



TRUCKEE MEADOWS WATER AUTHORITY

Board of Directors

AGENDA

Wednesday, April 17, 2024 at 10:00 a.m.

Sparks Council Chambers, 745 4th Street, Sparks, NV

MEETING VIA TELECONFERENCE & IN-PERSON

MEMBERS OF THE PUBLIC MAY ATTEND VIA THE WEB LINK, OR
TELEPHONICALLY BY CALLING THE NUMBER, LISTED BELOW.

(be sure to keep your phones or microphones on mute, and do not place the call on hold)

Please click the link below to join the webinar:

<https://tmwa.zoom.us/j/89110512999?pwd=arIPdIzbhulpZp5UVyPbTjxOsLLXAL.1>

Passcode: 771487

Or call:

Phone: (888) 788-0099

Webinar ID: 891 1051 2999

Board Members

Chair Kristopher Dahir – City of Sparks

Paul Anderson – City of Sparks

Jenny Brekhus – City of Reno

Devon Reese – City of Reno

Vice Chair Naomi Duerr – City of Reno

Alexis Hill – Washoe County

Clara Andriola – Washoe County

NOTES:

1. The announcement of this meeting has been posted at the following locations: Truckee Meadows Water Authority (1355 Capital Blvd., Reno), at <http://www.tmwa.com>, and State of Nevada Public Notice Website, <https://notice.nv.gov/>.
2. TMWA meetings are streamed online at <https://www.youtube.com/@tmwaboardmeetings6598>.
3. In accordance with NRS 241.020, this agenda closes three working days prior to the meeting. We are pleased to make reasonable accommodations for persons who are disabled and wish to attend meetings. If you require special arrangements for the meeting, please call (775) 834-8002 at least 24 hours before the meeting date.
4. Staff reports and supporting material for the meeting are available at TMWA and on the TMWA website at <http://www.tmwa.com/meeting/>. Supporting material is made available to the general public in accordance with NRS 241.020(6).
5. 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.
6. Asterisks (*) denote non-action items.
7. Public comment during the meeting is limited to three minutes and is allowed during the two public comment periods rather than each action item. The public may sign-up to speak during the public comment period or on a specific agenda item by completing a "Request to Speak" card and submitting it to the clerk. In addition to the public comment periods, the Chair has the discretion to allow public comment on any individual agenda item, including any item on which action is to be taken.
8. Written public comment may be provided 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.
9. In the event the Chair and Vice-Chair are absent, the remaining Board members may elect a temporary presiding officer to preside over the meeting until the Chair or Vice-Chair are present (**Standing Item of Possible Action**).
10. 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.
11. The Board may attend and participate in the meeting by means of remote technology system. Members of the public wishing to attend and/or participate by providing public comment may do so either in person at the physical location of the meeting listed above or virtually. To attend this meeting virtually, please log into the meeting using the link and/or phone number noted above.

¹ The 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 March 20, 2024 meeting of the TMWA Board of Directors (**For Possible Action**) (**5min**)
7. Discussion and action on appointments to the Standing Advisory Committee (SAC) to fill the commercial customer alternate representative, and other possible vacancies for terms beginning May 1, 2024 to December 31, 2025 from the following pool of candidates listed in alphabetical order: Ryan Greenhalgh — Sonia Folsom (**For Possible Action**) (**5min**)
8. Water Supply Update — Bill Hauck* (**5min**)
9. Presentation on proposed Conservation, Communications and Outreach Plan for 2024, discussion and possible direction to staff — Robert Charpentier and Cammy Elquist LoRe (**For Possible Action**) (**10min**)
10. Presentation on proposed planning process for the 2025-2045 Water Resource Plan — Kara Steeland (**For Possible Action**) (**5min**)
11. Presentation and informational report on proposed future adjustments to Schedule WSF Fees — David Kershaw and Danny Rotter* (**10min**)
12. PUBLIC HEARING ON RATE AMENDMENTS
 - A. Introduction and first reading of amendments to TMWA Rate Schedule WSF – Water System Facility Charges revising area fee, supply and treatment, and storage unit costs — David Kershaw and Danny Rotter (**For Possible Action**) (**10min**)
 - B. Public comment — limited to no more than three minutes per speaker*
- CLOSE PUBLIC HEARING
13. Discussion and action on Resolution No. 324: A resolution concerning the financing of water projects; declaring the Truckee Meadows Water Authority’s intent regarding reimbursement from one or more future bond issues; authorizing authority representatives to request that such bonds in the maximum aggregate principal amount of \$55,000,000 be purchased by the state of Nevada account for the revolving fund; and providing the effective date — Matt Bowman (**For Possible Action**) (**10min**)

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14. Discussion and possible action on adoption of Resolution No. 325: 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 of Northern Nevada to fund such projects from Fund proceeds (Resolution may reflect action taken in one or more votes on recommended projects) — Sonia Folsom and Kara Steeland **(For Possible Action)**
(10min)
15. Discussion and action, and possible direction to staff regarding the reappointment of Eddy Quagliari to represent TMWA on the Carson-Truckee Water Conservancy District Board — John Zimmerman **(For Possible Action) (5min)**
16. General Manager’s Report* **(5min)**
17. Public comment — limited to no more than three minutes per speaker*
18. Board comments and requests for future agenda items*
19. Adjournment (For Possible Action)

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TRUCKEE MEADOWS WATER AUTHORITY
DRAFT MINUTES OF THE MARCH 20, 2024
MEETING OF THE BOARD OF DIRECTORS

The Board of Directors met on Wednesday, March 20, 2024 at Sparks Council Chambers. Chair Dahir called the meeting to order at 10:15 a.m.

1. ROLL CALL

Directors Present: Paul Anderson, *Clara Andriola, , Kristopher Dahir, Naomi Duerr, Alexis Hill, **Devon Reese, and ***Alternate Megan Ebert.

Directors Absent: Jenny Brekhus

**Director Andriola left the meeting at 11:17 a.m.*

***Director Reese attended virtually via Zoom and left the meeting at 11:29 a.m.*

****Alternate Ebert attended virtually via Zoom.*

A quorum was present.

2. PLEDGE OF ALLEGIANCE

The pledge of allegiance was led by Leo Drozdoff, TMWA Lobbyist.

3. PUBLIC COMMENT

There was no public comment.

4. POSSIBLE BOARD COMMENTS OR ACKNOWLEDGEMENTS

There were no board comments.

5. APPROVAL OF THE AGENDA

Upon motion by Director Andriola, second by Director Duerr, which motion duly carried by unanimous consent of the Directors present, the Board approved the agenda.

6. APPROVAL OF THE MINUTES OF THE FEBRUARY 21, 2024 MEETING

Upon motion by Director Anderson, second by Director Hill, which motion duly carried by unanimous consent of the Directors present, the Board approved the February 21, 2024 minutes.

Chair Dahir called for a closed session at 10:18 a.m.

Chair Dahir reconvened the meeting at 10: 41 a.m.

7. WATER SUPPLY UPDATE

Bill Hauck, TMWA Water Supply Supervisor, reported that the last storm increased the snowpack levels to 98% of normal and seven inches of water; there is no drought in the Sierra Nevada Range; all reservoirs on the Truckee River system including Lake Tahoe are projected to fill by early June; normal Truckee River flows are projected through at least 2025 and into 2026; it will be normal operations for TMWA again this year.

8. INFORMATIONAL REPORT ON AMERICAN FLAT ADVANCED PURIFIED WATER DEMONSTRATION FACILITY

Danny Rotter, TMWA Director of Engineering, and Angel Lacroix, TMWA Senior Design Engineer, presented the staff item. Ms. Lacroix provided a detailed overview of the timeline for the project, including public outreach events, design status, permitting activities, projected construction and startup of the facility.

Director Duerr stated that Reno City Council dedicated \$80m in cash and \$70m in bonds to support the project and noted that there is a need for a community center in the north Valleys to hold neighborhood advisory board meetings. Alternate Ebert agreed. Ms. Lacroix replied staff would see if it was feasible when they get to the design stage for the education center.

Director Anderson congratulated staff on their hard work and noted one of his takeaways from the WaterReuse Symposium he attended is that most facilities have a learning center for the public and when designing the facilities, it allowed the team to make adjustments towards the end of the project, if necessary. He also urged staff to engage the Board especially during outreach events.

Chair Dahir agreed and said it is an exciting project that affects our region.

9. DISCUSSION AND POSSIBLE ACTION ON THE TMWA TENTATIVE BUDGET FOR THE FISCAL YEAR ENDING JUNE 30, 2025 AND DRAFT CAPITAL IMPROVEMENT PLAN (CIP) FOR FISCAL YEARS 2025 THROUGH 2029

Matt Bowman, TMWA Chief Financial Officer, and David Diegle, TMWA Engineer Manager, presented the tentative budget for FY 2025 and draft FY 2025-2029 CIP.

Director Duerr inquired about TMWA's debt coverage ratio. Mr. Bowman replied it would go above the required bond policy, but by using the established Rate Stabilization Fund (RSF) it would not fall below 1.5x and the RSF would be replenished over time.

Chair Dahir noted that TMWA raised rates appropriately and by using the RSF it ensured the lowest rate increase possible. He also commented on how critical the preventative maintenance program for TMWA's infrastructure is to keeping rates low as it is more costly to replace aging infrastructure.

Upon motion by Director Anderson, second by Director Duerr, which motion duly carried by unanimous consent of the Directors present, the Board approved the TMWA Tentative Budget for the Fiscal Year ending June 30, 2025 and Draft Capital Improvement Plan for Fiscal Years 2025 through 2029.

10. DISCUSSION AND ACTION, AND POSSIBLE AUTHORIZATION FOR GENERAL MANAGER TO SIGN THE INTERLOCAL AGREEMENT BETWEEN TMWA AND THE CITY OF RENO FOR COST-SHARE OF WASTEWATER SAMPLING FROM THE RENO STEAD WATER RECLAMATION FACILITY

Lydia Teel, TMWA Emerging Resources Program Administrator, and Dan Nubel, TMWA Staff Attorney, presented the interlocal agreement for Board consideration.

Upon motion by Director Duerr, second by Director Hill, which motion duly carried by unanimous consent of the Directors present, the Board approved authorization for General Manager to sign the Interlocal Agreement between TMWA and the City of Reno for cost-share of wastewater sampling from the Reno Stead Water Reclamation Facility.

11. GENERAL MANAGER'S REPORT

The General Manager's report as presented.

12. PUBLIC COMMENT

There was no public comment.

