and bring back an agreement to the Board identifying the surplus water and under what circumstance it would be available to TMWA.

Member Brekhus said she originally opposed this agreement, but now approves since it will provide Carson City and Storey County the resources to invest in their system and improve their issues. Member Brekhus stated private importation projects are not beneficial to our region and doesn't think they should have a place in TMWA's 2020-40 Water Resource Plan. She inquired if the Marlette Lake agreement was an importation project. Mr. Enloe replied no, this is not an importation project. There are two components to the water supply from the Marlette Lake Water System: water flows directly into Lake Tahoe from Marlette Lake and water flows down into the Truckee River watershed from the east slope through Franktown Creek, much of which is currently not accounted for.

Mr. Enloe introduced Eddy Quaglieri, Carson City Public Works Water Utility Manager, to provide additional information. Mr. Quaglieri stated that they are going through a rate increase that has been deferred from November 2020 to January 2021, which will assist in upgrading the water treatment plant and treat the turbidity issues with Marlette Lake water.

Member Herman stated this was a very wise move and thanked staff for their continuous work.

Upon motion by Member Anderson, second by Member Herman, which motion duly carried by unanimous consent of the members present, the Board approved the Memorandum of Understanding (MOU) with Carson City and Storey County regarding identification and availability of surplus water resources in the Marlette Lake water system.

11. GENERAL MANAGER'S REPORT

Mr. Foree reported Lake Tahoe is about 70% maximum capacity, combined reservoir storage is two-thirds which is very good considering it is near the end of summer.

Member Duerr thanked TMWA staff on their efforts in the Portland Loo project installation, which is upstream of the Glendale diversion, and suggested that staff consider newer options, that may be cheaper and easier to maintain, for the next phases of installation.

Chair Hartung agreed and suggested there is a local company that could be partnered with to install future loos in order to keep the funds local.

12. PUBLIC COMMENT

Mr. William Bowden submitted a comment regarding his purchase of a duplex in 2012. Since then, he has built a new duplex on the same property, which does not have water service. Mr. Bowden expressed his frustration that TMWA has not eased their requirement of installing back flow valves and does not understand why since he was informed that by parceling the property, it would waive the back-flow requirements.

13. BOARD COMMENTS AND REQUESTS FOR FUTURE AGENDA ITEMS

Chair Hartung again expressed his condolences on the passing of Mayor Smith and said their thoughts and prayers are with his family. He would like Mr. Foree to send something on behalf of TMWA and the Board to Mayor Smith's family in his honor and contribution over the years. Also, he congratulated City of Reno for appointing their new city manager.

Member Duerr also wanted to note the passing of former chair of the Pyramid Lake Paiute Tribe (PLPT) Norman Harry, who passed unexpectedly. Mr. Harry played a major part in the Truckee River Operating Agreement (TROA) and Member Duerr asked for staff to recognize Mr. Harry's contributions at the next meeting.

14. ADJOURNMENT

With no further discussion, Chair Hartung adjourned the meeting at 12:01 p.m.

Approved by the TMWA Board of Directors in session on _____.

Sonia Folsom, Board Clerk.

Member Jardon was present for agenda items 6 thru 13 only.

DRAFT



STAFF REPORT

TO: Board of Directors
FROM: Mark Foree, General Manager
DATE: September 8, 2020
SUBJECT: Recognition of City of Sparks Mayor Ron Smith

On August 19, 2020 TMWA lost a friend, advocate, veteran and former Board Member with the passing of Sparks Mayor Ron Smith. He was a force to be reckoned with during his tenure on TMWA's Board from 2006-2007 and 2014-2019. Mayor Smith also served as Board Vice Chair from 2018-2019. A model Board member, Mayor Smith dedicated himself to impartiality in making decisions for *all* TMWA customers, not just those within his Sparks jurisdiction. In his efforts, he contributed tremendously to decisions supporting regional water quality, conservation, addressing current and future water-resource availability, and maintaining TMWA's financial stability to keep customer rates low.

In light of his contributions, support and true friendship, TMWA's staff and leadership are filled with both a sense of loss and profound gratitude. He made us better. Also, on behalf of the TMWA staff, I would like to offer all of our sympathies to his family, friends and colleagues for their loss.

In dedication to Mayor Smith's memory, and for his years of service, TMWA staff has made a donation to the Nevada Veterans Memorial. A brick has been purchased in his honor with the inscription:

*In memory of Mayor Ron Smith,
a friend & TMWA Board member.
Your memory endures and guides us*



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree
FROM: John Enloe, Director, Natural Resources
Kara Steeland, Hydrologist
DATE: September 3, 2020
SUBJECT: Discussion and action, and possible direction to staff regarding acceptance of the 2020 Integrated Source Water and 319(h) Watershed Protection Plan for Public Water Systems and the Truckee River in the Truckee Meadows

Recommendation

Staff recommends that the Board accept the 2020 Integrated Source Water and 319(h) Watershed Protection Plan for Public Water Systems and the Truckee River in the Truckee Meadows.

Summary

TMWA staff has been coordinating with the Nevada Division of Environmental Protection (NDEP), Resource Concepts, Inc. (RCI), and other local agencies to complete the 2020 Integrated Source Water and 319(h) Watershed Protection Plan for Public Water Systems and the Truckee River in the Truckee Meadows. The TMWA Board approved TMWA's participation in NDEP's Integrated Source Water Protection Program (ISWPP) in January 2017.

Plan implementation will support and help improve the efficacy of TMWA's Source Water Protection Program, Water Quality Assurance Program, and Wellhead Protection Plan. The plan is part of a voluntary effort administered under the NDEP Bureau of Safe Drinking Water Integrated Source Water Protection Program (ISWPP) and the Bureau of Water Quality Planning 319 Nonpoint Source Management Program.

Presenters Kim Rigdon and Birgit Widegren from NDEP and Lynn Zonge and Jill Sutherland from RCI will discuss the key components of the plan, including the Source Water Protection Areas, Project Profiles, and Watershed Descriptions. The plan is available via an [online viewer](#) managed under the Truckee Meadows Regional Planning Agency.

Source Water and Watershed Protection in Washoe County

- Truckee Meadows Water Authority
- Truckee Meadows Regional Planning Agency
- Washoe County Health District
- City of Reno
- City of Sparks
- Washoe County
- Truckee Meadows Remediation District
- Truckee Meadows Stormwater Permit Coordinating Committee
- Nevada Land Trust
- One Truckee River
- Keep Truckee Meadows Beautiful

Information regarding funding assistance:

Nevada Division of Environmental Protection

- Water Quality Planning Nonpoint Source Branch 319(h)
 - ***Birgit Widegren***

- Source Water Protection Program
 - ***Kim Rigdon***

- Contractor
 - ***Resource Concepts, Inc. Jill Sutherland***

THANK YOU!

- **Truckee Meadows Water Authority**
- **Truckee Meadows Regional Planning Agency**
- **Washoe County Health District**
- **City of Reno**
- **City of Sparks**
- **Washoe County**
- **Truckee Meadows Remediation District**
- **Truckee Meadows Stormwater Permit Coordinating Committee**
- **Nevada Land Trust**
- **One Truckee River**
- **Keep Truckee Meadows Beautiful**



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree
FROM: John Enloe, Director, Natural Resources
Kara Steeland, Hydrologist
DATE: September 4, 2020
SUBJECT: **Discussion and action, and possible direction to staff regarding the updated TMWA Draft 2020-2040 Water Resource Plan**

Recommendation

Staff recommends that the Board review the edits to the draft 2020-2040 Water Resource Plan (WRP) and provide feedback prior to staff presenting the final version of the WRP in October 2020.

Summary

TMWA held four public webinars via Zoom and Facebook Live in June and July 2020 to gather public feedback regarding the draft 2020-2040 WRP. The draft plan and a comment form were available on <https://tmwa.com/wrp2020/> from June until August. Public comments and questions received during the presentations and via the comment form have been addressed in a question and answer page posted on the website (Attachment A). Additionally, some edits have been made to the draft WRP in response to public comments (Attachment B). The revised version of the draft plan is available on <https://tmwa.com/wrp2020/>.

Presentations regarding the draft 2020-2040 WRP were also given to the Northern Nevada Water Planning Commission, Western Regional Water Commission, TMWA Standing Advisory Committee, Nevada State Engineer, several legislators, and at a TMWA all-employee meeting.

Staff would like to discuss the “Other Conceptual Resources” section in Chapter 5: Future Water Resources to determine whether the Board would like this information included in the final version of the WRP.

Attachments

Attachment A: TMWA 2020-2040 Water Resource Plan Questions and Answers

Attachment B: TMWA 2020-2040 Water Resource Plan Edits

TMWA 2020-2040 WRP – QUESTIONS & ANSWERS

Does TMWA have models of how much the region can grow, considering severe drought? (Ch. 3)

Yes, multiple models were used and applied in this Water Resource Plan.

Regarding the impact of drought and climate change: TMWA evaluated a range of scenarios that included historic droughts (including the worst droughts on record), climate change models, and future greenhouse gas emission projections. Precision Water Resources Engineering was also retained by TMWA to provide third-party verification regarding how climate factors may impact future conditions of the Truckee River system.

Regarding the impact of population growth on water demand: To estimate future water demand in the Truckee Meadows, the following data sources were used: Washoe County population, historical water services in TMWA's service area, and historical water use data. TMWA's population projection used in this report is based on a logistical growth curve, assuming that current trends and conditions continue.

With these conditions and projections, multiple drought and climate scenarios were simulated to the year 2098 to evaluate the resiliency and sustainability of TMWA's water resources. Using this information, the results show that TMWA's water supply is extremely resilient at least 50 years into the future, even under extreme climate change scenarios where more severe droughts are projected to occur.

Of related note: New residential development served by TMWA is required to dedicate water rights to not only meet a project's estimated water demand, but also includes an additional 11% safety factor of additional water rights which are dedicated to TMWA for drought storage.

Why is a 20-year span selected for the planning period?

TMWA's plans consider a 20-year horizon to be consistent with the Truckee Meadows Regional Planning Agency's Regional Plan, which considers land use and growth projections over a 20-year time frame. Furthermore, 20 years is a reasonable timeframe to plan, design and construct capital improvements and solutions, many of which can take years to implement. TMWA uses the Water Resource Plan in conjunction with its Water Facility Plan, which addresses necessary infrastructure improvements over a 20-year timeframe as well. Both the Water Facility Plan and the Water Resource Plan are updated every 5 years. TMWA's Funding Plans are updated annually.

With every update, the Water Resource Plan accounts for change that could impact TMWA's approach to resource management (e.g. population shifts, availability of convertible water rights, changes in available sources of supply, regulatory issues, etc).

Does TMWA need to expand its reservoir storage capacity? (Ch. 3 & 5)

No. Truckee River reservoir storage capacity is not likely to increase, although the Truckee River Operating Agreement allows TMWA to greatly expand the amount of upstream water stored

during prolonged drought periods. Additionally, TMWA continues to pursue other innovative ways to increase and diversify its water resources. In Chapter 5 of the draft Water Resource Plan (see PDF), future water resource projects are identified, which include adding additional groundwater capacity, aquifer storage and recovery projects, utilizing creek resources in more efficient ways, investigating new reclaimed water treatment technologies, and other options.

Regarding Aquifer and Storage Recovery, what water quality control features are being used for the reinjection of water? (Ch. 2)

Recharging treated surface water into aquifers, which typically occurs during winter months when customer demands are low, has water quality requirements that are permitted and monitored by the Nevada Department of Environmental Protection. In adherence to these requirements, water recharged into aquifers cannot negatively impact groundwater quality. In some areas with higher levels of naturally occurring minerals, such as Arsenic, groundwater quality is improved through TMWA's aquifer storage and recovery program.

Given the historical change from agricultural to urban use, what happens to the ditches distributing water throughout the valley? Is there a plan to take over the ditches at some point when water flow is minimal to agricultural users? Should there be a point at which some water remains in the ditches?

The water conveyed in irrigation ditches continues to play a role in aquifer recharge, specifically in southwest Reno and Spanish Springs. The irrigation ditches are managed and operated by private irrigation companies. Exceptions to this are the hydroelectric ditches and flumes supplying TMWA's three run of the river hydroelectric plants (see Chapter 6) and the Highland Ditch, which supplies the Chalk Bluff Water Treatment Plant. Decisions about the future of these ditches would be under the purview of the individual irrigation companies and the local government jurisdictions where the ditches are located. TMWA has no authority on decisions made regarding the private irrigation ditches in the Truckee Meadows.

Currently, TMWA has no plans to take over any additional irrigation ditches in the region.

Due to the recent flume damage on Washoe Hydroelectric Plant, what is the effect on TMWA's hydroelectric revenue? (Ch. 6)

TMWA has three hydroelectric plants on the Truckee River that are over 100 years old but remain important to our energy portfolio. From a lost-revenue perspective, the Washoe Hydroelectric Plant is the lowest grossing energy producer of TMWA's three plants. Replacement construction costs are estimated to be around \$3 million to repair the Washoe flume, which had been budgeted in TMWA's Capital Improvement Plan and now is set at a higher priority. We anticipate approximately \$500,000 in lost hydrogeneration revenue before the flume is fully operational again.

Meanwhile, the Verdi and Fleish Hydroelectric Power Plants are fully operational and continue to help offset TMWA's power costs. Last year, the two plants generated \$2.3 million in revenue. Also, a new hydroelectric facility at the Chalk Bluff Water Treatment Plant has been recently

approved by the TMWA Board of Directors. The new hydroelectric facility will not require new dams or diversions on the Truckee River.

What are the plans to mitigate and forestall debris flows into the river from slope failures and burned areas? (Ch. 6)

The Truckee River Fund, established by TMWA in 2005, has been very active in funding forest management and bank stabilization efforts, particularly on the California side of the watershed where the river is more susceptible to landslides during thunderstorm events. When these events happen, advanced water quality monitoring systems can identify upstream mudflows, and if substantial, TMWA can opt to shut off treatment-plant intake channels to allow the impacted water to flow by.

Regarding the accounting for 10% conservation during droughts in the modeling, was this calculation done after the removal of the flat rate? (Ch. 4)

Data used in this Water Resource Plan was based on the most current customer demand, after the removal of flat-rate billing and reflects a customer base that is 99% metered.

We believe community conservation of 10% is very realistic: When TMWA requested 10% conservation during the 2015 drought year, our customers conserved 15-18%. Based on this outcome, we believe achieving 10% water conservation from our customers is reasonable. Additionally, since 2015, we are observing that more customers are using highly efficient, drip-style irrigation. Also, most new development lots are smaller with bigger buildings, further reducing water demand for landscaping needs.

How was the plan update publicized? What opportunities were there for public input on the draft version of the Water Resource Plan? (Ch. 1)

TMWA planned an extensive public outreach process. The draft plan was scheduled to be presented to the Board in March 2020. Due to the COVID-19 pandemic, the release was delayed until June 2020. The original outreach process included approximately 20 public presentations, including to all relevant Reno Neighborhood Advisory Boards and Sparks and Washoe County Citizen Advisory Boards. TMWA amended its outreach process to include four public webinars (via Zoom and Facebook Live) and presentations to agencies, including WRWC, NNWPC, and the TMWA SAC. The plan update was advertised on TMWA's social media pages and website (smartaboutwater.com and tmwa.com/wrp2020) and an email was sent out to TMWA's customer list, which includes over 115,000 email addresses.

Where are the following issues from the public survey addressed: "conserving water", "maintaining adequate flows in the Truckee River", and "TMWA's role in providing water for habitats"?

- “Conserving water” – **Chapter 4** explains TMWA’s conservation policies.
- “Maintaining adequate flows in the Truckee River” – In an average year, TMWA uses approximately 3% of river flows from the Truckee River. Required rates of flow at the CA/NV state line were set in place many years ago by various court decrees and are still

administered by the Federal Water Master under the terms of the new Truckee River Operating Agreement (TROA). In any given year, TROA helps to improve flows in the Truckee River for both habitat and recreation. **(Ch. 2)**

- “TMWA’s role in providing water for habitats” – TMWA does not provide water for habitats directly. TROA does, however, increase the amount of water stored upstream for the purposes of improving fisheries and instream flows. This water which is generally used to improve habitat for fisheries in the lower river and Pyramid Lake is managed by the Pyramid Lake Paiute Tribe (PLPT). The state of California also can store water for the purposes of improving habitat under TROA. TMWA works with both parties to help shift releases to improve habitat for fisheries and recreation whenever possible. **(Ch. 2)**

Where does the plan that demonstrate compliance with Washoe County Question #3? (Ch. 3)

The plan explains WC3 on pg. 43. The projected Washoe County water use over the next 20 years can be supported by the sustainable water resources identified in WRWC’s Comprehensive Regional Water Management Plan. TMWA’s Water Resource Plan helps guide the development of the Comprehensive Regional Water Management Plan.

What does it mean when the plan states that developers contribute “additional rights that are water banked” to TMWA? (Ch. 3)

TROA requires that for each acre-foot of demand, applicants dedicating Truckee River water rights to meet their project’s water demand must dedicate 0.11 acre-feet of additional water rights. These additional water rights are used, to the extent physically and legally feasible, by TMWA to establish credit water under TROA in upstream reservoirs. These additional rights are committed when they are dedicated to TMWA and are used for upstream storage. As stated on pg. 42 of the plan, TMWA does not re-commit these additional rights for future growth and that is expressly prohibited by Section 4.B.3 of TROA.

What is different about this plan from the previous plan and how TMWA has updated its specific direction or policies regarding the data, graphics, and survey information presented in this draft update?

This plan differs from previous plans in the following ways:

- Focuses less on TMWA history, and more on future planning with an analysis of demand and supply through 2098 with climate change scenarios.
- Provides a look at the benefits and challenges of potential future resources to further increase the diversity of TMWA’s water supply portfolio.
- Includes a clear description of TMWA’s commitment to protecting the watershed and environment through its involvement in community programs and initiatives.
- Includes a recommended actions chapter that builds on the previous plan.
- Includes more engaging content for plan readers to help inform the general public about TMWA’s water resource management strategies.

There are not major policy changes in this plan that will impact the way TMWA manages water resources during the next five years. The plan results show that the water supply is resilient over the next 20 years and beyond, regardless of the hydrologic scenario. As presented in Ch. 7, TMWA will continue to implement many of its existing programs and policies. Additionally, TMWA will continue to analyze demand projections, climate change models, and future water resource options to ensure that the water supply is reliable into the future. If major policy changes are needed based on TMWA's continued analyses, those policy changes will be reviewed and adopted by the TMWA Board and included in the next version of the WRP.

Why do the future water resources described in Ch. 5 not include cost estimates?

Many projects are still conceptual or being investigated at this time. TMWA does not need additional resources in the immediate future, but TMWA is constantly assessing the feasibility of additional water resources. For example, other creek resources, such as Thomas Creek and Galena Creek, are still in the investigatory stages, therefore no project scope or cost estimates have been developed. Similarly, the OneWater Nevada advanced purified water feasibility study is just that, a feasibility study. If proven technically feasible, it may be several years before a project scope is fully developed.

Why is the historic information being presented alongside the climate change scenarios? (Ch. 3)

TMWA, along with the team of climate scientists that TMWA worked closely with, felt that it was also important to include these historic droughts (the worst on record) as a comparison with future climate change conditions. TMWA presented the data in a way that went from the best-case scenario (historic droughts) to the worst-case scenario (RCP 8.5). The presentation of the data in this order did not reflect the relative likelihood of these events occurring. The summary on pg. 40 does not suggest that the historic scenario results are expected.

Does the plan suggest that climate change is not occurring by including the historical results? (Ch. 3)

TMWA is not suggesting that emissions will decrease or that the climate change scenarios are unlikely. TMWA tested the dependability of the Truckee River system 80 years into the future using the best science available. The most recent climate change scenarios available today (endorsed by the Intergovernmental Panel on Climate Change (IPCC)) were used to evaluate the regional water supply under both moderate (RCP 4.5) and very high (RCP 8.5) emissions scenario. These emission trajectory scenarios were evaluated well beyond the typical 20-year timeframe of the plan, to determine how the water supply would fare under climate change. The system proved to be extremely resilient for at least 50 years into the future under all scenarios evaluated, including the RCP 8.5 scenario. TMWA will continue to monitor current climate change science and will update the plan in five years with new models and projections. Ch. 3 acknowledges that climate change is occurring, that runoff will likely occur earlier, and precipitation may shift to more rain instead of snow. TMWA is currently working with many federal partners to model and adjust upstream reservoir storage operations to help adapt to future

climate change.

Why does the plan update show continually increasing demand despite climate model projections that show there are shortages in our future? (Ch. 3)

Demand increases are due to projected regional growth in the future. The projected demands 50+ years out, as modeled in the climate scenarios, are extremely difficult to accurately project. TMWA conservatively estimates projected increases in water demand to prepare for potential future conditions. However, as shown in Figure 3-9, TMWA's annual water production is essentially equal to what it was in the year 2000, after adding over 36,000 new customers, an increase of approximately 30%. This speaks to TMWA's efforts regarding water conservation and increased water use efficiency.

Is TMWA working to encourage a reduction in per capita consumption going forward? (Ch. 4)

TMWA's conservation plan relies heavily on actions such as water restrictions and enforcement mechanisms, educational programs, funding of landscape retrofit projects and a broad multi-media communication campaign (demand side management practices). These actions have helped thousands of customers conserve water. Moreover, TMWA's Meter Retrofit Fund has installed meters on nearly all flat-rate services, giving those customers information on monthly consumption, allowing them to better track their water usage behaviors. These actions have a direct impact on water efficiency, and this effect can be measured via the approximately 30% decline in per-capita water usage since TMWA's inception. So, while TMWA's customer base has grown by about 30% over the past 18 years, its water production has remained relatively stable over time.

How is TMWA addressing microplastic pollution in its source water?

TMWA continually monitors the efforts and research conducted on source water supplies by Tahoe Environmental Research Center, Desert Research Institute, National Oceanic and Atmospheric Administration, and other agencies.

TMWA is also paying attention to ongoing research regarding microplastics in drinking water. There is little research on whether small microplastics make it through conventional water treatment processes, and testing is still difficult. The World Health Organization says "... drinking-water treatment systems—where they exist and are optimized—are considered highly effective in removing particles of similar characteristics and sizes as microplastics. Drinking-water treatment has proven effective in removing far more particles of smaller size and at far higher concentrations than those of microplastics. Conventional treatment, when optimized to produce treated water of low turbidity, can remove particles smaller than a micrometer."

What is "standard conservation"? What is "enhanced conservation"? (Ch. 4)

Standard conservation is defined as programs TMWA engages in every year. Enhanced conservation is defined as increasing implementation of existing programs (increasing water

restrictions, increasing drought awareness media campaign, increasing staffing of the Water Watcher Program. See Table 4-2 on pg. 55 for more detail on standard and enhanced conservation programs and restrictions. TMWA can also implement additional enhanced conservation, such as requesting additional water usage cutbacks (as done in 2015). The Drought Contingency Plan (DCP) more explicitly explains TMWA's conservation programs and implementation (see page 48 of the plan or go to <http://www.tmwa.com/dcp>).

Why doesn't the plan update present information on where TMWA's water is used within the TMWA service, including how usage varies throughout the seasons?

The goal of the WRP is to look at overall water supply and demand for the entire system. Area specific water use and future infrastructure improvements are included in TMWA's Water Facility Plan, which was also recently updated. The executive summary of that plan is located here: <https://tmwa.com/wp-content/uploads/2019/11/2035-WFP-5-1-19.pdf>.

Why doesn't the plan present the range of water consumption for both residences and businesses for the past 20 years projected into the future? (Ch. 4)

In every previous Water Resource Plan, when comparing actual water usage to the projected use, actual usage has never exceeded the projected amounts. Therefore, TMWA's water demand projections are considered the upper limit of the consumption range. Due to this estimation bias, TMWA considers its projection to be conservative and therefore doesn't include lower demand curves in its analysis. The thought process is that any lower demand scenario is manageable if the upper limit is predicted to be manageable. When building the demand estimation curve, TMWA aggregates average usage from its various customer classes. For an in-depth discussion on this demand process, please refer to Ch. 4 of the 2016-2035 Water Resource Plan (https://tmwa.com/wp-content/uploads/docs/your_water/2035WRP/2035_WRP_VolumeII_chptr_1-6_Final.pdf).

One of the climate model graphics presented shows an increase in Lake Tahoe's water surface elevation extended period mid-century. Why? (Ch. 3)

Data suggests that we can expect a more variable and even volatile hydrology in the Truckee River system under both the RCP 4.5 and the RCP 8.5 scenarios. This means that the region will not only experience more severe droughts, but it will also experience more severe flooding in the future under continued climate change. The form, timing and volume of precipitation is expected to continue to change over the years, leading to more severe, prolonged droughts and more, significant wintertime flooding events. The Lake Tahoe hydrograph depicts the projected future median annual elevation under the most extreme hydrological year out of each of the 9 models in the ensemble run under each RCP, which in the case of those years were very wet, contributing to the high elevations.

What is TMWA's overall power consumption? What renewable energy sources does TMWA use? Can TMWA partner with other entities to provide additional renewable power for its needs? (Ch. 6)

As indicated on pg. 78, TMWA can offset up to 90% of the power it uses to provide drinking water to its customers on an annual basis through hydroelectric generation. Prior to the merger with Washoe County and STMGID in 2015, TMWA was able to produce more renewable energy than it consumed in some years. TMWA is currently coordinating with a solar project in Honey Lake Valley and investigating the possibility of using renewable energy to power the Fish Springs Ranch project.

Is TMWA planning on retiring its hydroelectric plants? (Ch. 6)

TMWA has no plans to retire its hydroelectric plants which produce cost-effective renewable energy. These plants have been operating reliably on the river for over 100 years, and the bypass flows now in place and recognized under TROA have been evaluated by the USFW, NDOW, PLPT and others as being more than adequate to protect fish and the habitat that supports them.

Why doesn't the plan show a summary of projects granted over the past 5 years through the Truckee River fund to help protect the watershed of the Truckee River? (Ch. 6)

The plan provides a link to the Truckee River Fund website (truckeeriverfund.org) where all projects funded over the past five years and previously are listed and described.

TMWA 2020-2040 WRP EDITS – SEPTEMBER 2020

Executive Summary

- Provided clarity on how much TMWA’s residential per-capita water use has declined in the “Conservation” section (in response to public comment)

Chapter 1

- Updated “Plan Update Process” section to add information about FAQ page

Chapter 3

- Removed wording referring to RCP 8.5 as a “worst-case scenario” (in response to public comment)
- Added some additional information regarding Precision Water Resources Engineering climate change report and provided a link to this report

Chapter 4

- Added text to Figure 4-1 to clarify how much TMWA’s residential per-capita demand has decreased (in response to public comment)
- Edited Table 4-2 to read ‘Time-of-day: No lawn watering 12 p.m. to 6 p.m.’ and ‘Time-of-day: No lawn watering 11 a.m. to 7 p.m.’
- Clarified “enhanced conservation” on pg. 52 and 54 (in response to public comment)

Chapter 5

- Revised Table 5-1 (in response to TMWA Board comment)
 - Changed “Additional Groundwater Capacity” to two headings to add clarity:
 - Treatment for Existing Groundwater Systems
 - Additional Groundwater Capacity

Chapter 6

- Added source water protection viewer webpage link
- Updated title of source water protection plan based on the finalization of that effort
- Added information regarding potential to add solar power to Fish Springs Ranch (in response to public comment)

Chapter 7

- Changed Ch. 7 from “Policy Recommendations and Management Actions” to “Recommended Actions” because only recommended actions are included (in response to TMWA Board comment)



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: John Enloe, Director of Natural Resources & Planning
Janet Phillips, Chairman, Truckee River Fund Advisory Committee
DATE: September 8, 2020
SUBJECT: **Discussion and possible action on Resolution No. 288: A Resolution to approve funding for one or more of the projects recommended by the Truckee River Fund Advisory Committee and an authorization for the Community Foundation to fund such projects from Fund proceeds (Resolution may reflect action taken in one or more votes on recommended projects)**

Recommendation

The Truckee River Fund (TRF) Advisors recommend that the TMWA Board authorize by resolution the funding of the following projects from the TRF. This recommendation stems from a Fund Advisors' meeting held on August 21, 2020 where multiple grant proposals from the fall request for proposal (RFP) process were reviewed and discussed. The current amount of funding available is \$739,339. Corresponding to the TRF Grant Priorities (see attachment), five projects are recommended for funding totaling \$417,718 out of nine project funding requests for \$680,915. Each of the project details are summarized below and all RFPs are also attached.

Project #237: Developing Forest Resilience to Fire – Independence Lake, submitted by The Nature Conservancy, was not approved at this time due to the timing of the project which is scheduled for spring 2021. The Advisory Committee recommended that The Nature Conservancy resubmit their RFP in the spring 2021 for reconsideration.

PROJECTS RECOMMENDED FOR FUNDING

Project #236: Watershed Education Initiative for the Urban Truckee River Corridor

Organization: Sierra Nevada Journeys (SNJ)

Amount Requested: \$32,041

Amount Recommended: \$32,041

Organizational Match: \$7,959 (Cash)

Project Description:

Deliver high-quality, experiential watershed education programs based on water quality issues and invasive species along the urban Truckee River corridor to empower youth to take action for the protection and enhancement of the water quality of the Truckee River. To meet schools' needs in case of closures, we have a distance learning program in place called Sierra Nevada Journeys Virtual Classrooms that will still significantly engage students, teachers and parents with watershed education.

TMWA Benefit:

WEI is an education program that addresses water, water quality and watershed protection for K-8th grade students, directly aligning with grant priority VI: *Stewardship and Environmental Awareness*. Students gain first-hand experience with the Truckee River, explore human impacts on their water source, and obtain skills and knowledge to help protect the watershed. The overall long-term program impacts include:

- Students understand important science concepts related to the Truckee River watershed and can articulate how their actions affect the Truckee River watershed and local ecosystems.
- Students understand important science concepts related to the Truckee River watershed and can articulate how their actions affect the Truckee River watershed and local ecosystems.
- Teachers use extension lessons and implement more hands-on exploration of the watershed. Parents and community members engage in watershed education directly through WEI volunteer
- Health of the Truckee River watershed and local ecosystems improves as students and their families adopt environmental stewardship practices that help reduce water pollution and human impacts.

Project #237: Developing Forest Resilience to Fire – Independence Lake

Organization: The Nature Conservancy (TNC)

Amount Requested: \$40,755

Amount Recommended: \$0

Organizational Match: \$21,568 (Cash)

Project Description:

The Nature Conservancy (TNC) proposes to contract a licensed timber operator to mechanically thin and remove dead, diseased, and otherwise stressed pines and remove them along both sides of the outflow channel from Independence Lake. This will prevent the channel from becoming clogged with fallen trees under wildfire conditions. The trees will be chipped and hopefully delivered to the Loyalton Co-Generation Plant for use as biomass energy. Mechanically thin very dense stands of lodgepole pine.

TMWA Benefit:

IV. The project will improve resiliency of the forest to wildfire and reduce the risk of woody debris blockage to TMWA’s outflow channel below the Independence Lake dam, reducing the risk of fire and sediment deposition along the north and south shores of the lake.

Project #238: Doggie Ambassador Project

Organization: Truckee Meadows Parks Foundation

Amount Requested: \$32,028 **Amount Recommended:** \$0

Organizational Match: \$14,365 (Cash) \$13,500 (In-Kind)

Project Description:

The United States Environmental Protection Agency rules pet waste as a nonpoint source environmental pollutant. This places pet waste in the same category as herbicides, pesticides, oil, grease, toxic chemicals, and acid drainage from abandoned mines (US EPA, 2017). Pet waste pollution leads to excess algal growth, increased ammonia levels, harmful biotoxins, noxious aquatic plant growth, nuisance native species growth, excess nitrogen and phosphorus levels, and dangerous pathogens, among other problems (US EPA, 2012). In addition to these detrimental effects to our natural environment, dog waste contributes to a poor experience for community members in their local parks.

Truckee Meadows Parks Foundation believes the best ways to mitigate these problems are to provide education to the public on the harm of improper pet waste disposal and increase availability of pet waste bags. A pet waste education program implemented by the City of Santa Barbara was effective in reducing fecal input from domestic dogs living adjacent to lower AB Creek (Ervin et. al., 2014).

TMWA Benefit:

- **Priority II (Watershed Improvements):** The Doggie Ambassador Project will reduce the total dissolved solids within the Truckee River Watershed. While data is not tracked internally, this project will reduce fecal matter entering the watershed because of an increase in proper pet waste disposal resources.
- **Priority VI (Stewardship and Environmental Awareness):** The Doggie Ambassador Project empowers community members to take an active role in stewarding their local watershed through the adoption of pet waste bag stations. The project provides these volunteers with the

proper tools and education to encourage responsible pet waste disposal throughout the Truckee Meadows. In addition, the Doggie Ambassador Project provides education to the community at large through multimedia educational marketing campaigns concentrated on creating a sustainable watershed.

- **Priority VII (Meets Multiple Objectives)**
- **Priority VIII (Leverage Stakeholder Assets and Participation):** The Doggie Ambassador Project works with municipal stakeholders, including the City of Reno, City of Sparks, Washoe County, the Biggest Little Dog Park Coalition, and the Truckee Meadows Stormwater Permit Coordinating Committee to encourage collaborative efforts in reducing the pet waste problem in our watershed and promote the missions of all involved groups. The project leverages these collaborations to gain a wider reach of community members and funding opportunities.

Project #239: 2021 Spring Great Community Cleanup, 2021 Fall Truckee River Cleanup, Adopt-A-River & Adult Outreach and Education

Organization: Keep Truckee Meadows Beautiful (KTMB)

Amount Requested: \$74,245

Amount Recommended: \$74,245

Organizational Match: \$144,805 (Cash) \$154,514 (In-Kind)

Project Description:

KTMB supports a clean and invasive weed-free community by educating and informing residents and visitors about the importance of maintaining a healthy river and watershed by removing litter and invasive weeds. Local park staff report that weed removal is often the most challenging aspect of their job. With current staff reductions, the incorporation of weed removal prior to weed seeding in the spring is vital and aligns perfectly with the timing of KTMB’s Great Community Cleanup. The cleanup is designed to address both the direct and immediate presence of weeds, litter and nonpoint pollution runoff, and the underlying causes of these challenges by educating and engaging the community. The cleanups have shown to save tax payers money.

TMWA Benefit:

This project supports the TRF Grant Priorities V, VI, VII and VIII – Support to Rehabilitation of Local Tributary Creeks and Drainage Courses, Stewardship and Environmental Awareness, Meet Multiple Objectives, and Leverage Stakeholder Assets and Participation. KTMB educates and informs residents and visitors about the importance of maintaining a healthy river; how noxious weeds negatively affect native plant communities, habitats and watershed; how litter and pollution are harmful to human health, wildlife, the local environment and economy; and collaborates to create a cleaner community while saving taxpayer dollars.

Project #240: Truckee River Parks and Open Space Weed Management and Revegetation

Organization: Washoe County Regional Parks and Open Space

Amount Requested: \$45,000

Amount Recommended: \$45,000

Organizational Match: \$8,000 (Cash)

\$7,000 (In-kind)

Project Description:

This project would remove noxious and invasive weeds and reestablish native vegetation in Washoe County Park and Open Space areas along the Truckee River corridor. Project implementation would include weed inventory, GIS mapping and reporting, chemical and mechanical treatments, re-vegetation, and monitoring. A combination of Washoe County staff time, contracts, and volunteer efforts would be used to implement the project. An Integrated Vegetation Management (IVM) Plan was developed for Washoe County Parks in June 2020. Treatments would follow the guidance and recommendations in the IVM Plan to establish stable perennial plant communities which will help to improve fish and wildlife habitat, enhance recreational opportunities, improve water quality through soil stabilization, reduce fire hazard, and increase the visual quality of parks along the Truckee River.

TMWA Benefit:

The proposed project advances Truckee River Fund grant priorities II, IV, VII, and VIII. Managing noxious weeds and re-establishing native vegetation along the Truckee River corridor helps to improve water quality by stabilizing soils and reducing erosion potential and sedimentation as identified in Priority II. The proposed project advances Priority IV through re-vegetation of upland areas which will help to improve watershed resiliency and establish stable perennial plant communities within previously disturbed areas. The project meets multiple objectives as identified in Priority VII. Priority VIII is advanced through Washoe County's partnership with multiple stakeholders including the Nevada Land Trust, One Truckee River Partnership, Keep Truckee Meadows Beautiful, Nevada Department of Wildlife, Nevada Department of Agriculture, and Nevada Division of Forestry to identify restoration needs and leverage funding sources for projects in the Truckee River Corridor.

Project #241: Restoration: Coldstream Canyon and Bear Creek

Organization: Truckee River Watershed Council (TRWC)

Amount Requested: \$136,500

Amount Recommended: \$86,500

Organizational Match: \$34,125 (Cash)

Project Description:

The project will Fill critical funding gaps in two restoration projects: the Coldstream Canyon Sediment Reduction Project and the Bear Creek Lower Meadow Restoration Project. Both projects will support

the Truckee River TMDL by reducing excess sedimentation and improving hydrologic connectivity and watershed functionality.

The overall goal is to reduce erosion and excess sedimentation to the main stem Truckee River by:

- 1) Restoring impaired meadow/wetland systems on key tributaries to the Truckee River, and
- 2) Correcting drainage on improperly constructed roadways on the same key tributaries.

TMWA Benefit:

Watershed Improvements: The projects will decrease sedimentation and support attainment of the TMDL for Truckee River. Restoration will enhance watershed function and habitat by reducing erosion, restoring sensitive ecosystems and by decommissioning and restoring dirt roads.

• **Local Stormwater Improvements:** Extensive road networks within Coldstream Canyon have led to an increase in stormwater and associated pollutants entering the Truckee River. The project will increase hydrologic connectivity and on-site infiltration. Both the Coldstream Canyon and the Bear Creek projects will significantly enhance floodplain connectivity that will reduce impacts of excessive erosion to the Truckee River.

• **Meet Multiple Objectives:** The projects meet the objectives listed above. They also benefit meadow, riparian, and in-stream habitat, native fish and wildlife species, and carbon sequestration.

• **Leverage Stakeholder Assets and Participation:** Both projects leverage significant stakeholder participation and cost share from USFS and CDPR. Additional stakeholder input and prioritization is documented in the Coldstream Canyon (TRWC 2007) and the Bear Creek Watershed Assessment as well as in the Truckee River TMDL (LRWQCB, 2008).

Project #242: Truckee Springs

Organization: Truckee Donner Land Trust

Amount Requested: \$75,000

Amount Recommended: \$0

Organizational Match: \$1,620,985 (Cash)

Project Description:

The Truckee Springs Acquisition will result in the permanent protection of much of the Truckee River's south bank and floodplain in downtown Town of Truckee. The property to be acquired is 26 acres and contains nearly a half-mile of riverfront. The acquisition prevents future impacts brought forth through development, including additional impervious surfaces that affect stormwater and snow runoff volume, sedimentation and temperature, and loss of available habitat connections from riparian areas to uplands. The property is zoned for up to 40 single-family units, which is quite dense on a property this size. According to Informing Watershed Planning and Policy in the Truckee River basin through Stakeholder Engagement, Scenario Development, and Impact Evaluation by the staff of The Nature Conservancy and others, simply preventing development and the associated impacts is one of the most effective ways to prevent water quality degradation in the watershed.

TMWA Benefit:

This project is aligned with priorities II, IV, with secondary benefits aligned with priority III. Most of the grant priorities fund the restoration of the Truckee River and its tributaries. While this acquisition is not directly a restoration project, prevention of development in the riparian corridor will preclude the construction of numerous impervious surfaces that will accelerate the velocity and temperature of runoff, leading to erosion and increased water temperatures. Both of these conditions are often the root cause of future restoration. This acquisition will also open the door for restoration projects on the property heretofore not possible under current ownership.

Project #243: Occurrence, Fate and Risk of PFAS in the Truckee River

Organization: Board of Regents, NSHE, obo the Desert Research Institute

Amount Requested: \$65,414

Amount Recommended: \$0

Organizational Match: \$17,444 (Cash) \$4,361 (In-Kind)

Project Description:

This project is a fifteen-month study of per- and polyfluoroalkyl substances (PFAS) at locations along the Truckee River upstream and downstream from the Chalk Bluff drinking water treatment plant. PFAS are contaminants of emerging concern (CECs) for a public water system (PWS) and refers to a class of more than 4,000 synthetic chemicals that have been manufactured and released into the environment for over 50 years. There are severe environmental risks and human-health concerns associated with PFAS because of their long-term persistence in the environment that is attributable to low environmental biodegradability and which contributes to high bioaccumulation in both wildlife and humans. In 2020, a lifetime health advisory of 0.07 µg/L (70 ng/L) was issued for two specific PFAS — perfluorooctanoate (PFOA: CAS ID #335- 67-1) and perfluorooctane sulfonate (PFOS: CAS ID #1763-23-1) — in potable water to protect against long-term exposure and subsequent health effects (USEPA, 2020).

TMWA Benefit:

By monitoring of selected priority PFAS at several locations, we will develop a comprehensive understanding of their occurrence and spatiotemporal variation in the Truckee River. Statistical analysis of loads of PFAS upstream of the Chalk Bluff water treatment plant, will allows us to assess removal rates of PFAS compounds through natural attenuation and inform stakeholders about management and water treatment strategies. Successful completion of this project will provide quantitative information to the stakeholders to help develop PFAS removal strategies.

Project #244: Encampment Clean-up and Unsheltered Individual Data Collection

Organization: Washoe County

Amount Requested: \$179,932

Amount Recommended: \$179,932

Organizational Match: \$77,650 (Cash)

Project Description:

This goal of this project is to improve Truckee River water quality by reducing the amount of pollution in the River as a result of encampments along and near the Truckee River with the eventual goal of drastically reducing the number of people camping along the River and provide those vulnerable populations with resources. Encampments result in the production of human waste, trash, medical waste and sharps (devices with sharp points or edges which are often also biohazards) being disposed in or near the Truckee River, instead of in an appropriate fashion that would keep waste out of the Truckee River. By creating relationships with unsheltered individuals, empowering them to participate in river-clean ups, and engaging them with the goal of moving into housing, the utilization of encampments along the Truckee River will be diminished.

TMWA Benefit:

The project advances the following TRF priorities: watershed improvements and leveraging stakeholder assets and participation. Controlling the flow of human created trash is critical to protect the health of the Truckee River. Trash generated by unsheltered individuals camping along the Truckee has a large impact on the health of the region's water source. The River Stewards Program will work directly with unsheltered individuals to clean up areas along the Truckee River. Additionally, in partnership with established local non-profit and government partners, the project will create a database of unsheltered individuals to better connect them to housing resources, with the eventual goal of drastically reducing the number of people camping along the River, a source of human fecal waste entering the river and reducing water quality.

TRUCKEE RIVER FUND
 Enhancing and protecting our water resources

Grant Priorities

Based upon the aforementioned discussion, TMWA recommends that the Advisors give preference to well-prepared and thought out grant requests for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby treatment and hydroelectric plant intakes:

- I. **Aquatic Invasive Species (AIS):** Projects/Programs that support the prevention or control of aquatic invasive species in the main stream Truckee River, Lake Tahoe, other tributaries and water bodies in the Truckee River system.
- II. **Watershed Improvements:** Projects that reduce erosion or sediment, suspended solids, or TDS discharges to the River. Projects or programs that are located within 303d (impaired waters) sections of the River should be considered, both in California and Nevada. Innovative techniques should be encouraged.
- III. **Local Stormwater Improvements:** Projects that are well designed which mitigate storm water run-off due to urbanization of the local watershed. Priority should be given to those improvement projects in close proximity to TMWA's water supply intakes and canals and which will improve the reliability and protect the quality of the community's municipal water supply.
- IV. **Re-Forestation and Re-Vegetation Projects:** Projects to restore forest and upland areas damaged by fire and historical logging operations, and to improve resiliency in drought situations. Projects/programs in this category should be given a high priority due to urbanization of the watershed and increased susceptibility of the urban and suburban watershed to wildfire.
- V. **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** Practical projects to support water quality improvement in Gray Creek, Bronco Creek, Mogul Creek, Chalk Creek, Steamboat Creek and the North Truckee Drain.
- VI. **Stewardship and Environmental Awareness:** Support to Clean-Up programs and the development and implementation of educational programs relative to water, water quality and watershed protection.
- VII. **Meet Multiple Objectives:** Projects/Programs should identify opportunities to meet multiple water quality and watershed objectives as outlined above with preference given to those achieving multiple benefits.
- VIII. **Leverage Stakeholder Assets and Participation:** Projects/Program selection should include an assessment of various stakeholder interests in all aspects of river water quality, watershed protection, source water protection and species enhancement thereby leveraging available funds and other assets.



Cover Sheet

Date: July 27, 2020

Organization Name:		Sierra Nevada Journeys		
Type:		501(c)(3) EIN#01-0881587	Governmental entity? No	
Address:		190 E. Liberty Street, Reno NV 89501		
Project Name:		Watershed Education Initiative for the Urban Truckee River Corridor		
Amount requested: \$32,041		Website: www.sierranevadajourneys.org		
This funding will be used to (complete this sentence with a max of 2 sentences):		Deliver high-quality, experiential watershed education programs based on water quality issues and invasive species along the urban Truckee River corridor to empower youth to take action for the protection and enhancement of the water quality of the Truckee River. To meet schools' needs in case of closures, we have a distance learning program in place called Sierra Nevada Journeys Virtual Classrooms that will still significantly engage students, teachers and parents with watershed education.		
Key People:	Director:	Eaton Dunkelberger, CEO		
	Board Chair:	Shane Tucker		
	Project Contact:	Name:	Sean Hill	
		Position:	Education Director	
		Phone:	775-355-1688	
		Fax:	775-329-1689	
Email:	sean@sierranevadajourneys.org			
Organization Mission:	To deliver innovative outdoor, science-based education programs for youth to develop critical thinking skills and to inspire natural resource stewardship.			
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary)	If yes,			
	Date awarded:	April 2020		
	Project title:	Watershed Education Initiative		
	Amount of Award:	\$30,912		
	Date awarded:	October 2019		
	Project title:	Watershed Education Initiative		
	Amount of Award:	\$36,207		
	Date awarded:	April 2019		
	Project title:	Watershed Education Initiative		
Amount of Award:	\$36,207			

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
- E. Other projects that meet the evaluation criteria.