13. BOARD COMMENTS AND REQUESTS FOR FUTURE AGENDA ITEMS

Chair Dahir

14. ADJOURNMENT

With no further discussion, Chair Dahir adjourned the meeting at 11:31 a.m.

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

Sonia Folsom, Board Clerk.

****Director Andriola was present for agenda items #1 through part of #9 only.***

*****Director Reese was present for agenda items #1 through #9 only.***



STAFF REPORT

TO: Board of Directors
THRU: John R. Zimmerman, General Manager
FROM: Sonia Folsom, TMWA SAC Liaison
DATE: April 8, 2024
SUBJECT: **Discussion and action on appointments to the Standing Advisory Committee (SAC) to fill the commercial customer alternate representative, and other possible vacancies for terms beginning May 1, 2024 to December 31, 2025 from the following pool of candidates listed in alphabetical order: Ryan Greenhalgh**

Recommendation

Staff is presenting the SAC recommendation to fill the vacancies for the commercial customer alternate representative vacancy with Ryan Greenhalgh, respectively.

Background

The SAC was created in 2005 to review budgets, rate proposals and other matters as directed by the Board. In 2016, the TMWA Board decided to remove the two appointments made by the Northern Nevada Water Planning Commission and the Office of Consumer Advocate and replace those with two at-large positions. The committee currently consists of Board-appointed representatives of ten customer classes and four other seats held by representatives of community-interest groups (**Attachment 1**). TMWA customers interested in becoming a SAC member can submit a letter of interest at any time and will be presented to the SAC when a vacancy opens for consideration.

Discussion

TMWA received one application (**Attachment 2**) for:

- Commercial Alternate – 1 Vacancy; 1 Applicant

TMWA Standing Advisory Committee
Term Appointments
2024-2025 Membership List

Customer Class	Primary Representative	Member Since	Term Ends	Alternate Representative	Member Since	Term Ends
Wholesale (Sun Valley)	Chris Melton	2020	12/31/2025	<i>Vacant</i>		
Irrigation	Neil McGuire	2005	12/31/2024	<i>Vacant</i>		
Multi-family Residential	<i>Vacant</i>			Jonnie Pullman	2012	12/31/2025
Commercial	John Krmptotic	2020	12/31/2025	<i>Vacant</i>		
Senior Citizen	Robert Chambers	2005	12/31/2024	Alex Talmant	2021	12/31/2025
At-Large 1	Ken McNeil	2013	12/31/2024	<i>Vacant</i>		
At-Large 2	Jordan Hastings	2017	12/31/2024	Ken Becker	2017	12/31/2024
Residential:						
Representative 1	Dale Sanderson	2017	12/31/2024	<i>Vacant</i>		
Representative 2	Fred Arndt	2017	12/31/2024	<i>Vacant</i>		
Representative 3	Jerry Wager	2014	12/31/2024	Kevin Ryan	2021	12/31/2025
Appointments:						
BANN	Colin Hayes	2010	12/31/2025	Justin McDougal	2024	12/31/2025
Reno-Sparks Chamber	Brian Bosma	2024	12/31/2025	Conner Naisbitt	2024	12/31/2025



Truckee Meadows Water Authority
1355 Capital Blvd.
Reno, NV 89502

RE: TMWA Strategic Advisory Committee – Commercial Alternate Candidate

To Whom it May Concern,

I am interested in joining the TMWA Strategic Advisory Committee as the Commercial Alternate. I have a civil engineering degree from The University of Nevada, Reno, and I've run a successful construction business focused on public projects. This experience has taught me a lot about how infrastructure and government rules work.

Right now, I'm on the executive board of the Associated General Contractors (AGC), showing my dedication to construction and community involvement. Being part of Last Chance Ditch also shows my interest in water issues, which the SAC deals with.

I believe my education, business experience, AGC role, and involvement in Last Chance Ditch make me a good fit for the Commercial Alternate position. I'm excited to use my skills to help manage water better in our community.

Sincerely,

Ryan Greenhalgh





Water Supply Update

Board of Directors Meeting

April 17, 2024

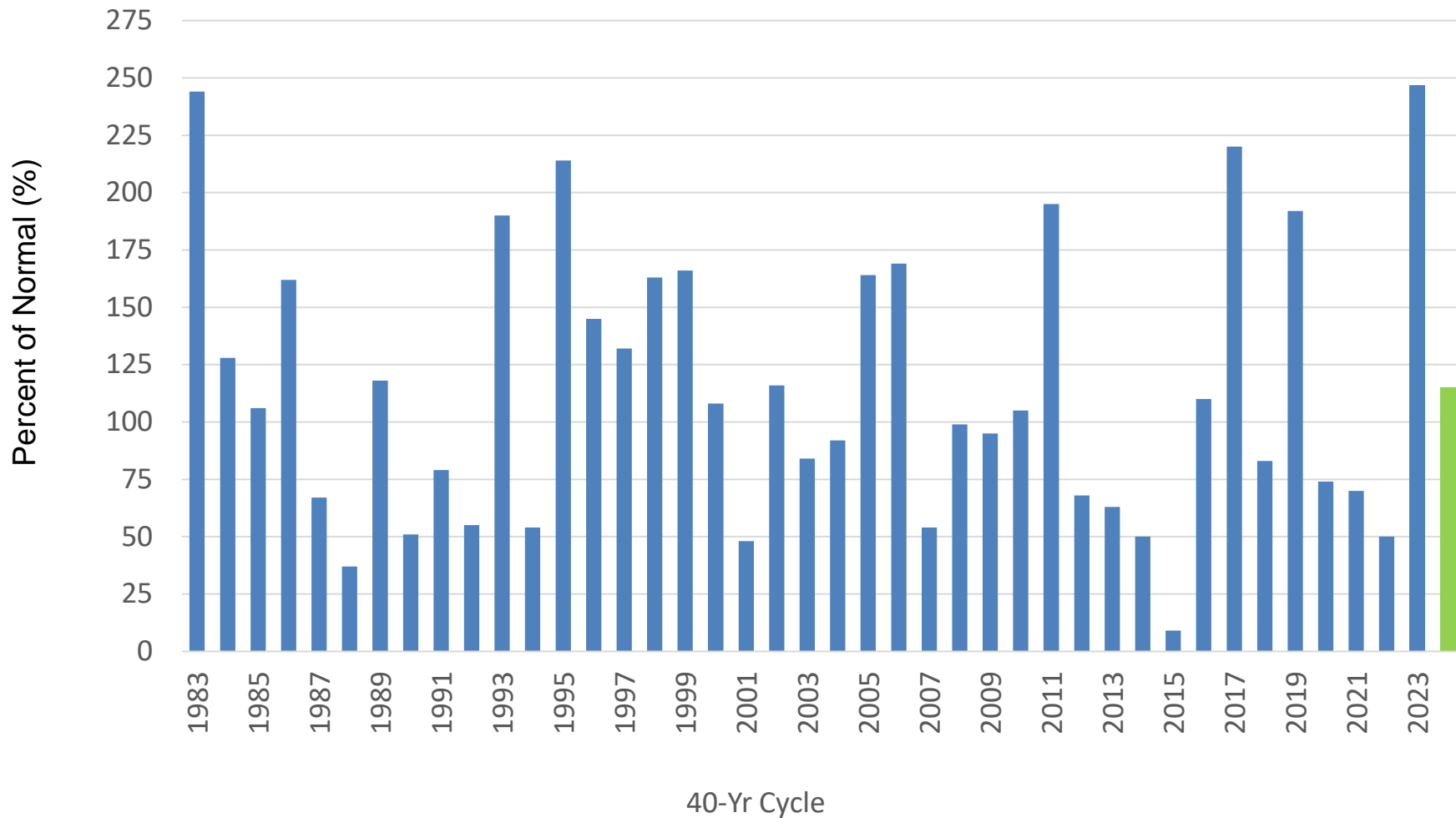


↑ Sacramento
INTERSTATE 80
Reno →

RECREATION ENTRANCE



April 1 Lake Tahoe Basin Snowpack

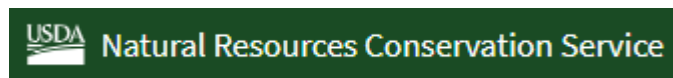




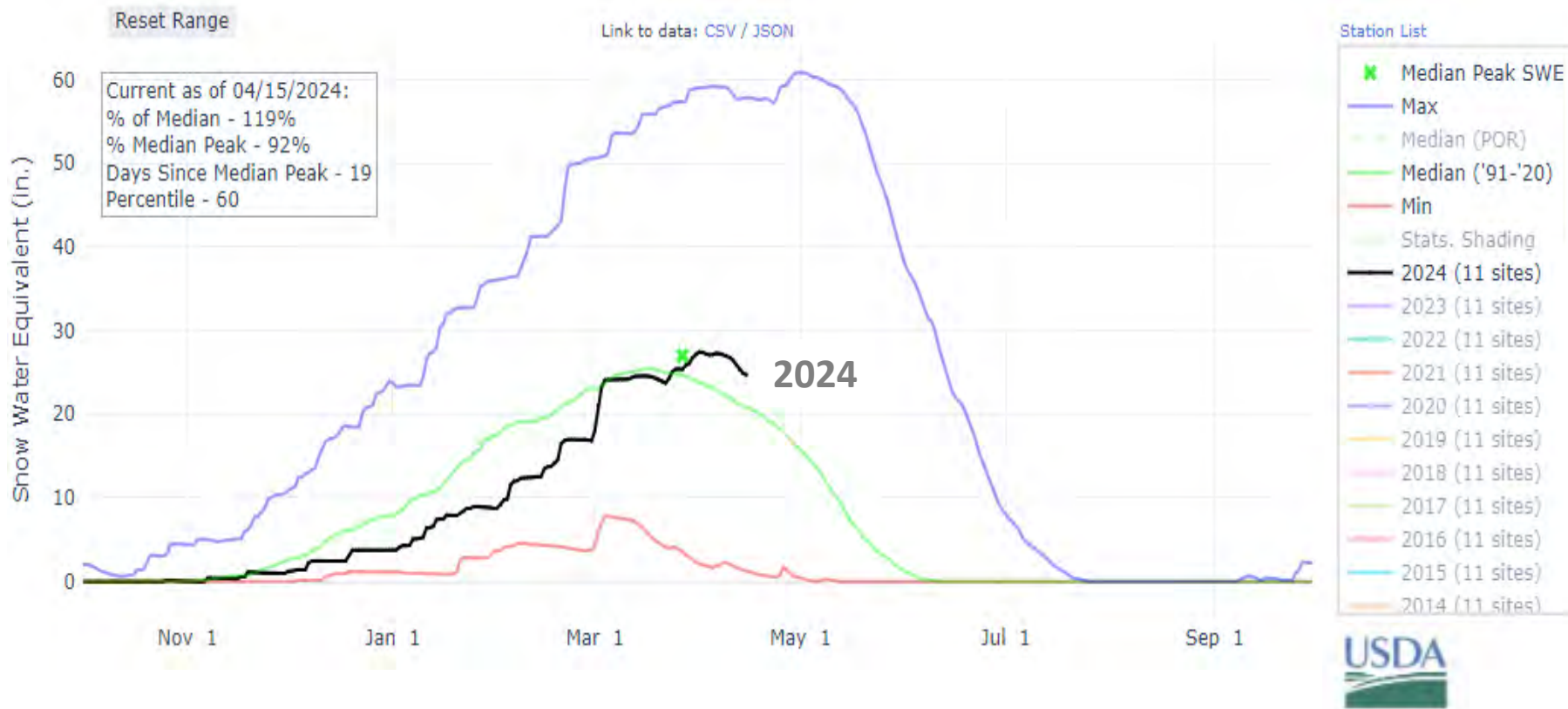
ake PTZ

Lake Tahoe Basin Snow Water Equivalent Report (NRCS)