¹ For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Western Nevada for additional criteria. lrenda@nevadafund.org; 775-333-5499.



1. Specific project goals and measurable outcomes and how you will measure and report them.

During the past 10 years, Sierra Nevada Journeys’ (SNJ) Watershed Education Initiative (WEI) has impacted over 8,575 students and 521 educators. This has been made possible thanks to the generous support of the Truckee River Fund. WEI educates students about the local watershed, including human impacts on the watershed, water quality, and watershed protection. While in-class and field-based lessons reach students and educators, WEI’s additional outreach components serve to engage families and community volunteers. With the specific focus of impacting the urban Truckee River corridor this spring 2020 through WEI, we will successfully meet the following objectives:

Outputs	Outcomes
<p>Deliver WEI to 1,326 K-8th grade students specifically from along the urban Truckee River corridor</p> <p>All students receive first-hand experience with the local watershed through a field-study on the Truckee River or one of its tributaries, or, in the case of a distance learning model, a virtual field trip or case study of the Truckee River.</p> <p>Provide 49 teachers with WEI extension lessons.</p>	<p>80% of students can correctly identify, label, and diagram the Truckee River Watershed.</p> <p>70% of students will use knowledge of storm drains to describe how individuals and communities can protect watersheds.</p> <p>70% of students will define what happens to rainwater and associated non-point source pollutants after they enter a storm drain.</p> <p>95% of students participating in “Hands in the River” curriculum complete a Truckee River issue case study on water quality in the watershed.</p> <p>95% of teachers will report that the program is helping to build critical thinking skills among their students.</p>

Methods to measure outcomes: Pre- and post-assessments are completed by each participating student. Each teacher completes a survey. Both are scored and compiled by SNJ staff. A third-party consultant from the NV Department of Education’s assessment office designed the assessment tool.

Methods to measure outputs: SNJ’s Education Department manages an internal database that tracks details on participating students, schools, parents and volunteers.

If Sierra Nevada Journeys WEI transitions to a virtual platform due the COVID-19 crisis, we still anticipate reaching 49 teachers, 1,326 students with Virtual Classrooms and over 2000 unique page views with Sierra Nevada Journeys at Home, which provides hands-on (including watershed) activities for use at home. Sierra Nevada Journeys is committed to being part of the solution in filling any unexpected education gaps created by the pandemic.

2. **Project location** During Fall 2020, the three main field sites for this program will be located through and downstream of the urban corridor of the Truckee River; Mayberry Park, Oxbow Nature Study Area and the McCarran Ranch Preserve. These locations are convenient and close to home for local students, increasing their sense of ownership, awareness and comfort with accessible



nature areas, and highlight regions along the Truckee that are impacted by urban growth and development.

3. **Project description. Why WEI?** A recent study from The Nature Conservancy reveals that students who have had a personal experience in nature are:

- Significantly more likely to express concern about water pollution, air pollution, climate change, and the condition of the environment;
- More than twice as likely to “strongly agree” that protecting the environment is “cool”;
- More than twice as likely to consider themselves a “strong environmentalist,”; and
- Substantially more likely to express interest in studying the environment in college, working in a job related to nature, or joining an environmental club at their school. ²

Through WEI, SNJ provides local youth with opportunities to have an interactive experience outdoors, increasing their likelihood to cherish nature, engage with it and become stewards of their natural resources.

With this funding, SNJ will serve 1,326 students in 49 classrooms within 10 miles of the urban corridor of the Truckee River. Conducted over a four-week period, WEI includes three in-class lessons, one field-study experience, pre- and post-assessments, classroom extension lessons for teachers, and family and community engagement. Curriculum developed and delivered by SNJ’s team of credentialed teachers aligns to state and national standards and the North American Association for Environmental Education’s Guidelines for Excellence.

SNJ’s Watershed Education Initiative Overview

The **school-based** component includes three in-class lessons (4.5) hours of engaging instruction. Students participate in hands-on lessons that incorporate the Truckee River watershed, the water cycle, point and non-point source pollution, invasive species, sources and impacts of erosion, water conservation and stewardship.

The **field-based** component includes approximately one day of outdoor science education as students hike along the Truckee River. Students seek clues related to the health of the watershed and determine water quality by collecting and identifying macro-invertebrates or conducting chemical tests such as pH, dissolved oxygen, or turbidity. Students use evidence to make a conclusion about the health of the Truckee River Watershed.

SNJ provides five ready-to-use classroom **extension lessons for teachers** that help students prepare for and review learning objectives as well as extend and reinforce each SNJ-directed lesson. By explicitly modeling teaching methods and reinforcing with SNJ’s classroom lessons we strive to support educators and multiply the effects of our student programming.

To encourage **family engagement**, SNJ provides teachers with a template to email parents with a summary and pictures of their child’s experience after each unit along with information for family-based discussion of the curriculum. This increases parent involvement, which allows individuals within families to reinforce the attitudes, motivations, skills, and behaviors learned and to foster parent–student communication about watershed-related topics.

The **volunteer component** of the program builds our capacity to involve the local community and broadens accessibility to our programming for low-income schools by helping to keep costs low. Volunteers, who are primarily comprised of retired educators, naturalists, and parent chaperones, also consistently report learning tremendously in their participation with WEI.

4. **Grant priorities.** WEI is an education program that addresses water, water quality and watershed protection for K-8th grade students, directly aligning with grant priority VI:

² The Nature Conservancy, Connecting America’s Youth to Nature, 2012 Retrieved from: <http://www.nature.org/newsfeatures/kids-in-nature/youth-and-nature-poll-results.pdf>



Stewardship and Environmental Awareness. Students gain first-hand experience determining water quality, explore human impacts on their water source, and obtain skills, knowledge and a field experience to connect them to their local river. The overall long-term program impacts include:

- Students understand important science concepts related to the Truckee River watershed and can articulate how their actions affect the Truckee River watershed and local ecosystems.
- Teachers use extension lessons and implement more hands-on exploration of the watershed. Parents and community members engage in watershed education directly through WEI volunteer
- Health of the Truckee River watershed and local ecosystems improves as students and their families adopt environmental stewardship practices that help reduce water pollution and human impacts.

5. **Permitting.** - N/A

6. **Future land use.** – N/A

7. **If future phases of the project will be needed, identify anticipated sources of funding.** - N/A

8. **Principals involved:**

Credentialed science educators on the SNJ staff will be directly responsible for coordination and delivery of watershed education programs. Sean Hill, SNJ’s Vice President of Education, will oversee the implementation of WEI. Sean is a former science teacher and holds a Bachelor of Science degree from Montana State University and a Master of Science degree in Human Dimensions of Natural Resources from Colorado State University. His passion for outdoor science education was inspired by his service as a Graduate Fellow for the Walking Mountains Science School in Avon, Colorado, and from his time spent as a science teacher in the inner-city during his service with Teach For America.

9. Number of **staff positions involved** in project: Fulltime **4** Part-time **1**

10. Number of **volunteers involved:** If the project runs in-person, over **100** volunteers (including field educators and parent volunteers) will donate **time** during WEI’s field-study portion of the program, increasing parents and community member access to watershed education.

11. **Time Line of Project.**

Deliverables	2020					
	July	Aug	Sep	Oct	Nov	Dec
Recruitment/Scheduling: SNJ outreach efforts are continuous. Outreach is now underway for the spring semester. SNJ targets schools that participated in watershed programming in the past and new schools that have not received WEI.	→					
Program Delivery: SNJ instructors will deliver engaging watershed education lessons to 1,326 students through school-based and field-based programs.	→					
Evaluation: SNJ staff will compile student assessment data throughout the grant period. These results will inform any changes to the curriculum to ensure effective programming in the future.	→					
Final Report: Submit the final report to the Community Foundation of Western Nevada. This report will include a summary of the work completed, student assessment data, and a budget update.						→



12. Success.

Outputs	Tracking
<p>Deliver watershed education to 1,326 K-8th grade students from throughout northern Nevada. All students receive first-hand experience with the local watershed through a field-study on the Truckee River or one of its tributaries, or, in the case of a distance learning model, a virtual field trip or case study of the Truckee River.</p> <p>Provide 49 teachers with WEI extension lessons.</p>	<p>Internal SNJ database – Updated regularly throughout the year</p>
Outcomes	Tracking
<p>80% of students can correctly identify, label, and diagram the Truckee River Watershed. 70% of students will use knowledge of storm drains to describe how individuals and communities can protect watersheds. 70% of students will define what happens to rainwater and associated non-point source pollutants after they enter a storm drain. 95% of students participating in “Hands in the River” curriculum complete a Truckee River issue case study on water quality in the watershed. 95% of teachers will report that the program is helping to build critical thinking skills among their students.</p>	<p>Pre- and post-assessments – reviewed after the end of each program and presented in report at end of grant period</p> <p>Teacher surveys</p>

13. Grant Match

Match amount to be provided:	\$7,959 (25% of requested funds)	
Match details:	Match is:	
	Cash	\$7,959
	In-kind	Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.
For the cash portion of your match, is the funding already being held by the applicant for this project? Yes __ No <u>X</u>		
Description of matching funds/in-kind donations:	\$7,959 from Nevada State Parks Recreational Trails grant (full amount of gift is \$20,000)	



**14. Project Budget
Watershed Education Initiative (WEI) Budget**

Program Budget for Classrooms Unleashed						
Item	Description	School Year Expense 2020-2021	Expense Per Student	WEI Fall 2020 Expenses 1326 students	Match	TRF Request
Education Personnel	Education Instructors, Program Directors and Coordinators	\$ 290,870	\$ 24	\$ 32,149	\$ 1,500	\$ 30,649
Direct Program Expenses	Direct program expenses, including: program and field day supplies, printing and paper, uniforms, etc.	\$ 12,613	\$ 1	\$ 1,393		\$ 1,393
Occupancy Expense	Rent and utilities	\$ 31,051	\$ 3	\$ 3,435	\$ 3,435	
Administration Expense	Marketing, office supplies, postage, outside printing services, internet and telephone	\$ 27,315	\$ 2	\$ 3,024	\$ 3,024	
	Total Expenses	\$ 361,849	\$ 30	\$ 40,000	\$ 7,959	\$ 32,041



Truckee River Fund 2020 Request for Proposals

Cover Sheet

Date: July 28, 2020

Organization Name:	The Nature Conservancy			
Type:	501(c)(3) EIN# 53-0242652	Governmental entity? N		
Address:	One East First Street, Suite 1007, Reno, NV 89501			
Project Name:	Developing Forest Resilience to Fire – Independence Lake			
Amount requested: \$40,755	Website: www.nature.org/nevada			
This funding will be used to (complete this sentence with a max of 2 sentences):	Mechanically thin very dense stands of lodgepole pine along both sides of the outflow channel from Independence Lake. This will prevent the channel from becoming clogged with fallen trees under wildfire conditions.			
Key People:	Director:	Mace Hack, Interim State Director		
	Board Chair:	Joel Laub		
	Project Contact:	Name:	Chris Fichtel	
		Position:	Independence Lake Project Director	
		Phone:	775-313-8646	
		Fax:	N/A	
Email:		cfichtel@tnc.org		
Organization Mission:	The mission of The Nature Conservancy is to conserve the lands and waters on which all life depends.			
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary)	Date awarded:	September 5, 2014		
	Project title:	Truckee River Watershed Restoration – Forest Thinning at Independence Lake Preserve – 2014		
	Amount of Award:	\$50,000		
	Date awarded:	March 21, 2013		
	Project title:	Truckee River Watershed Restoration – Forest Thinning at Independence Lake		
	Amount of Award:	\$41,300		
	Date awarded:	September 19, 2012		
	Project title:	Independence Lake Woody Fuels Reduction for Fire Resilience – Year 3 Supplemental Funding		
	Amount of Award:	\$30,000		
	Date awarded:	October 20, 2011		
Project title:	Preventing Aquatic Invasive Species at Independence Lake			
Amount of Award:	\$28,290			



Date awarded:	October 25, 2010
Project title:	Independence Lake Woody Fuels Reduction for Fire Resilience – Year 3
Amount of Award:	\$60,000
Date awarded:	July 27, 2010
Project title:	Independence Lake Woody Fuels Reduction for Fire Resilience
Amount of Award:	\$50,000
Date awarded:	December 29, 2008
Project title:	Independence Lake – Forest and Wildfire Management
Amount of Award:	\$237,110

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- X A. Projects that improve bank or channel stabilization and decrease erosion.
- X E. Other projects that meet the evaluation criteria.

NARRATIVE REQUIREMENTS

1. Specific project goals and measurable outcomes and how you will measure and report them.

- Reduce the likelihood of wildfire induced debris blockage of the lake’s outflow channel by reducing the density of standing trees at the edge of the channel, especially those trees that are diseased, dead or drought stressed.
- Improve resiliency of the forest adjacent to Independence Lake to wildfire and sediment transport by mechanically thinning to reduce fuel loads in these forests.

2. Project location. Independence Lake Preserve in Sierra County, CA at the headwaters of Independence Creek, a tributary to the Little Truckee River.

3. Project description.

Along both sides of the outflow channel of Independence Lake is an area of approximately 11 acres encompassing very dense stands of lodgepole pine. These trees are growing on spoils from the construction of the channel in the late 1930s. The density of lodgepole pines is concerning because if wildfire burns in these stands, the trees are likely to topple into the channels and create a severe debris blockage. Since 2009, we have mechanically thinned a total of 532 acres.

The Nature Conservancy (TNC) proposes to contract a licensed timber operator to mechanically thin and remove dead, diseased, and otherwise stressed pines and remove them. The trees will be chipped and hopefully delivered to the Loyalton Co-Generation Plant for use as biomass energy.

We will also contract with a Licensed Timber Operator to mechanically thin 225 acres of dense mixed conifer forest along Independence Lake in 2021 at TNC’s Independence Lake Preserve. TNC will contract with a Registered Professional Forester that we have used in the past to implement similar thinning projects on the Preserve, some with past funding from TRF Funding for this



lakeshore thinning work will be provided by a grant from the California Department of Forestry and Fire Protection (Cal Fire.)

4. Grant priorities. Explain how the proposed project advances the TRF’s grant priorities (page 2 of the cover sheet); refer to the priorities by number in your narrative.

IV. The project will improve resiliency of the forest to wildfire and reduce the risk of woody debris blockage to TMWA’s outflow channel below the Independence Lake dam, reducing the risk of fire and sediment deposition along the north and south shores of the lake.

5. Permitting.

The thinning along the outflow channel will require a Dying & Diseased Exemption from Cal Fire – no cost. Controlled burning adjacent to the thinning already has an Notice of Exemption from Cal Fire, issued in 2019. The lake thinning will be permitted under a Timber Harvest Plan that we anticipate Cal Fire will approve by January 1, 2021.

6. Future land use. List any known or foreseeable zoning, land use, or development plans that may affect your proposed project. None

7. If future phases of the project will be needed, identify anticipated sources of funding.

Cal Fire will provide the funding.

8. Principals involved in leading or coordinating the project or activity.

Principals for TNC include Chris Fichtel, Independence Lake Project Director and Kevin Whitlock, a Registered Professional Forester (RPF) under contract to TNC. Other TNC support staff involved in the project include: Grants and Contract Specialist and the Senior Attorney.

9. Number of staff positions involved in project: One part-time staff person

10. Number of volunteers involved in project and an estimated number of volunteer hours. 0

11. Timeline of Project. The proposed thinning operations will take place in the summer/fall of 2021.

12. Success. Tell the committee how we will know you succeeded in what you proposed to do.

Successfully thinning of up to 11 acres along the TMWA outlet and up to 225 acres along Independence Lake.

13. Collaboration. List partnerships or collaborations with other entities in relation to your proposal, if any.

TMWA controls the dam and water levels on Independence Lake as it is part of the drinking water supply for Reno. Cal Fire is the partner that will oversee the thinning.



14. Grant match.

Match amount to be provided: \$21,568			
Match details:	<table border="1"> <tr> <td>Cash</td> <td>\$21,568</td> </tr> </table>	Cash	\$21,568
	Cash	\$21,568	
For the cash portion of your match, is the funding already being held by the applicant for this project? Yes __ No <input checked="" type="checkbox"/> Funding is held by the agency which will pay out as invoiced.			
Description of matching funds/in-kind donations:	Matching funds are from a grant approved by the California Department of Forestry and Fire Protection (Cal Fire). That grant ends in January 2022.		



BUDGET

Budget Item Description	TRF \$	Other Funding Name (in hand)	Match \$	Total
Contracting-thinning	\$33,000		-	\$33,000
Contracting - thinning		California Department of Forestry and Fire Protection (Cal Fire)	\$21,568	\$21,568
Overhead (23.5%)	\$7,755			\$7,755
TOTAL	\$40,755		\$21,568	\$62,323



Cover Sheet

Date: July 29, 2020

Organization Name:		Truckee Meadows Parks Foundation																			
Type:		501(c)(3) EIN# 45-4837735	Governmental entity? Y/(N)																		
Address:		50 Cowan Drive, Reno, NV 89509																			
Project Name:		Doggie Ambassador Project																			
Amount requested: \$32,028		Website: www.tmparksfoundation.org																			
This funding will be used to (complete this sentence with a max of 2 sentences):		expand regional efforts to reduce pet waste in the Truckee River watershed, parks, trails, and open spaces by increasing dog waste bags station locations and watershed education efforts.																			
Key People:	Director:	Heidi Anderson																			
	Board Chair:	Sarah Chvilicek																			
	Project Contact:	Name:	Miranda Sanford																		
		Position:	Development Director																		
		Phone:	(775) 410-1702																		
		Fax:	N/A																		
Email:		miranda@tmparksfoundation.org																			
Organization Mission:		Truckee Meadows Parks Foundation protects and enhances our communities' livability through public engagement, education, and the sustainability of our parks, open spaces, and trails.																			
Has your organization received other grants from the Truckee River Fund?		If yes,																			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (use additional page if necessary)		<table border="1"> <tr> <td>Date awarded:</td> <td>October 2, 2019</td> </tr> <tr> <td>Project title:</td> <td>Truckee Meadows Nature Study Area: First Year Operational Phase (TRF 226)</td> </tr> <tr> <td>Amount of Award:</td> <td>\$101,526</td> </tr> <tr> <td>Date awarded:</td> <td>March 26, 2019</td> </tr> <tr> <td>Project title:</td> <td>Truckee Meadows Nature Study Area: First Year Operational Phase (TRF 215)</td> </tr> <tr> <td>Amount of Award:</td> <td>\$61,400</td> </tr> <tr> <td>Date awarded:</td> <td>October 4, 2018</td> </tr> <tr> <td>Project title:</td> <td>Truckee Meadows Nature Study Area Project: Planning Phase (TRF 206)</td> </tr> <tr> <td>Amount of Award:</td> <td>\$38,400</td> </tr> </table>		Date awarded:	October 2, 2019	Project title:	Truckee Meadows Nature Study Area: First Year Operational Phase (TRF 226)	Amount of Award:	\$101,526	Date awarded:	March 26, 2019	Project title:	Truckee Meadows Nature Study Area: First Year Operational Phase (TRF 215)	Amount of Award:	\$61,400	Date awarded:	October 4, 2018	Project title:	Truckee Meadows Nature Study Area Project: Planning Phase (TRF 206)	Amount of Award:	\$38,400
Date awarded:	October 2, 2019																				
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Date awarded:	October 4, 2018																				
Project title:	Truckee Meadows Nature Study Area Project: Planning Phase (TRF 206)																				
Amount of Award:	\$38,400																				

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.³
- E. Other projects that meet the evaluation criteria.

NARRATIVE REQUIREMENTS

³ For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Western Nevada for additional criteria. lrenda@nevadafund.org; 775-333-5499.



TRUCKEE MEADOWS PARKS FOUNDATION

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Doggie Ambassador Project

1. Specific project goals and measurable outcomes and how you will measure and report them.

Truckee Meadows Parks Foundation’s Doggie Ambassador Project aims to mitigate harmful environmental and public health impacts of pet waste within the Truckee River watershed. From August 2020 to August 2021, the Parks Foundation will distribute 485,000 dog waste bags to 45 Doggie Ambassador volunteers that will install and refill 97 dog waste bag stations over the course of the grant period. The Parks Foundation will create and distribute educational materials to the public about the harmful effects of pet waste on the watershed and how to properly dispose of pet waste. The Parks Foundation’s Communications Manager and Communications Coordinator VISTA will launch 10 social media campaigns and distribute two educational handouts. A final report will be submitted to the Truckee River Fund detailing the number of bags distributed over the year, the number of stations managed and/or replaced, the number of volunteers recruited and managed, and the number of community members reached through the educational campaigns. All of these data will be collected and analyzed through spreadsheet management software and utilized to further inform the community about pet waste and the Truckee River watershed. All volunteers will be trained on data tracking, the importance of proper pet waste disposal, and the effects of pet waste on the Truckee River watershed. Volunteers will also be taught how to effectively communicate this information to the public. The AmeriCorps VISTA Community Engagement Coordinator, under supervision of the Programs and Events Manager, will analyze data.

2. Project location.

The Doggie Ambassador Project manages 72 dog waste stations within 42 City of Reno, Sparks, and Washoe County parks and trails. Existing and proposed stations are shown on page 8.

3. Project description.

The United States Environmental Protection Agency rules pet waste as a nonpoint source environmental pollutant. This places pet waste in the same category as herbicides, pesticides, oil, grease, toxic chemicals, and acid drainage from abandoned mines (US EPA, 2017). Pet waste pollution leads to excess algal growth, increased ammonia levels, harmful biotoxins, noxious aquatic plant growth, nuisance native species growth, excess nitrogen and phosphorus levels, and dangerous pathogens, among other problems (US EPA, 2012). In addition to these detrimental effects to our natural environment, dog waste contributes to a poor experience for community members in their local parks.

Truckee Meadows Parks Foundation believes the best ways to mitigate these problems are to provide education to the public on the harm of improper pet waste disposal and increase availability of pet waste bags. A pet waste education program implemented by the City of Santa Barbara was effective in reducing fecal input from domestic dogs living adjacent to lower AB Creek (Ervin et. al., 2014). Additionally, the City of San Diego spent \$10,000 on trash cans, signage, and dog waste bag stations at a popular dog beach



TRUCKEE MEADOWS PARKS FOUNDATION

AWARENESS • APPRECIATION • STEWARDSHIP

2000. These efforts led to a measurable decrease in dog waste at the park, estimating the beach was 30%-40% cleaner than before they took action (Watson, 2002).

Washoe County created legislation allowing citations if an individual doesn't pick up their pet waste on personal or county property (WCC 55.130, 2012). Despite this, efforts have been largely ineffective in mitigating the pet waste problem, therefore risking the health of the Truckee River watershed. Local parks department budgets are a fraction of their pre-2008 recession levels preventing municipalities from robustly addressing the issue. Additionally, COVID-19 has dramatically increased the use of parks and trails in the region, further contributing to the pet waste problem.

In the summer of 2016, Truckee Meadows Parks Foundation implemented the Doggie Ambassador Project to combat the impact pet waste has on our community. Currently, the Parks Foundation manages 41 Doggie Ambassador volunteers who obtain dog waste bags from the Parks Foundation and distribute them to 72 stations each month. Initially, the Doggie Ambassador Project serviced City of Reno stations, but in 2019, the project expanded to encompass Sparks and Washoe County parks, trails, and open spaces. As a part of the expansion, the Parks Foundation switched the type of bags and stations to provide continuity between the municipalities. Stations were donated by the manufacturer and bags were donated by the Truckee Meadows Stormwater Permit Coordinating Committee. Even with this expansion there are at least an additional 25 locations that are in need of pet waste stations. Additionally, these newly installed stations have led to increased maintenance costs as they often break leaving many parks unserviceable.

With support from the Truckee River Fund, the Parks Foundation will replace all current stations (from a vendor different than those previously donated), add an additional 25 stations, purchase 485,000 dog waste bags, recruit additional volunteers, and launch watershed social media campaigns to provide educational materials to the community. These areas have been identified by the public, trail user groups, and local municipalities and can be seen on the map on page . Stations within the program will be labeled with specific stickers that provide contact information for community members interested in volunteering. The average station is stocked with approximately 5,000 bags per year and with adding 25 stations, the Parks Foundation anticipates bag distribution to increase 35% from 2020 to 2021.

4. **Grant priorities.**

Priority II (Watershed Improvements): The Doggie Ambassador Project will reduce the total dissolved solids within the Truckee River Watershed. While data is not tracked internally, this project will reduce fecal matter entering the watershed because of an increase in proper pet waste disposal resources.

Priority VI (Stewardship and Environmental Awareness): The Doggie Ambassador Project empowers community members to take an active role in stewarding their local watershed through the adoption of pet waste bag stations. The project provides these volunteers with the proper tools and education to encourage responsible pet waste disposal throughout the Truckee Meadows. In addition, the Doggie Ambassador



TRUCKEE MEADOWS PARKS FOUNDATION

AWARENESS • APPRECIATION • STEWARDSHIP

Project provides education to the community at large through multimedia educational marketing campaigns concentrated on creating a sustainable watershed.

Priority VII (Meets Multiple Objectives)

Priority VIII (Leverage Stakeholder Assets and Participation): The Doggie Ambassador Project works with municipal stakeholders, including the City of Reno, City of Sparks, Washoe County, the Biggest Little Dog Park Coalition, and the Truckee Meadows Stormwater Permit Coordinating Committee to encourage collaborative efforts in reducing the pet waste problem in our watershed and promote the missions of all involved groups. The project leverages these collaborations to gain a wider reach of community members and funding opportunities.

5. **Permitting.**

No permitting is required to support this project. The Doggie Ambassador Project works in cooperation with the City of Reno, City of Sparks, and Washoe County, so any dog waste bag stations added or replaced within the parks will be coordinated directly through the municipalities.

6. **Future land use.**

No foreseeable future land use changes.

7. **Future phases.**

Truckee Meadows Parks Foundation receives funding from an AmeriCorps grant that allows for the placement of the AmeriCorps VISTA Community Engagement Coordinator. This member (with the supervision of Parks Foundation staff) will continue to implement and expand this project in the years to come. The Parks Foundation hopes to continue strengthening the watershed community education component of the Doggie Ambassador Project and continue expanding stations locations. Additionally, the Parks Foundation will seek alternative funding sources, including the Truckee Meadows Storm Water Permit Coordinating Committee and local pet-related businesses to ensure project sustainability.

8. **Principals involved.**

Truckee Meadows Parks Foundation Programs and Events Coordinator, Chantel Dominguez, an AmeriCorps VISTA Community Engagement Coordinator, the Communications Manager, Karly Bristol, and AmeriCorps VISTA Communications Coordinator will be the principals involved in the coordination of the project.

9. **Staff positions involved.**

Full-Time: 0

Part Time (4): Programs & Events Manager (15%), AmeriCorps VISTA Community Engagement Coordinator (50%), Communications Manager (15%), and Communications Coordinator VISTA (15%).

10. **Volunteers involved.**

Currently, Truckee Meadows Parks Foundation manages 41 volunteers through the Doggie Ambassador



TRUCKEE MEADOWS PARKS FOUNDATION

AWARENESS • APPRECIATION • STEWARDSHIP

Project. In 2019, these volunteers contributed 600.55 hours towards the project. From August 2020 to August 2021, the Parks Foundation anticipated managing 45 Doggie Ambassador volunteers who will each contribute an average of 15 hours in a year for a total of 675 hours.

11. Timeline.

August 2020: The Parks Foundation will purchase new stations, bags, and identification stickers. The Parks Foundation will begin planning and recruiting for a volunteer event to install new stations. The Parks Foundation will recruit more volunteers to manage and maintain the new stations.

September 2020: The volunteer station install day will occur. Volunteers will begin distributing dog waste bags to new stations.

September - August 2021 (Monthly): Doggie Ambassador volunteers will obtain and distribute bags. The Parks Foundation will collect and compile monthly volunteer hours and bags distributed. The Parks Foundation will plan and execute a social media campaign. The Parks Foundation will create and distribute watershed and pet waste management marketing materials to local businesses and municipalities.

August 2021: The Parks Foundation will submit a final report detailing the volunteers trained, recruited, and managed; dog waste bags distributed; dog waste stations installed; and other key data.

12. Success.

The Parks Foundation will deem the project successful if at least 350,000 dog waste bags are distributed, 45 volunteers contribute 675 hours towards the project, all 97 stations are installed, and 10 watershed social media campaigns are launched during the grant period. Following the conclusion of the grant cycle, the Parks Foundation will provide a final report in September 2021 detailing the number of bags distributed over the year, the number of stations managed and/or replaced, the number of volunteers recruited and managed, and the number of community members reached through the watershed educational campaigns.

13. Grant match.

Through a secured federal grant, the Parks Foundation employs an AmeriCorps VISTA Community Engagement Coordinator. This member is responsible for building and maintaining the Doggie Ambassador Project. The value of this AmeriCorps member for 50% of their time spent coordinating the project is \$11,050. Community volunteers are an essential component of the Doggie Ambassador Project. Doggie Ambassador volunteers deliver dog waste bags to stations and educate the community about the Truckee River watershed and proper pet waste disposal. They contribute an average of 1.5 hours of service each month and the Parks Foundation anticipates managing 45 of these volunteers from August 2020 to August 2021. Thus, Doggie Ambassador volunteers provide an in-kind value of \$13,500. Additionally, the watershed education portion of the project will be facilitated by the Parks Foundation AmeriCorps VISTA Communications Coordinator. This AmeriCorps VISTA member is also funded through a secured federal grant and will spend 15% of their time coordinating social media campaigns and outreach for the project, providing an in-kind value of \$3,315. The total grant match value is \$27,685 or 47% of the total budget.



TRUCKEE MEADOWS PARKS FOUNDATION

AWARENESS • APPRECIATION • STEWARDSHIP

14. Project Budget

Budget Item Description	Truckee River Fund	Match Funds	Total Funds
Programs & Events Manager	\$6,741.00	\$0.00	\$6,741.00
Communications Manager	\$6,741.00	\$0.00	\$6,741.00
AmeriCorps VISTA Communications Coor.	\$0.00	\$3,315.00	\$3,315.00
AmeriCorps VISTA Community Engagement Coor.	\$0.00	\$11,050.00	\$11,050.00
97 Dog Waste Bag Dispensers	\$7,700.00	\$0.00	\$7,700.00
485,000 Custom Dog Waste Bags	\$10,700.00	\$0.00	\$10,700.00
97 Station Stickers	\$146.00	\$0.00	\$146.00
Doggie Ambassador Volunteers	\$0.00	\$13,500.00	\$13,500.00
TOTAL	\$32,028.00	\$27,865.00	\$59,893.00



Grant Match

Match amount to be provided:	\$ 27,865				
Match details:	<p>Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.</p> <p>Match is:</p> <table border="1"> <tr> <td>Cash</td> <td>\$ 14,365</td> </tr> <tr> <td>In-kind</td> <td>\$ 13,500</td> </tr> </table> <p>Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.</p> <p>For the cash portion of your match, is the funding already being held by the applicant for this project? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	Cash	\$ 14,365	In-kind	\$ 13,500
Cash	\$ 14,365				
In-kind	\$ 13,500				
Description of matching funds/in-kind donations:	<p>Truckee Meadows Parks Foundation's AmeriCorps VISTA members are funded through an AmeriCorps grant. The two VISTA members associated with the Doggie Ambassador Project provide a cash match of \$14,365. Doggie Ambassador volunteers provide an in-kind match of \$13,500, given 45 volunteers contributing 675 hours of time during the grant period. The total match amount is \$27,685, or 47% of the entire project budget.</p>				

ATTACHMENTS

You may be asked to submit the following attachments via email. If you are asked to submit the attachments, clearly label each file with your organization's name. If you do not have the ability to email them, place each of the items listed below on a separate page and submit just one copy.

Nonprofits submit:

- Last audited financial statements if your organization has been audited
- List of Board of Directors
- Copy of agency's IRS 501(c)(3) Tax Determination Letter
- Copy of the agency's most recent IRS Form 990

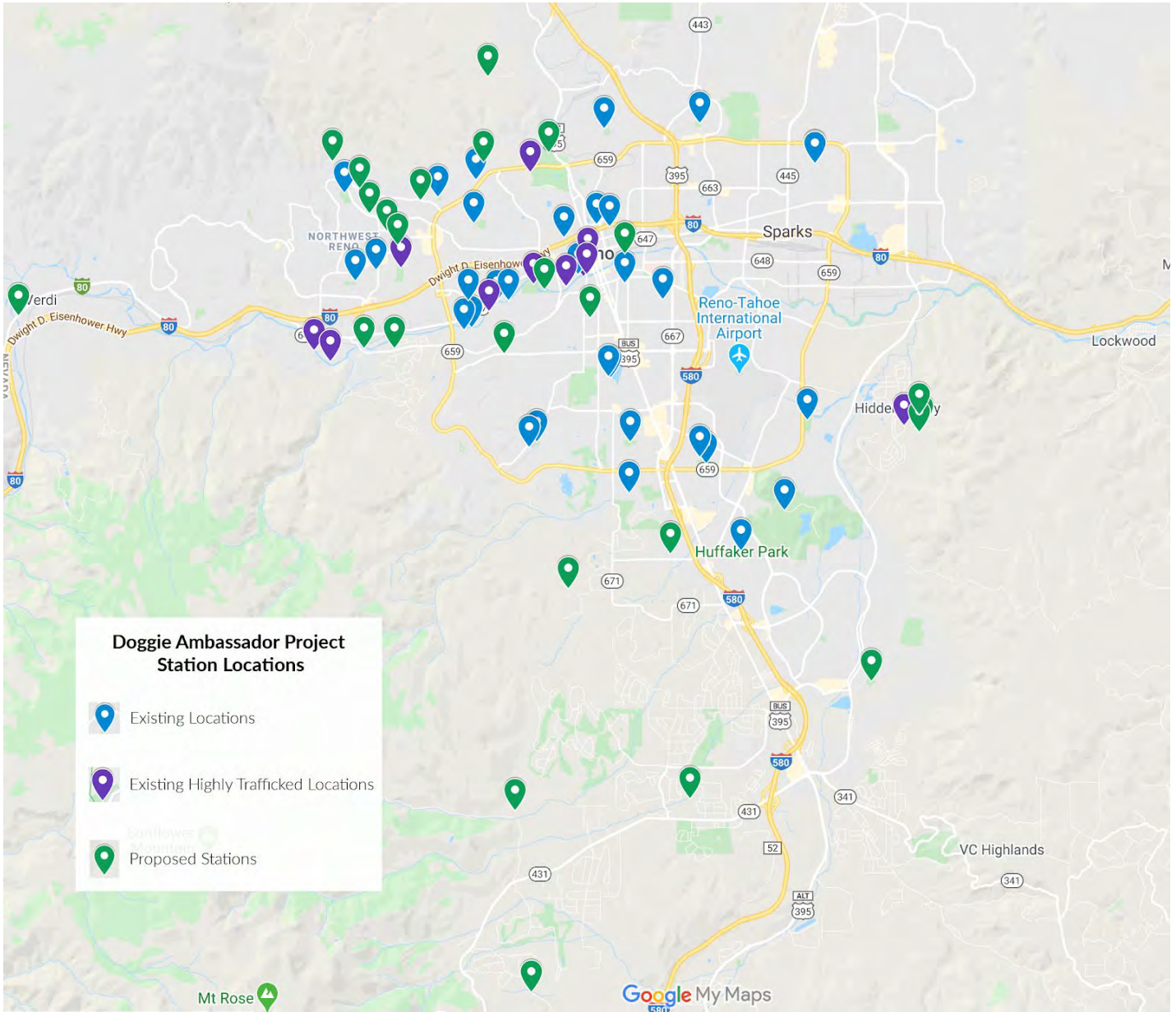
Governmental entities submit:

- Departmental budget in lieu of audited financial statements



TRUCKEE MEADOWS PARKS FOUNDATION

AWARENESS • APPRECIATION • STEWARDSHIP



Existing Locations: Bicentennial Park, Biggest Little Dog Park, Canyon Creek Park, Church Park, Crissie Caughlin Park, Crooked Mile, Evans Park, Hilltop Park, Horsemans Park, Huffaker Park, Huffaker Hills Trailhead, Idlewild Park, Idlewild and Riviera Dr., Ivan Sack Park, Jamaica Park, Link Piazza Dog Park, Manzanita Park, Mary Gojack Park, Mayberry Park, Melody Lane Park, Miguel Ribera Park, Mira Loma Park, Northgate Park, Northwest Park, Rancho San Rafael Off Leash Dog Area, Rainbow Ridge Park, Riverside Drive, Schiappacasse River Pathway, Sky Country Park, Sparks Parks & Recreation Complex, Stewart Park, Summit Ridge Park, Terrace Sports Complex, Tom Cooke Trail, University Ridge Park, Virginia Lake Park, Virginia Lake Dog Park, Wheatland Park, Whitaker Park, Wilkinson Park, Wingfield Park, and 8th Street Park.

Existing Highly Trafficked Locations: Biggest Little Dog Park, Link Piazza Dog Park, Rancho San Rafael Off-Leash Dog Area, Barbara Bennett Park, Idlewild Park, Ivan Sack Park, Rainbow Ridge, Riverside Drive, Wingfield Park, Tom Cooke Trail, and Mayberry Park.

Proposed Station Locations: Crystal Peak Park, Peavine Peak Trailhead, Plumas Street Gym, East and West Keystone Canyon, Broadhead Park, Damonte Ranch Park, Chalk Bluff Trail, Reno Sports/Softball Complex, Dorosktar Park, Crystal Lake Park, Rivermont Park, Whites Creek Trailhead, Thomas Creek Trailhead, Browns Creek Trailhead, Hidden Valley Regional Park, Las Brisas Park, and Ballardini Ranch Trail.



TRUCKEE MEADOWS PARKS FOUNDATION

AWARENESS • APPRECIATION • STEWARDSHIP

Citations

Ervin, J. S., Van De Werfhorst, L. C., Murray, J. L., & Holden, P. A. (2014). Microbial Source Tracking in a Coastal California Watershed Reveals Canines as Controllable Sources of Fecal Contamination. *Environmental Science & Technology*, 48(16), 9043-9052.

US EPA (2012, October). Summaries of Water Pollution Reporting Categories. Retrieved from <https://www.epa.gov/sites/production/files/2015-08/documents/34parentattainsdescriptions.pdf>

US EPA (2017, May 2). What is Nonpoint Source? Retrieved from <https://www.epa.gov/nps/what-nonpoint-source>

Washoe County Code 55. 130 (2012 April) <https://www.washoecounty.us/clerks/cco/code/Chapter055.pdf>

Watson, Traci (2002, June 6). Dog waste poses threat to water. *USA Today*.
<https://usatoday30.usatoday.com/news/science/2002-06-07-dog-usat.htm>



PROPOSAL TO THE TRUCKEE RIVER FUND

Organization Name:	Keep Truckee Meadows Beautiful			
Type:	501(c)(3) EIN# 88-0254957	Governmental entity? No		
Address:	P.O Box 7412 Reno, NV 89510			
Project Name:	2021 Spring Great Community Cleanup, 2021 Fall Truckee River Cleanup, Adopt-A-River & Adult Outreach and Education			
Amount requested: \$74,245	Website: www.ktmb.org			
This funding will be used to	Remove invasive weeds and trash from along the Truckee River corridor and its tributaries during KTMB's Great Community Cleanup and Truckee River Cleanup, monitor the impact of current cleanup efforts. Engage more year-round cleanup support through KTMB's Adopt-A-River program. Provide community education and outreach to decrease environmental threats to the river. This will provide funding to support these efforts for Calendar Year 2021.			
Key People:	Director:	Christi Cakiroglu		
	Board Chair:	Johnny Hargrove		
	Project Contact:	Name:	Lindsey Panton	
		Position:	Program Director	
		Phone:	775-851-5185	
		Fax:	N/A	
Email:		lindsey@ktmb.org		
Organization Mission:	KTMB is dedicated to creating a more sustainable and beautiful region through waste reduction, education and active community involvement.			
Has your organization received other grants from the Truckee River Fund?				
Yes <input checked="" type="checkbox"/> See attached page				

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.

NARRATIVE

1. **Specific project goals and measurable outcomes and how you will measure and report them:** Keep Truckee Meadows Beautiful (KTMB) is a 501(c)3 nonprofit dedicated to beautification, advocating for a clean community and education in the Truckee Meadows for 30 years. KTMB creates a cleaner, more beautiful area to increase the quality of life for all who live in and visit the Truckee Meadows. In 2021, KTMB will continue to build strategic partnerships to protect and conserve the Truckee River, while expanding thriving litter and invasive weed removal projects along the Truckee River and throughout the watershed, as well as education of residents on the steps they can take to prevent threats to the river and watershed.

Great Community Cleanup – Spring 2021

- Engage minimum 700 volunteers in litter clean up and weed removal efforts in overall event;



- Of those 700 volunteers, KTMB will recruit and coordinate a minimum of 125 volunteers to pull invasive weeds at weed sites;
- Remove 15- 20 tons of trash, invasive weeds and green waste from within the Truckee River watershed;
- Host cleanup event, and provide invasive weed, recycling and litter-reduction education to volunteers at cleanup sites, and during volunteer post-cleanup lunch with goal being to educate volunteers on "Zero Waste" and keep the event as close to "Zero Waste" as possible; picnic and zero waste efforts will be conducted in line with what is possible given current public health and safety guidelines in place at the time;
- Involve a minimum of 100 youth through partnerships with youth programs;
- Survey weed participants and analyze results to determine the success and impact of the event;
- Work with partners to identify and target a minimum of six invasive weed "hot spot" locations along Truckee River tributaries for weed removal and native plant restoration whenever possible, such as the planting of Sagebrush seedlings at the Pah Rah Trailhead, during the 2021 Great Community Cleanup;
- Support accurate mapping of invasive weed zones as tracked by Washoe Storey Cooperative Weed Management Authority (WSCWMA);
- Enhance marketing and outreach to continue to attract Adopt-A River groups to improve participation in the 2021 Great Community Cleanup;

Truckee River Cleanup – Fall 2021

- Engage minimum of 600 volunteers in river cleanup, storm drain stenciling and weed removal;
- Remove 15- 20 tons of trash, green waste and invasive weeds from the river corridor and adjacent watershed at cleanup locations from Verdi to Lockwood;
- Involve a minimum of 100 youth through partnerships with youth programs;
- Work with area park staff to identify and wrap trees as needed along the river corridor;
- Host cleanup event, and provide invasive weed, recycling and litter-reduction education to volunteers at cleanup sites, and during volunteer post-cleanup lunch with goal being to educate volunteers on "Zero Waste" and keep the event as close to "Zero Waste" as possible; picnic and zero waste efforts will be conducted in line with what is possible given current public health and safety guidelines in place at the time;
- Maximize resources and community awareness efforts by stenciling a minimum of 100 storm drains in conjunction with the City of Reno (as all drains flow to the river!);
- Survey participants and compile analyzed results to determine the success and impact of the event;
- Host approximately 20 "on the river" volunteers including kayakers and fly-fishers and WET team Emergency Response personnel as needed to remove debris from within the river;
- Spread Christmas tree mulch for soil erosion projects, and remove graffiti as needed.

Adopt-A-River 2021

- In response to the changing conditions of the Truckee River, KTMB works with municipal partners to update KTMB's annual Litter Index Survey to reflect our growing community. In the update, there will be a section completely dedicated to the Truckee River corridor. This also helps KTMB staff to gather data to assess areas that need adoption;
- Adopt-A-River program will also include a Litter Survey before each cleanup. Areas are rated based on a scale of 1-4: 1, meaning "virtually no litter"; and 4, indicating "major illegal dump site". These surveys will show the impact of the Adopt-A-River program;
- Recruit and retain adopters and volunteers to be stewards of river corridor and watershed areas;
- Conduct a minimum of 15 river specific cleanups through Adopt-A-Spot Program to engage 150 volunteers in river-related cleanup efforts.

Adult Education and Community Outreach 2021

- If conditions allow, KTMB plans to host "River Walks" to bring people to the river corridor for an educational opportunity. This activity is in cooperation with the OTR River Restroom Project.
- KTMB will conduct a minimum of 25 Community and Adult education presentations on watershed and invasive weed and, or litter topics to reach a minimum 700 community members through our adult informative talks covering waste, weeds and the watershed to businesses, organizations, community groups, etc.
- Expand stewardship and environmental awareness efforts by conducting teacher trainings so that educators can implement and use Waste, Watershed and Weed Warriors curriculum in the classroom;
- KTMB will promote messaging in line with this educational information through digital outreach mediums as well.



2. **Project location:** The Great Community Cleanup (GCC), Truckee River Cleanup (TRC), and Adopt-A-River cleanups are conducted along the river corridor and throughout the local watershed. Local municipalities and watershed experts will determine storm drain stenciling needs for the 2021 TRC.