California/Nevada SNOTEL Snow/Precipitation Update Report							
Based on Mountain Data from NRCS SNOTEL Sites							
Provisional data, subject to revision							
Data based on the first reading of the day (typically 00:00) for Monday, April 01, 2024							
Basin Site Name	Elev (ft)	Snow Water Equivalent			Water Year-to-Date Precipitation		
		Current (in)	Median (in)	Pct of Median	Current (in)	Median (in)	Pct of Median
LAKE TAHOE							
Mt Rose Ski Area	8801	36.6	34.8	105	42.4	42.0	101
Heavenly Valley	8534	24.8	21.0	118	26.8	23.8	113
Carson Pass	8355	31.7	29.5 ₍₁₆₎	107	28.7	31.2 ₍₁₆₎	92
Palisades Tahoe	8013	33.2	44.2	75	42.1	47.8	88
Marlette Lake	7884	23.8	19.2	124	25.0	23.6	106
Hagans Meadow	7742	19.4	12.2	159	24.0	22.7	106
Echo Peak	7653	41.7	35.6	117	40.8	42.6	96
Rubicon #2	7619	27.7	23.8	116	32.1	29.6	108
Tahoe City Cross	6797	15.0	7.6	197	31.0	28.2	110
Ward Creek #3	6745	44.6	33.8	132	51.2	53.6	96
Fallen Leaf	6242	4.2	1.3	323	22.0	24.8	89
Basin Index (%)		115			99		



Lake Tahoe Basin Snowpack Comparison (NRCS)



April 02, 2024 NRCS Projected Streamflow Forecast

- Lake Tahoe Gates Closed Rise (1.16' 30-yr median GCR):

1.87' (161% Avg.) 05% COE (Apr-High)

1.40' (121% Avg.) 50% COE (Apr-High)

1.00' (86% Avg.) 95% COE (Apr-High)

- Truckee River at Farad, CA (225 KAF 30-yr median A-J):

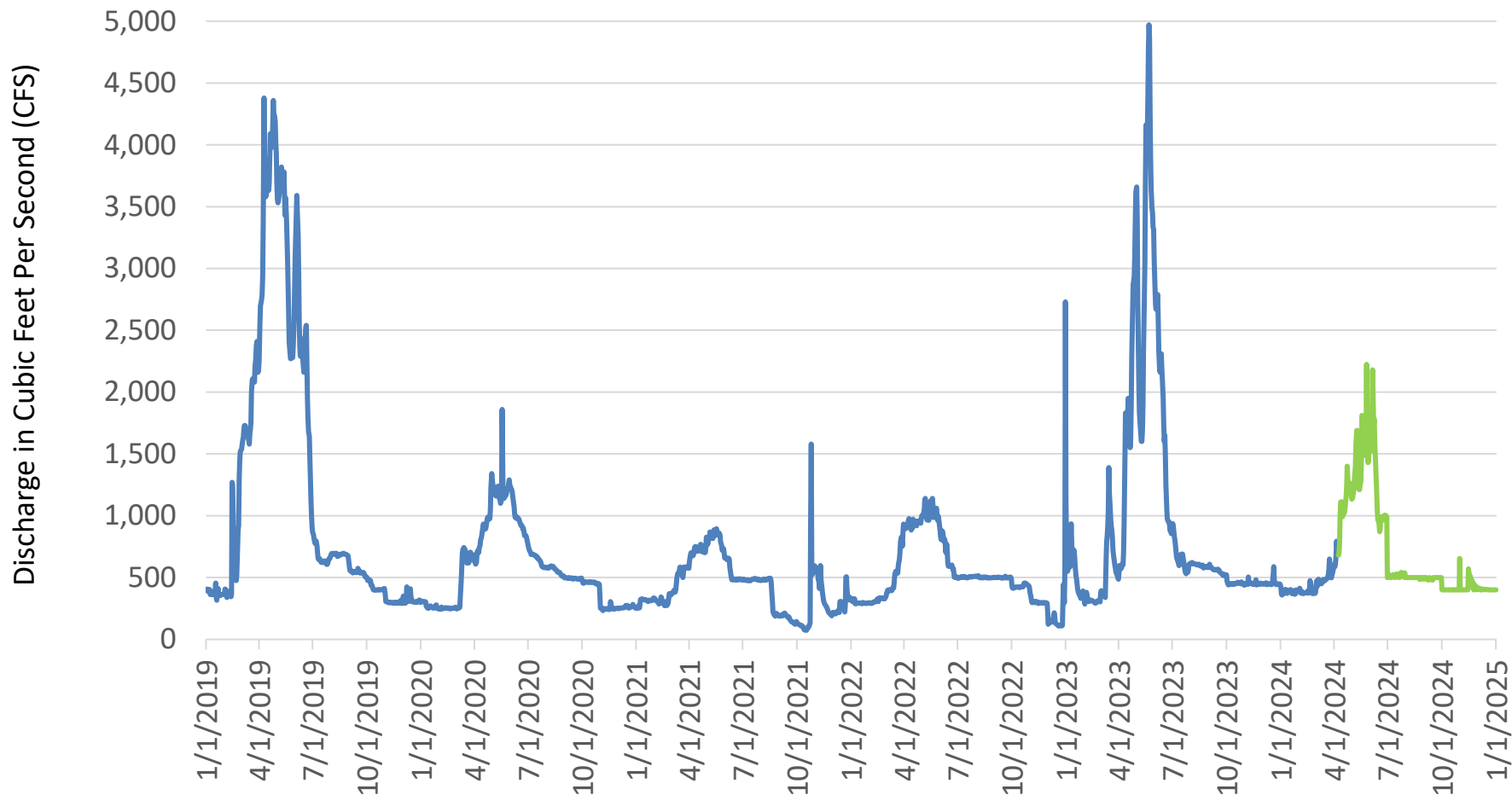
320 KAF (142% Avg.) 05% COE (Apr-Jul)

275 KAF (122% Avg.) 50% COE (Apr-Jul)

225 KAF (100% Avg.) 95% COE (Apr-Jul)



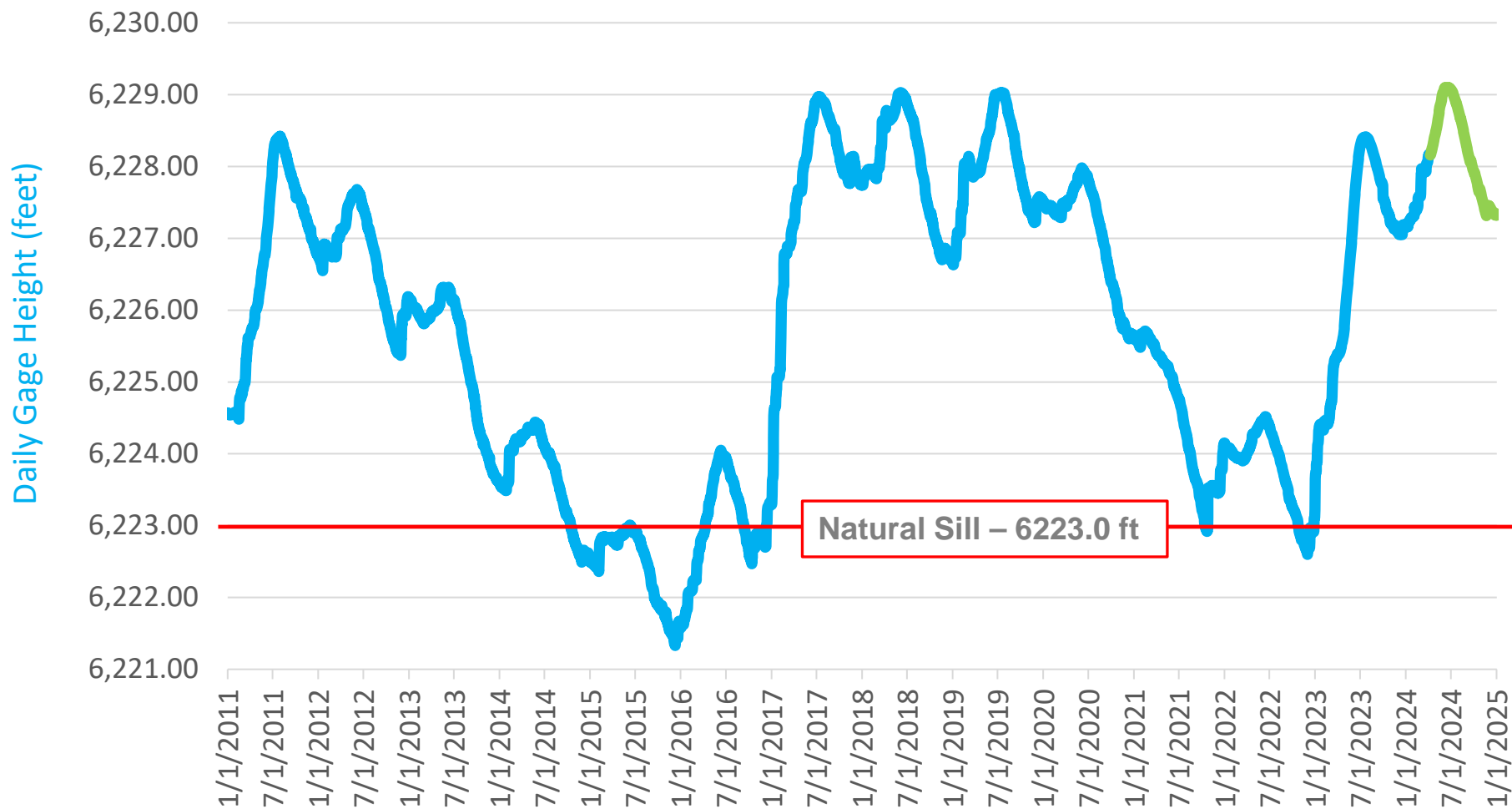
Actual and Projected Truckee River Flow through 2024 @ CA/NV State Line



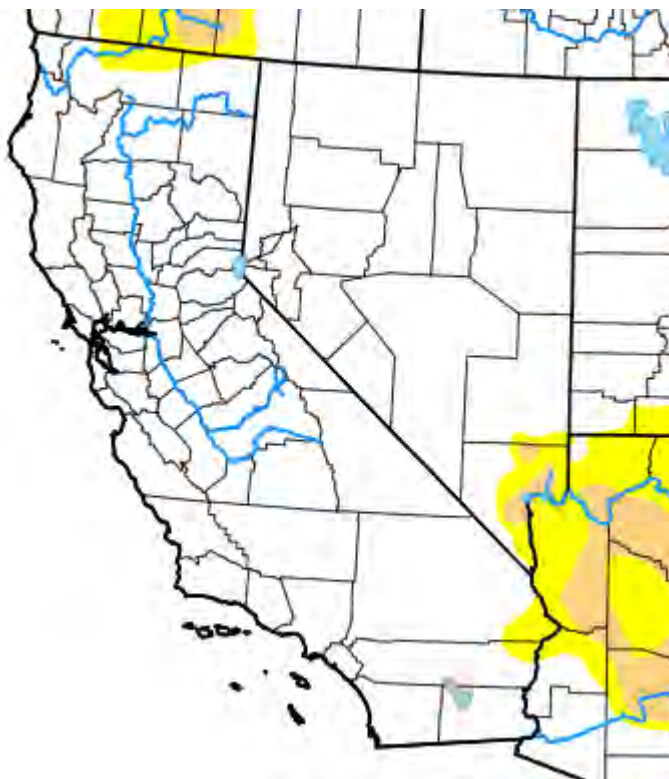
Truckee River System



Lake Tahoe Elevation Actual and Projected (2011-2024)



U.S. Drought Monitor



Map released: Thurs. April 11, 2024

Data valid: April 9, 2024 at 8 a.m. EDT

Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data



The U.S. Drought Monitor is produced through a partnership between the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture and the National Oceanic and Atmospheric Administration.

National Drought Mitigation Center
University of Nebraska-Lincoln

Key Points

- The Sierra Nevada snowpack building season finished on an extremely positive note after a slow start, ending above normal for the second year in a row
- Lake Tahoe Basin snowpack was officially measured @ 114% of normal on April 1st
- Above average runoff is projected for both the Truckee River and Lake Tahoe basins
- All upstream reservoirs (including Lake Tahoe) will completely fill this year
- Normal river flows are projected for *at least* the next two years (2024 and 2025) and into 2026 based on that fact
- This means normal water supply operations once again for TMWA
- The Sierra Nevada range and the vast majority of our state is currently drought-free
- The regional water supply outlook couldn't be any better

Thank you!

Questions?

Bill Hauck, Water Supply Supervisor
Email: bhauck@tmwa.com
O: (775) 834-8111 M: (775) 250-1333

Communication and Stakeholder Engagement Plan 2024 Update



Vision: To enhance the quality of life in the Truckee Meadows by delivering exceptional, customer-focused water services.

Standing Responsibility: TMWA's Communication Pillars

All outreach efforts support one or more of the following core messaging categories:



Water Quality

Objective: Establish trust regarding the standards and rigor applied to produce high-quality drinking water.

Outcome: Consumer confidence



Conservation

Objective: Ensure customer water usage is responsible and meets TMWA's requirements and obligations.

Outcome: Customer behavior



Water Leadership

Objective: Promote TMWA's role as a regional steward for comprehensive water resource management.

Outcome: Water resource literacy



Customer Experience

Objective: Support customer experiences and opportunities to earn high satisfaction.

Outcome: Transaction trust and business ease

Standing Responsibilities: Core Tactics and Timing

Timing	Outreach Activity	Communication Pillars		
		Water Quality	Conservation	Water Leadership
April	Workshops: Irrigation System Start-Up		√	
April-Sept	Social Rotations: Landscaping Guide & Turf Alternatives		√	
May	Event (webinar): Water Supply Outlook		√	√
May	Event (in-person): Smart About Water Day	√	√	√
May	Social Rotations: Drinking Water Week & Drip System Workshops	√		
May	Tour: Tahoe to Tap	√		√
May	Campaign: Assigned Day Watering		√	
May	Workshops: Drip System Maintenance		√	
June-Sep	Social Rotations: Assigned-Day Watering		√	
June	Workshops: Irrigation Basics		√	
July	Campaign: Water Quality Report & Neighborhood Look-up	√		
Aug/Sept	Tours: Hydroelectric Facilities			√
September	Tours: Water Treatment Plant Tours	√		
October	Workshops: Winterization		√	

2024 Outlook: Support TMWA's Customer-focused Projects and New Initiatives (bolded)

Informed by customer surveys, communication team workshops and stakeholder meetings (internal and external).

Onboarded

Aware

Engaged

Supportive

Advocate

Streamline signups for paperless billing and autopay.

Create educational materials for water treatment plant tours (student groups).

Support local water system awareness through educational collaborations.

Create broader customer engagement with Advanced Metering.

Continue supporting OneWater Nevada to demonstrate the pragmatic value of potable reuse.

Coordinated outreach with MTRWF Partnership on protection of the watershed.

Leverage internal expertise & external endorsements to bolster legitimacy of Advanced Purified A+ water.

New Initiative Overview: Educational Outreach

Support creation of locally relevant learning modules through collaboration with experts.

Current vetting of High School STEM lessons include:



Environmental Science

Mitigating natural hazards (fire) for watershed and water supply protection



Earth Science

Using aquifer storage for water supply redundancy



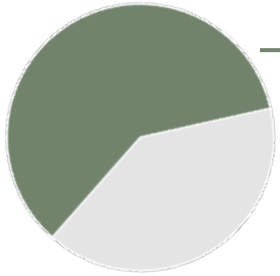
Chemistry & Biology

Role of science in the production of safe drinking water

Includes professional development opportunities for teachers to gain continuing education credit.

New Initiative Overview: New Metering Technology

Promote customer benefits through TMWA's Advanced Meter Infrastructure (AMI)



Over 60% of TMWA's customer base are projected to have Advanced Water Meters installed by July.

Conservation Messaging Focus:

- + Enable leak alerts
- + Set-up high-usage alerts
- + Get near real-time water use insight (hourly aggregations)





American Water Works Association (AWWA) research reports when customers engage with AMI portals, average daily water use decreases by 6% - 12%.

New Initiative Overview: Watershed Protection Awareness

Collaborate and help coordinate outreach for Middle Truckee River Watershed Forest Partnership.



Take an active lead in the partnership's strategic communications plan. Efforts will focus on helping the partnership achieve its long-term goals by focusing on outcomes associated with our region's quality of life, such as:

-  Reducing the risk of catastrophic wildfires
-  Safeguarding water and air quality
-  Protecting fish and wildlife habitat
-  Improving recreational opportunities and experiences

New Initiative Overview: Bolster Legitimacy of A+ Advanced Purified Water

Leverage expertise and endorsements about the safety and practicality of the product.



Create limited series video shorts (+/- 5 topics) with subject matter experts, community leaders and professional influencers to discuss benefits of producing Advanced Purified A+ Water in the Truckee Meadows.

- 📷 Resource Management
- 📷 Ecological
- 📷 Conservation
- 📷 Public Health

Roll Out Timing: Following NDEP permitting

Advanced Purified A+ Water: Communication Coordination via OneWater Nevada

NDEP Permit Timing: A+ Irrigation Use

	Q2	Q3	Q3	Q4	Q1 2025	Q2 2025
Core Stakeholders Engagement	CA Reuse tours: Key staff, Health officials			Reuse facility tours for newly elected officials	Webinar: APWF and A+ Progress Update	
Public Outreach	Smart About Water Day	Conduct community influencer interviews		Speaker's Bureau for civic orgs	Visit CABs NABs Long form media pitch	
Asset Development	Integrate activities for educational trailer	Record video shorts		Release short videos (3-4 minutes)		



STAFF REPORT

TO: Board of Directors
THRU: John R. Zimmerman, General Manager
FROM: Kara Steeland, Sr. Hydrologist & Watershed Coordinator
DATE: April 9, 2024
SUBJECT: **Presentation on proposed planning process for the 2025-2045 Water Resource Plan**

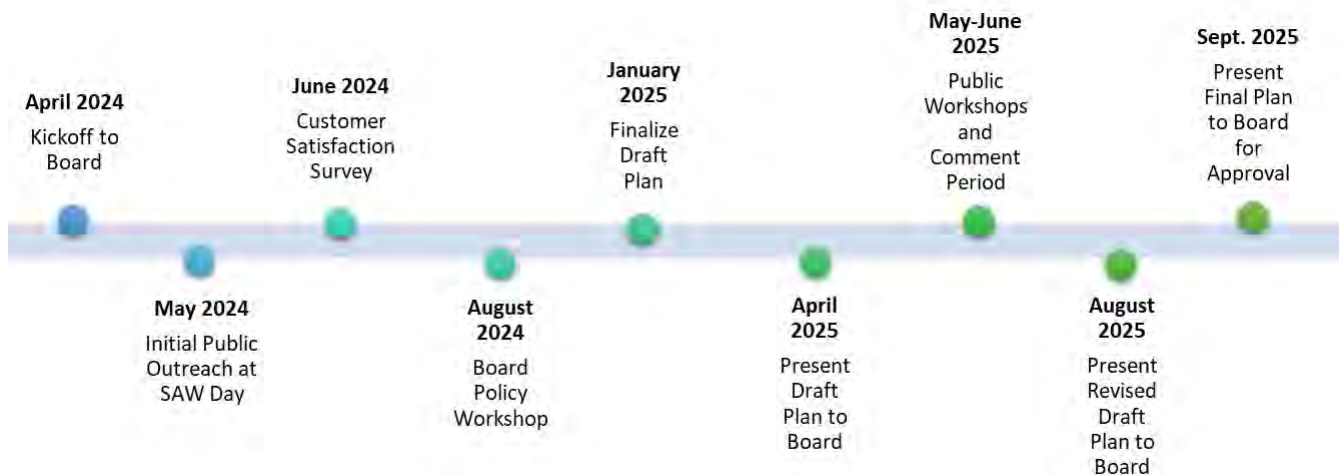
Summary

Every five years, TMWA updates its Water Resource Plan (WRP) to account for regional changes that may impact water resources over the 20-year planning horizon and beyond. TMWA uses an integrated planning approach, and the WRP helps guide the development of TMWA’s Capital Improvement Plan, Water Facility Plan, and Funding Plan.