3. **Project description:** KTMB supports a clean and invasive weed-free community by educating and informing residents and visitors about the importance of maintaining a healthy river and watershed by removing litter and invasive weeds. Local park staff report that weed removal is often the most challenging aspect of their job. With current staff reductions, the incorporation of weed removal prior to weed seeding in the spring is vital and aligns perfectly with the timing of KTMB's Great Community Cleanup. KTMB's Truckee River Cleanup is designed to address both the direct and immediate presence of weeds, litter and nonpoint pollution runoff, and the underlying causes of these challenges by educating and engaging the community. KTMB uses proven approaches to "Cleanups" that have been shown to save tax payers money. According to Keep America Beautiful "About 85 percent of littering is the result of people's attitudes.... Changing individual behaviors is the key to preventing litter — and environmental cues can make a difference." By engaging volunteers and community partners in this effort, as well as having consistent outreach and messaging to support behavior change, KTMB is helping to better protect the water resources of the Truckee River.

KTMB's Great Community Cleanup activities will include:

- Volunteers removing invasive weeds at several hot spots along the Truckee River and its tributaries, as identified by weed experts at the WSCWMA.
- Producing key messaging about responsible river recreation and keeping the river clean; and
- Presenting to City and County officials, neighborhood and community groups, churches, recreation/outdoor groups, city council and county commission meetings, service organizations, business partners, as well as K-12 children through our Weed, Water, and Waste Warriors programs, and on-site educational opportunities along the river and in Idlewild Park's Sensory Garden.

KTMB's Truckee River Cleanup activities will include:

- In cooperation with the OTR River Restroom Project, KTMB will work in collaboration with OTR to include Brodhead Park as a cleanup site during the 2021 TRC. OTR will help to lead cleanup efforts and coordinate key stakeholders for this site leading up to the event.
- Volunteers removing invasive weeds at several hot spots along the Truckee River and its tributaries, as identified by weed experts at local municipalities of the WSCWMA.
- Producing key messaging about responsible river recreation and keeping the river clean.

Adult and Community Education efforts will include:

- Presenting to City and County officials, neighborhood and community groups, churches, recreation/outdoor groups, city council and county commission meetings, service organizations, business partners, as well as K-12 children through our Weed, Water, and Waste Warriors programs, and on-site educational opportunities along the river and in Idlewild Park's Sensory Garden.
- If conditions allow, KTMB plans to host "River Walks" to bring people to the river corridor for an educational opportunity. This activity is in cooperation with the OTR River Restroom Project.
- Continued outreach to the community through social and traditional multi-media outlets with messaging related to the environmental health of the river.
- Communicate the negative impacts non-point source pollutants have on our local watershed so that we may contribute to enhancing our water quality and conserving our water resources.
- KTMB will convey the importance of preserving our natural ecosystem and native plant species and keeping invasive and noxious weeds from spreading as they can contribute to intense fires in the summer and are a health risk to humans and our wildlife.

Adopt-A-River activities will include:

- Recruiting new volunteers and managing existing volunteers to conduct cleanups along the Truckee River. This activity is in cooperation with the OTR River Restroom Project.
- Working with WSCWMA and local municipalities to monitor river invasive weed and litter hotspots.
- Continue to conduct annual Litter Index Survey to evaluate current river corridor cleanliness.

4. **Grant priorities:** This project supports the TRF Grant Priorities V, VI, VII, and VIII – *Support to Rehabilitation of Local Tributary Creeks and Drainage Courses, Stewardship and Environmental Awareness, Meet Multiple Objectives, and Leverage Stakeholder Assets and Participation*. KTMB educates and informs residents and visitors about the importance of maintaining a healthy river; how noxious weeds negatively affect native plant communities, habitats, and watershed; how



litter and pollution are harmful to human health, wildlife, the local environment and economy; and collaborates to create a cleaner community while saving taxpayer dollars.

KTMB's 2021 Great Community Cleanup, Truckee River Cleanup and Adopt-A-River program will support following objectives of the One Truckee River Management Plan: 2.1.b; 2.3.j; 2.5.b; 3.3.b; 3.4.b; 3.4.c; 3.4.e; 3.4.f.

KTMB's Adult and Community Education efforts will support the following objectives of the One Truckee River Management Plan: 1.3.b; 2.1.j; 3.2.d; 3.2.f; 3.3.b; 3.3.c; 3.3.h.

5. **Permitting:** Few permits are needed and for the most part cooperation has already been secured. Since 2005, the only required permits for KTMB's Truckee River Cleanup include health department permits for the post-event volunteer barbecues. All gatherings for cleanup and volunteer appreciation will be held in conjunction with current WCHD health and safety recommendations.
6. **Future land use. List any known or foreseeable zoning, land use, or development plans that may affect your proposed project:** There are no known or foreseeable zoning, land use or development plans that may affect this project.
7. **If future phases of the project will be needed, identify anticipated sources of funding:** The Truckee River Fund's annual support of KTMB's Great Community Cleanup and Truckee River Cleanup assists in maintaining the health of the Truckee River and its greater watershed. It provides opportunities for KTMB to engage partner agencies, municipalities, groups, foundations and local residents, and to leverage in-kind support and funding from other sources. In addition, KTMB works closely with One Truckee River to provide the leadership necessary to complete Phase 1 of the One Truckee River Management Plan to build the partnerships, fundraising mechanisms, fundable projects and capacity to address not only the symptoms of Truckee River health (weeds, litter and nonpoint pollution runoff) but also the underlying problems (education, environmental awareness, and civic participation and stewardship) community-wide. The TRF funding will enhance our ability to build these capacities. KTMB's development team is dedicated to pursuing new and diverse sources of income to continue to support these programs well into the future.
8. **Principals involved in leading or coordinating the project or activity:** KTMB is the principal coordinating agency for project implementation, management, volunteer recruitment and coordination.
9. **Number of staff positions involved in project:** Five Part-Time Staff
10. **Number of volunteers involved in project and an estimated number of volunteer hours.**

Great Community Cleanup: <u>700-800 volunteers</u>	Estimated hours: <u>2,800-3,200 hours</u>
Truckee River Cleanup: <u>600-700 volunteers</u>	Estimated hours: <u>1,800-2,100 hours</u>
Adopt-A-River: <u>150-250 volunteers</u>	Estimated hours: <u>375-625 hours</u>

11. Time Line

Below is a general timeline KTMB staff follows for each program activity detailed in this proposal. This funding will cover the calendar year 2021.

GCC 2021 Timeline:

Winter: Meet with project partners to identify Great Cleanup locations and begin planning.

Spring: Survey length of River on a four-point scale and create data points. Implement weed pull in May.

Spring/Summer: Compile survey data from weed pull and re-survey. Begin planning for fall Truckee River Cleanup.

TRC 2021 Timeline:

Spring/Summer: Compile survey data from the spring Great Community Cleanup weed pull and re-survey sites for cleanliness. Begin planning for fall Truckee River Cleanup.

Fall/Winter: Hold Fall Truckee River Cleanup and re-survey length of river for cleanliness.

Adopt-A-River Timeline:

Winter: Compile and review information on existing sites and existing volunteer groups.

Spring/Summer: Outreach and volunteer recruitment and management to conduct cleanups along the river corridor.

Community Outreach Timeline:

Spring/Summer: Create an outreach plan to engage more residents on river-related topics through presentations, river tours, and media outreach. Schedule and conduct presentations.



Fall/Winter: Schedule and conduct presentations and river tours. Continue outreach.

12. Success

The success of GCC will be measured in the following ways:

- Minimum 700 community volunteers engaged in trash and invasive weeds removal along the Truckee River and its tributaries during KTMB's Great Community Cleanup in 2021;
- Minimum 100 youth volunteers engaged in watershed stewardship through Truckee River volunteer projects;
- Minimum of 15 tons of green waste, invasive weeds and trash will be removed from Truckee River and its watershed in 2021 GCC;

The success of TRC will be measured in the following ways:

- Minimum of 600 community volunteers engaged in trash and invasive weeds removal along the Truckee River and its tributaries during KTMB's Truckee River Cleanup in 2020;
- Minimum of 100 youth volunteers engaged in watershed stewardship through Truckee River volunteer projects;
- A minimum of 15 tons of green waste, invasive weeds and trash will be removed from Truckee River and its watershed in the 2021 TRC;
- 100 storm drains will be stenciled;
- Improve Adopt-A-River participation in Truckee River Cleanup event.

The success of Adopt-A-River will be measured by:

- Evidence Based Litter Survey conducted along length of the river corridor to evaluate cleanup efforts;
- Perform 15 cleanups along the Truckee River corridor throughout the year;
- Minimum of 150 community volunteers engaged in trash, invasive weeds and green waste removal along the Truckee River corridor throughout the year;
- A minimum of 5 tons of invasive weeds and trash will be removed from the Truckee River corridor.

The success of Adult Education and Community Outreach efforts will be measured by:

- Minimum of 25 Community and Adult education presentations on watershed, invasive weed and, or litter topics;
- Reach a minimum of 700 community members through our adult Watershed, Litter and, or Invasive/Noxious Weeds informative talks to businesses, organizations, community groups, etc.;
- Conduct Teacher Trainings for educators to implement KTMB's Waste, Weed and Watershed Warriors curriculum in the classroom to a minimum of 50 teachers annually.

13. Collaboration

KTMB's major cleanup and education efforts collaborate with local agencies and organizations including: One Truckee River, Washoe County, Washoe County Health District, Washoe County Sherriff's Office, City of Reno, City of Sparks, Truckee Meadows Water Authority, Nevada Division of Environmental Protection, Nevada Division of Forestry, Nevada Department of Agriculture, Nevada Department of Wildlife, US Forest Service, Reno-Sparks Indian Colony, Sun Valley GID, Bureau of Land Management, Washoe Storey Cooperative Weed Management Authority, Truckee River Fly Fishers, Sagebrush Chapter of Trout Unlimited, The Nature Conservancy, Friends of Nevada Wilderness, Northern Nevada HOPES, Nevada Land Trust, REI, Patagonia, SWCA, Down to Earth Composting and RT Donovan.

14. Grant match

Match amount to be provided:		\$299,319
Match details:	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.	
	Cash:	\$144,805 (Combination of secured funds and pending and planned requests)
	In-kind:	\$154,514
For the cash portion of your match, is the funding already being held by the applicant for this project? No <u>X</u>		
Description of matching	<ul style="list-style-type: none"> • Project Partners and in-kind support will provide a minimum of \$48,514 in staff time • KTMB is projecting \$106,000 in volunteer time at a rate of \$20/hour per individual and approximately 1,500 volunteers that will be used as a match. • Approximately \$144,805 in cash support is either secured or being requested from other funding sources. 	

Truckee River Fund Project Budget

2021 Spring Great Community Cleanup, Fall Truckee River Cleanup, Adopt A River Program & Adult and Community Outreach and Education

Category	Justification	TRF Request	Cash & In-kind Match	Total Cost
Great Community Cleanup 2021				
COORDINATION & IMPLEMENTATION				
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$12,000.00	\$13,000.00	\$25,000.00
Keep Truckee Meadows Beautiful	Mileage	\$250.00	\$0.00	\$250.00
Washoe County Parks	Staff Time, Materials & Equipment	\$0.00	\$2,500.00	\$2,500.00
City of Reno Parks	Staff Time & Equipment	\$0.00	\$1,500.00	\$1,500.00
Friends of NV Wilderness	Staff Time, Materials & Equipment	\$0.00	\$1,500.00	\$1,500.00
City of Sparks Parks	Staff Time, Materials & Equipment	\$0.00	\$1,500.00	\$1,500.00
Nevada Department of Wildlife	Staff Time, Materials & Equipment	\$0.00	\$1,000.00	\$1,000.00
Reno Sparks Indian Colony	Staff Time, Materials & Equipment	\$0.00	\$1,000.00	\$1,000.00
The Nature Conservancy	Staff Time	\$0.00	\$500.00	\$500.00
Washoe County Sherrifs office	Labor and supervision	\$0.00	\$4,000.00	\$4,000.00
Sun Valley GID	Staff Time, Materials & Equipment	\$0.00	\$6,500.00	\$6,500.00
Volunteer Hours	800 volunteers x 4 hours x \$20/hour	\$0.00	\$64,000.00	\$64,000.00
Sub-Total		\$12,250.00	\$97,000.00	\$109,250.00
EQUIPMENT & SUPPLIES				
Sani-Fluts	United Site Services (\$55/unit, 2 sinks, \$75/unit, damage waivers and delivery fees \$300)	\$400.00	\$300.00	\$700.00
Dumpsters	Dumpsters vary each cleanup, along with discounts. Project the need for 25 dumpsters priced at \$700.	\$4,500.00	\$13,000.00	\$17,500.00
Garbage Bags	for trash removal	\$300.00	\$300.00	\$600.00
KTMB Truck for Site Surveying/Event Imple	Fuel & Maintenance/Mileage	\$200.00	\$200.00	\$400.00
Trash Pickers	ULINE - 32" (\$14/picker)	\$200.00	\$1,100.00	\$1,300.00
Project Supplies	Tools, tree wrap, paint, masks, gloves, etc	\$750.00	\$1,750.00	\$2,500.00
Project Posters	NV Energy donation 100 posters	\$0.00	\$227.00	\$227.00
First Aid Kits	Some donated, KTMB purchases the rest	\$0.00	\$200.00	\$200.00
Tires Plus	Tire recycling	\$0.00	\$1,000.00	\$1,000.00
Green Waste Composting	\$6/yard - donated by RT Donovan	\$0.00	\$1,080.00	\$1,080.00
Sub-Total		\$6,350.00	\$19,157.00	\$25,507.00
VOLUNTEER COORDINATION				
Event Signage	For way finding at event	\$100.00	\$100.00	\$200.00
Volunteer appreciation item	Approximately 1000	\$2,000.00	\$2,000.00	\$4,000.00
Health Permit for Picnic	Washoe County Health District	\$200.00	\$0.00	\$200.00
Volunteer Project Leader appreciation	appx 120 items	\$2,000.00	\$400.00	\$2,400.00
Volunteer wristbands	Debossed (1/2" - Youth, Green)	\$100.00	\$0.00	\$100.00
Public Education	Radio/TV/PSAs/Post Cards/Bumper Stickers	\$4,500.00	\$4,600.00	\$9,100.00
Zero Waste Supplies	Serving ware, utensils, signage	\$300.00	\$200.00	\$500.00
Volunteer Provisions	Nature's Bakery, KIND, Tahoe Trail Bars, soda	\$0.00	\$500.00	\$500.00
Volunteer Food & BBQ	Donated in part by Save Mart	\$750.00	\$1,500.00	\$2,250.00
Sub-Total		\$9,950.00	\$9,300.00	\$19,250.00
TOTAL GCC 2021 Request		\$28,550.00	\$125,457.00	\$154,007.00
Truckee River Cleanup 2021				
COORDINATION & IMPLEMENTATION				
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$12,000.00	\$10,000.00	\$22,000.00
Keep Truckee Meadows Beautiful	Mileage	\$250.00	\$0.00	\$250.00
Washoe County Parks	Staff Time, Materials & Equipment	\$0.00	\$3,000.00	\$3,000.00
City of Reno Parks	Staff Time & Equipment	\$0.00	\$3,500.00	\$3,500.00
Reno Fire Dept Water Entry Team	Swiftwater rescue technicians and equipment	\$0.00	\$500.00	\$500.00
Truckee Meadows Watershed Committee	Storm drain stenciling supplies, staff time, education and give-aways	\$0.00	\$4,000.00	\$4,000.00
City of Sparks Parks	Staff Time, Materials & Equipment	\$0.00	\$6,500.00	\$6,500.00
Nevada Department of Wildlife	Staff Time, Materials & Equipment	\$0.00	\$500.00	\$500.00
Reno Sparks Indian Colony	Staff Time, Materials & Equipment	\$0.00	\$1,000.00	\$1,000.00
The Nature Conservancy	Staff Time	\$0.00	\$500.00	\$500.00
Otis Bay	Staff Time, Materials & Equipment	\$0.00	\$1,400.00	\$1,400.00
Volunteer Hours	700 volunteers x 4 hours x \$20/hour	\$0.00	\$42,000.00	\$42,000.00
Sub-Total		\$12,250.00	\$72,900.00	\$85,150.00
EQUIPMENT & SUPPLIES				

Sani-Huts	United Site Services (\$55/unit, 2 sinks, \$75/unit, damage waivers and delivery fees \$300)	\$600.00	\$300.00	\$900.00
Dumpsters	Dumpsters vary each cleanup, along with discounts. Project the need for 15 dumpsters priced at \$700.	\$3,000.00	\$7,500.00	\$10,500.00
Garbage Bags	large bags	\$300.00	\$200.00	\$500.00
KTMB Truck for Site Surveying/Event Imple	Fuel & Maintenance/Mileage	\$200.00	\$200.00	\$400.00
Trash Pickers	various styles	\$300.00	\$200.00	\$500.00
Project Supplies	maintenance	\$1,000.00	\$2,000.00	\$3,000.00
Project Posters	NV Energy donation 100 posters	\$0.00	\$227.00	\$227.00
Green Waste Composting	\$6/yard- donated by RT Donovan	\$0.00	\$1,080.00	\$1,080.00
	Sub-Total	\$5,400.00	\$11,707.00	\$17,107.00
VOLUNTEER COORDINATION				
Volunteer Food & BBQ	Supported in part by Savemart	\$750.00	\$1,500.00	\$2,250.00
Event Signage	Signs and banners	\$300.00	\$400.00	\$700.00
Volunteer Appreciation Item	Appx. 1000 items	\$2,000.00	\$2,000.00	\$4,000.00
Health Permit for Picnic	Washoe County Health District	\$200.00	\$0.00	\$200.00
Volunteer Project Leader Thank you	appx 120 items	\$2,000.00	\$2,000.00	\$4,000.00
Volunteer wristbands	Debossed (1/2" - Youth, Green)	\$100.00	\$0.00	\$100.00
Stickers and/or clings	printing and ordering	\$500.00	\$500.00	\$1,000.00
Public Education	multimedia	\$4,500.00	\$1,500.00	\$6,000.00
Zero Waste Supplies	Serving ware, utensils, signage	\$300.00	\$200.00	\$500.00
Volunteer Provisions	bars, snacks, soda	\$0.00	\$500.00	\$500.00
	Sub-Total	\$10,650.00	\$8,600.00	\$19,250.00
Total TRC 2021 Request		\$28,300.00	\$93,207.00	\$121,507.00
<i>Adult Education and Community Outreach</i>				
COORDINATION & IMPLEMENTATION				
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$5,000.00	\$47,000.00	\$52,000.00
	Sub-Total	\$5,000.00	\$47,000.00	\$52,000.00
STEWARDSHIP & ENVIRONMENTAL AWARENESS				
Teacher training	For 50 teachers annually	\$2,545.00	\$4,405.00	\$6,950.00
	Sub-Total	\$2,545.00	\$4,405.00	\$6,950.00
Total Education and Outreach Request		\$7,545.00	\$51,405.00	\$58,950.00
<i>Adopt-A-River</i>				
COORDINATION & IMPLEMENTATION				
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$9,750.00	\$29,250.00	\$39,000.00
Mileage	to and from events	\$100.00	\$0.00	\$100.00
Total Adopt-A-River Request		\$9,850.00	\$29,250.00	\$39,100.00
	TOTAL REQUEST	\$74,245.00	\$299,319.00	\$373,564.00

KTMB Funding received from the Truckee River Fund

Date Awarded	August 2019
Project title:	TRF #224 KTMB Cleanup and Weed Removal 2020
Amount of Award:	\$79,245
Date Awarded	February 2019
Project title:	TRF #217 Truckee River Cleanup
Amount of Award:	\$53,000
Date Awarded	August 2018
Project title:	TRF #204 Great Cleanup
Amount of Award:	\$31,640
Date Awarded	August 2017
Project title:	TRF #193 Great Cleanup/River Cleanup
Amount of Award:	\$69,760
Date Awarded	August, 2016
Project title:	TRF #176 Great Cleanup/River Cleanup
Amount of Award:	\$60,625
Date awarded:	October 22, 2016
Project title:	TRF #165 Truckee River Cleanup/Invasive Weed Pull
Amount of Award:	\$48,325
Date awarded:	February, 2015
Project title:	TRF #156 Phase I Truckee River Corridor Management Plan
Amount of Award:	\$90,000
Date awarded:	September, 2014
Project Title:	TRF #154 Invasive Weed Pull & River Cleanup
Amount of Award:	\$46,000
Date awarded:	October 2013
Project Title:	TRF 126: Truckee River Youth Education/Invasive Weed Pull/Cleanup 2014
Amount of Award	\$57,050
Date awarded:	September 2012
Project title:	Truckee River Cleanup 2013
Amount of Award:	\$46,450
Date awarded:	October 2011
Project title:	TRF #89 Truckee River Cleanup 2012
Amount of Award:	\$44,950
Date awarded:	November 2010
Project title:	#82 Truckee River Cleanup May 2011 Invasive Weed Pull and September 2011 Truckee River Cleanup Day
Amount of Award:	\$42,900
Date awarded:	December 2009
Project title:	Invasive Weed Pull May 2010, River Cleanup Sep 2010
Amount of Award:	\$42,050
Date awarded:	February 2009
Project title:	Truckee River Cleanup Day, September 2009
Amount of Award:	\$26,975
Date awarded:	January 2008
Project title:	Truckee River Cleanup Day, September 2008
Amount of Award:	\$25,604.85
Date awarded:	November 2006
Project title:	Truckee River Cleanup Day, September 2007
Amount of Award:	\$24,730

KTMB Funding received from the Truckee River Fund

Date awarded:	July 2006
Project title:	Truckee River Cleanup Day, September 2006
Amount of Award:	\$13,175
Date awarded:	December 2005
Project title:	Truckee River Cleanup Day, September 2006
Amount of Award:	\$9,402.50

**Keep Truckee Meadows Beautiful: 2021 contributions to the
One Truckee River Management Plan**

KTMB's 2019 Truckee River Cleanup and Adopt-A-River program will support following objectives of the One Truckee River Management Plan:

- 2.1.b: Educate and coordinate with special events personnel to increase special events along less used sections of the river.
- 2.3.j: Work with local Community Wellness providers to implement a "Healthy River, Healthy People" campaign that will encourage the wellbeing of the Truckee River as well as the residents that live, work and play along it.
- 2.5.b: Create public/ private partnerships to promote Truckee River beautification.
- 3.3.h: Continue to engage community Decision makers and partners about issues related to the river.
- 3.4.b: Educate the community on Leave No Trace principles while in and along the river corridor.
- 3.4.c: Increase official presence along the river for stewardship and education of the community.
- 3.4.e: Coordinate and promote stewardship activities for groups such as high-school environmental clubs or community service organizations.
- 3.4.f: Coordinate stewardship activities throughout the river corridor to maximize impact.

KTMB's Adult and Community Education efforts will support the following objectives of the One Truckee River Management Plan:

- 1.3.b: Educate users of the Truckee River on issues impacting water quality.
- 2.1.j: Enhance prevention education and enforcement of anti-littering laws.
- 3.2.d: Create one-page handouts for adults and age-based handouts for children discussing core learning outcomes.
- 3.2.f: Identify and provide access opportunities to "outdoor classrooms" where students can learn along the river.
- 3.3.b: Coordinate a speakers bureau to hold educational river-based events.
- 3.3.e: Continue to engage the community through interactive social media.
- 3.3.h: Continue to engage community decision makers and partners about issues related to the river.

Cover Sheet

Date: 7/31/2020

Organization Name:	Washoe County Regional Parks and Open Space			
Type:	Local Government - County	Governmental entity? Yes		
Address:	1001 E. 9 th St. Reno, NV 89512			
Project Name:	Truckee River Parks and Open Space Weed Management and Revegetation			
Amount requested: \$45,000	Website: https://www.washoecounty.us/parks/			
This funding will be used to (complete this sentence with a max of 2 sentences):	This funding will be used to remove noxious weeds and re-establish native vegetation in Washoe County Parks and Open Space areas along the Truckee River and its tributaries. The project includes weed inventory, GIS mapping, chemical and mechanical treatments, re-vegetation, and monitoring.			
Key People:	Director:	David Solaro, Assistant County Manager/Director of Community Services Department		
	BoardChair:			
	Project Contact:	Name:	Joanne Lowden	
		Position:	Natural Resource Planner	
		Phone:	(775) 328-2039	
		Fax:	(775) 328-3699	
Email:		JLOWDEN@WASHOECOUNTY.US		
Organization Mission:	Our mission is to provide exceptional parks, open space and recreational opportunities while preserving our natural, historical and cultural resources.			
Has your organization received other grants from the Truckee River Fund? Yes X No	Date awarded:	3/26/2019		
	Project title:	TRF #220: Washoe County Parks and Open Space Weed Treatment and Revegetation Project along the Truckee River		
	Amount of Award:	\$45,000		
	Date awarded:			
	Project title:			
	Amount of Award:			
	Amount of Award:			

DESCRIPTION OF PROJECT UNDER CONSIDERATION

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.
- E. Other projects that meet the evaluation criteria.

PROJECT NARRATIVE

- 1. Project Goals and Measurable Outcomes and How You Will Measure and Report Them** Project goals include identifying, mapping, and treating noxious weeds in Washoe County Parks and Open Spaces along the Truckee River corridor. Inventories would be conducted to determine the location and size of weed infestations. Pre-treatment maps would be generated showing the number of acres inventoried and the number of acres needing treatment. Success of weed treatments would be evaluated by visually estimating the amount of dead weed vegetation or eliminated weeds in the treatment areas compared to pre-treatment levels (expressed as a percentage). In addition to weed treatments, project goals include re-establishment of native vegetation through seeding and planting of container stock. Success of seeding and planting efforts would be monitored over subsequent years. Results would be measured by the total number of acres inventoried, treated, seeded, and planted. Results would also include the estimated success rate of weed treatments.
- 2. Project Location** The project would be located in several Washoe County Park and Open Space areas along the Truckee River and its tributaries. Priority treatment areas identified for 2021-2022 include Crystal Peak Park (Verdi, NV), Riverbend Open Space (Verdi, NV), Mogul Park (Reno, NV), Canepa Ranch Open Space (Reno, NV), Carcione Open Space (Reno, V), Mayberry Park (Reno, NV), Ambrose Park (Reno, NV), Dorostkar Park (Reno, NV), Betsy Caughlin Donnelly Park (Reno, NV), Bartley Ranch Regional Park (Reno, NV), Anderson Park (Reno, NV), Rancho San Rafael Regional Park (Reno, NV), and Lockwood Park (Sparks, NV).
- 3. Project Description** This project would remove noxious and invasive weeds and re-establish native vegetation in Washoe County Park and Open Space areas along the Truckee River corridor. Project implementation would include weed inventory, GIS mapping and reporting, chemical and mechanical treatments, re-vegetation, and monitoring. A combination of Washoe County staff time, contracts, and volunteer efforts would be used to implement the project. An Integrated Vegetation Management (IVM) Plan was developed for Washoe County Parks in June 2020. Treatments would follow the guidance and recommendations in the IVM Plan to establish stable perennial plant communities which will help to improve fish and wildlife habitat, enhance recreational opportunities, improve water quality through soil stabilization, reduce fire hazard, and increase the visual quality of parks along the Truckee River.

Priority treatment areas include Crystal Peak Park, Riverbend Open Space, Mogul Park, Canepa Ranch Open Space, Carcione Open Space, Mayberry Park, Dorostkar Park, Ambrose Park, Betsy Caughlin Donnelly Park, Bartley Ranch Regional Park, Anderson Park, Rancho San Rafael Regional Park, and Lockwood Park. A majority of these parks were inventoried and treated at least once in 2019-2020 and weed treatments would continue over the next few years based on 2019 inventory results. Riverbend Open Space, Mogul Park, Canepa Ranch Open Space, Carcione Open Space, and Ambrose Park would be inventoried for the first time in 2021. Pre-treatment maps would be generated showing the number of acres inventoried and the number of acres needing treatment. A variety of treatments may be used including mowing, hand pulling, and herbicide application. Target weed species include, but are not limited to, hoary cress (*Cardaria draba*), musk thistle (*Carduus nutas*), spotted knapweed (*Centaurea stoebe*), Russian knapweed (*Acroptilon repens*), yellow starthistle (*Centaurea solstitialis*), Canada thistle (*Cirsium arvense*), poison hemlock (*Conium maculatum*), perennial pepperweed (*Lepidium latifolium*), purple loosestrife (*Lythrum salicaria*), scotch thistle (*Onopordum acanthium*), teasel (*Dispacus spp.*), and medusahead (*Taeniatherum caput-medusae*).

Re-vegetation efforts may include seeding and planting of native and adapted vegetation and be focused on areas with larger weed infestations and areas with previous disturbances. Rancho San Rafael Regional Park and Dorostkar Park are priority restoration areas for 2021-2022. Monitoring of re-vegetation sites would occur for several years post-treatment to determine if the plantings are successful.



- 4. Grant Priorities** The proposed project advances Truckee River Fund grant priorities II, IV, VII, and VIII. Managing noxious weeds and re-establishing native vegetation along the Truckee River corridor helps to improve water quality by stabilizing soils and reducing erosion potential and sedimentation as identified in Priority II. The proposed project advances Priority IV through re-vegetation of upland areas which will help to improve watershed resiliency and establish stable perennial plant communities within previously disturbed areas. The project meets multiple objectives as identified in Priority VII. Priority VIII is advanced through Washoe County's partnership with multiple stakeholders including the Nevada Land Trust, One Truckee River Partnership, Keep Truckee Meadows Beautiful, Nevada Department of Wildlife, Nevada Department of Agriculture, and Nevada Division of Forestry to identify restoration needs and leverage funding sources for projects in the Truckee River Corridor.
- 5. Permitting** Permits are not required for the proposed project.
- 6. Future Land Use** No known or reasonably foreseeable zoning, land use, or development plans would affect the proposed project.
- 7. Future Phases** Monitoring and treating noxious weeds in Washoe County Parks and Open Spaces is an ongoing effort that will continue into future years. Washoe County will continue working with the Washoe Storey Cooperative Weed Management Area group and partners such as the Nevada Land Trust, Keep Truckee Meadows Beautiful, Nevada Department of Wildlife, Nevada Department of Agriculture, and Nevada Division of Forestry to identify and leverage funding sources as they become available.
- 8. Principals Involved** Joanne Lowden, Natural Resource Planner for Washoe County Parks and Open Space, will be the project manager. Joanne is a member of the Washoe Storey Cooperative Weed Management Area group and the One Truckee River Partnership. She is currently a certified government applicator for restricted use pesticides for both terrestrial and aquatic weeds.
- 9. Staff Positions Involved** At least 7 Washoe County staff positions will be involved part-time with the project including the Natural Resource Planner (Project Manager), Park Planner, 4 Park Rangers, and the Volunteer Coordinator.
- 10. Volunteers Involved** Volunteer events will be coordinated internally through the Washoe County Parks Volunteer Coordinator and with other partners such as Keep Truckee Meadows Beautiful and the Nevada Land Trust. Volunteer events will occur throughout each year and include weed removal and seeding/planting with an estimated volunteer contribution of 350 hours.
- 11. Time Line** Weed treatments would occur between April 2021 and June 2022. Re-vegetation including seeding and planting would be targeted for fall of 2021, but planting of container stock may also occur in the spring of 2021 and 2022 as needed. Remaining weed inventories would be completed in 2021. A final report would be submitted once the project is completed no later than July 31, 2022.

12. Success The number of acres inventoried, treated, and re-vegetated would indicate the overall success of the project.

13. Collaboration Washoe County Parks works with many local businesses and groups to provide volunteer opportunities including weed removal and re-vegetation. Washoe County Parks also partners with Keep Truckee Meadows Beautiful and the Nevada Land Trust to host joint volunteer events. Washoe County Parks collaborates with the Nevada Department of Agriculture, Nevada Division of Forestry and others through the Washoe-Storey Cooperative Weed Management Area group to coordinate funding and weed management activities in the local area.

14. Grant Match

Match amount to be provided:	\$15,000					
Match details:	<p>Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.</p> <p>Match is:</p> <table border="1" data-bbox="456 961 1419 1184"> <tr> <td>Cash</td> <td>\$8,000</td> </tr> <tr> <td>In-kind</td> <td>\$7,000</td> </tr> </table> <p>Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.</p> <p>For the cash portion of your match, is the funding already being held by the applicant for this project? Yes <u>X</u> No <u> </u></p>		Cash	\$8,000	In-kind	\$7,000
Cash	\$8,000					
In-kind	\$7,000					
Description of matching funds/in-kind donations:	<p><u>Cash Contributions:</u></p> <p>\$8,000 Washoe County paid staff labor includes parks staff time for project management and planning, weed inventory, GIS mapping and reporting, weed and re-vegetation treatments, and coordinating volunteer events.</p> <p><u>In-Kind:</u></p> <p>\$7,000 Volunteer labor (350 hrs. @ \$20/hr.) for volunteer seeding and planting events, and noxious weed removal.</p>					

15. Project budget

Budget Item Description	TRF \$	Other Funding Name	Match \$	Total
Parks Staff Labor – paid	\$0	Washoe County	\$8,000	\$8,000
Volunteer Labor (350 hrs. - \$20/hr.)	\$0	Washoe County	\$7,000	\$7,000
Material (seed, plants, terra-sorb, equipment)	\$5,000		\$0	\$5,000
Contract – Labor and materials	\$40,000		\$0	\$40,000
TOTAL	\$45,000		\$15,000	\$60,000

Coldstream Canyon and Bear Creek Restoration Projects

Organization Name:	Truckee River Watershed Council (TRWC)			
Type: Non-Profit	501(c)(3) EIN# 91-1818748	Governmental entity? No		
Address:	P.O. Box 8568, Truckee, CA 96162			
Project Name:	Restoration: Coldstream Canyon and Bear Creek			
Amount requested: \$136,500	Website: ww.truckeeriverwc.org			
This funding will be used to (complete this sentence with a max of 2 sentences):	Fill critical funding gaps in two restoration projects: the Coldstream Canyon Sediment Reduction Project and the Bear Creek Lower Meadow Restoration Project. Both projects will support the Truckee River TMDL by reducing excess sedimentation and improving hydrologic connectivity and watershed functionality.			
Key People:	Director:	Lisa Wallace		
	Board Chair:	Jake Hudson		
	Project Contact:	Name:	Eben Swain	
		Position:	Program Manager	
		Phone:	530-550-8760, 7#	
		Fax:	NA	
Email:	eswain@truckeeriverwc.org			
Organization Mission:	We bring the community together for the Truckee to restore, protect, and enhance the Truckee River watershed.			
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary)	If yes,			
	Date awarded:	October, 2019		
	Project title:	Truckee River Invasive Species Control Project		
	Amount:	\$19,250		
	Date awarded:	March, 2019		
	Project title:	McIver Dairy Meadow Restoration Project		
	Amount:	\$161,000		
	Date awarded:	March 2018		
	Project title:	Truckee Meadows Restoration Project – Phase 2 Construction		
	Amount:	\$30,000		
Please see Attachment A for a full list of awarded grants				

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
- E. Other projects that meet the evaluation criteria.

Coldstream Canyon and Bear Creek Restoration Projects

- 1. Specific project goals and measurable outcomes and how you will measure and report them.** The overall goal is to reduce erosion and excess sedimentation to the main stem Truckee River by 1)restoring impaired meadow/wetland systems on key tributaries to the Truckee River, and 2)correcting drainage on improperly constructed roadways on the same key tributaries.

To that end, the funding request is to close critical funding gaps on implementation of two projects scheduled for Fall 2020: the Coldstream Canyon Sediment Reduction Project and the Bear Creek Lower Meadow Restoration Project.

The Middle Truckee River watershed is listed under the Clean Water Act (303)d as impaired for sediment by the U.S. EPA, with an approved TMDL (Lahontan Water Board, 2008). The Truckee River is the primary source for delivering water supply for the Reno/Sparks metropolitan area via the Truckee Meadows Water Authority.

The specific goal of the **Coldstream Canyon Sediment Reduction Project** is to improve water quality and riparian habitat by restoring actively eroding road networks that are contributing excess sediment to the Truckee River. In addition, we have the opportunity to restore degraded wetland habitat that will support greater retention of ground and surface waters longer in the season, while also acting as a filter to decrease sediment transfer. The measurable outcomes of this project include:

- 3.5 miles of dirt roads treated (grading, water bars, rolling dips, etc)
- 1.0 mile of dirt roads decommissioned
- 5.0 acres restoration of degraded wetland habitat
- 45 tons of sediment per year eliminated

The specific goal of the **Bear Creek Lower Meadow Restoration Project** is to improve water quality by restoring montane meadow and stream habitats. In addition, we have the opportunity to increase floodplain connectivity, improve meadow hydrology and habitat, elevate the groundwater table to prolong flows, and increase carbon sequestration and resiliency to climate change and drought.

The measurable outcomes of this project include:

- 30 acres of restoration of montane meadow
- 3,000 feet of restoration within Bear Creek
- 20 tons of sediment reduction per year eliminated

For both sites, project success will be measured by pre and post-project monitoring programs for sediment reduction, increases in groundwater levels, stream flow shifts, and increased vegetation.

- 2. Project location.** Please see attached location maps.
- 3. Project description.** This funding request includes two restoration projects: the **Coldstream Canyon Restoration Project** and the **Bear Creek Restoration Project**. The projects share a common goal of reducing excess sedimentation to the Truckee River, and improving habitat conditions in key sub-watersheds.

The **Coldstream Canyon Restoration Project** is a partnership between TRWC and California Department of Parks & Recreation (CDPR). The project will restore significant dirt road networks on CDPR properties to reduce transfer of sediment and will create/restore 5.0 acres of wetland habitat.

Coldstream Canyon and Bear Creek Restoration Projects

Funding from the Truckee River Fund will close a critical funding gap in the amount of \$86,500 needed to implement the project.

In 2007, TRWC conducted the Coldstream Canyon Watershed Assessment (CCWA - TRWC 2007). The CCWA defines opportunities to reduce fine sediment transfer and improve habitat conditions in Coldstream Canyon. The full assessment document is available for review [HERE](#). In 2008, The Truckee River TMDL identified Coldstream Canyon as the second largest contributor of sediment loading in the Middle Truckee Watershed.

This project will implement restoration actions in areas identified as heavy sediment contributors to the Truckee River. Restoration actions for this project will treat 3.5 miles of dirt road and associated stream crossings, and will decommission 1.0 mile of existing dirt roadway. In addition, 5 acres of degraded wetland habitat will be restored, helping to enhance vegetation and filter sediments prior to reaching downstream waterbodies. These activities will result in an estimated sediment reduction of 45 tons per year and will improve watershed and ecosystem functionality.

Specific work components for the Coldstream Project will include:

- Installation of rolling dips to reduce road capture and restore hydrologic connectivity
- Regrading roadways where rilling and/or gullying is present to reduce erosion
- Ripping and tilling the soil to improve infiltration and seeding/mulching the newly decommissioned roadways to prevent erosion
- Restoration of 5 acres of degraded wetland to establish wetland vegetation characteristics and help to filter fine sediments

The **Bear Creek Project** is a partnership between TRWC and the U.S. Forest Service – Tahoe National Forest (USFS). The project will restore 30 acres of degraded montane meadow and 3,000 feet of incised channel and eroding stream banks. This proposal will close a critical funding gap of \$50,000 for project implementation.

The project is identified as a high priority by the Truckee River Tributaries Sediment Reduction Assessment (2016) and the Bear Creek Watershed Assessment (2018). The Bear Creek Watershed Assessment documented widespread degradation of the creek and its tributaries resulting from the past 150 years of inappropriate land use. These impacts transformed a multi-threaded wet-meadow system into an impaired, single-channel dry meadow. Today, the creek is incised and actively eroding, and meadow functions and habitats continue to degrade, affecting water quality in Bear Creek and the mainstem of the Truckee River.

The project is designed to encourage the spread of flows and channel aggradation, provide bank stability, and re-establish multiple secondary flow paths across the meadow surface. Augmenting instream wood and cobble in the channel and riffle structures and re-engaging existing secondary channels will restore channel and meadow function, enhance meadow hydrology and habitat, and reduce sources of instream sediment.

Specific work components for the Bear Creek Project include:

- Install bank log structures to stabilize eroding banks and dissipate energy from flows
- Augment existing riffles to increase bed and water surface elevation, thus connecting to the floodplain, spreading and slowing flows, and encouraging sediment to drop out

Coldstream Canyon and Bear Creek Restoration Projects

- Activate remnant channels to further water the meadow and decrease flow velocity towards currently eroding stream banks
- Revegetate with salvaged material, container plants and a native seed mix.

4. Grant priorities. The projects address:

- **Watershed Improvements:** The projects will decrease sedimentation and support attainment of the TMDL for Truckee River. Restoration will enhance watershed function and habitat by reducing erosion, restoring sensitive ecosystems and by decommissioning and restoring dirt roads.
- **Local Stormwater Improvements:** Extensive road networks within Coldstream Canyon have led to an increase in stormwater and associated pollutants entering the Truckee River. The project will increase hydrologic connectivity and on-site infiltration. Both the Coldstream Canyon and the Bear Creek projects will significantly enhance floodplain connectivity that will reduce impacts of excessive erosion to the Truckee River.
- **Meet Multiple Objectives:** The projects meets the objectives listed above. They also benefit meadow, riparian, and in-stream habitat, native fish and wildlife species, and carbon sequestration.
- **Leverage Stakeholder Assets and Participation:** Both projects leverage significant stakeholder participation and cost share from USFS and CDPR. Additional stakeholder input and prioritization is documented in the Coldstream Canyon (TRWC 2007) and the Bear Creek Watershed Assessment as well as in the Truckee River TMDL (LRWQCB, 2008).

5. Permitting. TRWC and CDPR have completed CEQA, and all other required environmental permits are secured for the **Coldstream Canyon** project, including 401/NPDS, CDFW 1600 LSA and USACE authorization.

TRWC and USFS completed NEPA, CEQA, FEMA CLOMR, Placer County Grading and Encroachment, Section 404, NPDES and CDFW 1600 for the **Bear Creek Project**.

6. Future Land Uses. There are no foreseeable zoning, land use, or development plans that will affect the projects or project sites. All landowners are project partners and have committed to the projects.

7. Future phases. TRWC and CDPR will continue to pursue funding opportunities to achieve sediment reduction and habitat improvements in **Coldstream Canyon**. Future phases may include additional road work and/or stream restoration. Likewise, TRWC and various partners will continue to pursue funding for improvements in the **Bear Creek** Basin. Future work for both areas is identified in the watershed assessments listed above.

8. Principals involved. Eben Swain, TRWC Program Manager, will lead the **Coldstream Canyon Project**. Michele Prestowitz, TRWC Program Manager, will lead the **Bear Creek Project**. They will handle grant administration jointly.

9. Number of staff positions involved in project: (Part-time) Eben Swain, Michele Prestowitz, and Lisa Wallace (TRWC) will dedicate a portion of their time to these projects, with additional support from CDPR and USFS.

Coldstream Canyon and Bear Creek Restoration Projects

10. Number of volunteers involved in project and an estimated number of volunteer hours. Volunteers will assist with revegetation of the stream channels and decommissioned roads including re-seeding and mulching. 10 volunteers will contribute a total of 45 hours.

11. Time Line.

Task	Start Date	Completion Date
Coldstream Canyon Restoration	August 2020	October 2021
Bear Creek Restoration	August 2020	October 2021
Project Management and Reporting (both projects)	August 2020	October 2021

12. Success. Project success for both the **Coldstream Canyon** and **Bear Creek Projects** will be confirmed by the post-project monitoring for hydrologic (groundwater and stream flow), vegetation, biological, and geomorphic parameters.

13. Collaboration. TRWC is partnering with CDPR for the Coldstream Canyon Project and USFS for the Bear Creek Project.

14. Grant match.

Match amount to be provided:		\$34,125	
Match details:	Match is:	Cash	\$34,125
	For the cash portion of your match, is the funding already being held by the applicant for this project? Yes		
Description of matching funds/in-kind donations:	Matching funds for \$21,625 for the Coldstream Project are from the California State Water Resources Control Board. The grant funds personnel and operating expenses as well as treatment/restoration of dirt roads and wetland habitat.		
	Matching funds for \$12,500 for the Bear Creek Project are from California Department of Fish and Wildlife Proposition 1 Watershed Restoration Grant Program. The grant funds personnel services, operating expenses, and restoration in the stream and meadow.		
	TRWC will manage all funds provided by the Water Board, Department of Fish and Wildlife, and the Truckee River Fund to ensure maximum project efficiency and cost effectiveness.		

ATTACHMENTS

- A. Extended list of past TRWC projects funded by the Truckee River Fund.
- B. Coldstream Canyon Sediment Reduction Project Location Map
- C. Bear Creek Lower Meadow Restoration Project Vicinity Map

Documents noted below are available and can be submitted upon request.

Nonprofits submit:

- Last audited financial statements if your organization has been audited
- List of Board of Directors
- Copy of agency's IRS 501(c)(3) Tax Determination Letter
- Copy of the agency's most recent IRS Form 990

Coldstream Canyon and Bear Creek Restoration Projects

15. PROJECT BUDGET

ITEM	TRF \$	OTHER FUNDING NAME	MATCH \$	TOTAL
Coldstream Canyon Sediment Reduction				
Project Management – Direct and Indirect*	\$0	California State Water Resources Control Board	\$10,530	\$10,530
Project Supplies (Native seed, plantings, topsoil)*	\$0	California State Water Resources Control Board	\$11,095	\$11,095
Construction**	\$86,500		\$0	\$86,500
Bear Creek Lower Meadow Restoration				
Project Management – Direct and Indirect*	\$0	California Dept. of Fish & Wildlife	\$6,635	\$6,635
Monitoring*	\$0	California Dept. of Fish & Wildlife	\$5,865	\$5,865
Construction***	\$50,000		\$0	\$50,000
Total	\$136,500		\$34,125	\$170,625

*Project Management, Project Supplies and Monitoring

- 100% of project management, project supplies and project monitoring costs are funded by the matching grant sources

**Coldstream Canyon Sediment Reduction

- If awarded, all funds from TRF will go to construction of the project.
- We received several bids for constructing the project. All qualified bids had higher costs than our construction estimate mainly due to increased costs with construction equipment.
- If we do not receive funding from the Truckee River Fund, we will decrease the scope of the project by doing less restoration of the wetlands, and less maintenance of improperly constructed dirt roadways, thus decreasing the amount of sediment reduction to the Truckee River.

***Bear Creek Lower Meadow

- If awarded, all funds from TRF will go to construction of the project.
- We received several bids for constructing the project. All qualified bids had higher costs than our construction estimate mainly due to increased costs for stream dewatering equipment and fill.
- If we do not receive funding from the Truckee River Fund, we will decrease the scope of the project by doing less meadow restoration and less streambank stabilization, thus decreasing the amount of sediment reduction to the Truckee River.

Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council

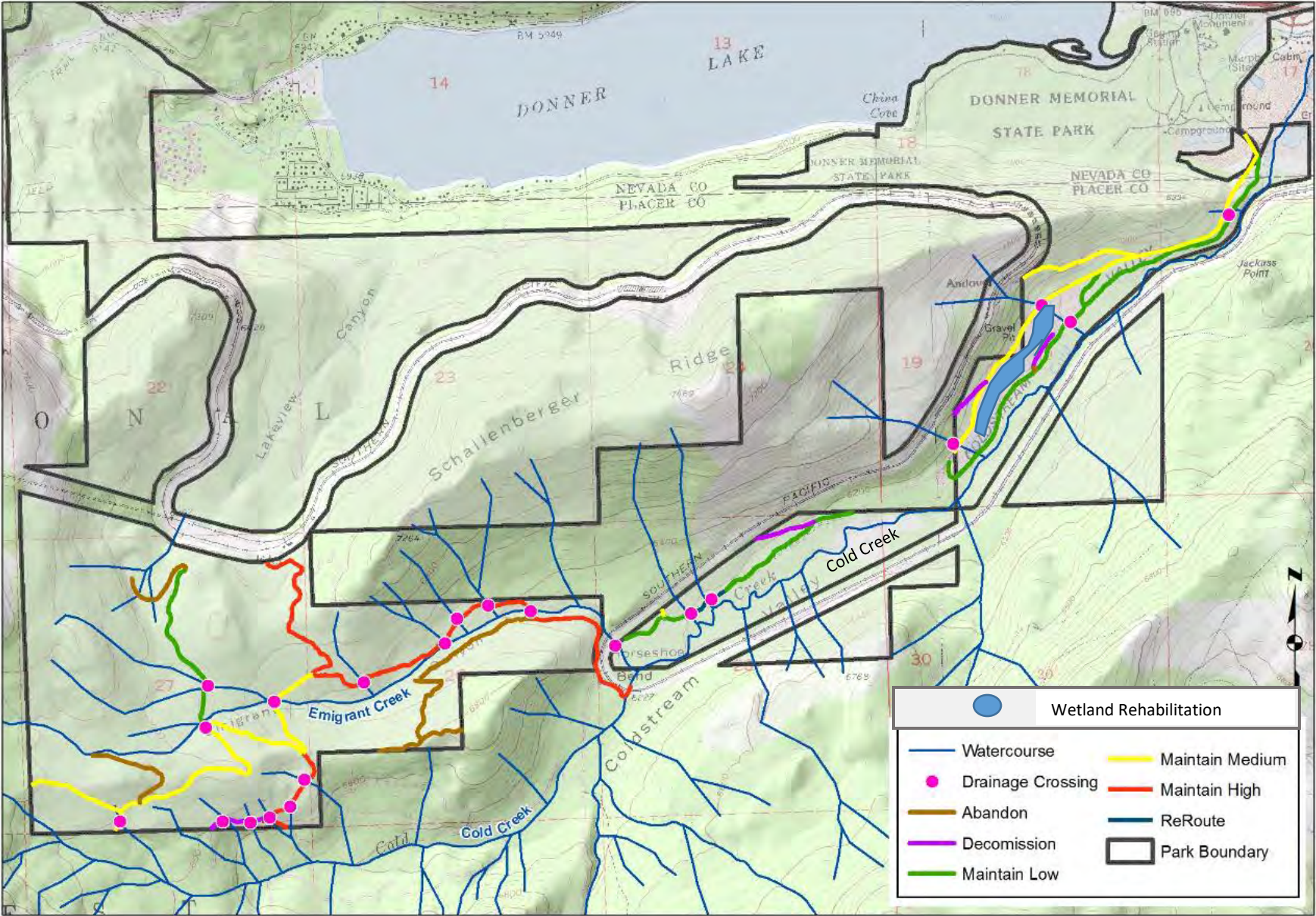
Attachment A
Continued list of grants to TRWC from the Truckee River Fund

Date awarded:	October 2018
Project title:	Truckee River Water Quality Monitoring Program
Amount of Award	\$25,000
Date awarded:	October 2018
Project title:	Restoration Projects: Donner Creek and Dry Creek Meadow
Amount of Award	\$92,000
Date awarded:	October 2017
Project title:	Truckee River Tributaries Sediment Reduction Project
Amount of Award	\$165,000
Date awarded:	March 2017
Project title:	Big Chief, F4M Restoration Culvert Outflows
Amount of Award	\$50,000
Date awarded:	September 2016
Project title:	Donner Creek Bank Stabilization Downstream of Railroad Culvert Final Design
Amount of Award	\$90,000
Date awarded:	March 2017
Project title:	F4M Restoration Culvert Outflow
Amount of Award	\$50,000
Date awarded:	September 2016
Project title:	Donner Creek Concept Designs
Amount of Award	\$40,000
Date awarded:	September 2016
Project title:	Donner Creek Bank Stabilization
Amount of Award	\$92,000
Date awarded:	April 2016
Project title:	Johnson Canyon West #2
Amount of Award	\$67,000
Date awarded:	October 2015
Project title:	Johnson Canyon West #1
Amount of Award	\$25,000
Date awarded:	September 2014
Project title:	Donner Lake Watershed Assessment
Amount of Award	\$70,000
Date awarded:	March 2014
Project title:	Truckee Wetlands Restoration – Phase 3,4, & 5 – Design
Amount of Award	\$50,000
Date awarded:	October 2013
Project title:	Truckee River Big Chief Corridor –Restoration
Amount of Award:	\$150,000
Date awarded:	March 2013
Project title:	Truckee River Big Chief Corridor – Implementation
Amount of Award	\$11,000

Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council

Date awarded:	March 2013
Project title:	Middle Martis Wetland Restoration – planning and design
Amount of Award:	\$120,000
Date awarded:	August 2012
Project title:	Phase 2 Coldstream Canyon Floodplain Restoration
Amount of Award:	\$196,000
Date awarded:	March 2012
Project title:	Lacey Creek and Meadow Assessment
Amount of Award	\$50,000
Date awarded:	March 2012
Project title:	Negro Canyon Restoration – pre-project monitoring
Amount of Award:	\$25,000
Date awarded:	October 2010
Project title:	Coldstream Canyon Floodplain Restoration Project
Amount of Award:	\$135,000
Date awarded:	August 2010
Project title:	Truckee Wetlands Restoration Project – Phase 2
Amount of Award:	\$40,000
Date awarded:	July 2006
Project title:	“This Drains to the Truckee River” Storm Drain Stenciling Pilot Project
Amount of Award:	\$9,300

Project Location: Coldstream Canyon Sediment Reduction



RESOURCES OFFICE

Sierra District
Tahoe, CA
96142

NOTE:
Parcel boundaries are approximate and should not be considered legal descriptions. Maps are intended for study purposes only.

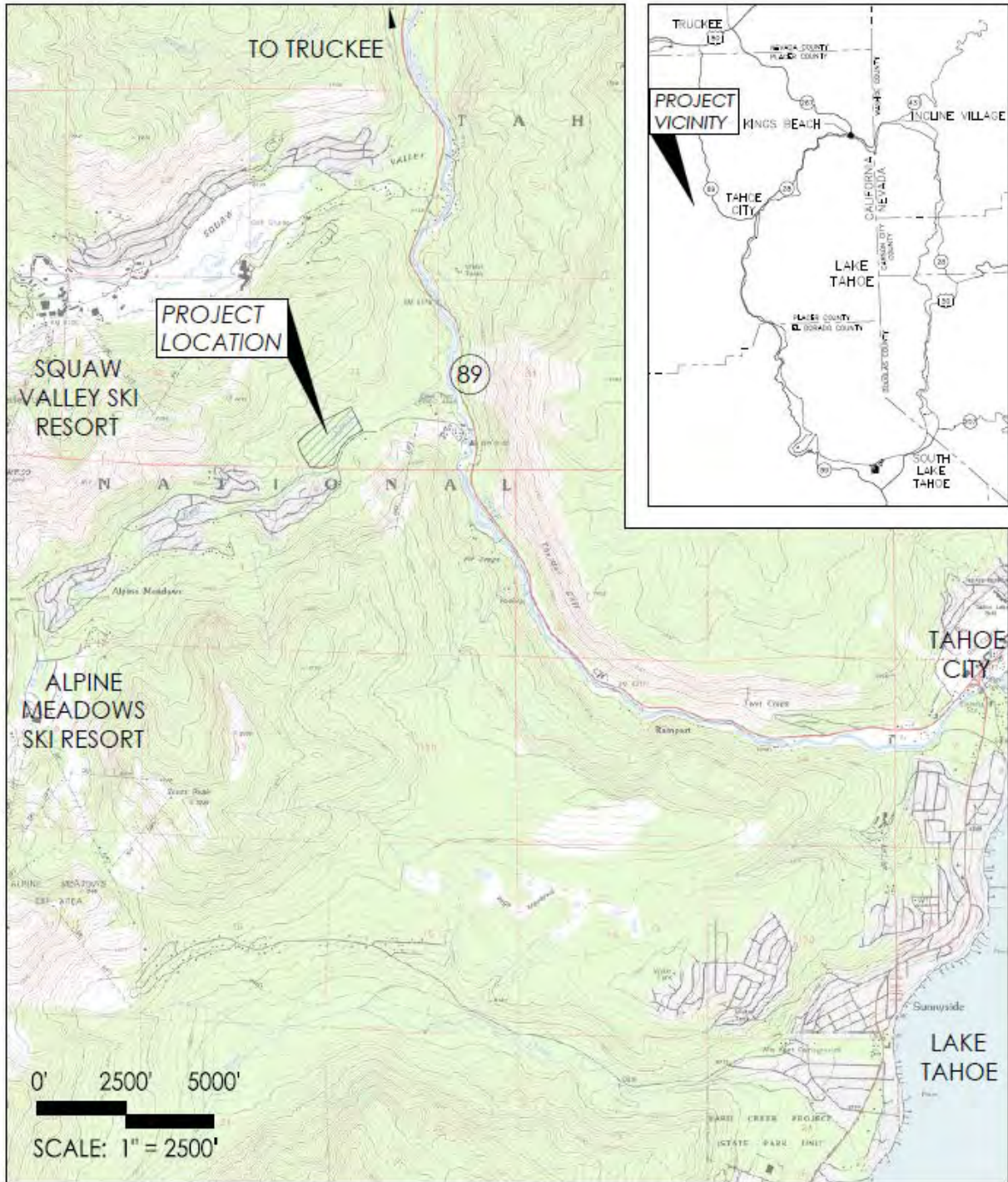
Coldstream Canyon Road Maintenance Severity

This map displays condition severity and maintenance recommendations for State Parks roads in Coldstream Valley of Donner Memorial State Park.

DATE:
01/09/2019

Projection:
UTM Zone 10 N
NAD 83

Project Location: Bear Creek Lower Meadow Restoration Project





Cover Sheet

Date: 7/30/2020

Organization Name:		Truckee Donner Land Trust		
Type: 501(c)3 Nonprofit	501(c)(3) EIN# 68-0245327	Governmental entity? Y/N No		
Address:		10069 West River Street Unit 1c		
Project Name:		Truckee Springs		
Amount requested: \$75,000		Website: truckeedonnerlandtrust.org		
This funding will be used to (complete this sentence with a max of 2 sentences):		Acquire the 26-acre Truckee Springs property on the south bank of the Truckee River for conservation and recreation		
Key People:	Director:	Perry Norris		
	Board Chair:	Jeff Brown		
	Project Contact:	Name:	John Svahn	
		Position:	Associate Director	
		Phone:	530-582-4711	
		Fax:	530-582-5528	
Email:		john@tdlandtrust.org		
Organization Mission:				
Has your organization received other grants from the Truckee River Fund? Yes	If yes,			
	Date awarded:	3/30/2018		
	Project title:	Cold Stream Meadow Road Decommissioning and Restoration		
	Amount of Award:	\$65,000		
	Date awarded:	9/23/2016		
	Project title:	Webber Lake Little Truckee River Headwaters Management		
	Amount of Award:	\$75,000		
	Date awarded:			
Project title:				
Amount of Award:				

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

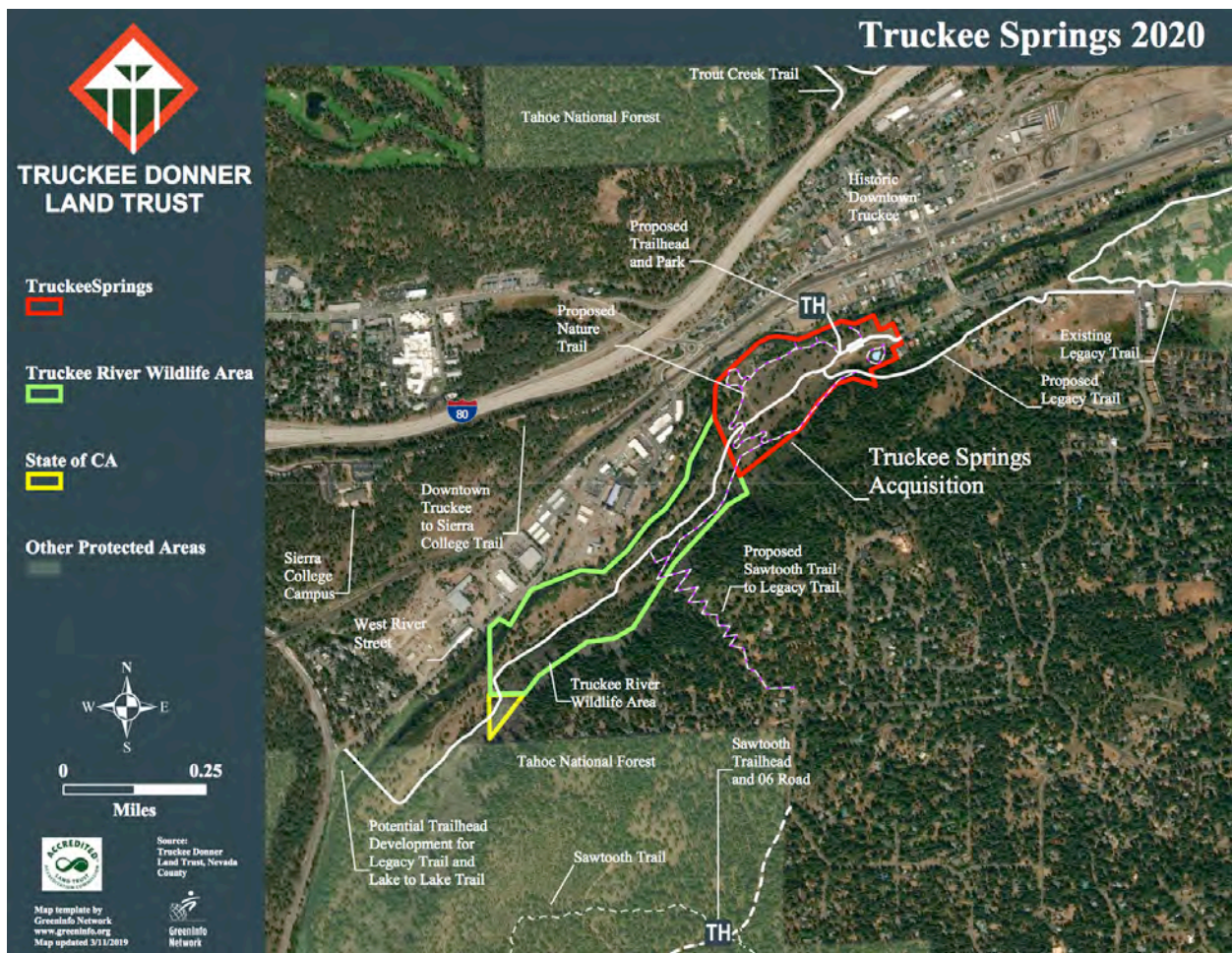
- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.³
- E. Other projects that meet the evaluation criteria.

1. Project goals and measurable outcomes and how you will measure and report them.

The goal of the Truckee Springs Open Space Acquisition is to acquire 26 acres of undeveloped land along the Truckee River within the town limits of Truckee for the purpose of conserving the land in perpetuity and providing public access to the river. Truckee Springs is one of the last undeveloped tracts of land in the river corridor that is not protected as Federal, State, or municipal parkland, and the threat of development is imminent. The acquisition will protect the natural resources and allow for the restoration of several springs impacted by legacy land use. The acquisition will allow for public access on previously closed Truckee Springs property by creating sustainable, durable access, including a new portion of the Truckee River Legacy Trail/Tahoe-Pyramid Trail. If we are successful, the Land Trust will acquire the property in July 2021. The public will be able to access the property immediately upon acquisition.

2. Project Location

The project is located in downtown Truckee on the south bank of the Truckee River, encompassing roughly 26 acres of flood plain west of South River Street. It is a portion of the last remaining undeveloped land within Truckee's urban core.





Property shown left, Truckee River & downtown Truckee right

3. Project description

The Truckee Springs Acquisition will result in the permanent protection of much of the Truckee River's south bank and floodplain in downtown Town of Truckee. The property to be acquired is 26 acres and contains nearly a half-mile of riverfront. The acquisition prevents future impacts brought forth through development, including additional impervious surfaces that affect stormwater and snow runoff volume, sedimentation and temperature, and loss of available habitat connections from riparian areas to uplands. The property is zoned for up to 40 single-family units, which is quite dense on a property this size. According to Informing Watershed Planning and Policy in the Truckee River basin through Stakeholder Engagement, Scenario Development, and Impact Evaluation by the staff of The Nature Conservancy and others, simply preventing development and the associated impacts is one of the most effective ways to prevent water quality degradation in the watershed.

The property contains multiple springs and a pond that feed into the Truckee River, as well as mature cottonwoods, aspen groves and riparian vegetation. It is the last remaining open space in downtown Truckee that links the Truckee River to thousands of acres of protected U.S. Forest Service and California Department of Fish and Wildlife lands. Much of the property is within the flood plain of the river, and is characterized by sage and other brush, with stands of alder, aspen and pine forest as the property slopes up to the south.

A network of sustainable trails and river access points will be constructed once the property is acquired. The property and its trails will provide the only public access to the river in downtown Truckee. This includes a portion of the Town's premier multi-use paved trail – the Truckee River Legacy Trail – that will connect Glenshire to Donner Lake. As it winds through Truckee, the Legacy Trail is also the Tahoe-Pyramid Trail, linking Lake Tahoe with Truckee and Reno along the Truckee River. Aside from river access and the multi-use paved trail, the property will serve as Truckee's hub for trail recreation, linking with numerous popular trails. The property and its associated trails provide local river and open space access via trails separated from motor vehicle traffic to residents of several disadvantaged communities living nearby.

The Land Trust has partnered with Truckee Meadows Water Authority (TMWA) and the Truckee River Fund on numerous occasions to protect the riparian corridor of the Truckee, as well as to promote and maintain people's access to the River. The Land Trust holds conservation easements along 93 riverfront acres in the Truckee Canyon on land owned by TMWA. In addition the Truckee River Fund has funded cleanups of the river, forestry to restore meadows in the headwaters, and the decommissioning of erosive former logging roads along a prominent cold-water headwater tributary, aptly named Cold Stream.

Acquisition of Truckee Springs will cost \$6,250,000.00. The total project including acquisition, trails, and the construction of a pedestrian bridge across the Truckee River for additional and more convenient public

access will cost roughly \$10,000,000.00. The Truckee Donner Land Trust respectfully requests a grant of \$75,000.00 from the Truckee River Fund, to aid in the acquisition of this unique and important property.

4. Grant Priorities.

This project is aligned with priorities II, IV, with secondary benefits aligned with priority III. Most of the grant priorities fund the restoration of the Truckee River and its tributaries. While this acquisition is not directly a restoration project, prevention of development in the riparian corridor will preclude the construction of numerous impervious surfaces that will accelerate the velocity and temperature of runoff, leading to erosion and increased water temperatures. Both of these conditions are often the root cause of future restoration. This acquisition will also open the door for restoration projects on the property heretofore not possible under current ownership.

5. Permitting.

The acquisition is exempt from CEQA. Change of use designation in planning, and permitting of the trails and bridge will be done in concert with the Town of Truckee. This includes CEQA and NEPA permitting, coordinated with the town's construction of the paved class-one multi-use Truckee River Legacy Trail across the property. Coordination with the Town of Truckee is already underway.

6. Future Land use.

The 26-acre property will be permanently conserved as open space by the Truckee Donner Land Trust, with basic recreation infrastructure including sustainable trails, and picnic tables and benches. The land will be managed for recreation and conservation. In addition, legacy impacts will be restored including an impacted area of springs, and portions of roads that capture drainages.

7. Future phases.

The acquisition will be complete by July 2021. Permitting and Implementation of the trail plan will be funded by a combination of Town of Truckee funding for the Truckee River Legacy Trail and public and private fundraising by the Truckee Donner Land Trust already underway. The Land Trust aims to raise \$4 million total for stewardship of the property.

8. Principals involved.

Truckee Donner Land Trust is the project lead, with cooperation from the Town of Truckee.

9. Number of staff positions involved:

Fulltime: 4 Part time: 1

Truckee Donner Land Trust will have four full-time employees dedicating a portion of their time to the acquisition project, as well as a part-time summer seasonal employee. This includes staff working to raise the balance of funding necessary for the project, staff to complete the acquisition including due diligence, title and finance. Lastly 1.5 full time staff will work to design the recreation facilities.

10. Number of volunteers involved:

No volunteers will be involved in the acquisition or permitting portion of the project, but once construction begins, Truckee Donner Land Trust will use volunteers on the dirt trail construction. Typically, the Land Trust sees 300 volunteers in a summer for trail construction and maintenance projects.

11. Timeline.

Planning: Today – January 2021

Permitting: Today – June 2021

Acquisition of Property: July 2021

Construction begins: Summer 2021

12. Success.

The project will be successful with the acquisition of the 26-acre property, forever protecting the land from future development and providing access for the public to enjoy it.

13. Collaboration.

Town of Truckee: project funder (\$500,000 committed to date), lead on Truckee River Legacy Trail, partner in protect permitting

Truckee Trails Foundation: Partner in trail design and in coordinating trail plan with nearby existing and planned trails to create cohesive trail network
Truckee River Watershed Council: Partner in possible restoration projects on property

14. Grant match.

Truckee Donner Land Trust will support the balance of the project: Currently \$1,120,985 has been raised from private individuals and foundations. The Land Trust will include \$3 million from property transfer fees and a bequest. California Natural Resources Agency has granted \$1 million, and the Town of Truckee has committed \$500,000 to the project.

15. Budget

Expenses	Amount	Notes
Acquisition & hard costs	\$6,500,000	
Pedestrian bridge	\$2,500,000	Estimate
Trails and amenities	\$250,000	Includes planning, paved trail to Legacy Trail
Trail head	\$250,000	Extension of South River Street
Stewardship fund	\$250,000	Operations & maintenance
Other expenses	\$250,000	Permitting, staff costs, public art, campaign
	\$10,000,000	
Income		
TDLT bequest	\$2,000,000	In-hand
TDLT Transfer fees	\$1,000,000	In-hand
California Natural Resources Agency	\$1,000,000	Pledged
California Wildlife Conservation Board	\$500,000	Pending
California EEMP	\$1,000,000	planned
Private fundraising	\$2,500,000	\$1,100,000 in-hand
Town of Truckee	\$1,000,000	\$500,000 pledged
Other government entities	\$1,000,000	Pending
	\$10,000,000	

For the cash portion of your match, is the funding already being help by the applicant for this project?
Yes

Description of matching funds:

Funds already raised/to be raised for stewardship costs as part of the Truckee Donner Land Trust campaign to acquire Truckee Springs.

Included attachments:

Last audited Financial Statement

List of Board of Directors

Copy of IRS 501(c)3 Tax Determination Letter

Copy of most recent IRS 990

Cover Sheet

Date: 07/31/2020

Organization Name:	Board of Regents, NSHE, obo the Desert Research Institute			
Type:	501(c)(3) EIN#88-6000024	Governmental entity? No		
Address:	2215 Raggio Parkway, Reno, NV 89512			
Project Name:	Occurrence, Fate and Risk of PFAS in the Truckee River			
Amount requested: \$65,414	Website: www.dri.edu			
This funding will be used to: Develop quantitative information about occurrence of certain PFAS compounds in the Truckee River and risks posed by them. The project aims to provide useful information to aid in the development of pollution removal strategies from the Truckee River.				
Key People: Rishi Parashar Alexandra Lutz Xuelian Bai Lazaro Perez Jeffrey Daniels	Director:	Sean A. McKenna, Ph.D. (DRI/DHS)		
	Board Chair:	Jason Geddes (NSHE)		
	Project Contact:	Name:	Rishi Parashar	
		Position:	Associate Research Professor	
		Phone:	775-673-7496	
		Fax:	775-673-7363	
Email:	Rishi.Parashar@dri.edu			
Organization Mission: We excel in basic and applied research and the application of technologies to improve people’s lives throughout Nevada and the world. We implement this mission by fostering scientific and engineering talent. We apply scientific understanding to the effective management of natural resources while meeting Nevada’s needs for economic diversification and science-based educational opportunities.				
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary) – see additional page 7	If yes, Date Awarded: 09/16/2010 Project Title: #67 Cloud Seeding Project for Tahoe and Truckee Basins for WY2010 Amount of Award: \$165,151.00			
	Date Awarded: 10/25/2010 Project Title: #81 Cloud Seeding Project for Tahoe and Truckee Basins for WY2011 Amount of Award: \$155,272.90			

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.³
- E. Other projects that meet the evaluation criteria.

Occurrence, fate, and risk of PFAS in the Truckee River

1. Project Goals and Measurable Outcomes

This project is a fifteen-month study of per- and polyfluoroalkyl substances (PFAS) at locations along the Truckee River upstream and downstream from the Chalk Bluff drinking water treatment plant. PFAS are contaminants of emerging concern (CECs) for a public water system (PWS) and refers to a class of more than 4,000 synthetic chemicals that have been manufactured and released into the environment for over 50 years. There are severe environmental risks and human-health concerns associated with PFAS because of their long-term persistence in the environment that is attributable to low environmental biodegradability and which contributes to high bioaccumulation in both wildlife and humans. In 2020, a lifetime health advisory of 0.07 µg/L (70 ng/L) was issued for two specific PFAS — perfluorooctanoate (PFOA: CAS ID #335-67-1) and perfluorooctane sulfonate (PFOS: CAS ID #1763-23-1) — in potable water to protect against long-term exposure and subsequent health effects (USEPA, 2020).

The Truckee River and Chalk Buff Treatment Plant supplies the growing Reno/Sparks metropolitan area with drinking water. Since 2005, approximately 100,000 people have moved in Washoe County, most in the Reno/Sparks metropolitan area, with about 60,000 additional people anticipated by 2030. This project aims to develop a spatial and temporal baseline to inform the utility about PFOS and PFOA concentrations in the Truckee River at the intake and outflow of the Chalk Bluff Treatment Plant and health risks that could develop from chronic exposure thereby supporting the development of basin-wide planning and treatment decision making. There is no known, current study of PFAS occurrence along the Truckee River. A USGS report released a decade ago (Thomas, 2009) lists the analyses of CECs in samples taken between 2002 and 2005 at the intake of the Chalk Bluff Treatment Plant. Limited samples were taken after treatment (some contaminants persisted) and downstream persistence was not measured.

The project's specific goals are as follows:

- a) Quantification of the presence of PFAS, specifically PFOA and PFOS, in the Truckee river and investigation of spatial and temporal trends of their concentration

We hypothesize that concentrations of the PFOA and PFOS will vary over time as spring flows increase and summer flows decrease. We observed this in a similar study of PFAS contaminants of emerging concern in the South Platte River in the Denver metropolitan area (Bai *et al.*, 2018). The CECs were less persistent during the spring runoff season compared with baseflow (low water flow) season at most sampling sites. Statistical analysis of space and time varying data of PFAS concentrations obtained from various sampling points along the river will help understand their correlations and provide a framework for extrapolation under differing hydrologic conditions.

- b) Developing an understanding of the transport dynamics of PFAS in the Truckee River

Both PFOA and PFOS are reported to have the potential of long-range transport in river systems (Li *et al.*, 2017). Numerical modeling studies of transport of PFAS in the Truckee River will lead to a better understanding of how their prevalence and fate are impacted by hydrochemical conditions in the river and effects of treatment. Transport models will yield useful quantitative information of state and persistence as PFAS travel down the river towards Chalk Bluff.

- c) Assessment of risk posed by the identified compounds at the measured concentration levels

The EPA has determined that PFOA and PFOS meet the safe drinking water level (SDWA) statutory criterion #2 for regulatory determination, because they occur with a frequency deemed

to be of public health concern at public water systems.

We will explain the derivation of the proposed risk-based SDWA level for PFOA and PFOS and compare this proposed risk-based concentration to monitoring data collected in this study. Based on this comparison we will determine if concentrations are expected to be *de minimis* (minimal and of no concern) after treatment or if untreated could be of concern because of chronic exposure by the exposed population. This analysis will inform decision makers whether there is need for future study and intervention by the treatment facility serving metropolitan Reno, NV.

2. Project Location

Five sites will be selected upstream and downstream of Chalk Bluff. One of these sites will be just upstream of the intake one just downstream of it. Other sites to be determined based on accessibility.

3. Project Description

Water samples will be collected monthly for 12 months at the five sites. There will be a total of 60 samples. Twelve months is necessary to cover an entire year’s seasonal variation of flows in the Truckee River. In addition, hydrologic conditions of the river will also be recorded from the USGS stream gauges. The samples will be analyzed at the DRI laboratory for presence of a set of PFAS compounds. Laboratory measurements will form the basis for statistical analysis for spatiotemporal trends in data. This will further be incorporated into a mechanistic model of PFAS transport in the Truckee River. The measured and numerically modeled concentration levels will be used in analysis of potential health risk to humans. At the conclusion of the project, we expect to provide quantitative information about PFAS occurrence, fate, and risk to TMWA in order to help develop PFAS management and removal strategies. Details related to individual tasks of the project are as follows:

3.1 Sample collection and laboratory analysis

All water samples will be analyzed for a group of long-chain and short chain PFAS (includes PFOA and PFOS) that has been widely used (Table 1). In brief, water samples will be collected in polypropylene containers at each site. Water chemistry parameters will be characterized during each sampling event. All samples will be spiked with 5 ng of internal standard (13C6-PFHxA) and stored at -20 °C until extraction. Water samples will be further cleaned using solid phase extract with Waters OASIS WAX columns. Extracted and cleaned samples will be injected into an ultra-performance liquid chromatography tandem mass spectrometer (UPLC-MS/MS) system and the target PFAS will be detected using multiple reaction monitoring (MRM) method.

Table 1. Target PFAS analytes.

Compound	Formula	MW (g/mol)
Perfluoroalkyl carboxylic acids (PFCAs)		
Perfluorobutanoic acid (PFBA)	C ₄ HF ₇ O ₂	214.04
Perfluoropentanoic acid (PFPeA)	C ₅ HF ₉ O ₂	264.05
Perfluorohexanoic acid (PFHxA)	C ₆ HF ₁₁ O ₂	314.05
Perfluoroheptanoic acid (PFHpA)	C ₇ HF ₁₃ O ₂	364.06
Perfluorooctanoic acid (PFOA)	C ₈ HF ₁₅ O ₂	414.07
Perfluorononanoic acid (PFNA)	C ₉ HF ₁₇ O ₂	464.08
Perfluorodecanoic acid (PFDA)	C ₁₀ HF ₁₉ O ₂	514.08
Perfluoroundecanoic acid (PFUA)	C ₁₁ HF ₂₁ O ₂	564.09
Perfluorododecanoic acid (PFDoA)	C ₁₂ HF ₂₃ O ₂	614.10

Perfluorotridecanoic acid (PFTrDA)	C ₁₃ HF ₂₅ O ₂	664.11
Perfluoroalkyl sulfonic acids (PFASs)		
Perfluorobutane sulfonic acid (PFBS)	C ₄ HF ₉ O ₃ S	300.10
Perfluoropentane sulfonic acid (PFPeS)	C ₅ HF ₁₁ O ₃ S	350.10
Perfluorohexane sulfonic acid (PFHxS)	C ₆ HF ₁₃ O ₃ S	400.11
Perfluoroheptane sulfonic acid (PFHpS)	C ₇ HF ₁₅ O ₃ S	465.21
Perfluorooctane sulfonic acid (PFOS)	C ₈ HF ₁₇ O ₃ S	500.13
Perfluorononane sulfonic acid (PFNS)	C ₉ HF ₁₉ O ₃ S	549.12
Perfluorodecane sulfonic acid (PFDS)	C ₁₀ HF ₂₁ O ₃ S	599.13

3.2 Statistical analysis for spatiotemporal description

Statistics of the collected PFAS data such as, minimum, maximum, mean, standard deviation, coefficient of variation, and skewness will be determined. The standard deviation, coefficient of variation (CV), and skewness of PFAS concentrations versus mean values will be plotted across spatial and temporal scale. Spatiotemporal data will be used to evaluate relationships between various state variables (chemical and hydrological), and to study extrapolations under varying conditions.

3.3 Model development for PFAS fate and transport

One-dimensional numerical models will be constructed to simulate PFAS transport in the Truckee River. It will include advective-dispersive transport under different flow scenarios adapted to the local conditions. The numerical model will be run with input of loads that change in time according to the concentration series interpolated from the measured concentrations. Additionally, the model will be run using maximum values of the measured concentration in order to find the large spikes that current PFAS loads can cause. Finally, we will estimate the magnitude of continuous constant PFAS loads which can cause the overall concentration to rise.

3.4 Assessment of potential risks

We will explain the USEPA derivation of the proposed Safe Drinking Water Level of 70 ng/L (0.07 microgram/L) for both Perfluorooctanoic Acid (PFOA: CAS ID #335-67-1) and Perfluorooctanesulfonic Acid (PFOS: CAS ID #1763-23-1) (USEPA 2020), and compare this proposed risk-based concentration to monitoring data. Based on this comparison we will provide insight into whether concentrations will be *de minimis* or of concern, which will be helpful to future decision making about the need for advanced water treatment.

4. **Grant Priorities**

By monitoring of selected priority PFAS at several locations, we will develop a comprehensive understanding of their occurrence and spatiotemporal variation in the Truckee River. Statistical analysis of loads of PFAS upstream of the Chalk Bluff water treatment plant, will allow us to assess removal rates of PFAS compounds through natural attenuation and inform stakeholders about management and water treatment strategies. Successful completion of this project will provide quantitative information to the stakeholders to help develop PFAS removal strategies.

5. **Permitting**

Design, engineering, or permitting tasks are not applicable for this proposed project.

6. **Future Land Use**

We anticipate using the results of this study to lead to a basin-scale study of PFAS in the Truckee and Carson watersheds.

7. Future Phases

This work will support further studies of water-quality in the semi-arid areas of the United States and globally.

8. Principals Involved

Dr. Parashar, and associate research professor, has expertise in statistical analysis and transport modeling; Dr. Bai, an assistant research professor, is an expert in ecotoxicology and environmental chemistry. Dr. Lutz, an associate research professor, has background in water quality and sustainability problems. Dr. Perez, a postdoctoral researcher, is expert in reactive transport modeling and geochemical studies. Dr. Daniels is an environmental health science consultant, with expertise in public health exposure analysis and risk assessment. Together, these five individuals integrate talent, knowledge, and expertise that is essential for a successful execution of this proposed project.

9. Staff Positions Involved

All five team members will work part time on this project (ranging from a few days to a few weeks over the duration of the project for the four senior members, and a total of 3 months for the postdoc position).

10. Volunteers Involved

The proposed project will not involve volunteers.

11. Time Line

This 15-month long project will start on October 1, 2020 and conclude on December 31, 2021. The sample collection and analysis will only occur in the first 12 months. Task integration and a project report will be completed in the final three months of the project.

12. Success Metrics

After 6 months, a mid-term metric for success is preliminary compilation of analyses and comparison with the previous report on the Truckee, Denver, and other similar areas. The final metric for success is compilation of 12 months analyses and further comparison with other reports. At this point, ecological and human health risks may be evaluated if present.

Collaboration

The Desert Research Institute is the sole participant in this project.

References

- Bai X, Lutz A, Carroll R, Keteles K, Dahlin K, Murphy M, Nguyen D. 2018. Occurrence, distribution, and seasonality of emerging contaminants in urban watersheds. *Chemosphere*. 200: 133–142. doi:10.1016/j.chemosphere.2018.02.106.
- Li Q, Wang T, Zhu Z, Meng J, Wang P, Suriyanarayanan S, Zhang Y, Zhou Y, Song S, Lu Y, Yvette B. 2017. Using hydrodynamic model to predict PFOS and PFOA transport in the Daling River and its tributary, a heavily polluted river into the Bohai Sea, China. *Chemosphere*, 167, 344-352.
- Thomas K. A. 2009. Organic compounds in Truckee River water used for public supply near Reno, Nevada, 2002-05: U.S. Geological Survey Fact Sheet 2009-3100, 6 p.
- USEPA, 2020. Announcement of Preliminary Regulatory Determinations for Contaminants on the Fourth Drinking Water Contaminant Candidate List, 40 CFR Part 141, *Fed. Regist.* 85(47), 14098-14142.

Grant Match

Match amount to be provided:	\$21,805				
Match details:	<p>Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.</p> <p>Match is:</p> <table border="1"> <tr> <td>Cash</td> <td>\$17,444</td> </tr> <tr> <td>In-kind</td> <td>\$4,361 (25% indirect on the cash match)</td> </tr> </table> <p>Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.</p> <p>For the cash portion of your match, is the funding already being held by the applicant for this project? Yes <u>X</u> No <u> </u></p>	Cash	\$17,444	In-kind	\$4,361 (25% indirect on the cash match)
Cash	\$17,444				
In-kind	\$4,361 (25% indirect on the cash match)				
Description of matching funds/in-kind donations:	DRI will use non-federal, discretionary funds as the cash portion of the match; 25% indirect on the cash match is being used as in-kind.				

ORIGINAL PROJECT BUDGET REPORT

REIMBURSEMENT

Expenditures to Date:

	TRF	DRI (Match)	TOTAL PROJECT	TRF	DRI
PERSONNEL					
Parashar, Rishi (PI)	11,522	0	11,522	0	0
Lutz, Alex	2,710	0	2,710	0	0
Bai, Xuelian	5,522	0	5,522	0	0
Perez, Lazaro	13,649	0	13,649	0	0
TOTAL PERSONNEL	33,403	0	33,403	0	0
FRINGE					
Professional	9,759	0	9,759	0	0
Post Doc	4,613	0	4,613	0	0
TOTAL FRINGE	14,372	0	14,372	0	0
OPERATING					
Lab Analyses	4,556	13,444	18,000	0	0
Lab Supplies	0	2,000	2,000	0	0
Consultant - Jeff Daniels	0	2,000	2,000	0	0
TOTAL OPERATING	4,556	17,444	22,000	0	0
TOTAL DIRECT COSTS	52,331	17,444	69,775	0	0
ICR (ON MTDC) - 25%	13,083	4,361	17,444	0	0
TOTAL COST	65,414	21,805	87,219	0	0

Continuation of other grants from the Truckee River Fund (from page 1):

Date Awarded: 07/01/2011 Project Title: Integrated Water Quality Monitoring on the Truckee River Amount of Award: \$318,012.00
Date Awarded: 10/20/2011 Project Title: #92 Cloud Seeding Project for Tahoe and Truckee Basins for WY2012 Amount of Award: \$154,815.00



**COMMUNITY
FOUNDATION**
of Western Nevada

TRUCKEE RIVER FUND
TRUCKEE RIVER FUND - TRUCKEE RIVER WATER QUALITY



Cover Sheet

Date:

Organization Name:	Washoe County	Date:	July 31, 2020	
Type:	501(c)(3) EIN# 88-6000138	Governmental entity:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Address:	1001 East Ninth St, Reno NV 89512			
Project Name:	Encampment Clean-up and Unsheltered Individual Data Collection			
Amount requested:	\$179,932	Website:	washoecounty.us	
This funding will be used to (complete this sentence with a max of 2 sentences):		To improve water quality by reducing the amount of pollution in as a result of encampments		
Key People:	Director:	Eric Brown, County Manager		
	Board Chair:	Bob Lucey, Board of County Commissioners		
	Project Contact:	Name:	Dana Searcy	
		Position:	Special Projects Manager	
		Phone:	775.399.2005	
		Fax:		
Email:		dsearcy@washoecounty.us		
Organization Mission:	Working together regionally to provide and sustain a safe, secure and healthy community.			
Has your organization received other grants from the Truckee River Fund? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (use additional page if necessary)	If yes,			
	Date awarded:			
	Project title:			
	Amount of Award:			
	Date awarded:			
	Project title:			
	Amount of Award:			
	Date awarded:			
Project title:				
Amount of Award:				

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.³
- E. Other projects that meet the evaluation criteria.

NARRATIVE REQUIREMENTS

³ For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Western Nevada for additional criteria. lrenda@nevadafund.org; 775-333-5499.



**COMMUNITY
FOUNDATION**
of Western Nevada

TRUCKEE RIVER FUND
ESTABLISHED BY THE TRUCKEE RIVER COUNCIL AND THE TRUCKEE RIVER AUTHORITY



Grant Match

Match amount to be provided:		\$ \$77,650			
Match details:	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.				
	Match is:				
	<table border="1"> <tr> <td>Cash</td> <td>\$</td> </tr> <tr> <td>In-kind</td> <td>\$ \$77,650</td> </tr> </table>	Cash	\$	In-kind	\$ \$77,650
Cash	\$				
In-kind	\$ \$77,650				
For the cash portion of your match, is the funding already being held by the applicant for this project? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Description of matching funds/in-kind donations:	Washoe County will provide \$77,650. This will be made up of \$67,250 of in-kind staff time and \$10,400 in volunteer labor time.				

ATTACHMENTS

You may be asked to submit the following attachments via email. If you are asked to submit the attachments, clearly label each file with your organization's name. If you do not have the ability to email them, place each of the items listed below on a separate page and submit just one copy.

Nonprofits submit:

- Last audited financial statements if your organization has been audited
- List of Board of Directors
- Copy of agency's IRS 501(c)(3) Tax Determination Letter
- Copy of the agency's most recent IRS Form 990

Governmental entities submit:

- Departmental budget in lieu of audited financial statements

1001 E. 9TH STREET
RENO, NEVADA 89512
PHONE: (775) 328-2000
FAX: (775) 328-2491



WASHOE COUNTY

OFFICE OF THE COUNTY MANAGER

To the Truckee River Fund committee:

Washoe County is requesting a grant of \$179,932 from the Truckee River Fund for a project to improve water quality in the Truckee River. Washoe County will provide a \$77,650 match, or 43% of the grant amount. The total budget for the project is \$257,582.

The goal of the Washoe County project is to improve Truckee River water quality by reducing the amount of pollution in the River as a result of encampments along and near the Truckee River with the eventual goal of drastically reducing the number of people camping along the River and provide those vulnerable populations with resources. Encampments result in the production of human waste, trash, medical waste and sharps (devices with sharp points or edges which are often also biohazards) being disposed in or near the Truckee River, instead of in an appropriate fashion that would keep waste out of the Truckee River. By creating relationships with unsheltered individuals, empowering them to participate in river-clean ups, and engaging them with the goal of moving into housing, the utilization of encampments along the Truckee River will be diminished.

The project, in partnership with established local non-profit and government partners, will create a database of unsheltered individuals to better connect them to housing resources, with the eventual goal of drastically reducing the number of people camping along the River. Additionally, the project's River Stewards Program will work directly with unsheltered individuals to clean up areas along the Truckee River during regularly scheduled river clean-ups. Finally, three sharps collection receptacles will be placed along the river to encourage safe, non-polluting disposal of these items.

By coupling river clean-ups with better data collection and a safe way to dispose of sharps, Washoe County will be addressing multiple challenges affecting water quality and will lead to the eventual decrease of encampments along the River as unsheltered individuals are connected to housing resources.

Thank you for your consideration of this proposal.

Sincerely,

Eric Brown
Washoe County Manager



1. Specific project goals and measurable outcomes and how you will measure and report them.

The goal of the project is to improve water quality by reducing the amount of pollution in the Truckee River as a result of encampments along and near the Truckee River. Encampments result in the production of human waste, trash, medical waste and sharps (devices with sharp points or edges which are often also biohazards) being disposed in or near the Truckee River, instead of in an appropriate fashion that would keep waste out of the Truckee River. According to a This is Reno article from November 2019, "Homeless camps along the Truckee River banks are of obvious concern to us as the river is our primary source of supply." (Source: <https://bit.ly/3hMBRt8>) By creating relationships with unsheltered individuals and engaging them with the goal of moving into housing the utilization of encampments along the Truckee River will be diminished.