TMWA has started the plan update process for its *2025-2045 Water Resource Plan (2045 WRP)*. The user-friendly, engaging format in the current *2020-2040 Water Resource Plan (2040 WRP)* has been well received and has been a valuable tool for educating the community on regional water resource topics. The 2045 WRP will build on the success of the existing plan. The goal is to bring the final version of the 2045 WRP to the Board for approval in September 2025.

The draft timeline below shows key milestones and is summarized in more detail on Page 2.

2045 WRP PLANNING MILESTONES



Board Involvement

- A workshop will be held with the Board in August 2024 to discuss policies and recommended actions to be included in the 2045 WRP.
- A draft version of the WRP will be brought before the Board in April 2025 prior to the public comment period.
- After the public comment period, a revised version of the WRP will be presented to the Board for final feedback in August 2025.
- The final 2045 WRP will be presented to the Board for approval in September 2025.

Public Outreach

- Obtain initial input from the community about the WRP at Smart About Water Day in May 2024.
- The customer outreach survey released in June 2024 will be used to obtain feedback about customer concerns and interests regarding the future of the region's water supplies.
- A comprehensive outreach plan will be created to ensure that there are ample opportunities for public presentations and feedback during the public comment period in May and June 2025.

Sections to be Updated

The entire plan will be revised to reflect changes that have occurred over the past five years, and all relevant graphs, tables, figures, and projections will be updated. Highlighted below are some key sections that will be revised or added to the 2045 WRP.

- Regional Challenges
 - A section summarizing regional challenges related to water resources will be added to the *Introduction* chapter to provide additional context.
- Advanced Purified Water
 - Advanced Purified Water was briefly discussed in the previous plan, but this section will be moved to the *Current Water Resources* chapter and expanded due to progress on the American Flat facility.
- Future Water Supply Scenarios
 - The existing climate change scenarios used in the 2040 WRP are still considered valid and reasonable. These scenarios will be re-evaluated to assess how additional water resource management strategies could offset future impacts.
 - An additional study that analyzes the previous 500 years of Truckee River hydrology will be used to assess how TMWA's current water resources would fare under historic hydrologic conditions.
- Future Water Resource Options
 - These options will be updated, including the incorporation of future options such as increased groundwater banking and direct potable reuse.
- Watershed Protection
 - This section will be expanded to include the Middle Truckee River Watershed Forest Partnership and other source water protection efforts.
- Policies and Recommended Actions
 - The Board will help guide the development of new or revised policies and/or recommended actions to be included in the 2045 WRP.



STAFF REPORT

TO: TMWA Board of Directors
THRU: John R. Zimmerman, General Manager
FROM: Matt Bowman, CFO
Danny Rotter, Director of Engineering
David Kershaw, Engineering Manager
DATE: April 17, 2024
SUBJECT: **Presentation and informational report on proposed future adjustments to Schedule WSF Fees**

Summary:

Water System Facility Charges (new business connection fees) were last updated in 2022. Staff has recently completed the 2020-2040 Water Facility Plan Update and is recommending revisions to Rate Schedule Water System Facility (WSF) Charges as discussed herein. Staff provided public notice at the October 2023 TMWA Board Meeting of the proposed schedule to complete the analysis and implement potential revisions to the WSF Charges. Staff provided public notices of the revisions and held multiple public workshops including in person and on zoom. The revisions are proposed to become effective July 1, 2024.

Background:

Rate Schedule WSF contains Area Fee and Facility Charge Unit Costs which are used to calculate fees that TMWA collects from new development to reimburse the utility for regional facility improvements installed by TMWA to meet the demands of new growth. Area Fee Unit Costs, Supply and Treatment Facility Unit Costs, and Storage Facility Unit Costs apply only to developers applying for new or expanded water service, and do not affect the costs or rates to serve existing customers. In other words, pursuant to Board direction on customer rates: growth pays for growth.

Area Fee Unit Costs are applied on a maximum day demand and geographic basis based on the cost to expand the capacity of the water system in specific areas where growth is occurring.

The process to update the Developer Fees are as follows:

1. Utilize the most recent updated Water Facility Plan (2020-2040 WFP) to determine if recommended improvements are still applicable and/or if new/additional improvements are required.
2. Incorporate facility construction costs from projects completed since the last fee update.

3. Based on recent bid results, economy and market trends, refine future facility cost estimates used in updating of fees.
4. Update Facility Charges and Area Fees collected.
5. Update the GPM capacity added/sold in each Area.
6. Calculate New Unit Costs as follows:

Actual Costs Allocated to Growth	
+ Applicable Finance Charges	
+ Estimated Cost of Future Facilities	Expected Growth (GPM)
- <u>Fees Collected</u>	- <u>GPM Added/Sold</u>
= Remaining Cost of Growth	= Remaining GPM

$$\text{Remaining Cost of Growth} \div \text{Remaining GPM} = \text{Unit Cost } (\$/\text{GPM})$$

$$\text{Actual Fee Paid } \$ = \text{Unit Cost } (\$/\text{GPM}) \times \text{Max Day Demand (GPM)}$$

Results – WSF Fees:

The primary factor influencing the proposed revisions are construction cost increases. A list of historical facility costs is attached to this report. The construction cost increases highlighted in the table are significant with some of the higher increases occurring since 2020 (20%-175%). Staff has generally used the construction unit costs highlighted at the bottom of the historical facility costs list to update future facility construction cost estimates unless more accurate data was available for a specific facility. Facility cost estimates include engineering and construction management costs, overheads and construction contingencies to arrive at a total project cost estimate. Another component of an Area Fee is a finance charge or carrying charge to ensure that growth does pay for growth by covering the utility’s cost to finance the infrastructure ahead of regional growth.

A summary of existing fees compared to the proposed fees is attached along with a summary of how the proposed change in the WSF Charges impact typical Single Family Residential (SFR) and Multi-Family Residential (MFR) units for specific areas where the majority of TMWA system growth is occurring. Based on the seven WSF Fee Areas presented in the attached table, the average cost increase of a SFR unit is \$1,447 and for MFRs it increases by \$405 per unit.

The proposed changes in the WSF Charges include increases ranging from 0% to 120%; with a few fees decreasing; and the majority increasing from 10%-60%. The largest increases were a result of a significant amount of future construction needed that have also significantly increased in cost with limited new demands available to recover costs. Other areas with increases on the order of 20%-30% are generally associated with the increased cost of future projects with a reasonable quantity of predicated new demands to recover those costs. The lower increases are associated with minimal new facilities and recovery of another two years of financing costs. Decreases in unit fees are associated with changes in recommended facility improvements based on predicted changes in the location of future demands in the system and allocation of facility costs between new business and user rates given associated benefits.

The attachment includes the proposed revisions to the TMWA Rate Schedules, based on the previous discussion.

Public Outreach:

Since the initial discussion at the October 2023 TMWA Board meeting, staff held the following workshops:

Public Workshop at TMWA:	March 20, 2024
TMWA SAC Presentation:	April 2, 2024
Virtual TMWA Workshops (Noon & 6pm):	April 4, 2024

TMWA staff did reach out to both the NAIOP group and Builder Association of Northern Nevada (BANN) regarding providing a presentation of the proposed WSF revisions. A NAIOP representative attended the virtual workshop on April 4, 2024. At the time of finalizing this staff report, TMWA has not been able to obtain a presentation date from BANN. The TMWA SAC recommended acceptance of the proposed changes. TMWA staff has also provided the proposed changes to various individuals in the development industry that requested them.

Review and action by the TMWA Board is scheduled as follows:

First Reading – TMWA Board Meeting:	April 17, 2024
Second Reading – TMWA Board Meeting:	May 23, 2024
Implementation of Revised Rates:	July 1, 2024

RECENT HISTORICAL FACILITY COSTS - 2024 UPDATE CYCLE

Water Mains:

<u>Project Name</u>	<u>Year</u>	<u>Diameter</u>	<u>Length</u>	<u>Cost</u>	<u>\$/in-LF</u>	
Caughlin-Mayberry Tie	2013	20	3460	\$1,317,402	\$19.04	
Lemmon Drive	2016	24	27630	\$9,635,646	\$14.53	
North Valleys Integ.	2016	18	2550	\$798,328	\$17.39	
Stead Ph. 2	2017	20	11880	\$3,311,905	\$13.94	
Arrowcreek Prkwy	2019	16	8100	\$2,508,370	\$19.35	
Verdi Main Extn.	2019	18	2700	\$1,444,052	\$29.71	no river xing
California-Marsh	2020	24	3500	\$2,332,324	\$27.77	
Boomtown Intertie	2021	16	1660	\$795,751	\$29.96	no J&B, no BPS
S Virginia 24" Main Kumle	2022	24	1800	\$2,039,433	\$47.21	
				AVG =	\$33.66	per in-LF

Pump Stations:

<u>Project Name</u>	<u>Year</u>	<u>(gpm)</u>	<u>Hp</u>	<u>Cost</u>	
Sutro #2	2016	2450	125	\$992,901	
Satellite Hills	2017	1500	90	\$1,748,788	
D'Andrea #3	2018	1750	240	\$1,184,438	
Gulling (K-Row#1 Repl.)	2020			\$2,144,289	no pipeline costs
Disc Drive	2021			\$2,719,450	low bid + 20%, no pipeline costs
Kinglet	2021			\$1,726,000	low bid + 20%, no pipeline costs
Silver Hills BPS	2022			\$3,331,116	low bid + est. soft costs, not awarded
7th Street BPS	2023			\$4,609,349	low bid + est. soft costs, in const
SQ 1 BPS	2023			\$3,173,588	low bid + soft costs
				AVG =	\$2,950,632

Wells:

<u>Project Name</u>	<u>Year</u>	<u>Hp</u>	<u>(gpm)</u>	<u>Cost</u>	<u>\$/gpm</u>	
Huffaker PI Well	2016	60	600	\$1,303,284	\$2,172	equipping only - no drilling/casing
Innovation Well	2016	100	600	\$1,941,701	\$3,236	equipping only - no drilling/casing
Double Diamond 3 Well	2016	250	1800	\$1,733,427	\$963	equipping only - no drilling/casing
Springs Creek 8 Well	2021	125	750	\$1,305,382	\$1,741	equipping only - no drilling/casing
Brush Well	2023		800	\$3,280,327	\$4,100	equipping only - no drilling/casing +est. soft costs, in c
				AVG =	\$1,912,824	(drilling varies from \$750K-\$1M)

Storage Tanks:

<u>Project Name</u>	<u>Year</u>	<u>(MG)</u>	<u>Type</u>	<u>Cost</u>	<u>\$/gallon</u>	
Somersett #1	2005	2	PSC	\$2,499,281	\$1.25	
Pyramid	2007	4	STL	\$4,844,749	\$1.21	
Raleigh #3	2007	4	STL	\$3,722,356	\$0.93	
Hunter Creek Res	2008	4	STL	\$4,260,803	\$1.07	
Peavine	2018	2	STL	\$2,038,961	\$1.02	no excavation, minor sitework
Lemmon Valley 1	2024	0.5	STL	\$2,314,634	\$4.63	low bid + est. soft costs, in const
SQ Tank Verdi	2024	0.5	STL	\$2,080,000	\$4.16	communication with developer contractor
STMGID East	2027	3.7	STL			
Caughlin #2	2027	1	STL			
				AVG =	\$3.27	per Gallon
Ridgeview	2006	1.5	PSC	\$5,531,292	\$3.69	not included in average cost

Summary - Construction Costs:

Pipeline	\$30	/dia in-LF
BPS	\$3,000,000	ea.
Wells	\$3,300,000	ea.
Tanks	\$3.0	gallon

Truckee Meadows Water Authority

RATE SCHEDULES

WSF – WATER SYSTEM FACILITY CHARGES

APPLICABILITY

Pursuant to procedures set forth in Rule 5, Applicants for new Service or Modified Service to a Service Property(ies) are subject to Water System Facility (WSF) Charges. WSF Charges are based on the Maximum Day Demand estimated in gallons per minute (GPM) by the Authority to serve the Service Property(ies) multiplied by the following Unit Costs. WSF Charges will be assessed where applicable and as identified in the Water Service Agreement.

A. Area Facility Unit Cost by Charge Area

	<u>Charge Area</u>	<u>Old Amount</u>	<u>New Amount</u>	
0	Central Reno	\$0.00	\$ 0.00	per GPM
1	South Virginia Truckee Meadows	\$3,440.00	4,027.00	per GPM
2	Sparks-East Reno	2,811.00	105.00	per GPM
2A	Sparks-Inside McCarran Blvd	1,406.00		per GPM
3	Northwest Reno – Northgate/Mogul	3,258.00	7,159.00	per GPM
4	Sparks – Pyramid/Spanish Springs	4,167.00	4,344.00	per GPM
5	Sparks – The Vistas	8,179.00	9,311.00	per GPM
6	Sun Valley-Sullivan Pump Zones	4,354.00	6,795.00	per GPM
7	Verdi	11,428.00	18,130.00	per GPM
8	Sierra-North Virginia Pump System	11,199.00	11,177.00	per GPM
9	Lakeridge-Plumas Pump System	2,878.00	3,524.00	per GPM
10	Stead–Silver Lake–Lemmon Valley	6,695.00	8,122.00	per GPM
11	South Truckee Meadows	5,751.00	7,542.00	per GPM
12	Spanish Springs	9,097.00	12,601.00	per GPM
13A	Heppner*	2,115.00	2,291.00	per GPM
15	Arrowcreek/Mt. Rose**	14,624.00	16,039.00	per GPM
	Truckee Canyon	7,551.00	7,995.00	per GPM
	Satellite Systems***		0.00	per GPM

Where a Service Property is not located within an established Charge Area described above or where the Area Facility Unit Cost for that Charge Area has not been established, applicable Area Facility Unit Costs shall be determined by Authority on a case by case basis and may include charges for on-site and off-site improvements, including Oversizing Costs, to integrate new Water System Facilities or to connect to, expand, relocate or alter existing water Facilities, determined by the Authority as necessary to facilitate annexation of the Service Property into the Authority's Retail Service Area and/or development of the Charge Area or Charge Area Unit Cost to be established, as set forth in the Annexation Agreement or Water Service Agreement between Applicant and Authority.

* Charge Area 13A is subject to an additional charge of \$5,490.00 per lot for on-site distribution improvements.

** Component of fee includes estimated costs of acquiring supplemental resource supply. Fee may be reduced to ~~\$10,286.00~~ 11,677.00 upon Applicant dedication of an acceptable combination of groundwater and creek water rights to satisfy supplemental conjunctive use supply as determined by the Authority pursuant to its Rule 7.

*** Satellite Systems include Stampmill, Sunrise Estates, Old Washoe Estates and Lightning W.

Added: 06/18/03 Amended: 10/01/03; 01/21/04; 03/01/05; 10/18/06; 03/01/08; 05/21/09; 05/21/10; 06/19/13; 10/15/14; 01/01/15; 05/21/15; 06/16/16, 10/01/19; 1/31/22

Truckee Meadows Water Authority

RATE SCHEDULES

WSF – WATER SYSTEM FACILITY CHARGES

B. Supply and Treatment Facility Unit Cost By Charge Area

“Supply and Treatment Facility Unit Cost” is the unit cost in dollars per GPM of Maximum Day Demand, representing the cost to construct and finance supply/treatment improvements identified in the Authority’s facility plan.

	<u>Charge Area</u>	<u>Old Amount</u>	<u>New Amount</u>	
0	Central Reno	\$6,957.00	\$7,300.00	per GPM
1	South Virginia Truckee Meadows	6,957.00	7,300.00	per GPM
2	Sparks-East Reno	6,957.00	7,300.00	per GPM
2A	Sparks-Inside McCarran Blvd	6,957.00		per GPM
3	Northwest Reno – Northgate/Mogul	6,957.00	7,300.00	per GPM
4	Sparks – Pyramid/Spanish Springs	6,957.00	7,300.00	per GPM
5	Sparks – The Vistas	6,957.00	7,300.00	per GPM
6	Sun Valley-Sullivan Pump Zones	6,957.00	7,300.00	per GPM
7	Verdi	6,957.00	7,300.00	per GPM
8	Sierra-North Virginia Pump System	6,957.00	7,300.00	per GPM
9	Lakeridge-Plumas Pump System	6,957.00	7,300.00	per GPM
10	Stead–Silver Lake-Lemmon Valley*	6,957.00	7,300.00	per GPM
11	South Truckee Meadows	6,957.00	7,300.00	per GPM
12	Spanish Springs	6,957.00	7,300.00	per GPM
13A	Heppner	0.00	0.00	per GPM
15	Arrowcreek/Mt. Rose	0.00	0.00	per GPM
	Satellite Systems**	6,328.00	0.00	per GPM

* For Area 10 growth dedicating Fish Springs groundwater resources, the Supply-Treatment Facility Unit Cost is \$0 (zero).

** Satellite Systems include Truckee Canyon, Stampmill, Sunrise Estates, Old Washoe Estates and Lightning W.

Added: 06/18/03 Amended: 10/01/03; 01/21/04; 03/01/05; 10/18/06; 03/01/08; 05/21/09; 05/21/10; 06/19/13; 10/15/14; 01/01/15; 05/21/15; 06/16/16, 10/01/19; 1/31/22;

Truckee Meadows Water Authority

RATE SCHEDULES

WSF – WATER SYSTEM FACILITY CHARGES

C. Storage Facility Unit Cost By Charge Area

“Storage Facility Unit Cost” is the unit cost in dollars per GPM of Maximum Day Demand, representing the cost to construct and finance storage improvements identified in the Authority’s facility plan.

	<u>Charge Area</u>	<u>Old Amount</u>	<u>New Amount</u>	
0	Central Reno	\$1,287.00	\$933.00	per GPM
1	South Virginia Truckee Meadows	1,287.00	933.00	per GPM
2	Sparks-East Reno	1,287.00	933.00	per GPM
2A	Sparks-Inside McCarran Blvd	1,287.00		per GPM
3	Northwest Reno – Northgate/Mogul	1,287.00	933.00	per GPM
4	Sparks – Pyramid/Spanish Springs	1,287.00	933.00	per GPM
5	Sparks – The Vistas	1,287.00	933.00	per GPM
6	Sun Valley-Sullivan Pump Zones	1,287.00	933.00	per GPM
7	Verdi	0.00	0.00	per GPM
8	Sierra-North Virginia Pump System	1,287.00	933.00	per GPM
9	Lakeridge-Plumas Pump System	1,287.00	933.00	per GPM
10	Stead–Silver Lake-Lemmon Valley	0.00	0.00	per GPM
11	South Truckee Meadows	0.00	0.00	per GPM
12	Spanish Springs	0.00	0.00	per GPM
13A	Heppner	0.00	0.00	per GPM
15	Arrowcreek/Mt. Rose	0.00	0.00	per GPM
	Satellite Systems*	0.00	0.00	per GPM

* Satellite Systems include Truckee Canyon, Stampmill, Sunrise Estates, Old Washoe Estates and Lightning W.