This proposed project consists of four components:

1. Establishing an outreach team to build relationships and collect basic information on unsheltered individuals living within 0.75 miles of the Truckee River.
2. Establishing and maintaining a By-Name List (BNL) of unsheltered individuals living within 0.75 miles of the Truckee River.
3. Empowering unsheltered individuals to participate in clean-ups along the River to reduce waste, becoming River Stewards.
4. Installing sharps containers and weekly pick up and disposal of the contents.

The goals and measurable outcomes of the project include:

- The creation of a BNL of unsheltered individuals to effectively track the number of unsheltered individuals at any given moment. This data will be collected and entered into the Washoe County Homeless Management Information System (HMIS).
- Increase the number of placements into housing programs of unsheltered individuals. This data will be collected in HMIS.
- Conducting River clean-ups a minimum of two days per week. This will be tracked by the Washoe County Program Assistant data tracking- system created by Washoe County Technical Services.
- Track number of people volunteering in river clean-ups. Show increase in volunteers from beginning to completion of project. This will be tracked by a newly created River Stewards reporting tool.
- Provide education on safe disposal of sharps and harm reduction strategies such as decreasing substance use and improved personal hygiene. Track number of educations provided. Tracked by a newly created reporting tool.
- Measure pounds of sharps waste removed from River. The company that provides sharps disposal will provide this data.

The above outcomes will be reported on a quarterly basis on a Regional Homeless Plan website maintained by Washoe County, at the Community Homelessness Advisory Board (CHAB) and to the TMWA Board as requested.

2. Project location.

The project will initially be concentrated in the section of the Truckee River between Aces Ballfield and John Champion Park (Map 1 below) as this area has a large concentration of encampments and, as a result, diminished water quality. Once established in the area above, the project will span the areas between McCarran West and East (Map 2 below)

3. Project description. Include site map and aerial photos if applicable/possible. Maps and photos must fit on 8-1/2" x 11" paper. Cite any studies that support your project.

Map 1

Map 2



Similar efforts have taken place in California along the Russian River. The Russian River Clean River Alliance (CRA) noted that “by engaging homeless individuals to clean up their own camps and volunteer alongside the CRA, the amount of trash entering the Russian River has dramatically declined, leading to beach clean-ups at the mouth of the Russian River to be canceled – due to the lack of trash.” (source: <https://bit.ly/311AIHt>)

By coupling river clean ups with better data collection, Washoe County will be addressing multiple issues and will lead to the decrease of encampments along the River as unsheltered individuals are connected to housing resources. The work of engaging unsheltered individuals and ultimately creating River Stewards will be spearheaded by a formerly unsheltered individual who has the relationships and experience necessary to effectively work with this population. He will lead teams of volunteers in the River clean-ups as well as providing lived expertise on the best ways to build the trust necessary to collect data from unsheltered individuals. Washoe County will provide staff with the technical expertise to collect and analyze data collected in order to connect unsheltered individuals with housing resources.

Washoe County will purchase gift cards to provide to unsheltered individuals participating in the River clean-ups as a way to incentivize participation and form a mutually beneficial relationship and build trust with the population.

4. Grant priorities. Explain how the proposed project advances the TRF’s grant priorities (page 2 of the cover sheet); refer to the priorities by number in your narrative.

The project advances the following TRF priorities: watershed improvement and leveraging stakeholder assets and participation. Controlling the flow of human created trash is critical to protect the health of the Truckee River. Trash generated by unsheltered individuals camping along the Truckee has a large impact on the health of the region’s water source. The River Stewards Program will work directly with unsheltered individuals to clean up areas along the Truckee River. Additionally, in partnership with established local non-profit and government partners, the project will create a database of unsheltered individuals to better connect them to housing resources, with the eventual goal of drastically reducing the number of people camping along the River, a source of human fecal waste entering the river and reducing water quality.

This work cannot be accomplished by one agency which is why this innovative project is a collaboration of key regional stakeholders. A full list of partners can be found below. Washoe County will leverage partnerships to ensure all the necessary players are involved in the project- from direct service providers to assist with outreach and holding harm reduction classes, to the cities and law enforcement to ensure a uniform approach to enforcement issues. Most importantly, the County will partner directly with unsheltered individuals, empowering them to clean their current home and working with them to relocate to housing.

5. Permitting. Provide a permitting schedule for your project along with your plan for getting the required permits. Be sure to include the cost of permitting as a line item in your budget. No permits will be required for the river clean-up. The permit for sharps collection and disposal is the responsibility of the company that collects the waste.

6. Future land use. List any known or foreseeable zoning, land use, or development plans that may affect your proposed project.

None known

7. If **future phases** of the project will be needed, identify anticipated sources of funding.

This is a pilot program that will be evaluated throughout its duration and at its completion to determine if it is a model that is sustainable long term.

8. **Principals involved** in leading or coordinating the project or activity.

Washoe County will be coordinating the project as an initiative within the Built for Zero Project, bringing together the below-mentioned organizations and entities and unsheltered individuals to effectively count unsheltered individuals to house them, organize river clean-ups, and maintain sharps collection boxes.

The project, in partnership with established local non-profit and government partners, will create a database of unsheltered individuals to better connect them to housing resources, with the eventual goal of drastically reducing the number of people camping along the River.

For the cleanup aspect of the project we will actively partner with unsheltered individuals. Unsheltered individuals will be engaged to clean up and maintain their encampments in addition to providing appropriate sharps receptacles, leading to a reduction of waste into the Truckee River and improved water quality. To ensure success we will:

- Communicate and partner with local service providers and outreach teams prior to any clean-up activity to build a relationship and enroll encampment residents' support.
- Provide River Steward Project materials at homeless shelters, food pantries, homeless service centers, or directly to unsheltered individuals.

The Karma Box Project (KBP) is leading the River clean-ups and will actively partner with unsheltered individuals and local nonprofit and advocacy agencies to recruit and deploy volunteers. KBP is a non-profit community outreach initiative providing non-perishable food, first aid, toiletries and positive direction to those in need. It was initially founded in 2019, established to organize a method to transfer items between people who have them, and the people who need them.

Other partners on the project include: the Cities of Reno and Sparks, the Reno Regional Veterans Administration, Community Solutions (using their Built for Zero methodology to create a lasting end to homelessness) and the Washoe County Sheriff's Office.

9. Number of **staff positions involved** in project: Fulltime Part-time ("Fulltime" means 100% of their staff position will be dedicated to this project; "part-time" means only a portion of their staff position will be dedicated to this project)

Two Washoe County positions: part-time Program Assistant (50% of time), part-time Management Analyst (15% of time). Two contractors to spearhead data collection efforts and River Steward clean-up work (Director, Supervisor).

10. Number of **volunteers involved** in project and an estimated number of volunteer hours.

River clean ups will occur two-five days per week for a minimum of two-five hours per day. It is estimated that 5 volunteers will take part in each river clean up. In a year it is expected that between 500- 1300 duplicated individuals will have participated in this project, contributing between 1040-6500 volunteer hours to improving water quality.

11. **Time Line** of Project. List key dates and include project milestones. *Note:* Be realistic in your estimate of dates and milestones. List any factors that may cause a delay in implementing and/or completing the project.

By October 2020:

- Sharps collection receptacles installed
- Creation of team to collect By-Name List (BNL)
- Outreach around river clean-ups River Stewards Project

By November 2020:

- Begin river clean ups
- Installation of sharps collection receptacles along river sites along locations in Map 1
- Education/outreach on harm reduction, appropriate disposal of sharps
- Work of Outreach team to collect BNL begins

Ongoing November 2020 -September 2021:

- Data entry of unsheltered individuals
- River clean ups
- Education/outreach on harm reduction
- Evaluation of program effectiveness and implementation of any needed program adjustments

Milestones:

- Significantly reduce number of sharps and human generated debris in the Chalk Bluff and Glendale water intake locations.
- All unsheltered individuals within the project areas are catalogued on the By Name List for housing placement.
- Unsheltered individuals living in encampments are successfully referred and placed into housing
- Sharps receptacles are in place and utilized.

12. Success. Tell the committee how we will know you succeeded in what you proposed to do.

The project will be successful when the following milestones have been accomplished: significantly reduction of sharps and human generated debris in the Chalk Bluff and Glendale water intake locations, all unsheltered individuals within the project areas are catalogued on the By Name List for housing placement, unsheltered individuals living in encampments are successfully referred and placed into housing and sharps receptacles are in place and utilized.

13. Collaboration. List partnerships or collaborations with other entities in relation to your proposal, if any.

Washoe County and its regional partners are part of work on Built for Zero, a national movement using data to radically change the work and impact we can achieve to ensure homelessness is rare and brief.

The following agencies are involved in this Built for Zero project: ACTIONN, Catholic Charities of Northern Nevada, Cities of Reno and Sparks, Downtown Reno Partnership, EDAWN, EDDY House, Foundation for Recovery, Health Plan of Nevada, Interagency Council on Homelessness to Housing, Karma Box Project, MOST, Nevada Dept. of Health & Human Services, Nevada DETR, Nevada Legal Services, Northern Nevada Hopes, One Truckee River, Reno Housing Authority, Reno Regional Veterans Administration, RISE, University of Nevada Reno, Valley View Fellowship, Veterans Resource Center, Vitality Veterans, Volunteers of America, Washoe County Health District, Washoe County Sheriff's Office, West Care.

The Karma Box Project (KBP) is leading the River clean-ups and will actively partner with unsheltered individuals and local nonprofit and advocacy agencies to recruit and deploy volunteers.

14. Grant match. All applicants must provide a match of at least 25 percent for dollars requested. The match may be with funding and/or in-kind services. For larger grant requests, priority will be given to projects that significantly leverage the grant with funding from other sources. Complete the Grant Match section.

Washoe County will provide \$77,650 toward this project for a total budget of \$257,582. This represents a Washoe County match of 43%

Budget

Budget Item Description	TRF\$	Other Funding	Match \$	Total
Labor – Washoe County Staff		Washoe County	\$67,250	\$67,250
Labor - Paid	\$77,532			\$77,532
Volunteer Labor (\$10/hr x 1,040 hours)			\$10,400	\$10,400
Volunteer Incentives (Gift cards)	\$52,000			\$52,000
Supplies & Materials	\$10,000			\$10,000
Sharps Collection	\$23,400			\$23,400
Administrative Costs	\$17,000			\$17,000
Total	\$179,932		\$77,650	\$257,582

Washoe County Manager's Office- all fund sources

Period: 1 thru 16 2021 Fund: 000 Washoe County Funds
 Account: GO-P-L Fund Center: 101-0 County Manager
 Functional Area: 000 Standard Functional Area Hierarchy

ACCOUNTS	Plan	Actual	PO Commit	Actual + PO	Available	Avail%
* GO-LIC LICENSES AND PERMITS	650,000.00-				650,000.00-	100-
* GO-INTG INTERGOVERNMENTAL	208,367.72-				208,367.72-	100-
* GO-CHG CHARGES FOR SERVICES	110,600.00-	12,623.18-		12,623.18-	97,976.82-	89-
* GO-FINE FINES AND FORFEITURE	74,500.00-	6,787.03-		6,787.03-	67,712.97-	91-
* GO-MISC MISCELLANEOUS	225,000.00-				225,000.00-	100-
** GO-REV REVENUE	1,248,467.72-	19,410.26-		19,410.26-	1,249,057.46-	99-
* GO-SAL SALARIES AND WAGES	3,184,865.20	153,495.21		153,495.21	3,031,369.99	95
* GO-BEN EMPLOYEE BENEFITS	1,666,690.49	83,555.90		83,555.90	1,583,134.59	95
* GO-SS SERVICES AND SUPPLIE	8,353,530.39	491,485.67	1,260,034.43	1,751,520.10	6,602,010.29	79
** GO-EXP EXPENDITURES	13,205,086.08	728,537.39	1,260,034.43	1,990,571.81	11,214,514.27	85
** GO-OFIN OTHER FINANCING SOUR	144,000.00				144,000.00	100
*** Total	12,080,618.36	705,127.12	1,260,034.43	1,969,161.55	10,111,456.81	84

Community Support funds:

Period: 1 thru 16 2021 Fund: 000 Washoe County Funds
 Account: GO-P-L Fund Center: 151-0 Community Support

ACCOUNTS	Plan	Actual	PO Commit	Actual + PO	Available	Avail%
*** Total	219,761.00	5,625.00	11,200.00	16,825.00	202,936.00	92

TRUCKEE MEADOWS WATER AUTHORITY
(TMWA)

RESOLUTION NO. 288

**A RESOLUTION APPROVING PROJECTS
FOR FUNDING UNDER THE TRUCKEE RIVER FUND**

WHEREAS, the Truckee Meadows Water Authority and the Community Foundation of Western Nevada (the "Community Foundation"), a Nevada non-profit corporation, have entered into an agreement creating The Truckee River Fund (the "Fund") to foster projects that protect and enhance water quality or water resources of the Truckee River, or its watershed;

WHEREAS, pursuant to the Fund Agreement, an Advisory Committee has solicited proposals from prospective beneficiaries of the Fund;

WHEREAS, the Advisory Committee has recommended projects for funding, as listed on Exhibit A, attached hereto;

WHEREAS, the Advisory Committee has the responsibility of securing preliminary approval for projects from the TMWA Board, which may disapprove projects for any reason, or may approve projects by resolution, subject to Community Foundation Board approval;

WHEREAS, the Community Foundation has advised the Advisory Committee that the projects' applicants are eligible beneficiaries of the Fund;

WHEREAS, the Board has reviewed the recommendation of the Advisory Committee and has found that the projects as listed on Exhibit A are consistent with the purposes of the Fund and merit funding; and

NOW THEREFORE, BE IT RESOLVED by the Board of Directors of the Truckee Meadows Water Authority:

The projects set forth on **Exhibit A** are approved for funding under the Truckee River Fund in the amount set forth in such Exhibit, subject to final authorization by the Community Foundation Board, and subject to the provisions of the Fund Agreement, including without limitation the requirements set forth in Article VC.

Truckee Meadows Water Authority
Resolution No. 288 (continued)

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Truckee Meadows Water Authority,

Upon motion of _____, seconded by _____, the foregoing Resolution was passed and adopted on September 16, 2020 by the following vote of the Board:

Ayes: _____

Nays: _____

Abstain: _____ Absent: _____

Approved September 16, 2020

Vaughn Hartung, Chairman

STATE OF NEVADA,)
 : ss.
COUNTY OF WASHOE.)

On this 16th of September, 2020, Vaughn Hartung, Chairman of the Board of Truckee Meadows Water Authority, personally appeared before me, a Notary Public in and for said County and State, and acknowledged that he executed the above instrument freely and voluntarily and for the purposes therein mentioned.

Notary Public

Truckee Meadows Water Authority
Resolution No. 288 (continued)

EXHIBIT A

Project #236: Watershed Education Initiative for the Urban Truckee River Corridor

Organization: Sierra Nevada Journeys (SNJ)

Amount Requested: \$32,041

Amount Recommended: \$32,041

Organizational Match: \$7,959 (Cash)

Project Description:

Deliver high-quality, experiential watershed education programs based on water quality issues and invasive species along the urban Truckee River corridor to empower youth to take action for the protection and enhancement of the water quality of the Truckee River. To meet schools' needs in case of closures, we have a distance learning program in place called Sierra Nevada Journeys Virtual Classrooms that will still significantly engage students, teachers and parents with watershed education.

TMWA Benefit:

WEI is an education program that addresses water, water quality and watershed protection for K-8th grade students, directly aligning with grant priority VI: *Stewardship and Environmental Awareness*. Students gain first-hand experience with the Truckee River, explore human impacts on their water source, and obtain skills and knowledge to help protect the watershed. The overall long-term program impacts include:

- Students understand important science concepts related to the Truckee River watershed and can articulate how their actions affect the Truckee River watershed and local ecosystems.
- Students understand important science concepts related to the Truckee River watershed and can articulate how their actions affect the Truckee River watershed and local ecosystems.
- Teachers use extension lessons and implement more hands-on exploration of the watershed. Parents and community members engage in watershed education directly through WEI volunteer
- Health of the Truckee River watershed and local ecosystems improves as students and their families adopt environmental stewardship practices that help reduce water pollution and human impacts.

Project #239: 2021 Spring Great Community Cleanup, 2021 Fall Truckee River Cleanup, Adopt-A-River & Adult Outreach and Education

Organization: Keep Truckee Meadows Beautiful (KTMB)

Amount Requested: \$74,245

Amount Recommended: \$74,245

Organizational Match: \$144,805 (Cash) \$154,514 (In-Kind)

Truckee Meadows Water Authority
Resolution No. 288 (continued)

Project Description:

KTMB supports a clean and invasive weed-free community by educating and informing residents and visitors about the importance of maintaining a healthy river and watershed by removing litter and invasive weeds. Local park staff report that weed removal is often the most challenging aspect of their job. With current staff reductions, the incorporation of weed removal prior to weed seeding in the spring is vital and aligns perfectly with the timing of KTMB's Great Community Cleanup. The cleanup is designed to address both the direct and immediate presence of weeds, litter and nonpoint pollution runoff, and the underlying causes of these challenges by educating and engaging the community. The cleanups have shown to save tax payers money.

TMWA Benefit:

This project supports the TRF Grant Priorities V, V1, VII and VIII – Support to Rehabilitation of Local Tributary Creeks and Drainage Courses, Stewardship and Environmental Awareness, Meet Multiple Objectives, and Leverage Stakeholder Assets and Participation. KTMB educates and informs residents and visitors about the importance of maintaining a healthy river; how noxious weeds negatively affect native plant communities, habitats and watershed; how litter and pollution are harmful to human health, wildlife, the local environment and economy; and collaborates to create a cleaner community while saving taxpayer dollars.

Project #240: Truckee River Parks and Open Space Weed Management and Revegetation

Organization: Washoe County Regional Parks and Open Space

Amount Requested: \$45,000

Amount Recommended: \$45,000

Organizational Match: \$8,000 (Cash)

\$7,000 (In-kind)

Project Description:

This project would remove noxious and invasive weeds and reestablish native vegetation in Washoe County Park and Open Space areas along the Truckee River corridor. Project implementation would include weed inventory, GIS mapping and reporting, chemical and mechanical treatments, re-vegetation, and monitoring. A combination of Washoe County staff time, contracts, and volunteer efforts would be used to implement the project. An Integrated Vegetation Management (IVM) Plan was developed for Washoe County Parks in June 2020. Treatments would follow the guidance and recommendations in the IVM Plan to establish stable perennial plant communities which will help to improve fish and wildlife habitat, enhance recreational opportunities, improve water quality through soil stabilization, reduce fire hazard, and increase the visual quality of parks along the Truckee River.

Truckee Meadows Water Authority
Resolution No. 288 (continued)

TMWA Benefit:

The proposed project advances Truckee River Fund grant priorities II, IV, VII, and VIII. Managing noxious weeds and re-establishing native vegetation along the Truckee River corridor helps to improve water quality by stabilizing soils and reducing erosion potential and sedimentation as identified in Priority II. The proposed project advances Priority IV through re-vegetation of upland areas which will help to improve watershed resiliency and establish stable perennial plant communities within previously disturbed areas. The project meets multiple objectives as identified in Priority VII. Priority VIII is advanced through Washoe County's partnership with multiple stakeholders including the Nevada Land Trust, One Truckee River Partnership, Keep Truckee Meadows Beautiful, Nevada Department of Wildlife, Nevada Department of Agriculture, and Nevada Division of Forestry to identify restoration needs and leverage funding sources for projects in the Truckee River Corridor.

Project #241: Restoration: Coldstream Canyon and Bear Creek

Organization: Truckee River Watershed Council (TRWC)

Amount Requested: \$136,500

Amount Recommended: \$86,500

Organizational Match: \$34,125 (Cash)

Project Description:

The project will fill critical funding gaps in two restoration projects: the Coldstream Canyon Sediment Reduction Project and the Bear Creek Lower Meadow Restoration Project. Both projects will support the Truckee River TMDL by reducing excess sedimentation and improving hydrologic connectivity and watershed functionality.

The overall goal is to reduce erosion and excess sedimentation to the main stem Truckee River by:

- 1) Restoring impaired meadow/wetland systems on key tributaries to the Truckee River, and
- 2) Correcting drainage on improperly constructed roadways on the same key tributaries.

TMWA Benefit:

Watershed Improvements: The projects will decrease sedimentation and support attainment of the TMDL for Truckee River. Restoration will enhance watershed function and habitat by reducing erosion, restoring sensitive ecosystems and by decommissioning and restoring dirt roads.

• **Local Stormwater Improvements:** Extensive road networks within Coldstream Canyon have led to an increase in stormwater and associated pollutants entering the Truckee River. The project will increase hydrologic connectivity and on-site infiltration. Both the Coldstream Canyon and the Bear Creek projects will significantly enhance floodplain connectivity that will reduce impacts of excessive erosion to the Truckee River.

• **Meet Multiple Objectives:** The projects meet the objectives listed above. They also benefit meadow, riparian, and in-stream habitat, native fish and wildlife species, and carbon sequestration.

Truckee Meadows Water Authority
Resolution No. 288 (continued)

• **Leverage Stakeholder Assets and Participation:** Both projects leverage significant stakeholder participation and cost share from USFS and CDPR. Additional stakeholder input and prioritization is documented in the Coldstream Canyon (TRWC 2007) and the Bear Creek Watershed Assessment as well as in the Truckee River TMDL (LRWQCB, 2008).

Project #244: Encampment Clean-up and Unsheltered Individual Data Collection

Organization: Washoe County

Amount Requested: \$179,932

Amount Recommended: \$179,932

Organizational Match: \$77,650 (Cash)

Project Description:

This goal of this project is to improve Truckee River water quality by reducing the amount of pollution in the River as a result of encampments along and near the Truckee River with the eventual goal of drastically reducing the number of people camping along the River and provide those vulnerable populations with resources. Encampments result in the production of human waste, trash, medical waste and sharps (devices with sharp points or edges which are often also biohazards) being disposed in or near the Truckee River, instead of in an appropriate fashion that would keep waste out of the Truckee River. By creating relationships with unsheltered individuals, empowering them to participate in river-clean ups, and engaging them with the goal of moving into housing, the utilization of encampments along the Truckee River will be diminished.

TMWA Benefit:

The project advances the following TRF priorities: watershed improvements and leveraging stakeholder assets and participation. Controlling the flow of human created trash is critical to protect the health of the Truckee River. Trash generated by unsheltered individuals camping along the Truckee has a large impact on the health of the region's water source. The River Stewards Program will work directly with unsheltered individuals to clean up areas along the Truckee River. Additionally, in partnership with established local non-profit and government partners, the project will create a database of unsheltered individuals to better connect them to housing resources, with the eventual goal of drastically reducing the number of people camping along the River, a source of human fecal waste entering the river and reducing water quality.



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: John Enloe, Director, Natural Resources
DATE: September 9, 2020
SUBJECT: **Discussion and action, and possible direction to staff to explore potential future agreement(s) with City of Reno for implementation of American Flat Advanced Purified Water Demonstration Project and staff and cost sharing for water resource development work**

Recommendation: Subject to Reno City Council approval, authorize staff to explore potential future agreement(s) with City of Reno for implementation of the American Flat Advanced Purified Water Demonstration Project and related work, including staffing and cost sharing for water resource development work.

Summary

City of Reno and TMWA staff are interested in pursuing advanced purified water investigations as partners under a more formal process. To accomplish this effort, while at the same time ensuring equitability to our respective customers, Reno's and TMWA's responsibilities must be clearly defined. Responsibilities, staffing needs, and cost sharing agreements need to be developed for the following:

- Ongoing research and development efforts;
- Infrastructure planning, design, finance and construction of pre-treatment, pipe, pump, advanced treatment, recharge and recovery well facilities;
- Staffing needs, including long-term management, operations and maintenance;
- Future water resources, water rights management and potential water rights sales;
- Other matters as may be identified.

Assuming the TMWA Board supports staff's efforts and gives direction to explore potential future agreement(s) with City of Reno for implementation of American Flat Advanced Purified Water Demonstration Project and related work, and the Reno City Council provides similar direction at its meeting on September 23rd, staff's intention is to bring back a definitive agreement or agreements to the Board and Reno City Council for future consideration.

Discussion: OneWater Nevada is a unique effort initiated by the City of Reno, Truckee Meadows Water Authority, University of Nevada, Reno, City of Sparks, Northern Nevada Water Planning Commission, Western Regional Water Commission, and the Truckee Meadows Water Reclamation Facility to evaluate and determine if the State of Nevada's recently adopted Category A+ reclaimed water quality, or advanced purified water, offers regional long-range water supply benefits.

Category A+ reclaimed water quality is advanced purified water meeting the following water quality requirements:

- National Primary Drinking Water Regulations;
- Nevada Secondary Maximum Contaminant Levels;
- Specific Reductions for Pathogens;
- Additionally, NAC requires the development of a water quality monitoring program for unregulated constituents.

Conceptually, potential benefits from an advanced purified water system within the Truckee Meadows may include:

- Provide a local, reliable, drought-proof water source;
- Reduce reliance on the Truckee River;
- Enhances the region's water supply resiliency to help address future uncertainties of climate change, such as longer growing season, snowpack changes and runoff timing.

The ongoing Reno Stead Water Reclamation Facility Advanced Purified Water Feasibility Study (Feasibility Study) offers an opportunity to evaluate advanced purified water treatment technologies coupled with groundwater injection at a small and rigorously controlled pilot demonstration scale. The Feasibility Study proposes introducing advanced purified water in a localized and controlled portion of the Reno Stead - Lemmon Valley East hydrographic basin through an injection well at approximately 10 gallons per minute for up to 45 days. The final recharge portion of the Feasibility Study is expected to occur during September and October 2020, and continued favorable results are expected.

Concurrent to the Feasibility Study, the City of Reno has been considering several seasonal effluent storage options for Reno Stead Water Reclamation Facility (RSWRF) during the non-irrigation season as shown in the attached infographic. The main seasonal effluent storage options include: 1) aboveground open topped reservoir storage and 2) aquifer storage and recovery (ASR) of advanced purified water.

The aboveground effluent storage reservoir concept is known as the Red Rock Reservoir. Algae growth is expected when effluent is stored in an open topped reservoir. The reservoir would be sized to capture and contain precipitation and runoff from the contributing hydrobasin. Some of the stored water will be lost due to evaporation, which will slightly increase the salinity of the stored water. Other water quality impacts from algal growth include increased turbidity and algal-related organic matter. Therefore, additional treatment such as dissolved air flotation for algae removal and refiltration will be required when stored effluent is utilized for irrigation during the following irrigation season.

The ASR option is a field-scale (potentially 1 -2 MGD) groundwater recharge demonstration project led to date by TMWA and the OneWater Nevada team. The ASR project would involve injection of advanced purified water meeting the Nevada Category A+ exceptional quality requirements. Advanced purified water stored in the aquifer would initially be extracted and utilized for irrigation of the American Flat site. TMWA has performed a preliminary investigation of the ASR capacity at the American Flat site and found promising results. While ASR requires a higher level of treatment to achieve Category A+ standards, it does not require substantial retreatment steps and eliminates evaporation water loss and associated salinity increase.

The American Flat Advanced Purified Water Demonstration Project would require the following project elements:

1. Pretreatment facilities at RSWRF;
2. An advanced purified water facility to be constructed offsite or at the RSWRF site;
3. Conveyance pipelines;
4. Pump station improvements;
5. Injection wells; and
6. Extraction wells.

City of Reno and TMWA staff are interested in pursuing the advanced purified water investigations as partners under a more formal process. To accomplish this effort, while at the same time ensuring equitability to our respective customers, Reno's and TMWA's responsibilities must be clearly defined. For instance, responsibilities, staffing and cost sharing agreements would need to be developed for the following:

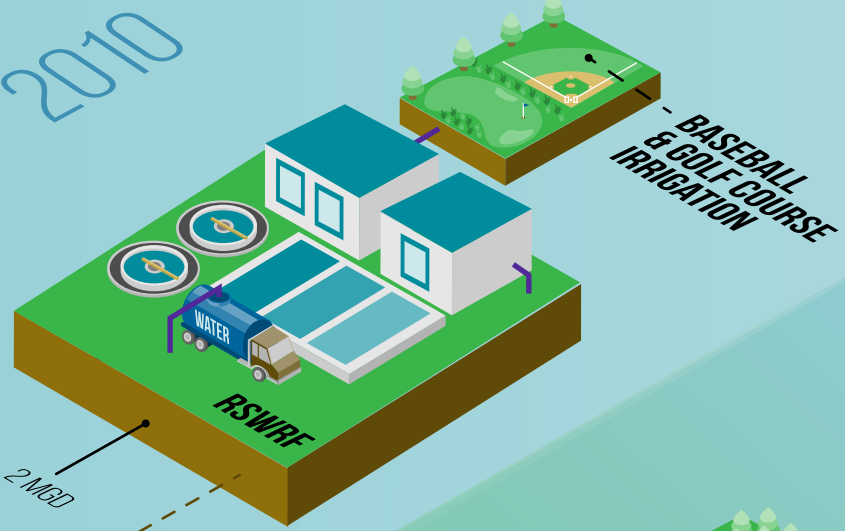
- Ongoing research and development efforts;
- Infrastructure planning, design, finance and construction of pre-treatment, pipes, pumps, advanced treatment, recharge and recovery well facilities;
- Staffing needs, including long-term management, operations and maintenance;
- Future water resources, water rights management and potential water rights sales;
- Other matters as may be identified.

Assuming the TMWA Board supports staff's efforts and gives direction to explore potential future agreement(s) with City of Reno for implementation of the American Flat Advanced Purified Water Demonstration Project and related work, and the Reno City Council provides similar direction at its meeting on September 23rd, staff's intention is to bring back a definitive agreement or agreements to the Board and Reno City Council for future consideration.

Fiscal Impact: None currently. Future financial considerations will be identified in a subsequent definitive agreement or agreements.

Attachment: RSWRF Infographic

2010



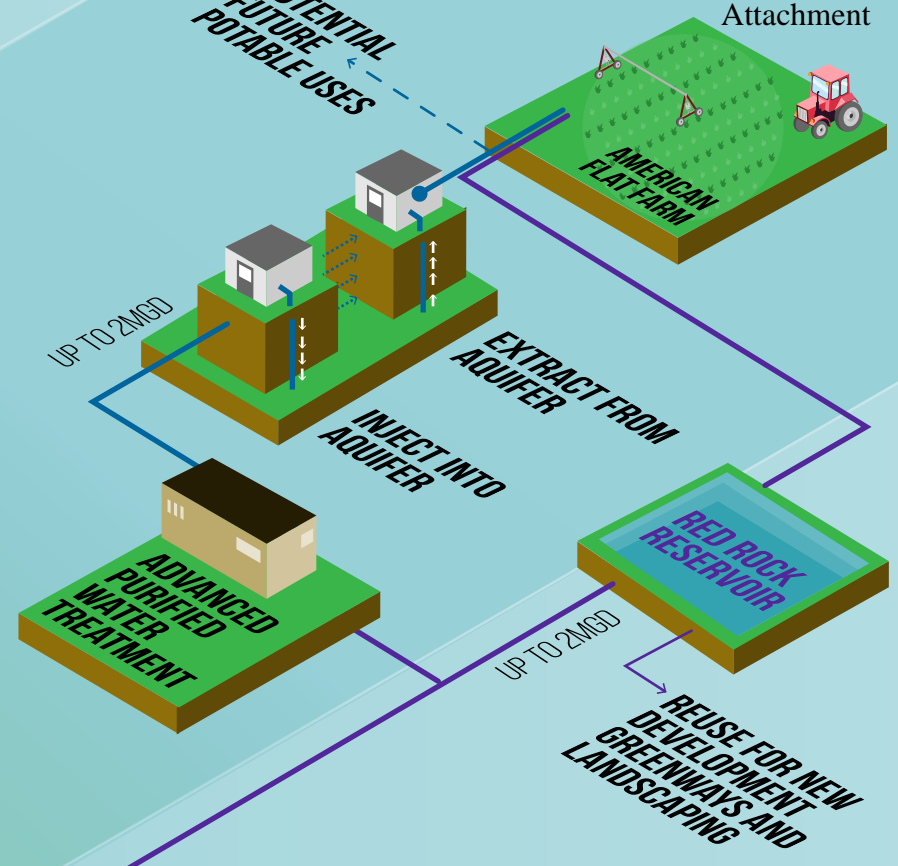
2020



2030

2020-2030 NORTH VALLEYS SEWER & EFFLUENT MANAGEMENT

POTENTIAL
FUTURE
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STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Jessica Atkinson, Human Resources Manager
DATE: September 8, 2020
SUBJECT: Discussion and action regarding General Manager performance review for contract year 2019/2020 and discussion and action on possible performance lump sum award and/or other compensation adjustment

Recommendation

The TMWA Board review the General Manager, Mark Foree’s performance results for the past contract year and consider a possible compensation adjustment beyond that which was provided for in Foree’s employment contract and became effective July 1, 2020. Additional compensation adjustments for consideration could include an adjustment to annual salary and/or lump sum award.

Discussion

In October 2019, the Board adopted the specific objectives that the General Manager would be working to accomplish during the contract year and that the Board would use to evaluate the performance of the General Manager. The General Manager’s evaluation report of accomplishments related to the goals set by the Board last year is shown in **Attachment 1**.

The results of the GM evaluation survey completed by 1) Board members and 2) Division/Department Heads (direct reports to GM) is shown in **Attachment 2**.

During the September 19, 2018 Board meeting, the TMWA Board approved for the General Manager’s salary to adjust to the “market” step on July 1, 2019 and automatically adjust each July 1 thereafter to the “market” step of the General Manager wage band.

Consistent with this direction, on July 1, 2020, Mark Foree’s salary was adjusted from \$231,342 annually to the “market step” of the General Manager wage band at \$237,311 annually. This 2020 adjustment totaled 2.58%.

The TMWA GM’s employment agreement (**Attachment 3**) limits the annual compensation adjustment (base salary adjustment plus any lump sum award) to 10% of current annual salary.

Note: On September 18, 2018, the Board approved Mr. Foree's employment contract to be effective beginning October 15, 2018 for a two-year term with an automatic two-year extension unless either party provides written notice not extend the Term of Employment to the other party no later than May 31, 2020. As neither party provided such written notice, Mr. Foree's term of employment will automatically extend for an additional two years beginning October 15, 2020 through October 15, 2022.



September 1, 2020

Mr. Mark Foree
General Manager, Truckee Meadows Water Authority
PO Box 30013
Reno, NV 89520-3013

Re: Notice of meeting of the TMWA Board of Directors to evaluate your performance, discuss your employment contract and consider your professional competence

Mr. Foree,

The TMWA Board, at its meeting scheduled for Wednesday, September 16, 2020 at 10:00 AM, will conduct an annual evaluation of your performance as General Manager. In addition, the TMWA Board will also be discussing your employment contract. In the process of these discussions, the Board may consider your professional competence and may take administrative action related to your compensation.

This public meeting will take place virtually via Zoom

URL: <https://tmwa.zoom.us/j/92983233708?pwd=QjJydXVGWWTN4d3B4dkQzNDQwQjZBQT09>,

Webinar ID: 929 8323 3708,

Webinar Password: 975223

or call: (888)788-0099

By signing below, you acknowledge personal receipt of this notice.

This notice is being provided to you in accordance with NRS 241.033.

Sincerely,

Vaughn Hartung, Chair

Truckee Meadows Water Authority Board of Directors

RECEIPT

Mark Foree acknowledges personal receipt of written notice of the foregoing as of September 9, 2020.

Mark Foree



STAFF REPORT

TO: Chairman and Board Members
FROM: Mark Foree, General Manager
DATE: August 26, 2020
SUBJECT: General Manager’s report related to performance on goals adopted by the Board for contract year 2019/2020

RECOMMENDATION

The TMWA Board review the General Manager’s performance results for the past contract year.

DISCUSSION

In September 2019, the Board adopted the following specific objectives that the General Manager would be working to accomplish during the contract year and that the Board would use to evaluate the performance of the General Manager. The following is a brief summary of results.

	GENERAL OBJECTIVES	RESULTS
A	Direct the preparation of and propose financial plans, investment strategies, funding plans and adjustments to rates and charges that will continue to keep TMWA in long term financial stability; including preparation of budgets and Capital Improvement Plans and financial reporting that comply with Nevada Revised Statutes and the Securities and Exchange Commission (SEC).	Fiscal budgets including the Capital Improvement Plan were prepared and presented to the Board for preliminary and final approval. Regular updates regarding financial picture and investments were presented. There was no bond refinancing done this fiscal year.
B	Develop proactive communications plans to address upcoming issues (e.g., topics affecting water supply, drought planning, regional water issues, utility water system consolidation and rate changes) and to keep all stakeholders including the Board, the employees, and the customers informed through a variety of mediums. Respond to media inquiries and provide informational interviews.	Communications were delivered through multiple media including newsprint, a myriad of broadcast interviews, various presentations before local groups and legislative sub-committees, bill print messages, bill inserts, TMWA’s e-newsletter, workshops and special events booths. Focus this year was on water supply, conservation, water quality, updates to TMWA’s developer fees and the Water Resource Plan. There were also communications around TMWA’s response to the coronavirus (COVID-19) pandemic regarding its operations, water quality, community outreach and employee safety.

GENERAL OBJECTIVES		RESULTS
C	<p>Continue having and improve on a community presence for TMWA through the Water Leadership program and participation in community committees, boards, and networking organizations and by providing presentations and information to these groups; offer Truckee River, Chalk Bluff Plant and/or other informational Tours to the community.</p>	<p>TMWA staff continues to participate in a multitude of organizations including Rotary, The Chamber, WaterStart, EDAWN, WIN, Nevada Water Innovation Institute (NWII), and participated in multiple community events. Presentations to schools and organizations like Rotary, the Builders Association of Northern Nevada (BANN), and homeowner’s associations (HOA’s) have touched on many topics including water supply, drought planning, conservation, development/growth and more. Due to the COVID-19 pandemic, TMWA had to cancel its third Smart About Water (SAW) Day event along with participating in other community events such as Earth Day and One Truckee River (OTR) month. Several outdoor public tours were given this year including numerous tours of the Chalk Bluff plant and the Verdi Hydroelectric power plant.</p>
D	<p>Continue to create a highly productive work environment and a highly motivated employee team by developing, training, retaining and recruiting the highest quality employees.</p>	<p>TMWA again achieved favorable rating of over 90% in our annual third party administered Customer Satisfaction Survey – this outstanding result is a tribute to TMWA’s talented and highly motivated employees. TMWA continues to maintain high certification levels for staff and provides both internal and external training opportunities, and despite the fact that the majority of conferences scheduled for the 2020 were cancelled due to the pandemic, continue to do so with virtual training. To further this endeavor, staff has engaged in ride-alongs with crew personnel, brown bag lunch sessions, and tours of our facilities. During the pandemic has TMWA continued operations at a Level 2 with the majority of employees working remotely or reporting directly to the field, virtual tours and employee sessions continued to keep employees engaged and connected.</p>
E	<p>Strive for continuous improvements in processes and operations targeting initiatives that will enhance revenues and/or reduce operating costs thus keeping customer rates as low as possible.</p>	<p>TMWA’s Operating Margin (Operating Revenue minus Expenses) ended up \$6 million more favorable than budget, while capital spend was approximately \$17.3m (30%) under budget. TMWA’s leadership regularly reviews operating costs compared to budget to help develop cost saving measures. TMWA has continued to manage operating revenues and expenses to budget to maintain low customer rates, especially during these unprecedented times of the coronavirus pandemic. Also, due to the impact of the pandemic on the community, TMWA suspended all shut-offs due to non-payment. Staff continues to communicate to our customers to let us know if they are experiencing hardship in order to set up a payment plan for any outstanding charges.</p>

ONGOING OPERATIONAL OBJECTIVES		RESULTS
a	Monitor federal legislation for opportunities to obtain funding for a variety of TMWA projects.	In fall 2019, TMWA applied for and received a Bureau of Reclamation (BOR) matching funds grant of \$1.8M dollars to evaluate the benefits of adaptively managing federal reservoirs on the Truckee River system during the winter months for improved water supply and flood control under a changing climate. This will be a three-year study and staff will provide updates to the Board when more information is made available.
b	Carefully analyze opportunities to acquire water rights and resources in the market in consideration of current inventory and financial constraints. Ensure adequate resources are available through TMWA’s Rule 7 as directed by the Board at the August 15, 2019 Water Resource Plan workshop.	Staff proposed changes to TMWA’s Rule 7 demand estimates based on an analysis of water usage data for single-family and multi-family customers, which showed a statistically significant downward trend in water usage. Changes to Rule 7 demand estimates will yield more efficient allocation of resources. After presentations to the Board, SAC and public outreach, the Board approved the proposed amendments to TMWA’s Rule 7. In addition, staff proposed to include a limit on the maximum allocation that could be purchased from TMWA’s Rule 7 inventory to obtain a will-serve commitment from TMWA without General Manager approval. The Board approved the amendments at its February meeting.
c	Provide staff support to the SAC, Truckee Meadows Community Forestry Coalition and the Truckee River Fund (TRF) Advisors and ensure communications regarding TRF projects.	This was done.
d	Manage and direct activities relative to legal issues, keeping the Board informed on all such matters.	This was done.
e	Update TMWA Administrative Instructions as required to ensure they are compliant with applicable laws and current practices. Deliver updates to the Board and employees, and implement the changes.	Staff is currently working on updating the TMWA Administrative Instructions which will be presented to the Board at a later date.
f	Minimize cost impacts to customers by maximizing investment and hydroelectric income, pursuing revenue enhancement and collection opportunities, pursuing process improvements and projects that drive savings in TMWA expenses, and actively pursuing grant/low-interest loan funding for projects.	TMWA generated almost \$3.3million in hydroelectric revenue this year and plant availability was at 100% with exception of our one force majeure event. TMWA meets regularly with investment managers to optimize investment returns while ensuring compliance with TMWA’s investment policy. These items along with recurring operating cost reviewed by management will keep TMWA’s rates as low as possible.

SPECIFIC OBJECTIVES		RESULTS
1	Develop customer conservation communications plan for the 2020 irrigation season, including water supply planning, and detailed public/customer communications/outreach plan - present to the SAC for their recommendation and Board for approval no later than the April Board Meeting.	The communication plan was completed and implemented by staff at the outset of the irrigation season/per the General Manager’s authority. Due to COVID-19 and timing of the irrigation season, the plan was not presented to either the Board or SAC. This plan continues to follow the approved 2016-2035 WRP. As of June 30, 2020, all of TMWA’s reservoirs were close to capacity even with the below average e winter snowpack and runoff. Despite a lackluster snowpack year and a below average runoff season, Lake Tahoe came withing a foot from filling. All of the other upstream reservoirs on the Truckee River system also fared well this last fiscal year and the region was positioned well from water supply perspective with normal river flows projected for the next couple of years. With Lake Tahoe in good shape and normal river flows, additional conservation efforts from our customers were not required. Advertising and messaging focused on continued responsible water use, and amidst the pandemic, water quality, operations and ensuring customers they will not be shut-off for non-payment. The effort has been successful in changing the dialogue with customers by taking a more proactive stance in educating and informing the community. The campaign continues to be well received by our customers.
2	Complete 2020-2040 Water Resource Plan (WRP) and related outreach plan as reviewed and directed by the Board in previous Board meetings, including the August 2019 workshop; complete public process and provide completed plan to the SAC for their recommendation and to the Board for approval/adoption; forward adopted plan to the Western Regional Water Commission (WRWC) for incorporation into the Regional Water Management Plan.	TMWA staff successfully drafted the 2020-2040 Water Resource Plan and presented to the Board at its June 2020 meeting, the Northern Nevada Water Planning Commission (NNWPC) and Western Regional Water Commission (WRWC) meetings in July, the SAC August meeting, and held virtual public outreach webinars via Zoom and Facebook Live. The public response was very positive and feedback encouraging. Staff considered all comments and made appropriate edits to the plan. The final draft will be presented to the Board in October for final approval.

SPECIFIC OBJECTIVES		RESULTS
3	<p>Continue working with city and county staff regarding regional water issues (including wastewater, effluent management stormwater, etc.), regional economic development initiatives, etc. including the OneWater Nevada initiative that includes pilot testing and analysis related to infiltrating or injecting highly treated wastewater into the ground for later use, analysis related to possible construction of an effluent pipeline connection between TMWRF and STMWRF, etc.</p>	<p>TMWA staff has continued to work extensively with the cities and county, Tahoe Reno Industrial General Improvement District (TRIGID), Switch and Google regarding the planned delivery of reclaimed water to the TRIGID system for industrial use, with a focus on water rights and the return flow management agreement. TMWA continues in a leadership role along with OneWater Nevada and UNR to investigate the feasibility of groundwater augmentation using Category A+ advanced purified reclaimed water. Staff successfully managed the implementation and operation of a small scale advanced purified water pilot treatment process at the RSWRF this year. Recharge of the A+ water is planned for September and October. Although the Bedell Flat site was determined not to be conducive to infiltration or injection, assessments of the hydrogeologic feasibility of infiltrating or injecting advanced purified reclaimed water in Stead, Cold Springs and other areas continues. TMWA staff continues to provide technical support to the Regional Effluent Management Team (made up of representatives from the Cities of Reno, Sparks, Washoe County, UNR and WRWC) in evaluating various effluent management strategies. Also, in June the Board approved a new Rate Schedule to allow TMWA to provide Interruptible Large Volume Non-Potable Service, which in TMWA's discretion, can be used for temporary irrigation or for instream flow so that customers can use reclaim water from Reno or Sparks on a temporary basis for certain projects such as construction dust control.</p>
4	<p>Continue analyzing water supply options related to fringe area development where private systems exist, make recommendations to Board and follow Board direction regarding same.</p>	<p>Staff engages in ongoing coordination with Great Basin Water Company in Cold Springs and Spanish Springs Valley. Staff continues to analyze water supply options related to fringe area development where private systems exist and will bring any recommendations to the Board when they arise.</p>

SPECIFIC OBJECTIVES		RESULTS
5	Monitor and participate in Legislative activities during the 2020 interim, prepare and deliver presentations to Legislative Committees as requested, schedule meetings with staff, Board legislative committee members, lobbyists and legislators, keep the Board updated and informed regarding legislative matters, and pursue Board direction regarding Legislative issues. Facilitate open communications between legislators and the TMWA Board.	Monitored interim legislative activities and worked closely with TMWA legal counsel and lobbyists, provided updates to TMWA’s Legislative Subcommittee. Also, TMWA staff met with legislators regarding TMWA’s priorities, draft water resource plan, involvement in working with the Nevada Department of Administration regarding the beneficial use of water from the Marlette Lake water system, TMWA’s climate change analysis and interest in potential legislation regarding renewable energy generation. TMWA continues to monitor regulatory action regarding Assembly Bills 30 and 62 from the 2019 session. In addition, TMWA has met with NDEP to address analyzing improvements to the Central Truckee Meadows Remediation District program and the review process with Washoe County Health District for water projects.
6	Update the 5-year Funding Plan and present to the SAC and the Board. Propose Board actions based on the results of the planning cycle updates. Implement Board direction with regard to funding plan outcomes.	This was done at the Board Strategic Planning Workshop in October 2019.
7	Analyze TMWA’s financial position in regard to the implementation of the third phase of rate adjustment (previously deferred one year and now scheduled to go into effect in May, 2020 – approved by the Board in April, 2017) and provide a report to the Board prior to the scheduled implementation date.	At the January 2020 meeting the Board confirmed the implementation of the third phase rate adjustment of 2.5% for May 2020. However, given the situation in the community due to the COVID-19 pandemic, at its April 10 Board meeting, staff revisited the rate adjustment and presented different scenarios (one of which is to utilize up to \$3M of the Rate Stabilization Fund) for the Board to reconsider the already approved May 2020 rate increase. Encouraged by TMWA’s strong financial position, the Board approved to defer the 2.5% rate increase to September 2020 and for staff to return in August prior to implementation with the current financial situation for possible reconsideration. At the August meeting, the Board approved deferring the 2.5% rate increase to May, 2021.
8	Analyze the need for any necessary rule changes, water facility charge adjustments, etc. and report results of analysis to the SAC and Board of Directors and follow Board direction regarding same.	Water facility charges were analyzed in detail following completion of the Water Facility Plan (WFP) update. The proposed developer fee revisions for TMWA rate schedules Business Serves Fees and Water System Facility Charges went into effect October 1, 2019.

SPECIFIC OBJECTIVES		RESULTS
9	Continue to develop/refine strategies to optimize conjunctive use of surface water and groundwater resources; further develop/refine drought supply operational strategies; and implement plans.	TMWA continues to recharge groundwater to support water quality improvement goals. TMWA is working with the Nevada Division of Water Resources and the Nevada Division of Environmental Protection for permit coverage on 27 additional wells. Through conjunctive use, groundwater pumping was reduced by almost 2,500 acre-feet between the Mt. Rose, Spanish Springs, Lemmon Valley and former STMGID areas, and 409 acre-feet was recharged system-wide during FY 2020
10	Continue to develop, refine and implement strategies to mitigate pre-merger groundwater conditions on the Mt. Rose fan including completion of construction and starting up the Mt. Rose Water Treatment Plant.	TMWA has reduced groundwater pumping on the Mt Rose fan by 30% last year, and by almost 40 % over the last five years compared with pre-merger pumping volumes and has seen regional groundwater levels rise by 15 to 20 feet. TMWA is in the final stages of construction of the Mt. Rose Water Treatment Plant (scheduled to be operational in late fall 2020).
11	Provide all necessary and requested information to the Board regarding sale of the Farad property and proceed with and complete the sale based on the terms and conditions approved by the Board.	Staff presented an updated resolution to the Board at its September 2019 meeting. The resolution did not pass and was presented again at the October 2019 Board meeting at which time the Board approved the sale of the Farad property to Mr. Bill Black for \$127,500. The sale closed January 15, 2020.
12	Complete the analysis and feasibility and cost of using existing TMWA water rights to A) increase the generation output at the Fleish hydro and B) to install a hydro generation facility at the Highland Canal at Chalk Bluff and provide a report and recommendation to the Board.	<p>TMWA staff presented the feasibility study and potential costs of adding a hydro generation facility provided by Kleinschmidt. All analysis was completed with a conservative approach including considerations to TROA, historical hydrologic data as well as current costs of construction. The project costs are estimated at \$5.6M and no additional permitting through the Federal Energy Regulatory Commission is required because it would be a “Qualifying Conduit Hydropower Facility.” The Board approved the project at its February meeting and requested staff to ensure stakeholder input is considered along with the permitting agencies. To date we have received approvals from Nevada State Lands, Army Corps of Engineers, and NDEP for utilizing the current Orr Ditch River structure for bi-directional flows accommodating the pump station intake and hydro outflow. This project will be incorporated into the design of the new Orr Ditch Pump Station combining them into one project for cost savings.</p> <p>Currently proposals have been received from all of our design team consultants and are under review by TMWA’s Engineering department.</p>

SPECIFIC OBJECTIVES		RESULTS
13	Continue to refine TMWA's succession plan (as reviewed with the Board at the August 2019 meeting) related to retirements that are expected to occur within the next five years and continue implementation of the plan. Focus on leadership team retirements.	Based on the succession plan presented to the Board at its August 2019 meeting, staff has continued to address the needs in each department which will experience many retirements over the next few years as well as addressing employee professional development needs.



General Manager Performance Evaluation for FY2020

Introduction

The General Manager's performance evaluation consists of an annual appraisal by the Board of Directors, as provided for in the General Manager's employment agreement.

The purpose of the evaluation process is to maintain a strong Board/Manager team by ensuring open and productive communication on an annual basis. During this formal review process, there is an opportunity to identify areas of satisfaction and areas for growth or needing change as identified by the Board.

The evaluation will be completed by each member of the Board.

The Executive Team and Department Heads reporting to the General Manager have been invited to participate in this performance review process.

The Human Resources Manager is the facilitator for this process, and will gather input from the confidential survey completed by each of the above-referenced individuals. A staff report and the summary results from the evaluation survey will be provided as supporting materials for the public meeting at which the TMWA Board reviews the annual performance of the General Manager.

Rating Criteria:

For each performance criteria, please use the following rating scale:

- E – Exceeds your expectations
- M – Meets your expectations
- AG - Areas for growth
- NA – Not applicable

**Truckee Meadows Water Authority
General Manager Performance Evaluation
Survey Data Summary Sheet**

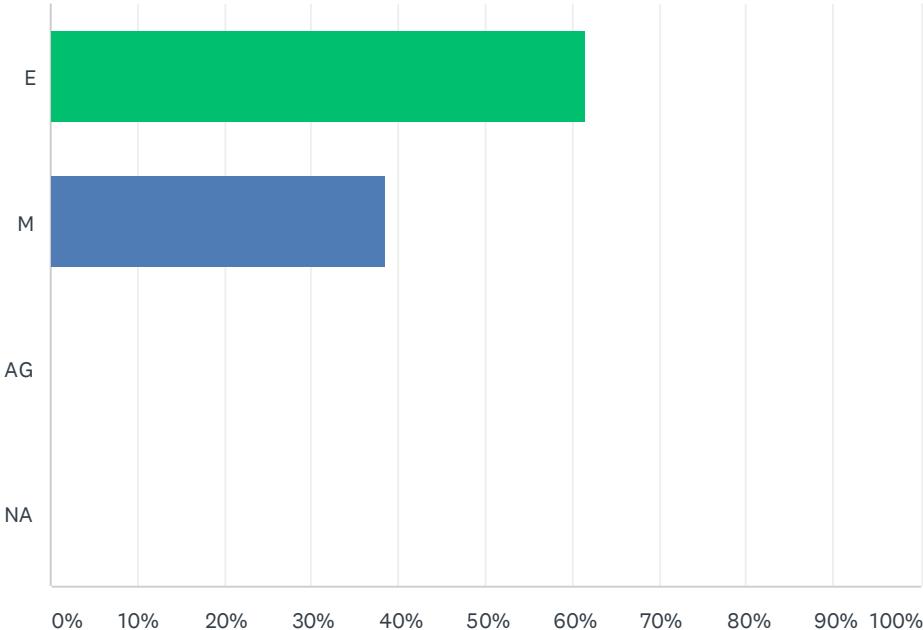
Rating Scale				
E-Exceeds your expectations				
M-Meets your expectations				
AG-Areas for growth				
NA-Not Applicable				
# of Responses				Criteria
E	M	AG	NA	
Interpersonal Skills & Relationships				
8	5	0	0	1. Ability to relate well to others and to make people feel at ease, even in difficult times.
9	4	0	0	2. Ability to gain the trust and confidence of the public; fosters contact and cooperation among citizens, community organizations and other government agencies.
11	1	1	0	3. Understands and embraces the concept of inter-local cooperation when appropriate.
6	5	1	1	4. Fosters cooperative communication and working relationships with the Board.
8	5	0	0	5. Has the ability to utilize appropriate media for communication – Internet, social media, TV, radio, newspaper, Board meetings, group interactions, Individual meetings.
8	4	1	0	6. Skilled in negotiation techniques in a variety of scenarios – employee, Board, public, interagency, outside entities.
9	3	0	1	7. Demonstrates sensitivity and empathy towards individuals or groups as appropriate.
11	2	0	0	8. Is forthright and honest in all relationships.
Communication Skills				
E	M	AG	NA	
8	5	0	0	9. Verbal Communication Skills – Good command of oral expression; expresses ideas clearly and concisely; easily comprehends ideas expressed by others; able to explain and understand difficult and complex subjects.
9	4	0	0	10. Written Communication Skills – Good command of written expression; expresses ideas clearly and concisely; easily comprehends ideas expressed by others; able to explain and understand difficult and complex subjects through written media.
7	6	0	0	11. Presentation skills – Is able to prepare and present quality presentations using a variety of tools and media; presentations are effective and visually appealing.
Innovation				
E	M	AG	NA	
10	3	0	0	12. Participates with Board and staff in strategic planning
11	2	0	0	13. Exhibits a forward-thinking approach, both in the short and long term.
7	5	0	1	14. Utilizes effective project management techniques.
4	6	0	2	15. Sets objectives for personal performance and manages toward those objectives.
9	3	0	1	16. Completes projects agreed upon with Board within given time frame.
Leadership				
E	M	AG	NA	
10	2	0	1	17. Coaches, mentors and manages in accordance with TMWA Values and Vision.
12	0	1	0	18. Uses sound judgment in decision making. Seeks out relevant and necessary data.
10	2	0	0	19. Makes decisions in a timely manner.
9	4	0	0	20. Directs Utilization of TMWA resources effectively.
7	6	0	0	21. Directs the TMWA customer service goals and initiatives, both internally and externally.
11	2	0	0	22. Emergencies and crisis situations are handled in an effective, efficient and professional manner.
5	7	0	1	23. Stays current on management practices and techniques.
6	5	0	2	24. Actively pursues ways to increase his value to TMWA.
Management of Staff				
E	M	AG	NA	
12	1	0	0	25. Able to delegate authority appropriately, granting proper authority at proper times.
9	4	0	0	26. Utilizes a positive approach to direct work efforts of staff.
7	5	0	1	27. Addresses employee issues promptly and effectively, utilizing progressive discipline.
11	2	0	0	28. Encourages and rewards initiative.
11	1	0	1	29. Promotes cohesive teamwork with the TMWA Senior Management Team.
255	104	4	12	Total number of responses by rating, all questions combined
70%	29%	1%	NA	Total % of responses by rating, all rated questions combined

30. What are you most pleased with in the General Manager's Performance?	
1	Mark is extremely approachable. He is a good listener and moves out to implement board initiatives. I was particularly impressed with the direction of the new Water Plan. It is a complete overhaul and addresses our current needs more appropriately.
2	Mark has the ability to clearly see the future of the organization and implement a plan to reach the goal.
3	Mark looks for every opportunity to make the organization stable and sustainable through the steady management of TMWA's finances coupled with the ongoing planning process via the Water Resource Plan and the 5 year Capital Improvement Plan. Further, he has consistently demonstrated a sincere personal interest in all of TMWA's employees while emphasizing the need for extremely high quality customer service which has yielded a 90+% approval rating year after year.
4	This has been a year of uncertainty to say the least. Mark has done an outstanding ensuring continued operations and employee safety. He has been great at initiating communication and soliciting feedback.
5	As always, his openness.
6	Mark understands the details and nuances of TMWA, and he can deal with a large variety of situations effectively. Mark is open to new ideas, and he supports his staff in challenging situations. Mark has developed an effective leadership team, and allows the organization to adapt to the strength of its employees. He is honest, and he always works to achieve the best outcome for our customers, employees and the region.
7	He trusts his staff and allows them to demonstrate an appropriate level of responsibility
8	Organizational skills, always looking for the best in staff and relations with the public
9	He has the ability to see the larger picture of what we do for the region and the detailed understanding of what is needed for a single project. That is a great balance and touch skill to find in someone.
10	TMWA is a leader in community initiatives and resource planning.
11	He has a very broad knowledge base, and understands all facets of the business
31. What area for growth would you like to see? Please provide specific suggestions on how the General Manager may improve the areas for growth.	
1	One thing Mark could "work on" is his initial response to new ideas. He is appropriately cautious - which is good - but I'd like to see him more receptive from the get go. This applies both internally and externally.
2	Continue to foster strong relationships throughout the organization and the community.
3	Mark is a self starter and has surrounded himself with recognized, high quality industry professionals in every discipline. I am pleased with his management style and the organization's direction.
4	Nothing of significance comes to mind.
5	I haven't found any holes in this gentleman's character or methods of management.
6	Continue to work as a region. Working with the Health department, continued steps with accelera
32. Goals for 2020-2021	
1	None at this time - but will discuss at meeting.
2	1. Continue working alongside regional partners to maintain a safe and sustainable water supply for our region. 2. Study areas to lower operating costs.
3	1. Continue effectively managing TMWA's water resources for long-term stability and sustainability. 2. Continue emphasizing TMWA's long-term financial stability and sustainability. 3. Continue working on operational efficiencies. 4. Continue working on TMWA's infrastructure rehab schedule throughout the region. 5. Continue emphasizing TMWA's brand through the delivery of an extremely high quality product and great customer service. 6. Continue supporting the need to maintain our Green Energy Hydroelectric facilities for future generations while acting as an offset to lower current customer rates. 7. Continue planning for the Green Energy Highland Canal Hydroelectric project to ensure Chalk Bluff's energy independence while providing yet another offset to lower customer rates. 8. Continue working with UNR's Water Innovation Institute and Regional Partners to perfect forward thinking treatment and reuse programs that could lessen our need of natural water resources from the Truckee Meadows and the Truckee River Water Shed.
4	Continue to work towards implementation of succession planning within the organization, with the goal of maintaining the TMWA culture of excellence and teamwork. Continue to advance regional collaboration with the other local governments. Continue to oversee the management of TMWA's strong financial condition and efficient business practices.
5	Just stay the course

6	Help our region go completely Digital in plan review by making sure we are solid and heading in the correct direction.
Any Additional Comments	
1	Both Mark and the agency are doing a terrific job! I believe TMWA is one of the best managed agencies in the Truckee Meadows.
2	Great job Mr. Foree! Keep up the good work, you're on the right track!
3	I am truly grateful for Mark's leadership. He is someone that can be relied upon and trusted to do the right thing and deliver results no matter what he is presented with.
4	I enjoy working for Mark.
5	TMWA is a great place to work, it starts at the top.
6	Proud to be involved with this organization as a director
7	I appreciate all the dedication and work that our general manager does. He gets a 10 from me.

Q1 Ability to relate well to others and to make people feel at ease, even in difficult situations.

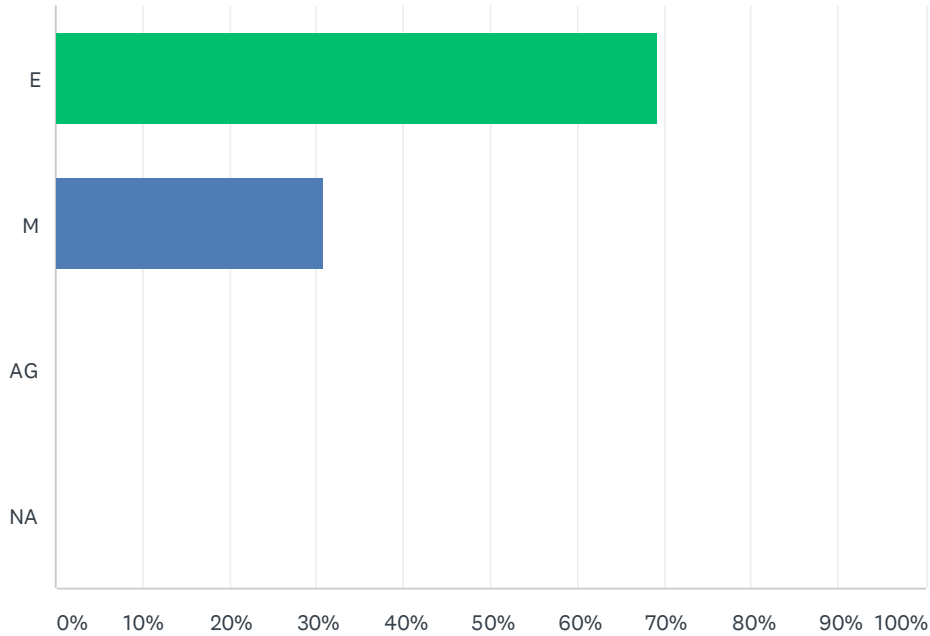
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	61.54%	8
M	38.46%	5
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q2 Ability to gain the trust and confidence of the public; fosters contact and cooperation among citizens, community organizations and other government agencies.

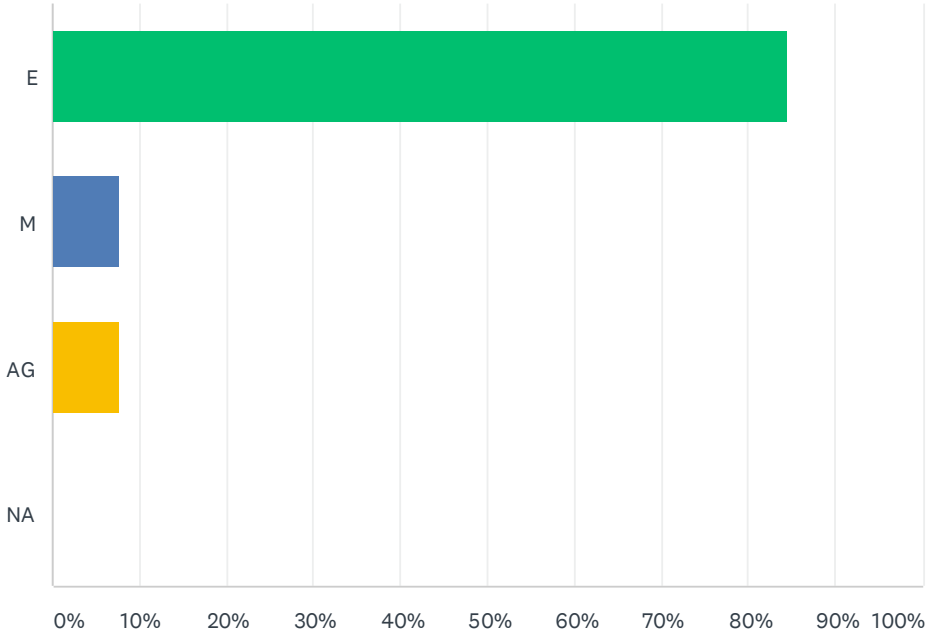
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	69.23%	9
M	30.77%	4
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q3 Understands and embraces the concept of inter-local cooperation when appropriate.

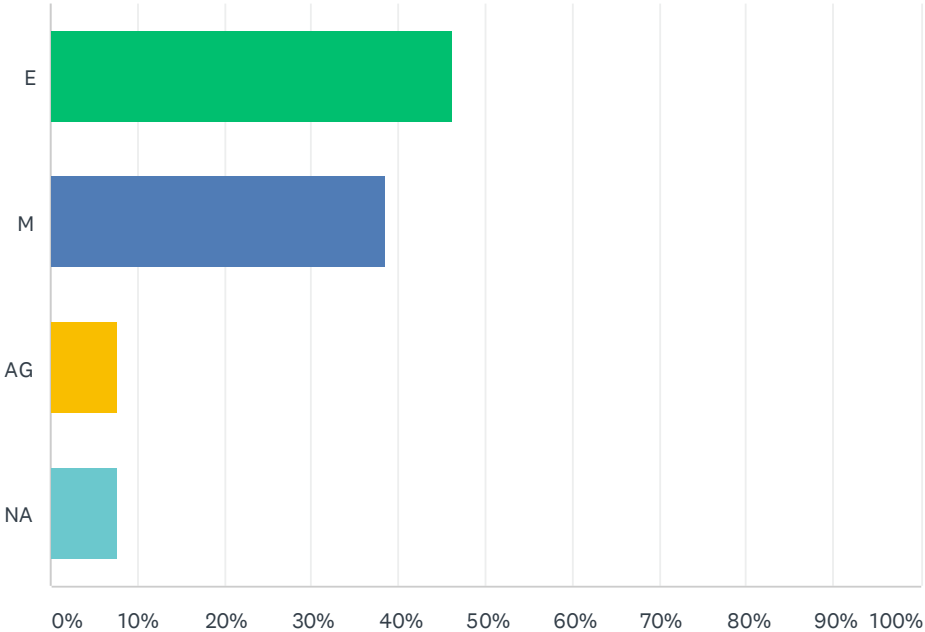
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	84.62%	11
M	7.69%	1
AG	7.69%	1
NA	0.00%	0
TOTAL		13

Q4 Fosters cooperative communication and working relationships with the Board.

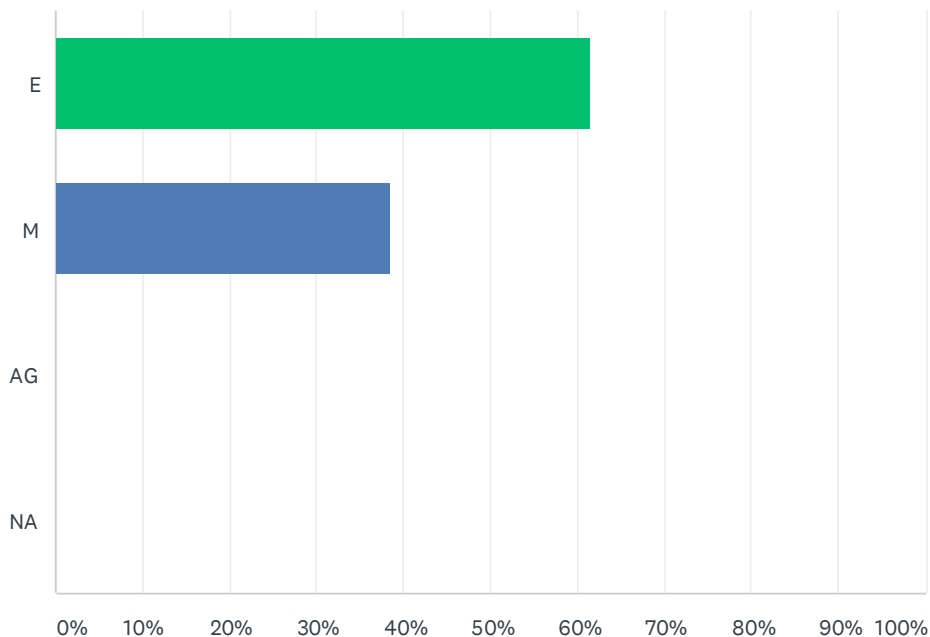
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES
E	46.15% 6
M	38.46% 5
AG	7.69% 1
NA	7.69% 1
TOTAL	13

Q5 Has the ability to utilize appropriate media for communication - Internet, social media, TV, radio, newspaper, Board meetings, group interactions, individual meetings.

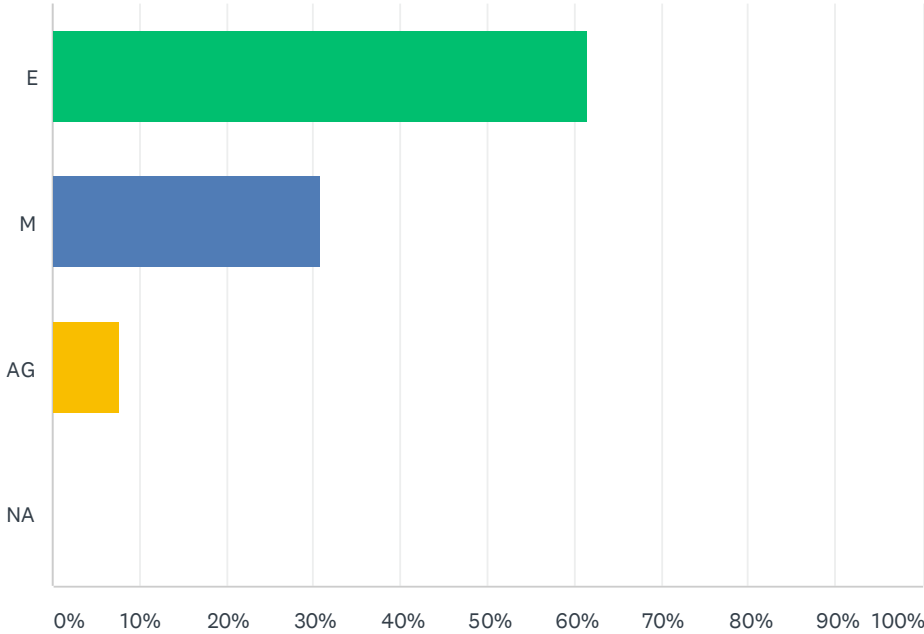
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	61.54%	8
M	38.46%	5
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q6 Skilled in negotiation techniques in a variety of scenarios - employee, Board, public, interagency, outside entities.

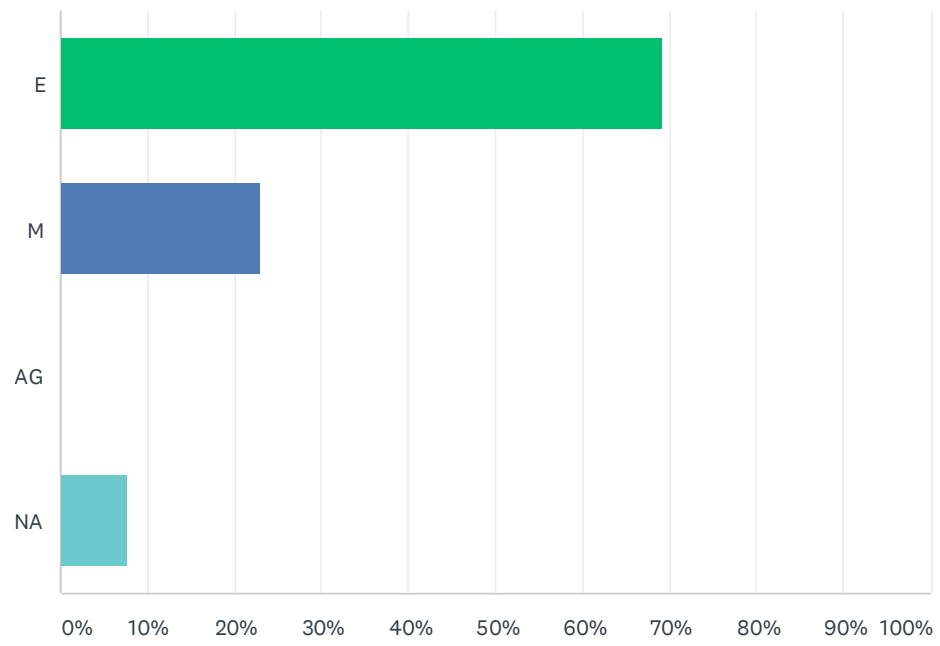
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ANSWER CHOICES	RESPONSES
E	61.54% 8
M	30.77% 4
AG	7.69% 1
NA	0.00% 0
TOTAL	13

Q7 Demonstrates sensitivity and empathy towards individuals or groups as appropriate.

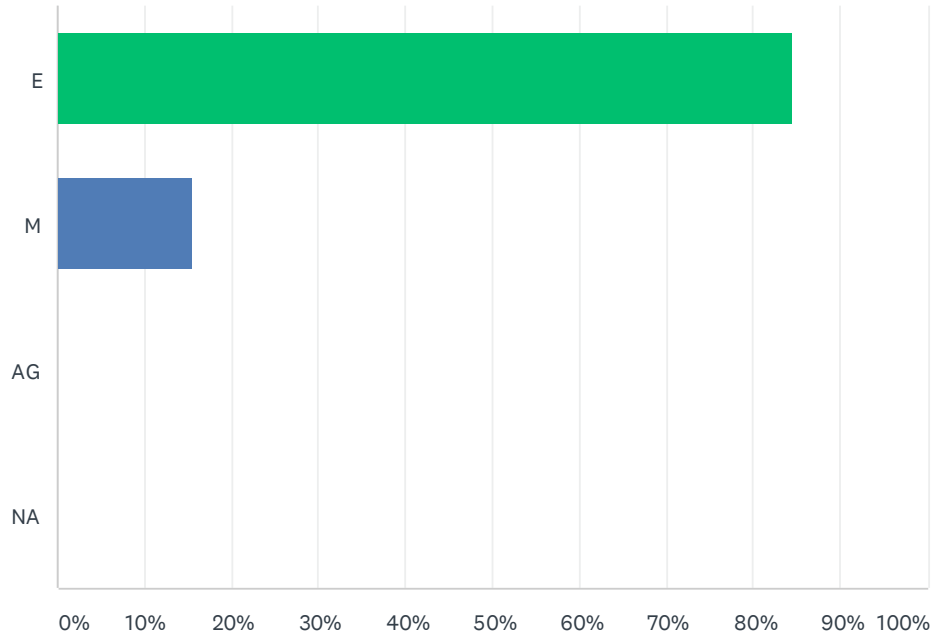
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	69.23%	9
M	23.08%	3
AG	0.00%	0
NA	7.69%	1
TOTAL		13

Q8 Is forthright and honest in all relationships.

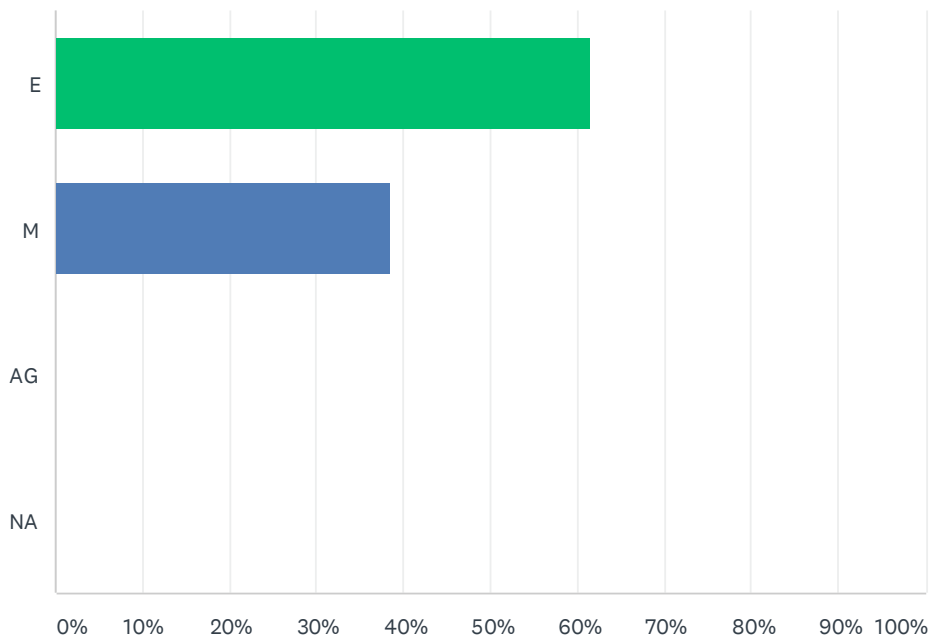
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ANSWER CHOICES	RESPONSES	
E	84.62%	11
M	15.38%	2
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q9 Verbal Communication Skills- Good command of oral expression; expresses ideas clearly and concisely; easily comprehends ideas expressed by others; able to explain and understand difficult and complex subjects.

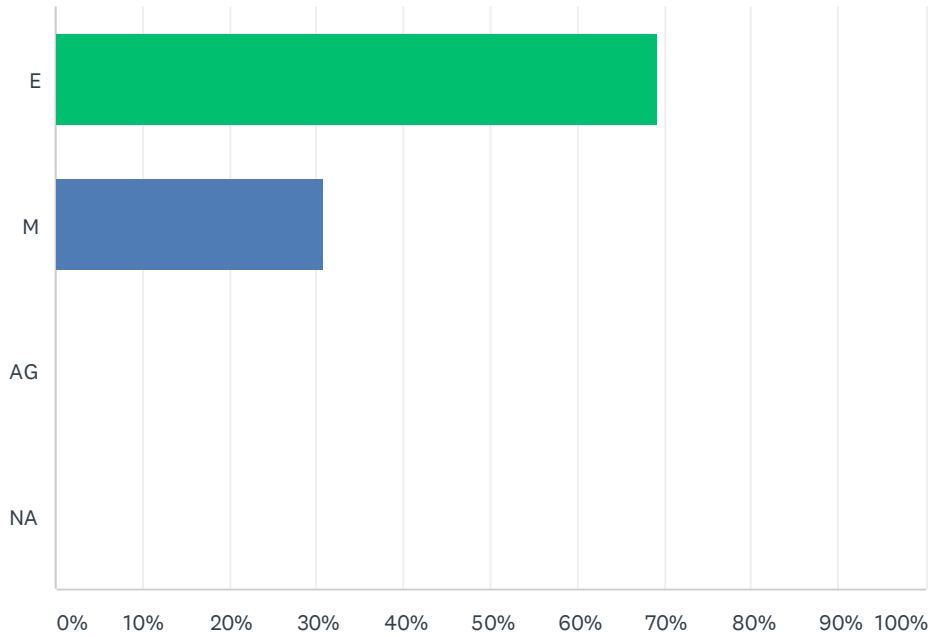
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ANSWER CHOICES	RESPONSES	
E	61.54%	8
M	38.46%	5
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q10 Written Communications- Good command of written expression; expresses ideas clearly and concisely; easily comprehends ideas expressed by others; able to explain and understand difficult and complex subjects through written media.

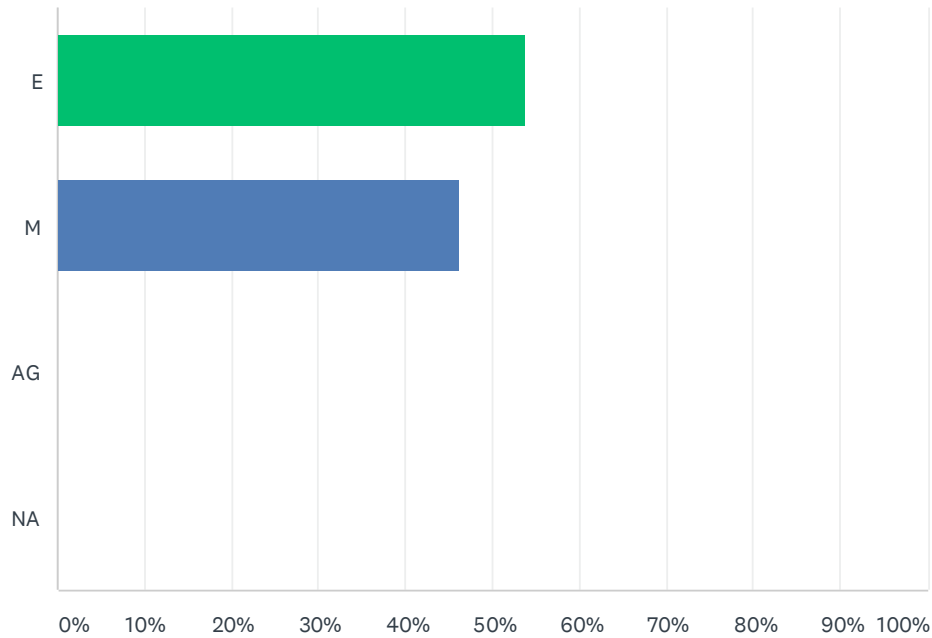
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	69.23%	9
M	30.77%	4
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q11 Presentation Skills- Is able to prepare and present quality presentations using a variety of tools and media; presentations are effective and visually appealing.

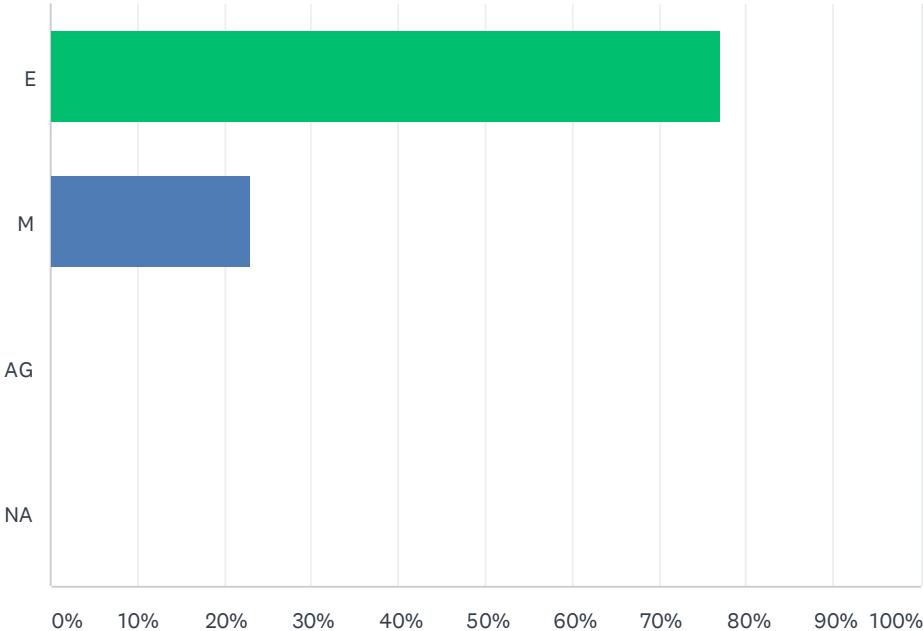
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES
E	53.85% 7
M	46.15% 6
AG	0.00% 0
NA	0.00% 0
TOTAL	13

Q12 Participates with Board and staff in strategic planning.

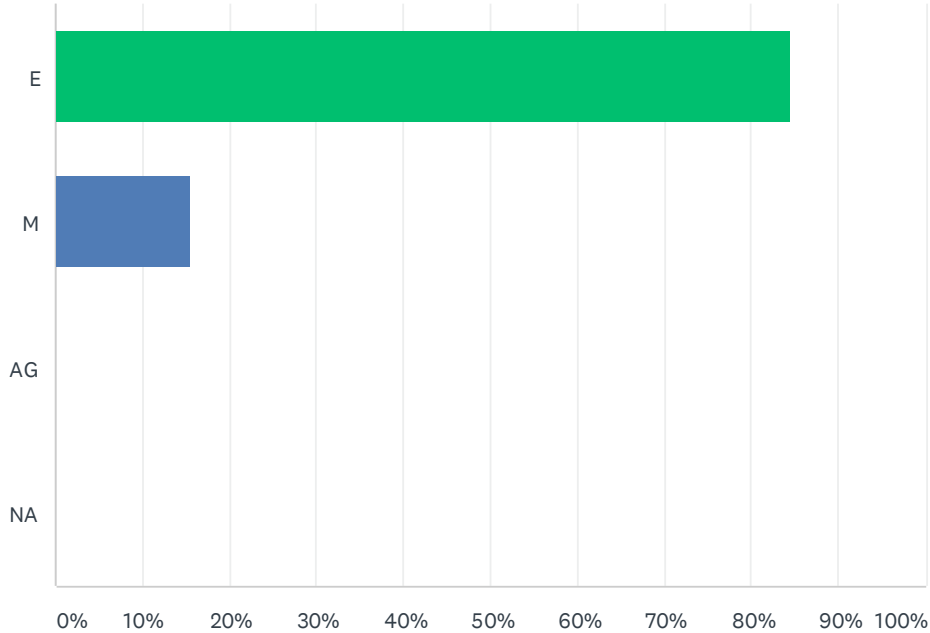
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ANSWER CHOICES	RESPONSES	
E	76.92%	10
M	23.08%	3
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q13 Exhibits a forward-thinking approach, both in the short and long term.

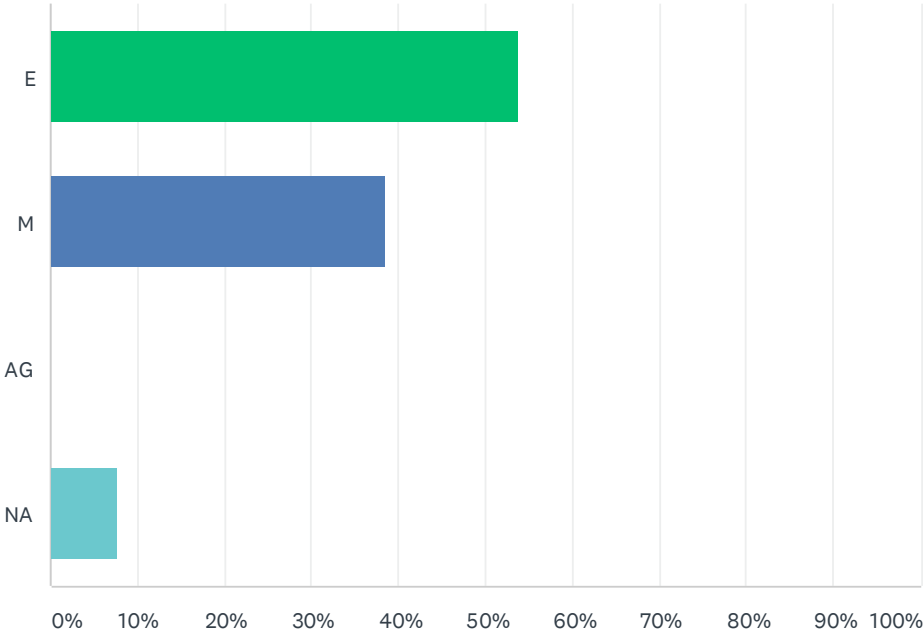
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ANSWER CHOICES	RESPONSES	
E	84.62%	11
M	15.38%	2
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q14 Utilizes effective project management techniques.

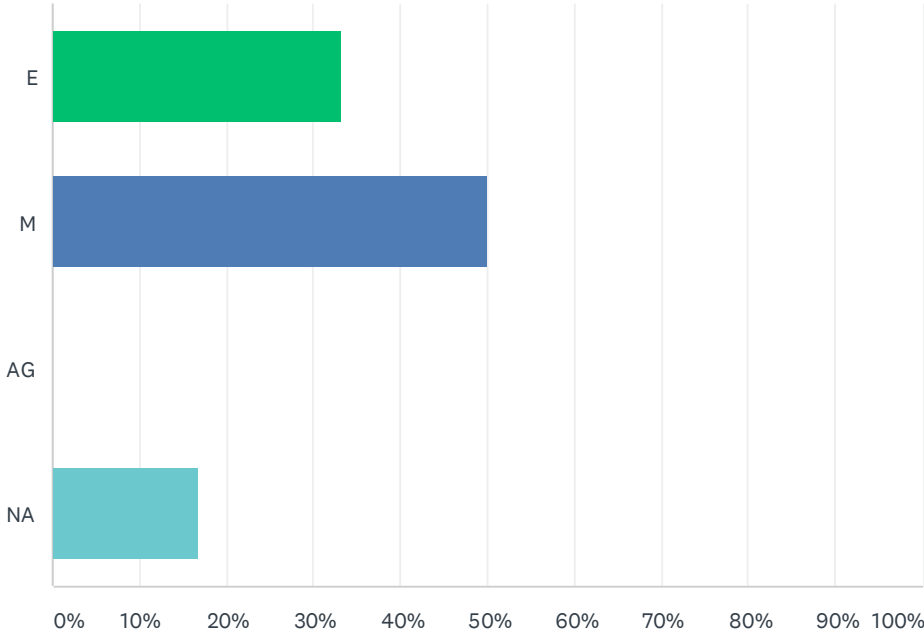
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ANSWER CHOICES	RESPONSES	
E	53.85%	7
M	38.46%	5
AG	0.00%	0
NA	7.69%	1
TOTAL		13

Q15 Set objectives for personal performance and manages toward those objectives.

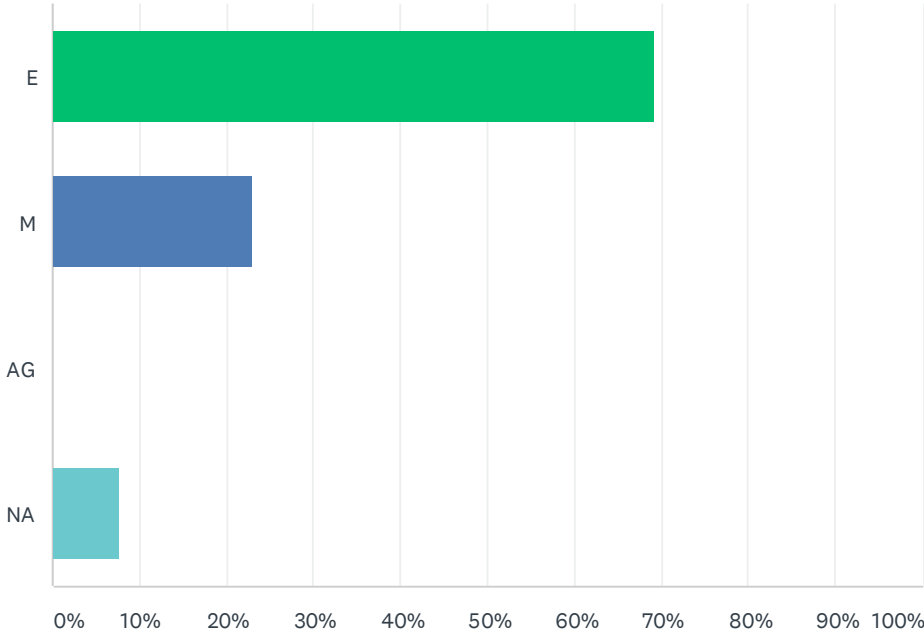
Answered: 12 Skipped: 1



ANSWER CHOICES	RESPONSES
E	33.33% 4
M	50.00% 6
AG	0.00% 0
NA	16.67% 2
TOTAL	12

Q16 Completes projects agreed upon with Board within the given time frame.

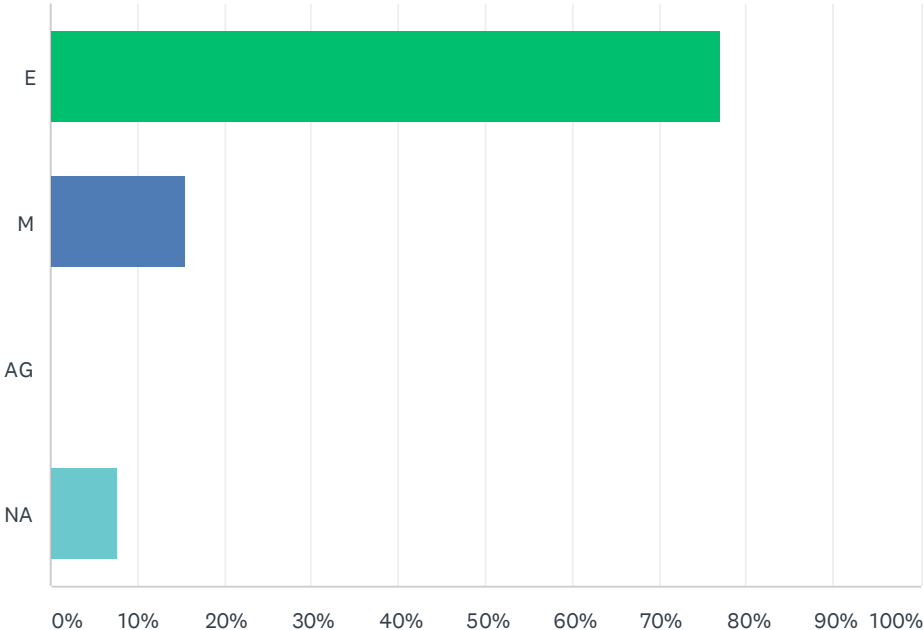
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	69.23%	9
M	23.08%	3
AG	0.00%	0
NA	7.69%	1
TOTAL		13

Q17 Coaches, mentors and manages in accordance with TMWA Values and Vision.

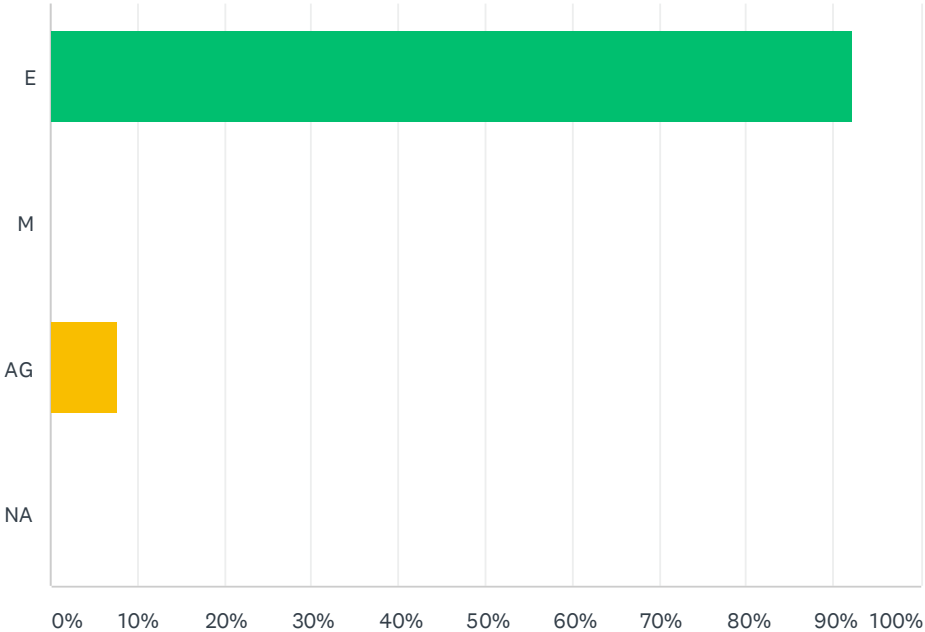
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ANSWER CHOICES	RESPONSES	
E	76.92%	10
M	15.38%	2
AG	0.00%	0
NA	7.69%	1
TOTAL		13

Q18 Uses sound judgment in decision making. Seeks out relevant and necessary data.

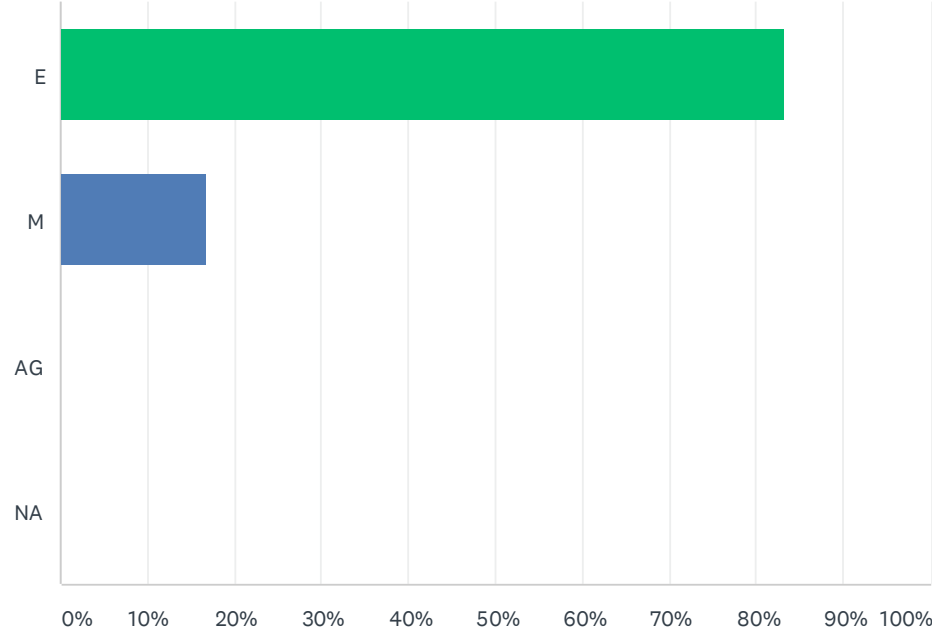
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	92.31%	12
M	0.00%	0
AG	7.69%	1
NA	0.00%	0
TOTAL		13

Q19 Makes decisions in a timely manner.

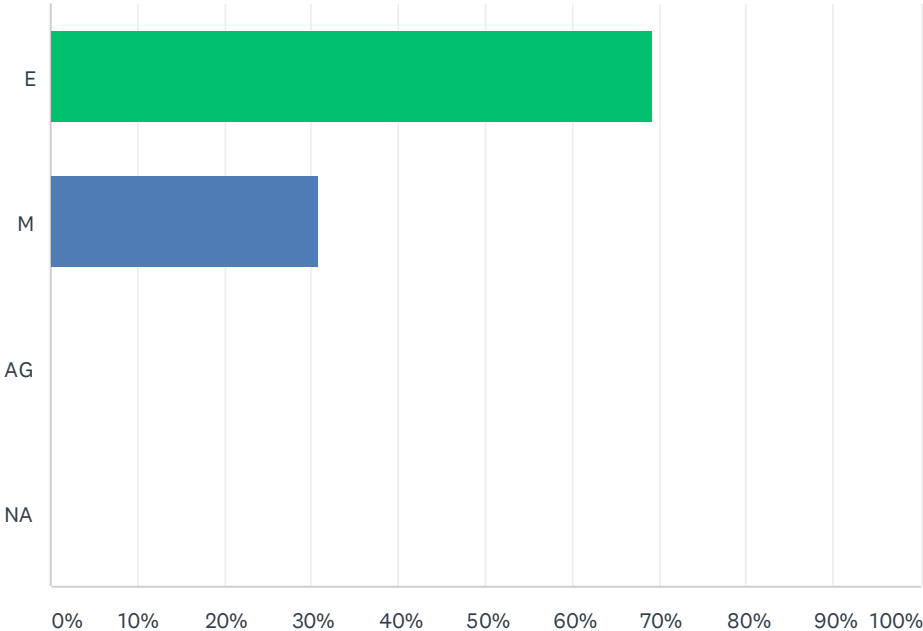
Answered: 12 Skipped: 1



ANSWER CHOICES	RESPONSES	
E	83.33%	10
M	16.67%	2
AG	0.00%	0
NA	0.00%	0
TOTAL		12

Q20 Directs utilization of TMWA resources effectively.

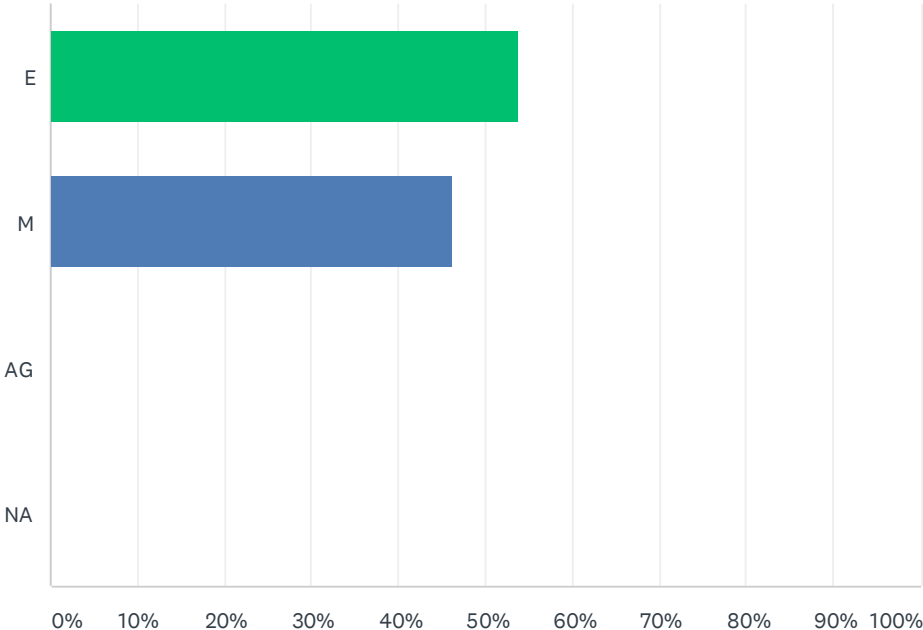
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	69.23%	9
M	30.77%	4
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q21 Directs the TMWA customer service goals and initiatives, both internally and externally.

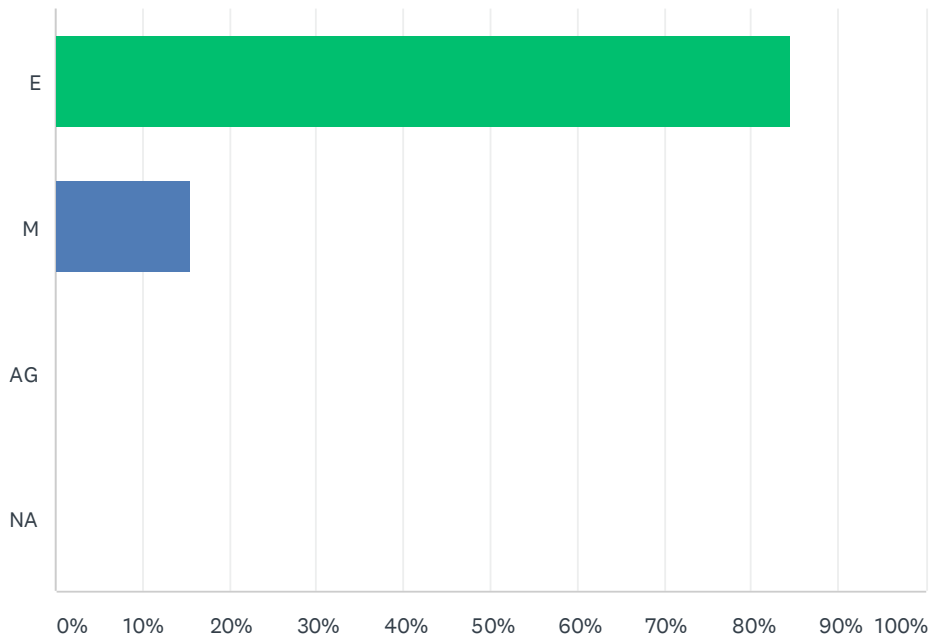
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	53.85%	7
M	46.15%	6
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q22 Emergencies and crisis situations are handled in an effective, efficient and professional manner.

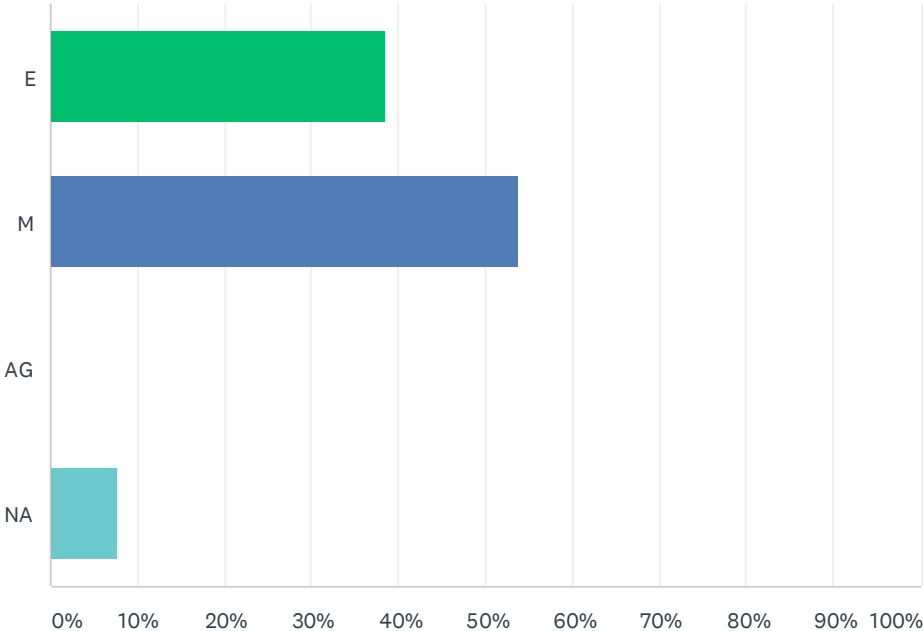
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES
E	84.62% 11
M	15.38% 2
AG	0.00% 0
NA	0.00% 0
TOTAL	13

Q23 Stays current on management practices and techniques.

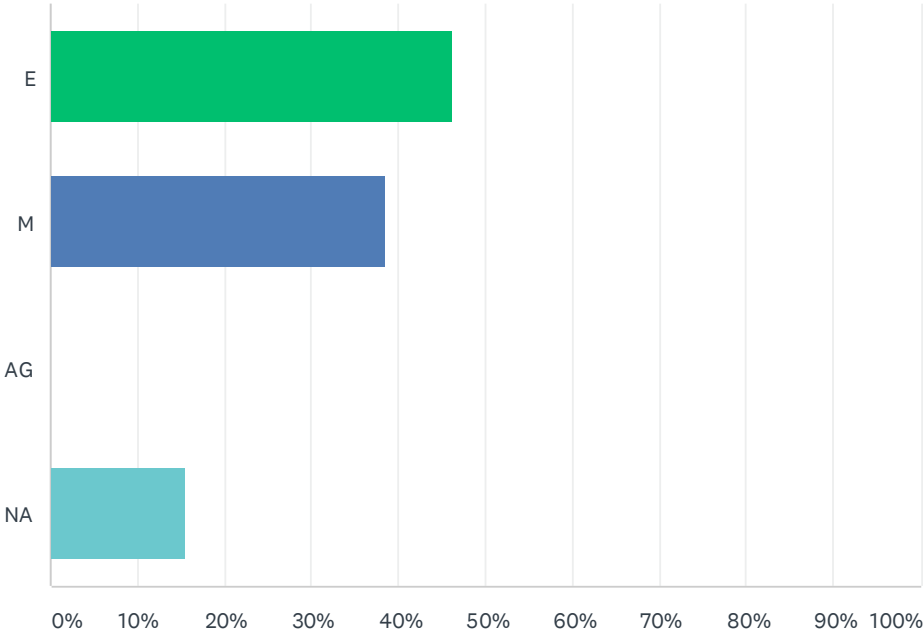
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	38.46%	5
M	53.85%	7
AG	0.00%	0
NA	7.69%	1
TOTAL		13

Q24 Actively pursues ways to increase his value to TMWA.

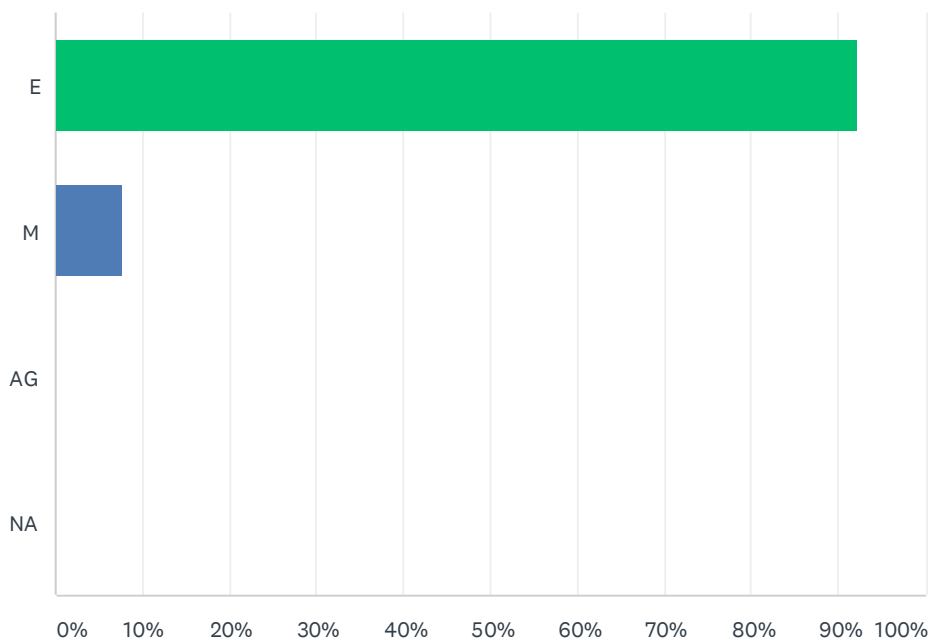
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	46.15%	6
M	38.46%	5
AG	0.00%	0
NA	15.38%	2
TOTAL		13

Q25 Able to delegate authority appropriately, granting proper authority at proper times.

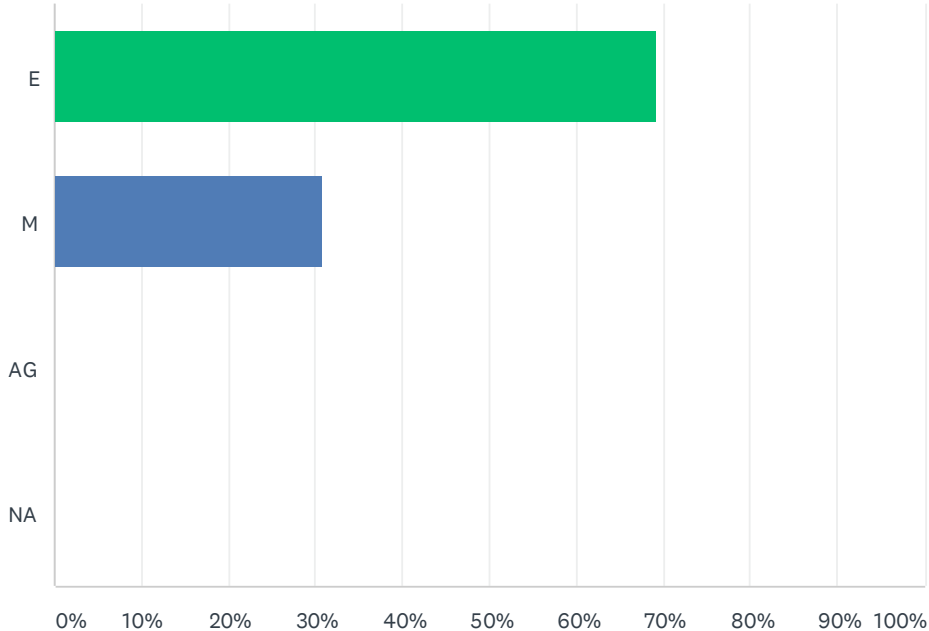
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	92.31%	12
M	7.69%	1
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q26 Utilizes a positive approach to direct work efforts of staff.

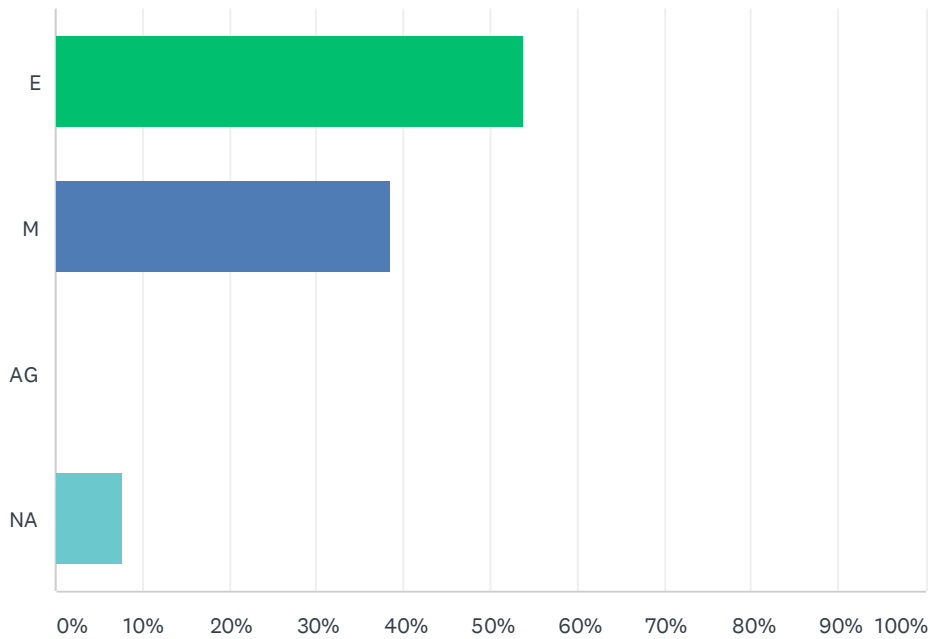
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	69.23%	9
M	30.77%	4
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q27 Addresses employee issues promptly and effectively, utilizing progressive discipline.

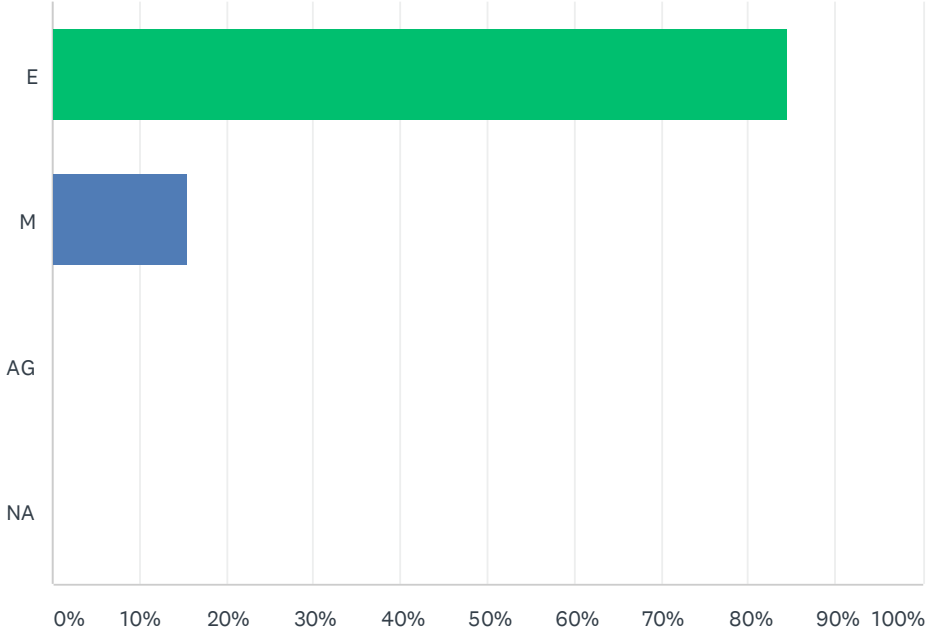
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	53.85%	7
M	38.46%	5
AG	0.00%	0
NA	7.69%	1
TOTAL		13

Q28 Encourages and rewards initiative.

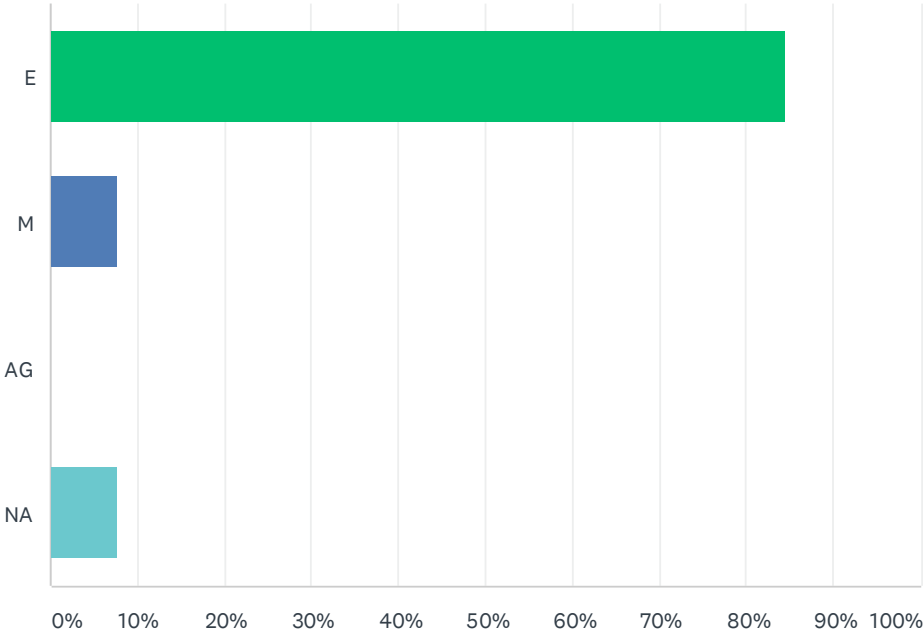
Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	84.62%	11
M	15.38%	2
AG	0.00%	0
NA	0.00%	0
TOTAL		13

Q29 Promotes cohesive teamwork with the TMWA Senior Management Team.

Answered: 13 Skipped: 0



ANSWER CHOICES	RESPONSES	
E	84.62%	11
M	7.69%	1
AG	0.00%	0
NA	7.69%	1
TOTAL		13

Q30 What you are most pleased with in the General Manager’s performance?

Answered: 11 Skipped: 2

#	RESPONSES	DATE
1	Mark is extremely approachable. He is a good listener and moves out to implement board initiatives. I was particularly impressed with the direction of the new Water Plan. It is a complete overhaul and addresses our current needs more appropriately.	9/8/2020 4:06 PM
2	Mark has the ability to clearly see the future of the organization and implement a plan to reach the goal.	9/8/2020 3:01 PM
3	Mark looks for every opportunity to make the organization stable and sustainable through the steady management of TMWA's finances coupled with the ongoing planning process via the Water Resource Plan and the 5 year Capital Improvement Plan. Further, he has consistently demonstrated a sincere personal interest in all of TMWA's employees while emphasizing the need for extremely high quality customer service which has yielded a 90+% approval rating year after year.	9/5/2020 11:00 AM
4	This has been a year of uncertainty to say the least. Mark has done an outstanding job ensuring continued operations and employee safety. He has been great at initiating communication and soliciting feedback.	8/31/2020 9:38 AM
5	As always, his openness.	8/27/2020 1:39 PM
6	Mark understands the details and nuances of TMWA, and he can deal with a large variety of situations effectively. Mark is open to new ideas, and he supports his staff in challenging situations. Mark has developed an effective leadership team, and allows the organization to adapt to the strength of its employees. He is honest, and he always works to achieve the best outcome for our customers, employees and the region.	8/24/2020 4:42 PM
7	He trusts his staff and allows them to demonstrate an appropriate level of responsibility	8/24/2020 2:12 PM
8	Organizational skills, always looking for the best in staff and relations with the public	8/24/2020 2:00 PM
9	He has the ability to see the larger picture of what we do for the region and the detailed understanding of what is needed for a single project. That is a great balance and touch skill to find in someone.	8/24/2020 9:25 AM
10	TMWA is a leader in community initiatives and resource planning.	8/24/2020 8:21 AM
11	He has a very broad knowledge base, and understands all facets of the business	8/24/2020 8:04 AM

Q31 What areas for growth would you like to see? Please provide specific suggestions on how the General Manager may improve the areas for growth?

Answered: 6 Skipped: 7

#	RESPONSES	DATE
1	One thing Mark could "work on" is his initial response to new ideas. He is appropriately cautious - which is good - but I'd like to see him more receptive from the get go. This applies both internally and externally.	9/8/2020 4:06 PM
2	Continue to foster strong relationships throughout the organization and the community.	9/8/2020 3:01 PM
3	Mark is a self starter and has surrounded himself with recognized, high quality industry professionals in every discipline. I am pleased with his management style and the organization's direction.	9/5/2020 11:00 AM
4	Nothing of significance comes to mind.	8/24/2020 4:42 PM
5	I haven't found any holes in this gentleman's character or methods of management.	8/24/2020 2:00 PM
6	Continue to work as a region. Working with the Health department, continued steps with accelera	8/24/2020 9:25 AM

Q32 Goals for 2020-2021

Answered: 6 Skipped: 7

#	RESPONSES	DATE
1	None at this time - but will discuss at meeting.	9/8/2020 4:06 PM
2	1. Continue working alongside regional partners to maintain a safe and sustainable water supply for our region. 2. Study areas to lower operating costs.	9/8/2020 3:01 PM
3	1. Continue effectively managing TMWA's water resources for long-term stability and sustainability. 2. Continue emphasizing TMWA's long-term financial stability and sustainability. 3. Continue working on operational efficiencies. 4. Continue working on TMWA's infrastructure rehab schedule throughout the region. 5. Continue emphasizing TMWA's brand through the delivery of an extremely high quality product and great customer service. 6. Continue supporting the need to maintain our Green Energy Hydroelectric facilities for future generations while acting as an offset to lower current customer rates. 7. Continue planning for the Green Energy Highland Canal Hydroelectric project to ensure Chalk Bluff's energy independence while providing yet another offset to lower customer rates. 8. Continue working with UNR's Water Innovation Institute and Regional Partners to perfect forward thinking treatment and reuse programs that could lessen our need of natural water resources from the Truckee Meadows and the Truckee River Water Shed.	9/5/2020 11:00 AM
4	Continue to work towards implementation of succession planning within the organization, with the goal of maintaining the TMWA culture of excellence and teamwork. Continue to advance regional collaboration with the other local governments. Continue to oversee the management of TMWA's strong financial condition and efficient business practices.	8/24/2020 4:42 PM
5	Just stay the course	8/24/2020 2:00 PM
6	Help our region go completely Digital in plan review by making sure we are solid and heading in the correct direction.	8/24/2020 9:25 AM

Q33 Any additional comments?

Answered: 7 Skipped: 6

#	RESPONSES	DATE
1	Both Mark and the agency are doing a terrific job! I believe TMWA is one of the best managed agencies in the Truckee Meadows.	9/8/2020 4:06 PM
2	Great job Mr. Foree! Keep up the good work, you're on the right track!	9/5/2020 11:00 AM
3	I am truly grateful for Mark's leadership. He is someone that can be relied upon and trusted to do the right thing and deliver results no matter what he is presented with.	8/31/2020 9:38 AM
4	I enjoy working for Mark.	8/27/2020 1:39 PM
5	TMWA is a great place to work, it starts at the top.	8/24/2020 4:42 PM
6	Proud to be involved with this organization as a director	8/24/2020 2:00 PM
7	I appreciate all the dedication and work that our general manager does. He gets a 10 from me.	8/24/2020 9:25 AM

AMENDED AND RESTATED EMPLOYMENT AGREEMENT

1. PARTIES AND RECITALS

This Amended and Restated Employment Agreement ("Agreement") is entered into on October 15, 2018 ("Effective Date") by and between the Truckee Meadows Water Authority, by and through its duly constituted Board of Directors ("TMWA"), a political subdivision of the State of Nevada and a public entity organized pursuant to NRS 277.110, et. seq., and Mark Foree ("Foree"), collectively the "Parties", and amends and supersedes the Employment Agreement entered between the Parties dated October 15, 2014.

- 1.1 TMWA was formed to exercise powers, privileges and authorities to develop and maintain supplies of water for the benefit of the Truckee Meadows community;
- 1.2 TMWA desires to retain the services of Foree as General Manager;
- 1.3 Foree desires employment as General Manager of TMWA; and
- 1.4 The parties desire to enter into an agreement reflecting the terms and conditions under which Foree will be employed by TMWA as its General Manager.

NOW, THEREFORE, in consideration of their mutual covenants contained herein, TMWA and Foree agree as follows:

2. EMPLOYMENT

TMWA hereby employs Foree and Foree agrees to serve as the General Manager of TMWA to perform the functions and duties specified in Section 3 for the term specified in Section 5.

3. DUTIES/ESSENTIAL JOB FUNCTIONS

3.1 Foree agrees that during the Term of Employment (as defined in Section 5.1) he will hold the office of General Manager of TMWA reporting to TMWA's Board of Directors (the "Board"). Foree agrees to perform faithfully and to the best of his ability such duties and assignments relating to the business of TMWA as the Board of Directors of TMWA shall direct.

3.2 During the Term of Employment Foree shall, except during customary vacation periods and periods of illness, devote his business time and attention to the performance of his duties hereunder and to the business and affairs of TMWA and to promoting the best interests of TMWA. Foree shall not, either during or outside of normal business hours, engage in any activity inimical to the best interests of TMWA. TMWA and Foree acknowledge that he has ownership interest in a water company in Winnemucca, Nevada, for which he provides occasional services for compensation. Foree agrees to ensure that his ownership and any activities undertaken by Foree in connection with said company shall not interfere with his

ability to devote his full time and attention to the business and affairs of TMWA. Except for said services, Foree shall not serve as a consultant to other public or private utilities. Notwithstanding the foregoing, Foree may engage in charitable or civic pursuits provided that such service or pursuits do not interfere with Foree's obligations under the Agreement.

4. SALARY

TMWA agrees to pay Foree for his services an annual base salary of Two Hundred Fifteen Thousand One Hundred Fifteen Dollars (\$215,115.00) ("Base Salary") effective July 1, 2018. Foree's Base Salary shall automatically adjust on July 1, 2019 and each July 1 thereafter to the "Market" step of the General Manager wage band. Foree will have an opportunity to earn a Base Salary increase and a lump sum award based upon Foree's specific job performance in meeting the mutually agreed upon goals for the previous year. The Board and Foree will meet by December 1, 2018 to set initial performance goals for the 2018-19 fiscal year. The Board shall evaluate Foree's performance pursuant to Section 6 and in its sole discretion may determine a performance lump sum award or any salary adjustment in accordance with Section 6 of this Agreement. This adjustment may be made either to the Base Salary or in the form of a lump sum award or as a combination of the two at the sole discretion of TMWA. The total award (addition to Base Salary plus lump sum award) may be up to 10% of Base Salary. Any portion of a salary adjustment granted as a lump sum award shall not become part of Foree's Base Salary for future years.

5. TERM AND TERMINATION

5.1 Term. The term of this Agreement ("Initial Term") is two (2) years beginning on the Effective Date of this Agreement; subject, however, to prior termination as provided herein. The Term of Employment shall automatically be extended for an additional two years from October 15, 2020 to October 15, 2022 ("Extension Term"), unless either party provides written notice to the other party no later than May 31, 2020 of its election not to extend the Term of Employment. The Initial Term and Extension Term, as applicable, are referred to as the "Term of Employment".

5.2 Events of Termination. The Term of Employment, Foree's Base Salary, and any and all other rights of Foree under this Agreement or otherwise as an employee of TMWA shall terminate (except as otherwise provided in this Section) for the reasons and at the times set forth below:

- (a) Immediately upon the expiration of the Term of Employment;
- (b) Immediately upon the death of Foree;
- (c) Upon the disability of Foree (as defined in Section 5.3) immediately upon written notice from either party to the other;
- (d) For Cause (as defined in Section 5.4) immediately upon notice from TMWA to Foree, or at such later time as such notice may specify;

(e) For convenience by Foree following no less than 120 days written notice, unless the parties subsequently agree to a different notice period; or

(f) For convenience by TMWA following no less than thirty (30) days written notice; provided Foree shall be entitled to a severance payout as set forth in Section 5.5.

5.3 Definition of Disability. For purposes of Section 5.2, Foree will be deemed to have a "disability" if, for physical or mental reasons, Foree is unable to perform the essential functions of Foree's duties under this Agreement for a period of ninety (90) days. The disability of Foree will be determined by a medical doctor selected by written agreement of TMWA and Foree upon the request of either party by notice to the other. If TMWA and Foree cannot agree on the selection of a medical doctor, each of them will select a medical doctor and the two medical doctors will select a third medical doctor who will determine whether Foree has a disability. The determination of the medical doctor selected under this Section 5.3 will be binding on both parties. Foree must submit to a reasonable number of examinations by the medical doctor making the determination of disability under this Section 5.3, and Foree hereby authorizes the disclosure and release to TMWA of such determination and all supporting medical records. If Foree is not legally competent, Foree's legal guardian or duly authorized attorney-in-fact will act in Foree's stead, under this Section 5.3, for the purposes of submitting Foree to the examinations, and providing the authorization of disclosure, required under this Section 5.3.

5.4 Definition of "For Cause". For purposes of Section 5.2, the phrase "For Cause" means: (a) Foree's material breach of this Agreement or gross negligence in the performance of his required duties as TMWA General Manager; (b) Foree's failure to adhere to any written policy of TMWA or lawful direction of the TMWA Board if Foree has been given a reasonable opportunity to comply with such policy or direction or cure his failure to comply; (c) the appropriation or attempted appropriation of a material business opportunity of TMWA, including attempting to secure or securing any personal profit in connection with any transaction entered into on behalf of TMWA; (d) any act of dishonesty, fraud, embezzlement, theft, or misappropriation or attempted misappropriation of any of TMWA's funds or property; (e) the conviction of, the indictment for or its procedural equivalent, or the entering of a guilty plea or plea of no contest with respect to, a felony, the equivalent thereof, or any other crime with respect to which imprisonment is a possible punishment; (f) material violations of TMWA employment policies by Foree; (g) indictment, arrest or conviction of Foree for the use or possession of illegal drugs; (h) willful or material violation of the Code of Ethical Standards set forth in NRS Chapter 281A; or (i) for any other reason constituting cause as that term may otherwise be defined under Nevada law.

5.5 Termination Pay. Effective upon the termination of this Agreement, TMWA will be obligated to pay Foree (or, in the event of his death, his designated beneficiary as defined below) only such compensation as is provided in this Section 5.5, and in lieu of all other amounts and in settlement and complete release of all claims Foree may have against TMWA. For purposes of this Section 5.5, Foree's designated beneficiary will be such individual beneficiary or trust, located at such address, as Foree may designate by notice to TMWA from time to time or, if Foree fails to give notice to TMWA of such a beneficiary, Foree's estate. Notwithstanding the preceding sentence, TMWA will have no duty, in any circumstances, to attempt to open an

estate on behalf of Foree, but will act reasonably in ascertaining the whereabouts of Foree's beneficiaries and seeing to it that such beneficiaries are properly paid.

(a) If this Agreement is terminated by either party as a result of Foree's death or disability as determined under Section 5.3, TMWA shall pay Foree his Base Salary accrued through the date of termination plus any accrued unused banked vacation and PTO as set forth in section 8 below.

(b) If this Agreement is terminated by TMWA "For Cause" pursuant to Section 5.2(c) or by Foree pursuant to Section 5.2(e), TMWA shall pay Foree his Base Salary accrued through the date of termination, but not any accrued unused banked vacation and PTO remaining as of the date of termination.

(c) If TMWA terminates this Agreement for convenience pursuant to Section 5.2(f) or TMWA elects not to extend the Initial Term as set forth in Section 5.6, TMWA agrees to pay Foree severance pay equal to Foree's six-month Base Salary upon the effective date of such termination.

5.6 Non-Renewal of Agreement. In the event TMWA elects not to renew or extend this Agreement beyond the Initial Term by providing written notice pursuant to Section 5.1, all compensation, benefits and requirements of the Agreement shall remain in effect until the expiration of the Initial Term, unless the Agreement is terminated sooner as provided herein, and Foree will receive severance pay as set forth in Section 5.5(c) above upon the expiration of the Initial Term.

6. PERFORMANCE EVALUATION

TMWA's Board of Directors will review and evaluate Foree's performance at least once annually on or within four months of the end of the fiscal year. Foree's annual salary review and any adjustment to compensation will coincide with the annual performance evaluation timeframes established for all TMWA employees.

7. RETIREMENT

7.1 Subject to applicable laws, TMWA will contribute an amount equal to 6% of Foree's base salary to a deferred compensation plan on Foree's behalf.

7.2 TMWA agrees that Foree will be a member of the Nevada Public Employees Retirement System at TMWA's expense.

8. PAID TIME OFF

8.1 Foree will be granted 40 days of compensated paid time off ("PTO") each year for personal use, including vacation and illness. Unused PTO may be taken as pay, at any time, or carried over to the next calendar year as set forth in Section 8.2.

8.2 Accrued but unused PTO will be carried over from year to year. A maximum of 320 PTO hours can be carried over each calendar year. Upon termination of Foree's employment, Foree will be entitled to full compensation for his accrued, unused PTO, up to a maximum of 320 hours.

8.3 Banked vacation which Foree accrued as of July 1, 2009 will remain in the banked vacation account until used. Such banked vacation time may also be cashed out as pay at any time and upon Foree's employment termination, except for termination "For Cause" pursuant to Section 5.4.

9. DUES, SUBSCRIPTIONS AND PROFESSIONAL DEVELOPMENT

9.1 TMWA agrees to pay the professional dues, certifications and subscriptions of Foree necessary for his continuation and participation in national, regional, state and local associations and organizations necessary and desirable for his continued professional participation, growth and advancement, and for the good of TMWA.

9.2 TMWA agrees to pay the travel and subsistence expenses of Foree for professional and official travel and meetings adequate to continue the professional development of Foree as the chief executive of a water utility and to adequately pursue necessary official functions for TMWA. Such travel and subsistence expenses must be approved by TMWA's Chief Financial Officer and submitted to the Chair of the TMWA Board for review. TMWA will also pay for Foree's attendance at conferences, seminars and short courses which are deemed to be of value to TMWA.

10. EXPENSES, ALLOWANCES AND OTHER BENEFITS

10.1 Foree will be paid a fixed sum of \$750 per month for the use of his personal vehicle for TMWA business, with future increases to be determined by TMWA as a part of the budget cycle.

10.2 TMWA agrees to pay Foree a fixed sum of \$150 per month as a cell phone/personal digital assistance (PDA) allowance.

10.3 TMWA will pay all costs of any fidelity or other bonds required of Foree by virtue of his employment with TMWA.

10.4 Foree will be provided all other benefits given to management employees, such as observed paid holidays, group health coverage (medical, dental, vision), short and long term disability.

11. TEAM BUILDING, GOALS AND RETREATS

TMWA agrees that annually TMWA's Board of Directors will schedule and participate in the following:

- (a) A goals-setting session to develop objectives for TMWA; and
- (b) A session to develop specific criteria to serve as the basis for Foree's pay-for-performance clause set forth in Section 6 of this agreement. This session will be held within four months of the end of each fiscal year of the Term of Employment.

12. MISCELLANEOUS

12.1 The captions in this agreement are not part of the provisions hereof, are merely for the purpose of reference and shall have no force or effect for any purpose whatsoever, including the construction of the provisions of this Agreement, and if any caption is inconsistent with any provisions of this Agreement, such provisions shall govern. The Recitals are part of this Agreement.

12.2 This Agreement is made in, and shall be governed by and construed in accordance with the internal laws of the State of Nevada.

12.3 This Agreement contains a complete statement of all of the arrangements between the parties with respect to the subject matter hereof. There are no representations, agreements, arrangements or understandings, oral or written between the parties relating to the subject matter of this Agreement, which are not fully expressed in this Agreement.

12.4 This Agreement may not be waived, changed, modified or discharged orally, but only by an agreement in writing signed by the party against whom any waiver, change, modification or discharge is sought.

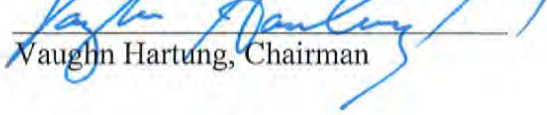
12.5 All notices given hereunder shall be in writing and shall be sent by registered or certified mail, return receipt requested as such other address as TMWA and Foree designate. Each such notice shall be deemed to be given on the date received at the address of the addressee.

12.6 If litigation over this Agreement is initiated in any court, the Parties agree the proper venue is Washoe County, Nevada. Foree irrevocably (i) waives and agrees not to assert in any such action, suit or other proceeding that he is not personally subject to the jurisdiction of such courts, that the action, suit or other proceeding is brought in an inconvenient forum or that the venue of the action, suit or other proceeding is improper, (ii) waives personal service of any summons, complaint or other process and (iii) agrees that the service thereof may be made by certified or registered mail directed to Foree at his address for purposes of notices hereunder. Should Foree fail to appear or answer within the time prescribed by law, he shall be deemed in default and judgment may be entered by TMWA against him for the amount or other relief as demanded in any summons, complaint or other process so served.

IN WITNESS WHEREOF, the parties have executed this Agreement the day and year first hereinabove written.

TMWA

Dated this 17 day of oct, 2018

By: 
Vaughn Hartung, Chairman

GENERAL MANAGER

Dated this 17TH day of OCT., 2018

By: 
Mark W. Foree



STAFF REPORT

TO: Chairman and Board Members
FROM: Mark Foree, General Manager
DATE: September 8, 2020
SUBJECT: Discussion and action on request for Board input and acceptance of General Manager performance objectives for contract year 2020/2021

RECOMMENDATION

The TMWA Board review the objectives proposed herein, provide input to the proposed objectives and approve the objectives as amended by the Board discussion.

DISCUSSION

As in the past the Board has requested an opportunity to discuss and approve specific objectives and criteria that the General Manager would be working to accomplish during the current fiscal year. These objectives and criteria would be used to evaluate the performance of the General Manager at the end of the contract year. Below are suggestions for the Board’s discussion and input:

FY 2019-2020 GENERAL MANAGER	
GENERAL OBJECTIVES	
A	Direct the preparation of and propose financial plans, investment strategies, funding plans and adjustments to rates and charges that will continue to keep TMWA in long term financial stability; including preparation of budgets and Capital Improvement Plans and financial reporting that comply with Nevada Revised Statutes and the Securities and Exchange Commission (SEC).
B	Develop proactive communications plans to address upcoming issues (e.g., topics affecting water supply, drought planning, regional water issues, utility water system consolidation and rate changes) and to keep all stakeholders including the Board, the employees, and the customers informed through a variety of mediums. Respond to media inquiries and provide informational interviews.

FY 2019-2020 GENERAL MANAGER

GENERAL OBJECTIVES (continued)

C	Continue having and improve on a community presence for TMWA through the Water Leadership program and participation in community committees, boards, and networking organizations and by providing presentations and information to these groups; offer Truckee River, Chalk Bluff Plant and/or other informational tours to the community.
D	Continue to create a highly productive work environment and a highly motivated employee team by developing, training, retaining and recruiting the highest quality employees.
E	Strive for continuous improvements in processes and operations targeting initiatives that will enhance revenues and/or reduce operating costs thus keeping customer rates as low as possible.

ONGOING OPERATIONAL OBJECTIVES

a	Monitor federal legislation for opportunities to obtain funding for a variety of TMWA projects.
b	Carefully analyze opportunities to acquire water rights and resources in the market in consideration of current inventory and financial constraints. Ensure adequate resources are available through TMWA's Rule 7 as directed by the Board.
c	Provide staff support to the SAC, Truckee Meadows Community Forestry Coalition and the Truckee River Fund (TRF) Advisors and ensure communications regarding TRF projects.
d	Manage and direct activities relative to legal issues, keeping the Board informed on all such matters.
e	Update TMWA Administrative Instructions as required to ensure they are compliant with applicable laws and current practices. Deliver updates to the Board and employees, and implement the changes.
f	Minimize cost impacts to customers by maximizing investment and hydroelectric income, pursuing revenue enhancement and collection opportunities, pursuing process improvements and projects that drive savings in TMWA expenses, and actively pursuing grant/low-interest loan funding for projects.

SPECIFIC OBJECTIVES

1	Develop customer conservation communications plan for the 2021 irrigation season, including water supply planning, and detailed public/customer communications/outreach plan - present to the SAC for their recommendation and Board for approval no later than the April Board Meeting.
2	Finalize the 2020-2040 Water Resource Plan (WRP) by incorporating feedback received from the public and as directed by the Board and provide completed plan to the SAC for their recommendation and to the Board for approval/adoption; forward adopted plan to the Western Regional Water Commission (WRWC) for incorporation into the Regional Water Management Plan.
3	Continue working with city and county staff regarding regional water issues (including wastewater, effluent management stormwater, etc.), regional economic development initiatives, etc. including the OneWater Nevada initiative that includes pilot testing and analysis related to infiltrating or injecting highly treated wastewater into the ground for later use, assistance with TMWRF return flow obligations, etc.

FY 2019-2020 GENERAL MANAGER

SPECIFIC OBJECTIVES (continued)

4	Continue analyzing water supply options related to fringe area development where private systems exist, make recommendations to Board and follow Board direction regarding same.
5	Monitor and participate in Legislative activities during the 2021 Legislative Session, prepare and deliver presentations to Legislative Committees as requested, schedule meetings with staff, Board legislative committee members, lobbyists and legislators, keep the Board updated and informed regarding legislative matters, and pursue Board direction regarding Legislative issues. Facilitate open communications between legislators and the TMWA Board.
6	Update the 5-year Funding Plan and present to the SAC and the Board. Propose Board actions based on the results of the planning cycle updates. Implement Board direction with regard to funding plan outcomes.
7	Analyze the need for any necessary rule changes, water facility charge adjustments, etc. and report results of analysis to the SAC and Board of Directors and follow Board direction regarding same.
8	Continue to develop/refine strategies to optimize conjunctive use of surface water and groundwater resources; further develop/refine drought supply operational strategies; and implement plans.
9	Continue to develop, refine and implement strategies to mitigate pre-merger groundwater conditions on the Mt. Rose fan including completion of construction and starting up the Mt. Rose Water Treatment Plant.
10	Develop and implement a staffing plan to address and fill vacancies created by senior leadership retirements (General Manager, Director Engineering and Director Distribution) scheduled to occur in 2022. Continue staff development in support of TMWA's succession plan (as reviewed with the Board at the August 2019 meeting) with a focus on leadership and critical position succession.
11	NEW: Working under the terms of the MOU with Carson City and Storey County, determine surplus water availability to TMWA from the Marlette Lake Water System.



STAFF REPORT

TO: Board of Directors
FROM: Mark Foree, General Manager
DATE: September 3, 2020
SUBJECT: **General Manager's Report**

Attached please find the written reports from the Management team including the Operations Report (**Attachment A**), the Water Resource and the Annexation Activity Report (**Attachment B**), the Customer Services Report (**Attachment C**), and the Monthly Conservation Report (**Attachment D**).

A *Tell the Board Submission* was received regarding a complaint of the closure of the Hunter Creek Ponds to the public for fishing access. TMWA staff responded that the property is subject to Washoe County special use permit requirements, TMWA has not stocked the ponds with game fish and the ponds were never intended (or required by the permit) to be a public fishing spot. TMWA has also received numerous complaints from the HOA and neighboring homeowners about excessive vehicle and foot traffic, trespassing on private property, excessive trash and noise, etc. (**Attachment E**).

Also, prior Board member comments have requested TMWA provide information to our customers regarding TMWA's water quality in view of the pandemic. **Attachment F** is a summary of TMWA's communications related to this issue.



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Scott Estes, Director of Engineering
BY: Bill Hauck, Water Supply Administrator
DATE: September 9, 2020
SUBJECT: Sep 2020 Operations Report

Summary

- The regional water supply outlook is good
- Lake Tahoe reservoir storage is in good shape @ 65% of maximum capacity
- Combined upstream reservoir storage is also in good shape @ 64% of maximum capacity
- Customer demands will begin dropping off noticeably in the coming weeks as fall sets in
- Hydroelectric revenue for August 2020 was approximately \$263,391

(A) Water Supply

- **River Flows** - Truckee River flows at the CA/NV state line are just about typical for this time of year. Discharge was approximately 500 cubic feet per second (CFS) this morning.
- **Reservoir Storage** - Truckee River reservoir storage was still in decent shape overall at 64% of capacity to end the month of August. The elevation of Lake Tahoe was 6226.98 feet (2.12' below legal maximum storage elevation). Storage values for each reservoir as of 8/31 are as follows:

Reservoir	Current Storage (Acre-Feet)	% of Capacity (Percent)
Tahoe	484,400	65%
Boca	20,071	49%
Donner	7,908	83%
Independence	12,896	74%
Prosser	17,214	58%
Stampede	123,003	54%

In addition to approximately 20,800 acre-feet of storage in Donner and Independence reservoirs, TMWA had about 14,900 acre-feet of water stored between Lake Tahoe, Boca and Stampede reservoirs under the terms of TROA. TMWA's total combined upstream reservoir storage is approximately 35,700 acre-feet as of 8/31.

- **Outlook** - The water supply outlook for this region is still on solid footing as Lake Tahoe storage is at 65% of capacity and total upstream reservoir storage on the Truckee River system is at 64% of capacity. This is a good position to be in as we wind down summer months in anticipation of the fall rainy season. Reservoir storage levels like this will help to ensure that the Truckee River flows normally for at least the next couple of years or so.

(B) Water Production

- **Demand** - TMWA’s customer demand averaged about 125 million gallons per day over the last week of August. Overall, surface water is providing about 80% of our supply and groundwater the other 20%.

(C) Hydro Production

Generation - Average Truckee River flow at Farad (CA/NV state line) for the month of August 2020 averaged 566 CFS. The Fleish and Verdi power plants were on-line the entire month and 100% available. The Washoe Power plant was taken out of service on April 23rd due to a catastrophic flume failure and is still off line. The plant will remain off-line through the fall and into the winter months as the flume is rebuilt. Monthly statistics are as follows:

Hydro Plant	Days On-Line	Generation (Megawatt hours)	Est. Revenue (Dollars)	Est. Revenue (Dollars/Day)
Fleish	31	1,866	\$ 137,953	\$ 4,450
Verdi	31	1,712	\$ 125,438	\$ 4,046
Washoe	0	0	\$ 0	\$ 0
Totals	62	3,578	\$ 263,391	\$ 8,496



STAFF REPORT

TO: Chairman and Board Members
THRU: Mark Foree, General Manager
FROM: John Zimmerman, Manager, Water Resources
DATE: September 10, 2020
SUBJECT: Report Water Resources and Annexation Activity

RULE 7

Rule 7 water resource purchases and will-serve commitment sales against purchased water resources through this reporting period:

Beginning Balance		4,111.04 AF
Purchases of water rights	2.08 AF	
Refunds	0.00 AF	
Sales	- 17.50 AF	
Adjustments	- 1.48 AF	
Ending Balance		4,094.14 AF

Price per acre foot at report date: \$7,700

FISH SPRINGS RANCH, LLC GROUNDWATER RESOURCES

Through the merger of Washoe County's water utility, TMWA assumed a Water Banking and Trust Agreement with Fish Springs Ranch, LLC, a subsidiary of Vidler. Under the Agreement, TMWA holds record title to the groundwater rights for the benefit of Fish Springs. Fish Springs may sell and assign its interest in these groundwater rights to third parties for dedication to TMWA for a will-serve commitment in Areas where TMWA can deliver groundwater from the Fish Springs groundwater basin. Currently, TMWA can deliver Fish Springs groundwater to Area 10 only (Stead-Silver Lake-Lemmon Valley). The following is a summary of Fish Springs' resources.

Beginning Balance		7,755.83 AF
Committed water rights	- 21.92 AF	
Ending Balance		7,733.91 AF

Price per acre foot at report date: \$41,500 (for SFR and MFR); \$36,000 (for all other services)¹

¹ Price reflects avoided cost of Truckee River water right related fees and TMWA Supply & Treatment WSF charge.

WATER SERVICE AREA ANNEXATIONS

There have been no annexations since the date of the last Board meeting.

INTERRUPTIBLE LARGE VOLUME NON-POTABLE SERVICE

None this reporting period.



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Marci Westlake, Manager Customer Service
DATE: September 16, 2020
SUBJECT: **August Customer Service Report**

The following is a summary of Customer Service activity for August 2020.

Ombudsman

- Customer called regarding ditch cleaning, had facilities take care of the caller.
- Customer called regarding back billing, called them back and took care of their concerns.

Communications

Customer outreach for August:

- “OneWater Nevada-Pilot Project for Advanced Wastewater Treatment Technologies” Workshop. NDEP hosted the workshop and there were about 25 attendees.

Conservation (2020 Calendar year to date)

- 1,232 Water Watcher Contacts
- 1,101 Water Usage Reviews

Customer Calls – August

- 8,102 phone calls handled
- Average handling time – 4 minutes, 34 seconds per call
- Average speed of answer – 19 seconds per call

Billing –August

- 133,620 bills issued.
- 31 (0.00%) corrected bills.
- 23,412 customers (18%) have signed up for paperless billing to date.

Service Orders –August (% is rounded)

- 8,009 service orders taken
- 4,122 (51%) move-ins / move-outs
- 108 (2%) cut-out-for-non-payment and cut-in after receiving payments, including deposits and checks for tamper only
- 401 (5%) zero consumption meter checks
- 1,118 (14%) re-read meters
- 974 (12%) new meter sets and meter/register/ERT exchanges and equipment checks
- 441 (6%) problems / emergencies, including cut-out for customer repairs, dirty water, no water, leaks, pressure complaints, safety issues, installing water meter blankets, etc.
- 219 (3%) high-bill complaints / audit and water usage review requests
- 626 (7%) various other service orders

Remittance – August

- 25,726 mailed-in payments
- 24,906 electronic payments
- 36,150 payments via RapidPay (EFT)
- 17,837 one-time bank account payments
- 6,507 credit card payments
- 207 store payments
- 843 payments via drop box or at front desk

• **Collections –August**

- 0 accounts received a late charge
- Mailed 0 10-day delinquent notices, 0% of accounts
- Mailed 0 48-hour delinquent notices, 0% of accounts
- 0 accounts eligible for disconnect
- 0 accounts were disconnected (including accounts that had been disconnected-for-non-payment that presented NSF checks for their reconnection)
- 0.07% write-off to revenue

Meter Statistics – Fiscal Year to Date

- 0 Meter retrofits completed
- 988 Meter exchanges completed
- 493 New business meter sets completed
- 129,762 Meters currently installed



MONTHLY CONSERVATION REPORT – August 2020

SUMMARY –August was busy, and we’re finding courtesy notifications are proving to be an easy and effective way to let customers know about watering issues. The Water Usage Reviews count broke the four-digit mark. Moreover, we were able to help resolve a few major, ongoing leaks. All in all, it was a very productive month. September is starting out to be a smoky scorcher, so stay cool and have a relaxing Labor Day!
 – Conservation Dept.

Water Watcher Contact Initiation Type	
Drive-bys	692
Deliveries	7
Hotline Reports	158
Email Reports	375
Total	1232

Watering Violations Observed	
Waste	281
Wrong Day	445
Wrong Time	47
Total	773

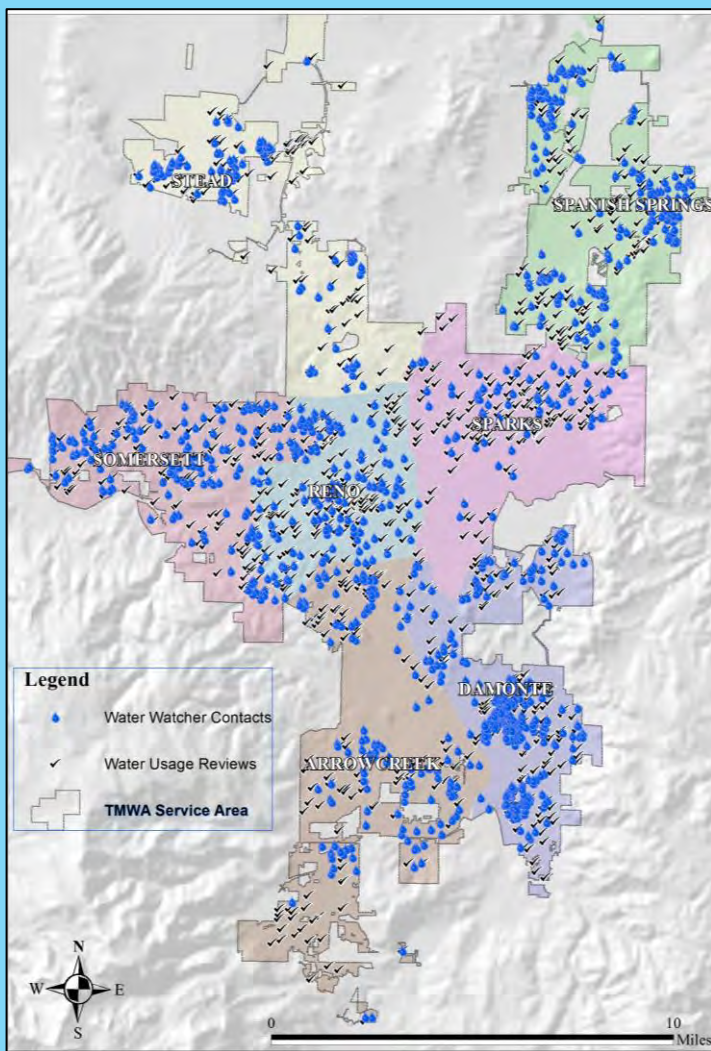
Water Watcher Actions Taken	
Educational Visits	163
A.M. Letters	0
Courtesy Calls	1026
No Actions	40
Total	1229

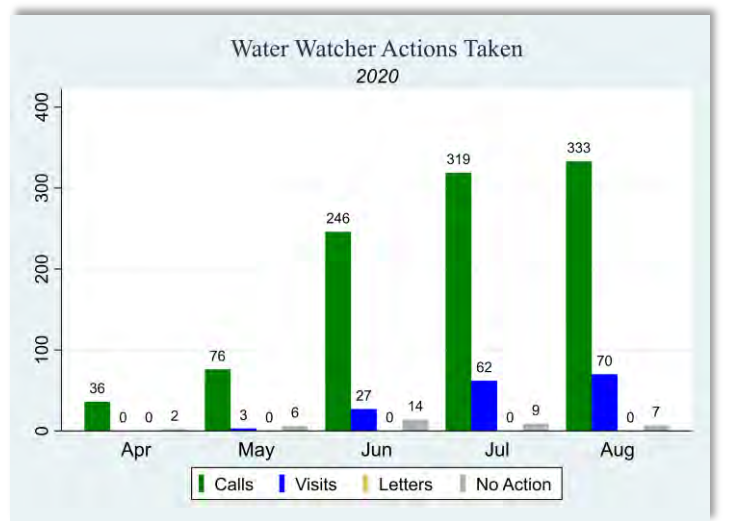
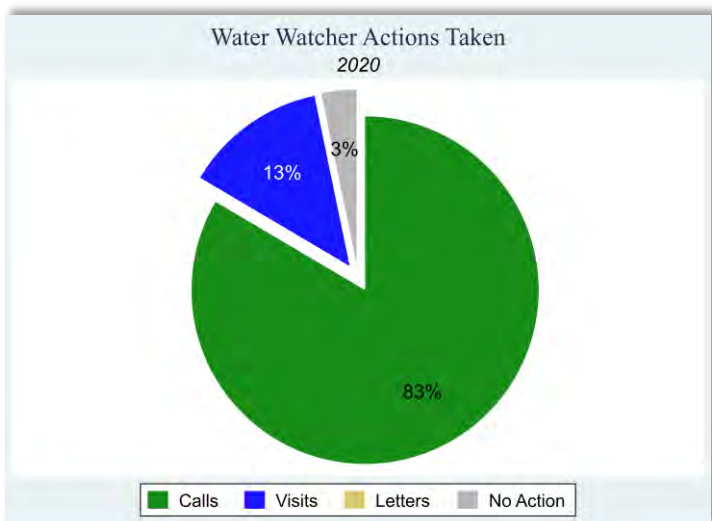
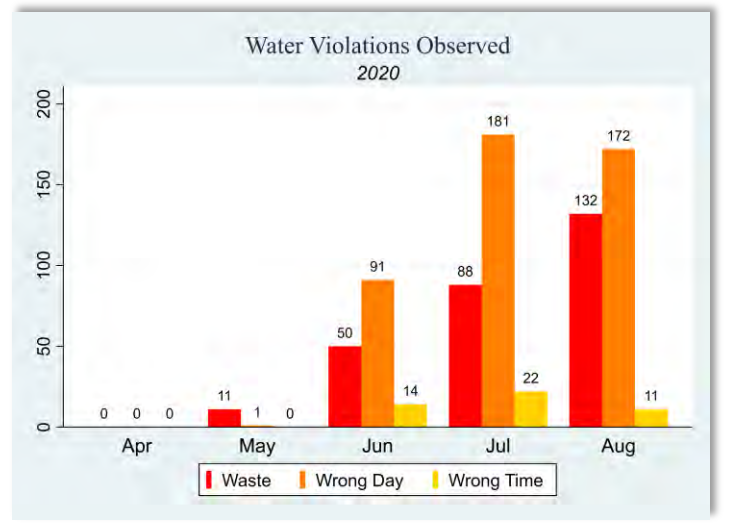
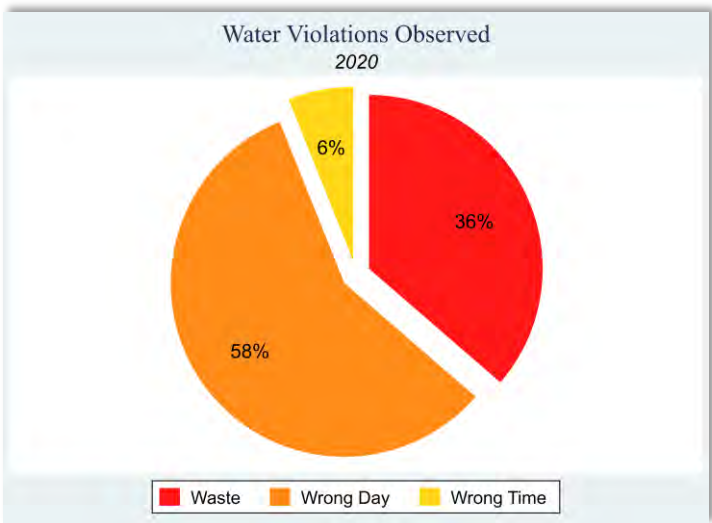
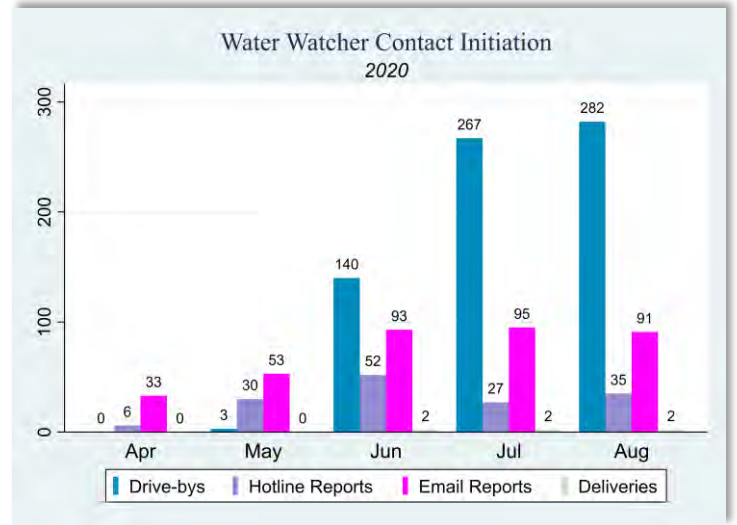
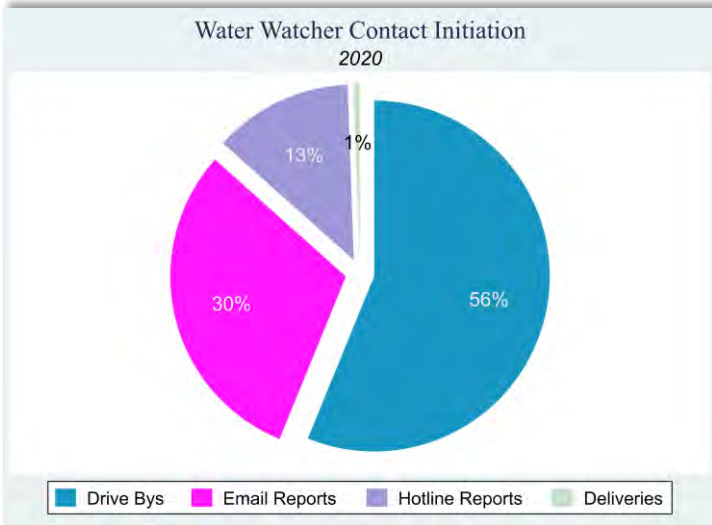
Efficiency Devices Supplied	
Faucet Aerators	0
Hose Timers	16
Nozzles	11
Low-flow Shower heads	0
Tree Root Feeder	0
Total	27

Other Conservation Actions	
Water Usage Reviews	1098
Tree Care Visits	75
Total	1173

Attendees at Workshops /Tours	
Irrigation System Start-up Workshop #1	CANCELED
Irrigation System Start-up Workshop #2	CANCELED
Landscape Planning & Design Workshop	CANCELED
Tree Care Workshop	CANCELED
Drip System Maintenance Workshop	CANCELED
Walking Tour - Valley Wood Park #1	13
Sprinkler System Maintenance Workshop	CANCELED
Walking Tour - River School Farm	CANCELED
Walking Tour, Part 2 - Valley Wood Park #2	CANCELED
Winterize Your Irrigation System Workshop #1	
Winterize Your Irrigation System Workshop #2	
Winterize Your Irrigation System Workshop #3	
Winterize Your Irrigation System Workshop #4	
Total	13

CONSERVATION EDUCATIONAL OUTREACH MAP





From: [Zimmerman, John](#)
To: [REDACTED]
Cc: [Folsom, Sonia](#)
Subject: RE: Hunter Creek Ponds
Date: Tuesday, September 8, 2020 3:07:34 PM

Mr. Nannini,

Thank you for your submittal below. Your email will be included in the record of the September 16th TMWA Board meeting as will this reply. TMWA's Hunter Creek property is subject to a Washoe County special use permit, which in short requires TMWA to maintain the property for the aesthetics of the surrounding community. The ponds have been part of the property, but TMWA has not stocked them with game fish, they are not required to be kept full with water or open to fishing, and they were never intended to be a public fishing spot. But for the above-described special use permit, TMWA's Hunter Creek property would not be open to the public. It was not until recently that people have begun fishing the ponds. TMWA expends quite a bit of time and money to maintain the property and allowing fishing contributes to the cost to keep the property maintained because of the number of people who are attracted to it for that purpose. Additionally, closing the ponds to fishing will help minimize the risk of injury to the public because TMWA does not maintain the ponds for that purpose. Additionally, TMWA has received complaints from the Juniper Ridge Homeowners Association and other homeowners regarding excessive vehicle and pedestrian traffic and people trespassing on adjacent residential properties. The HOA and homeowners have also complained of people leaving fish hooks behind, fireworks, campfires, excessive noise from people using the property for parties long after sunset, littering, and pet waste. These issues increase the cost to maintain the property and restricting the public to the paved path on the property and prohibiting fishing will help eliminate or at least minimize those issues. Again, the ponds were not intended to be used for fishing and TMWA did not stock them with game fish.

As I initially stated, I will ensure that your e-mail will be included in the record for the September 16th TMWA Board meeting. I will also include this response.

Please let me know if you have any further questions.

John

John R. Zimmerman, Esq.
Water Resources Manager
Truckee Meadows Water Authority
1355 Capital Blvd. | Reno, NV 89502
O: (775) 834-8223, M: (775) 843-2764
zimmerman@tmwa.com | www.tmwa.com



From: Joe Nannini [REDACTED]
Sent: Tuesday, September 08, 2020 2:26 PM

To: tmwboard <tmwboard@tmwa.com>
Subject: Hunter Creek Ponds

Hello,

I am writing with the intention that my comments are read and entered into the record at the next TMWA board meeting:

I am writing to ask that the decision to close the Hunter Creek Ponds to fishing be reconsidered. These ponds are such a great place to teach kids to fish for bass. There are not a lot of fisheries in this area that support this sort of family activity and the Hunter Creek Ponds are a great resource!

It is understood that there were a few people who left behind their trash. I would be the first in line to organize park cleanups and similar activities for this area if need be. I am sure there are also local non-profits who would get involved. Closing off access does nothing but create animosity toward TMWA.

TMWA's decision to take away a phenomenal opportunity for kids to learn how to fish with their families is such a disappointment. These sorts of hidden spots are what makes Reno a great place to raise kids. I urge you to reconsider this decision as it hurts this community greatly.

Joe Nannini- TMWA customer

Our vision is to enhance the quality of life in the Truckee Meadows by delivering exceptional, customer-focused water services.



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Andy Gebhardt, Director Operations, Cammy Elquist LoRé, Good Standing Outreach
DATE: September 16, 2020
SUBJECT: **2020 Water Quality Outreach**

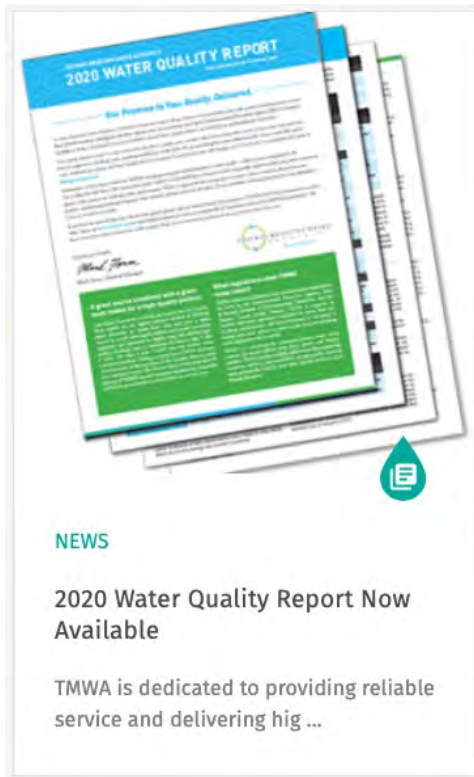
Due to the public health crisis associated with the novel coronavirus pandemic, the primary message on TMWA's radio ads and sponsored news articles focused more on the quality and safety of TMWA's drinking water, and the effectiveness of the conventional water treatment process in eliminating the threat of coronavirus in the drinking water supply.

The following pages include an overview chart of outreach media types and channels, as well as samples of each piece of collateral delivered through each.

TMWA 2020 WATER QUALITY REPORT: OUTREACH OVERVIEW					
OWNED MEDIA	Jun 23-30	Jul 1-15	Jul 16-30	Aug 1-15	Aug 16-30
WEBSITE					
Water Quality Report Posted	✓	✓	✓	✓	✓ →
Home Page Banner Ad	✓	✓	✓		
DIRECT-TO-CUSTOMER					
Customer bill: In-line message		✓	✓		
Customer bill: Envelope message		✓	✓		
Bill insert-July: Feature story		✓	✓		
Bill insert- August: Infographic- Expanded format				✓	✓
eNewsletter: Feature story	✓				
SOCIAL MEDIA					
Facebook		✓	✓		
Instagram		✓	✓		
Twitter		✓	✓		
PAID MEDIA					
Radio :30 (English- KDOT, KOZZ, KLCA, KDOT, KRNO, KKOH, KBUL; Spanish- Laser)		✓ _{sp}	✓ _{en, sp}	✓ _{en, sp}	
Radio news sponsorships (KDOT, KOZZ, KLCA, KDOT, KRNO, KKOH, KBUL)			✓	✓	
Print 1/4 pg (English- RGJ; Spanish- El Sol)	✓ _{sp}	✓ _{en, sp}	✓ _{en, sp}	✓ _{sp}	✓ _{sp}
Print sponsored interview (ThisIsReno)			✓		
EARNED MEDIA					
Television (KTVN)		✓			
Radio (KKOH- on air only)		✓			

OWNED MEDIA

WEBSITE: *www.tmwa.com banner ad sample*



CUSTOMER BILL: In-line Message

Every month our water quality scientists perform 1,000 tests and take up to 200 samples from locations throughout the community. That's how we ensure that your water consistently meets high-quality standards. Read more in our 2020 Water Quality Report: www.tmwa.com/waterquality2020

CUSTOMER BILL: Exterior Envelope Message

www.tmwa.com



Water Quality
TMWA is dedicated to delivering high-quality water to you.

- ✓ We perform more than 1,000 water quality tests each month.
- ✓ We monitor for more than 100 contaminants.
- ✓ The water delivered to your tap meets, and in many cases is significantly better than, EPA and State of Nevada drinking water standards.
- ✓ Chalk Bluff Water Treatment Plant is ranked among the highest performing treatment plants in the country by the Partnership for Safe Water.

For the latest Water Quality Report visit: tmwa.com/waterqualityreport

30764F-E-01102 JULY

CUSTOMER BILL INSERT: July




TRUCKEE MEADOWS WATER
AUTHORITY
Quality. Delivered.

JULY 2020

IN THIS ISSUE

- 2020 Water Quality Report
- Three Plans: Smart About Water Fast Fact
- Know Your Watering Days
- When You See Watering Being Wasted...
- Status of Our Drought Reserves



OUR PROMISE TO YOU: QUALITY. DELIVERED.
2020 WATER QUALITY REPORT IS NOW AVAILABLE ONLINE

TMWA is dedicated to providing reliable service and delivering high-quality drinking water to more than 425,000 residents and businesses throughout the Reno and Sparks area. In accordance with the U.S. Environmental Protection Agency's (EPA) Consumer Confidence Rule, we have now made the 2020 Annual Water Quality Report available to you. Based on data collected in 2019, this report informs you about your drinking water sources and how they compare to drinking water standards established by the EPA. The full report is available at tmwa.com/waterquality2020. If you would like a print copy mailed to you, please call Water Quality & Environmental Permit Supervisor Kelli Burgess at (775) 834-8117 or email her at kburgess@tmwa.com.

Delivering high-quality water involves constant testing to ensure the water meets all state and federal drinking water standards. TMWA's highly qualified staff performs more than 1,000 laboratory tests each month with up to 200 samples taken from various locations within the TMWA distribution system.

You can also look up specific water quality information about your neighborhood by using our online map-based reference tool, which provides the latest water quality data by geographic location. Sample data is updated monthly for turbidity, pH, chlorine residual, hardness, and arsenic. You can easily find your neighborhood's sample data on TMWA's Water Quality Lookup page at tmwa.com/water_quality.

As your community-owned water purveyor, we take pride in delivering high-quality water to your tap 24/7. We are always ready to answer your inquiries and discuss the water quality at your home or business. If you have any questions, please call our Water Quality Department at (775) 834-8118.



SMART ABOUT WATER QUICK FACT:
TMWA: Plans for the Future

At TMWA, long-term planning is central to everything we do. We prepare for the future through three robust plans that analyze the utility's water resources, infrastructure, and funding needs. By evaluating multiple scenarios, these three plans determine the resource sustainability, infrastructure investment, and funding approach needed to ensure TMWA's delivery of water for the long term. The 2020-2040 Water Resource Plan is now available for review and comment at: tmwa.com/wrp2020



TMWA-BillInsertJuly2020_vfinal.indd 1 6/12/20 9:45 AM

CUSTOMER BILL INSERT (expanded format): August Infographic

TRUCKEE MEADOWS WATER AUTHORITY
Quality. Delivered.

AUGUST 2020

Each water drop you receive is treated with TMWA's expertise.

Starting with Lake Tahoe's snowfed water

...flowing through mountains in the Truckee River¹

...into water treatment plants where raw water becomes drinking water that meets rigorous standards.

CHALK BLUFF GLENDALE

NATIONALLY AWARDED FOR EXCELLENCE

Samples across TMWA's distribution system are analyzed in state-certified labs by water quality experts
Operators • Chemists • Microbiologists

...who are trained, skilled and accomplished
335 combined years of experience
49 certifications held

...to ensure you receive

Quality, controlled.
Water samples across TMWA's 2,500+ miles of distribution lines are consistently analyzed to ensure quality is maintained across our service area.

Did you know?
Since 1908, conventional water treatment has been used in the U.S. to eliminate the threat of virus, bacteria and other pathogens through disinfection and filtration. See more at tmwa.com/treatment.

High Quality Drinking Water

Monitored every minute of every day.

¹TMWA wells are also rigorously monitored and tested, and account for approximately 15-20% of the water delivered by TMWA.

CUSTOMER e-NEWSLETTER



The latest news from TMWA - June 2020

Your 2020 Water Quality Report is Now Available Online

TMWA is dedicated to providing reliable service and delivering high-quality drinking water to more than 425,000 residents and businesses throughout the Reno and Sparks area. In accordance with the U.S. Environmental Protection Agency's (EPA) Consumer Confidence Rule, we have now made the 2020 Annual Water Quality Report available to you. This annual report is based on data collected in 2019 to inform you about your drinking water sources, compared to drinking water standards established by the EPA. The full report is available at www.tmwa.com/waterquality2020. If you would like a print copy mailed to you, please call Water Quality & Environmental Permit Supervisor Kelli Burgess at (775) 834-8117 or email her at kburgess@tmwa.com.



Delivering high-quality water involves constant testing to ensure the water delivered to you is safe. TMWA performs more than 1,000 laboratory tests each month on more than 200 samples taken from various locations within the TMWA distribution system. You can also look up specific water quality information about your neighborhood by using our online map-based reference tool, which provides the

latest water quality data by geographic location. Sample data is updated monthly for turbidity, pH, chlorine residual, hardness, and arsenic. You can easily find your neighborhood's sample data on TMWA's Water Quality Lookup page at www.tmwa.com/water_quality.

As your community-owned water purveyor, we take pride in high-quality water that is delivered to your tap 24/7. We are always ready to answer your inquiries and discuss the water quality at your home or business. Please call our Water Quality Department at: (775) 834-8118.

TMWA is Here to Help You Prepare Your Yard for Summer



While our water supplies are in fantastic shape, it is always good to be smart about water in and around your home or business. One way to do this is by using our online Landscape Guide to help you find the perfect water-efficient plants that are best suited for our environment and your yard. Visit www.tmwa.com/landscape to quickly search through hundreds of drought-tolerant trees, shrubs, and plants.

TMWA LINKS

- www.tmwa.com
- [TMWA Events Calendar](#)
- [Customer Services](#)
- [Contact Us](#)
- [Your Water](#)
- [TMWA Conservation](#)

Help us Plan our Region's Water Future

Since water is critical to all of us in the Truckee Meadows, we encourage the community to participate as we finalize the 2020-2040 Water Resource Plan. Please join us as we conduct a series of online, public presentations where you can ask questions and provide feedback to our staff.



To see a schedule of upcoming presentations and view a draft copy of the plan, visit <https://tmwa.com/wrp2020>. There is also a form on the page where you can leave questions and comments.

Know Your Watering Days?

ASSIGNED-DAY WATERING

ODD ADDRESSES:	EVEN ADDRESSES:
✓ WEDNESDAYS	✓ TUESDAYS
✓ FRIDAYS	✓ THURSDAYS
✓ SUNDAYS	✓ SATURDAYS

NO WATERING ON HOLIDAYS. DO NOT WATER BETWEEN NOON AND 6 P.M.

Remembering your assigned days is easy. If the last number of your address is even (0, 2, 4, 6 or 8), water on Tuesdays, Thursdays and Saturdays. If it's odd (1, 3, 5, 7 or 9), water on Wednesdays, Fridays and Sundays. Please keep sprinklers off between noon and 6 p.m. to help avoid evaporative waste. Also, give sprinklers a rest on Mondays, as this is a day we replenish our water system.

[Find out more here.](#)




Truckee Meadows Water Authority is a not-for-profit, community-owned utility, overseen by elected officials and citizen appointees from Reno, Sparks and Washoe County. ©2020 Truckee Meadows Water Authority. All rights reserved.



SOCIAL MEDIA: Posted on Facebook, Instagram and Twitter

Truckee Meadows Water Authority
July 1 · 🌐

TMWA has released our annual Water Quality Report. Providing you with high-quality drinking water is not just our job, it's our life! We are proud to report our water quality is among the best in the country. <https://quality.tmwa.com/>



150 People Reached 3 Engagements **Boost Post**


3

Like Comment Share

Comment as Truckee Meadows Water Au...

Truckee Meadows Water Authority
July 6 · 🌐

TMWA has released our annual Water Quality Report. Providing you with high-quality drinking water is not just our job, it's our life! We are proud to report our water quality is among the best in the country. <https://quality.tmwa.com/>



191 People Reached 5 Engagements **Boost Post**


3 1 Share

Like Comment Share

Comment as Truckee Meadows Water Au...

Truckee Meadows Water Authority
July 17 · 🌐

TMWA has released our annual Water Quality Report. Providing you with high-quality drinking water is what we are all about at TMWA! We are proud to report our water quality is among the best in the country. <http://tmwa.com/waterquality2020>



142 People Reached 3 Engagements **Boost Post**

2

Like Comment Share

Comment as Truckee Meadows Water Au...

PAID MEDIA

RADIO :30 Ad (Spanish translated and produced at Razor)

<p>:30 Radio Copy</p> <p>ANDY: It's a fact- Making drinking water safe is one of the greatest achievements of the past century.</p> <p>WILL: It's true. At Truckee Meadows Water Authority, we use conventional treatment processes to maintain exceptional standards—standards that are nationally recognized and produce the high-quality water our customers can count on.</p> <p>ANDY: That's Will Raymond, TMWA's Manager of Operations and Water Quality, whose team has the expertise to do the job right, consistently. See how TMWA meets every Safe Drinking Water Act standard at tmwa.com.</p>
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Print Sponsored News:
<https://thisisreno.com/2020/07/tmwa-water-quality-is-paramount-to-our-region-sponsored/>



TMWA: Water quality is paramount to our region (sponsored)

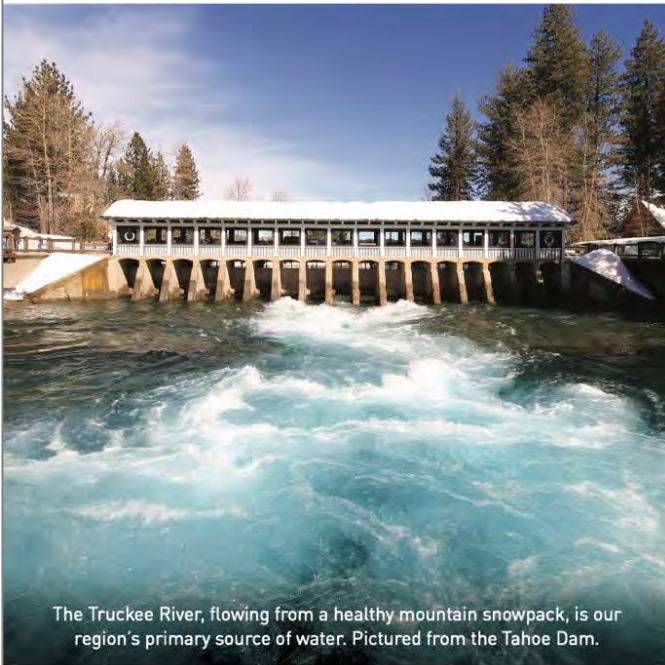
By ThisIsReno | July 22, 2020



Print 1/4 page

High Quality Drinking Water — At Your Nearest Faucet

It's simply exceptional: Our water straight from the tap has consistently fulfilled Safe Drinking Water standards year after year. And we perform over 1,000 tests each month to ensure it always stays this way throughout the Truckee Meadows.



The Truckee River, flowing from a healthy mountain snowpack, is our region's primary source of water. Pictured from the Tahoe Dam.



See the 2020 Water Quality Report for yourself, in Spanish and English at www.tmwa.com/waterquality2020.

Agua Potable De Alta Calidad — Directamente Ha Su Grifo

Es simplemente excepcional: nuestra agua directa del grifo siempre cumple con los estándares de Agua Potable Segura año tras año. Hacemos más de mil pruebas cada mes para asegurarnos que siempre estemos cumpliendo con estos estándares.



El Río Truckee, que fluye de nuestras montañas cubiertas de nieves saludables, es la fuente principal de agua para nuestra región. Foto de la Presa de Tahoe.



Consulte el Informe de Calidad del Agua 2020 por usted mismo, en español e inglés en www.tmwa.com/waterquality2020.

EARNED MEDIA

Television

<https://www.ktvn.com/clip/15106541/tmwa-report-shows-continued-high-quality-drinking-water>