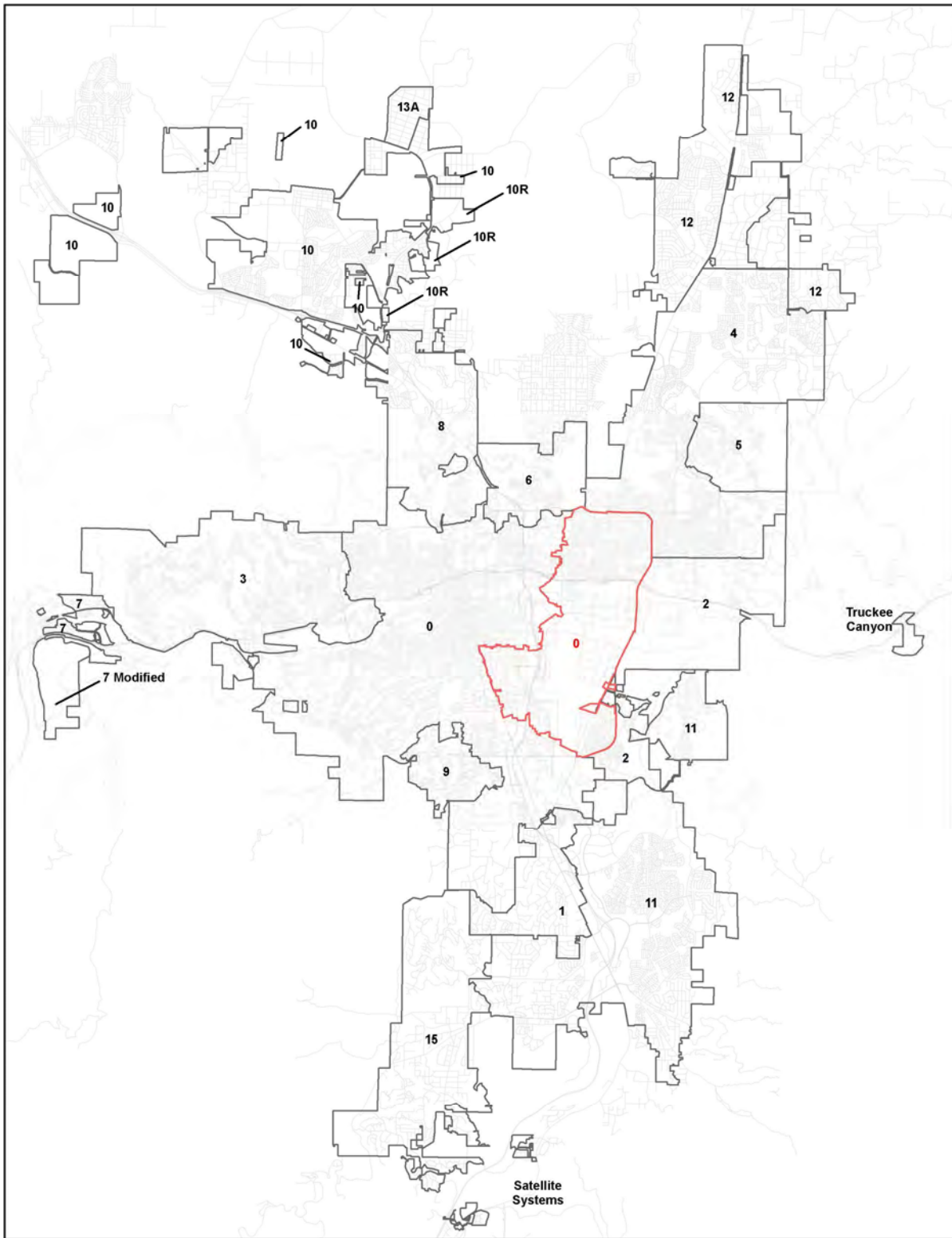
NOTE: The following map depicts only approximate boundaries of the Charge Areas because the Authority’s distribution system undergoes frequent modification, Charge Area boundaries are subject to frequent adjustment and the exact boundaries of the Charge Areas shall be maintained by and may be adjusted from time to time by the General Manager of the Authority. The Authority attempts to keep a current map posted on its website, at www.tmwa.com; however, this map may not show sufficient detail to depict Charge Areas precisely. Pursuant to Rule 5 the Authority will determine the Charge Area and associated Area Facility charges to serve the Applicant’s Service Property(ies) at the time of application based on the most current Charge Area boundary information maintained by the General Manager of the Authority.

Added: 06/18/03 Amended: 10/01/03; 01/21/04; 03/01/05; 10/18/06; 03/01/08; 05/21/09; 05/21/10; 01/01/15; 05/21/15; 06/16/16, 10/01/19; 1/31/22;

Truckee Meadows Water Authority

RATE SCHEDULES

WSF – WATER SYSTEM FACILITY CHARGES



Added: 01/01/15; 05/21/15; 06/16/16, 10/01/19; 1/31/22 **REVISE MAP – CONSOLIDATE AREA 2A into 0**

Truckee Meadows Water Authority

WATER SYSTEM FACILITY CHARGES REVISIONS

April 17, 2024



HISTORY OF TMWA WATER SYSTEM FACILITY CHARGES

TMWA Board established a policy that no customer class shall be subsidized by another class and that growth should pay for growth.

Water System Facility (WSF) Charges Timeline:

- 2002: Connection fees implemented
- 2003: Supply/Treatment and Storage Facility Charges implemented
- 2005: Update
- 2006*: Update
- 2008: Update
- 2013: Update
- 2019: Update
- 2022: Update
- 2024: Proposed Update 7/1/24

* BANN hired consultants (engineering & accounting) to review the fee calculations and with minor corrections, approved of TMWA methodology.

HOW DOES GROWTH PAY FOR GROWTH AT TMWA?

- Supply/Treatment Facility Charges
 - ✓ Wells
 - ✓ Raw Water Supply
 - ✓ Water Treatment Plants
- Storage Facility Charges
 - ✓ Tanks
 - ✓ Reservoirs
- Area Fees
 - ✓ Booster Pump Stations
 - ✓ Transmission Mains
 - ✓ System Interties
- WSF Charges are applied on a maximum day demand (GPM) basis
- WSF Charges are not paid by existing customers and are not included in water rates

WHY ARE REVISIONS NECESSARY?

- Facility cost are not automatically adjusted. Manual update of costs are required on a regular basis for updating of fees.
- Update of 2020-2040 Water Facility Plan (WFP) allows for refinement of fees. Given latest demand projections and considering where growth will occur, staff refines recommended WFP water improvements.
- Incorporate actual facility costs incurred since last update, and update estimated future facility costs based on recent bid results, economy and market conditions to refine WSP fees to allow TMWA to fairly recover capital expenditures benefiting new development.
- Incorporate fees collected and account for system capacity allocated since the last update.

Facility Category	20-Year Cost Allocated To Existing Users	20-Year Cost Allocated To Growth
Supply	\$ 79,500,000	\$ 99,100,000
Storage	\$ 18,700,000	\$ 18,500,000
Distribution	\$125,300,000	\$ 76,500,000
Totals	\$223,500,000	\$194,100,000

2020-2040
WFP
Estimated 20-
Year Costs

WATER FACILITY COSTS

- Average water main cost = \$30/in-LF (20% ↑)
 - Cost can vary between \$25-\$45 per in-LF depending on whether it is new construction in the dirt or within existing pavement with extensive traffic control and other utility interference.
- Average pump station cost = \$3.2M (w/generator) (55% ↑)
 - Costs can vary depending on capacity, system pressures, site location restrictions, topography, presence of other utilities, etc. Most new pump stations are paid for directly by new development.
- Average well cost = \$3.7M (89% ↑)
 - Total cost are highly dependent upon drilling costs (diameter, depth), in addition to other factors listed for pump stations.
- Average tank cost = \$3 per gallon (170% ↑)
 - Costs can vary due to size (economies of scale), topography, access, etc.

METHODOLOGY FOR WSF CHARGES UPDATE

- 2020-2040 Water Facility Plan Update Completion. Provides latest system demand projections, allowing TMWA to refine/update proposed facility improvements.
- Incorporate latest construction bid results and historical costs to update facility cost estimates.
- Update estimated costs with actual costs as necessary.
- Update the facility charges collected in each area.
- Update GPM added/sold in each area.

CALCULATION OF WSF CHARGES

Project Expenditures Allocated to Growth
 + Applicable Finance Charges
 + Est. Cost of Future Projects for Growth
 = Total Cost of Growth

Total Cost of Growth
 - Fees Collected
 = Remaining Cost of Growth

Expected Growth, GPM
 - GPM Sold
 = Remaining GPM

Remaining Cost of Growth ÷ Remaining GPM = Unit Cost \$/GPM

The Calculated Unit Costs are shown in Rate Schedule WSF

The Actual Fee \$\$ = Unit Cost \$/GPM x Max Day Demand (MDD), GPM

WSF CHARGE (\$/GPM MDD) UPDATE SUMMARY:

<u>Area</u>	<u>Description</u>	<u>Existing Fee</u>	<u>Proposed Fee</u>	<u>Increase \$\$</u>	<u>Increase %</u>
1	South Virginia	\$ 3,440	\$ 4,027	\$ 586	17%
2	Sparks-East Reno	\$ 2,811	\$ 105	\$ (2,706)	-96%
3	Northwest Reno-Northgate/Mogul	\$ 3,258	\$ 7,159	\$ 3,901	120%
4	Sparks-Pyramid/Spanish Springs	\$ 4,167	\$ 4,344	\$ 177	4%
5	Sparks-The Vistas	\$ 8,179	\$ 9,311	\$ 1,132	14%
6	Sun Valley-Sullivan	\$ 4,354	\$ 6,795	\$ 2,440	56%
7	Northwest Reno-Verdi	\$ 11,435	\$ 18,130	\$ 6,694	59%
8	Sierra-North Virginia	\$ 11,199	\$ 11,177	\$ (22)	0%
9	Lakeridge-Plumas	\$ 2,878	\$ 3,524	\$ 646	22%
10	Stead-Silver Lake	\$ 6 695	\$ 8,122	\$ 1,427	21%
11	Southeast Truckee Meadows	\$ 5,751	\$ 7,542	\$ 1,790	31%
12	Spanish Springs	\$ 9,097	\$ 12,601	\$ 3,504	39%
13A	Heppner Subdivision	\$ 2,115	\$ 2,291	\$ 175	8%
15	Arrowcreek/Mt Rose	\$ 14,624	\$ 16,039	\$ 1,415	10%
	Truckee Canyon	\$ 7,551	\$ 7,995	\$ 444	6%
*	Supply-Treatment Fee	\$ 6,957	\$ 7,300	\$ 343	5%
*	Storage Fee	\$ 1,287	\$ 933	\$ (354)	-27%

FEE IMPACT TO A TYPICAL SUBDIVISION LOT

The actual fee paid is the MDD x WSF Charge Unit Cost. The overall impact of the new WSF Charge on the cost of a house on a typical 6,000 SF lot:

<u>Location</u>	<u>Existing Fees Total Per SFR Unit</u>	<u>Proposed Fee Total Per SFR Unit</u>	<u>Change in Cost Per SFR Unit</u>
Area 3 – NW Reno	\$ 5,751	\$ 7,696	\$ 1,945
Area 4 – Kiley Ranch	\$ 6,206	\$ 6,289	\$ 83
Area 7 – Verdi	\$ 9,196	\$ 12,715	\$ 3,519
Area 10 – North Valleys	\$ 6,826	\$ 7,711	\$ 885
Area 11 – Double Diamond	\$ 6,354	\$ 7,421	\$ 1,067
Area 12 – Spanish Springs	\$ 8,027	\$ 9,951	\$ 1,924
Area 15 – Mt Rose	\$ 7,312	\$ 8,019	\$ 707
AVG.	\$ 7,096	\$ 8,543	\$ 1,447

Washoe County Median Home Sales Price

2022 - \$543,000

2024 - \$570,000

FEE IMPACT TO AN APARTMENT UNIT

The actual fee paid is the MDD x Area Fee Unit Cost. The overall impact of the new facility charges and area fees on the cost of a typical apartment unit:

<u>Location</u>	<u>Existing Fees Total Per MFR Unit</u>	<u>Proposed Fee Total Per MFR Unit</u>	<u>Change in Cost Per MFR Unit</u>
Area 3 – NW Reno	\$ 1,610	\$ 2,155	\$ 545
Area 4 – Kiley Ranch	\$ 1,738	\$ 1,761	\$ 23
Area 7 – Verdi	\$ 2,575	\$ 3,560	\$ 985
Area 10 – North Valleys	\$ 1,911	\$ 2,159	\$ 248
Area 11 – Double Diamond	\$ 1,779	\$ 2,078	\$ 299
Area 12 – Spanish Springs	\$ 2,248	\$ 2,786	\$ 539
Area 15 – Mt Rose	\$ 2,047	\$ 2,245	\$ 198
AVG.	\$ 1,987	\$ 2,392	\$ 405

Thank you!

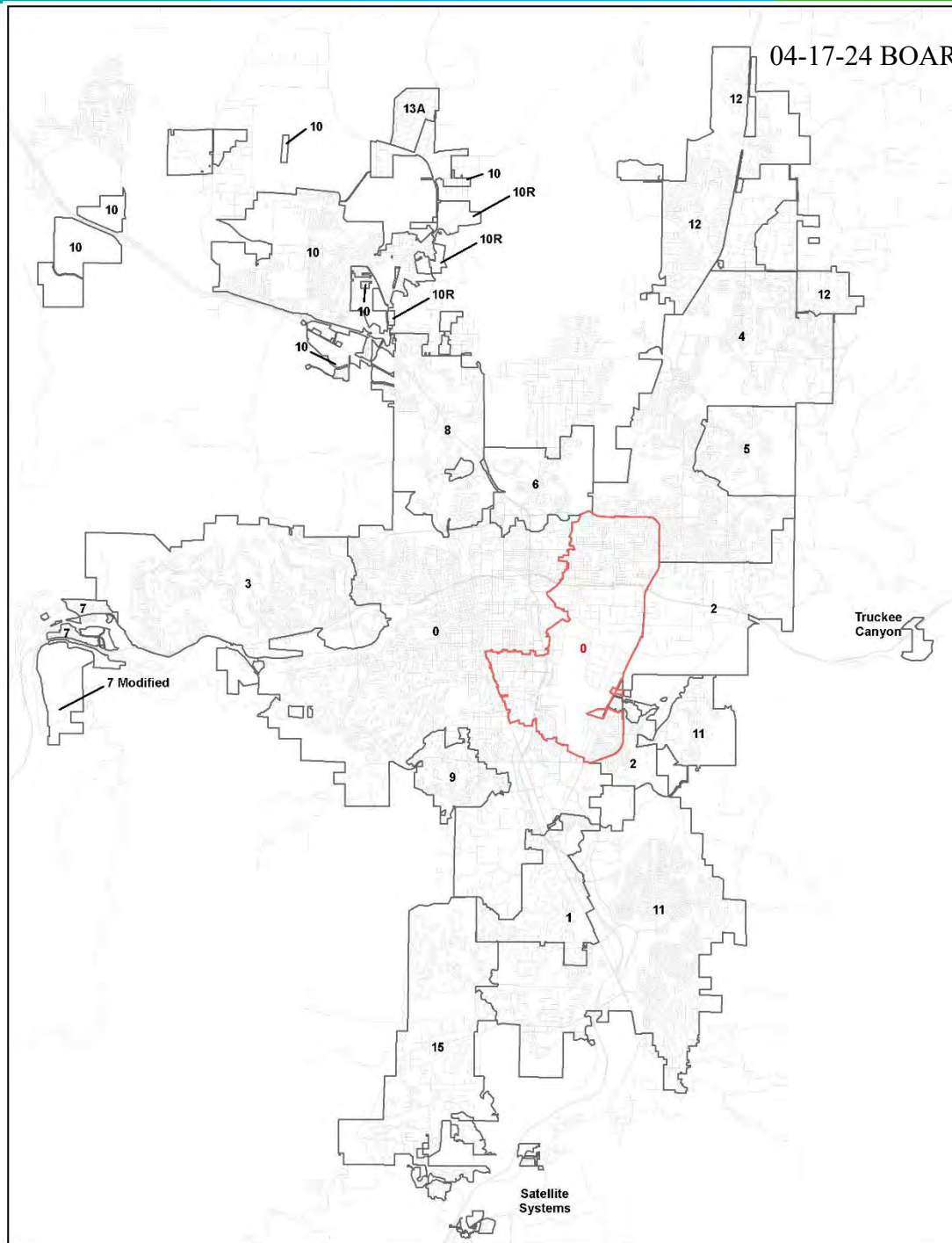
Corporate Office:

1355 Capital Blvd., Reno, NV 89502

834-8080

www.tmwa.com





RECENT HISTORICAL FACILITY COSTS - 2024 UPDATE CYCLE

Water Mains:

<u>Project Name</u>	<u>Year</u>	<u>Diameter</u>	<u>Length</u>	<u>Cost</u>	<u>\$/in-LF</u>	
Caughlin-Mayberry Tie	2013	20	3460	\$1,317,402	\$19.04	
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Verdi Main Extn.	2019	18	2700	\$1,444,052	\$29.71	no river xing
California-Marsh	2020	24	3500	\$2,332,324	\$27.77	
Boomtown Intertie	2021	16	1660	\$795,751	\$29.96	no J&B, no BPS
S Virginia 24" Main Kumle	2022	24	1800	\$2,039,433	\$47.21	
			AVG =	\$33.66	per in-LF	

Pump Stations:

<u>Project Name</u>	<u>Year</u>	<u>(gpm)</u>	<u>Hp</u>	<u>Cost</u>	
Sutro #2	2016	2450	125	\$992,901	
Satellite Hills	2017	1500	90	\$1,748,788	
D'Andrea #3	2018	1750	240	\$1,184,438	
Gulling (K-Row#1 Repl.)	2020			\$2,144,289	no pipeline costs
Disc Drive	2021			\$2,719,450	low bid + 20%, no pipeline costs
Kinglet	2021			\$1,728,000	low bid + 20%, no pipeline costs
Silver Hills BPS	2022			\$3,331,116	low bid + est. soft costs, not awarded
7th Street BPS	2023			\$4,609,349	low bid + est. soft costs, in const
SQ 1 BPS	2023			\$3,173,588	low bid + soft costs
			AVG =	\$2,950,632	

Wells:

<u>Project Name</u>	<u>Year</u>	<u>Hp</u>	<u>(gpm)</u>	<u>Cost</u>	<u>\$/gpm</u>	
Huffaker PI Well	2016	60	600	\$1,303,284	\$2,172	equipping only - no drilling/casing
Innovation Well	2016	100	600	\$1,941,701	\$3,236	equipping only - no drilling/casing
Double Diamond 3 Well	2016	250	1800	\$1,733,427	\$963	equipping only - no drilling/casing
Springs Creek 8 Well	2021	125	750	\$1,305,382	\$1,741	equipping only - no drilling/casing
Brush Well	2023		800	\$3,280,327	\$4,100	equipping only - no drilling/casing + est. soft costs, in const
			AVG =	\$1,912,824		(drilling varies from \$750K-\$1M)

Storage Tanks:

<u>Project Name</u>	<u>Year</u>	<u>(MG)</u>	<u>Type</u>	<u>Cost</u>	<u>\$/gallon</u>	
Somerset #1	2005	2	PSC	\$2,499,281	\$1.25	
Pyramid	2007	4	STL	\$4,844,749	\$1.21	
Raleigh #3	2007	4	STL	\$3,722,356	\$0.93	
Hunter Creek Res	2008	4	STL	\$4,260,803	\$1.07	
Peavine	2018	2	STL	\$2,038,961	\$1.02	no excavation, minor sitework
Lemmon Valley 1	2024	0.5	STL	\$2,314,634	\$4.63	low bid + est. soft costs, in const
SQ Tank Verdi	2024	0.5	STL	\$2,080,000	\$4.16	communication with developer contractor
STMGD East	2027	3.7	STL			
Caughlin #2	2027	1	STL			
			AVG =	\$3.27	per Gallon	
Ridgeview	2006	1.5	PSC	\$5,531,292	\$3.69	not included in average cost

Summary - Construction Costs:		Pipeline	\$30	/dia in-LF
		BPS	\$3,000,000	ea.
		Wells	\$3,300,000	ea.
		Tanks	\$3.0	gallon

Truckee Meadows Water Authority

RATE SCHEDULES

WSF – WATER SYSTEM FACILITY CHARGES

APPLICABILITY

Pursuant to procedures set forth in Rule 5, Applicants for new Service or Modified Service to a Service Property(ies) are subject to Water System Facility (WSF) Charges. WSF Charges are based on the Maximum Day Demand estimated in gallons per minute (GPM) by the Authority to serve the Service Property(ies) multiplied by the following Unit Costs. WSF Charges will be assessed where applicable and as identified in the Water Service Agreement.

A. Area Facility Unit Cost by Charge Area

	<u>Charge Area</u>	<u>Old Amount</u>	<u>New Amount</u>	
0	Central Reno	\$0.00	\$ 0.00	per GPM
1	South Virginia Truckee Meadows	\$3,440.00	4,027.00	per GPM
2	Sparks-East Reno	2,811.00	105.00	per GPM
2A	Sparks-Inside McCarran Blvd	1,406.00		per GPM
3	Northwest Reno – Northgate/Mogul	3,258.00	7,159.00	per GPM
4	Sparks – Pyramid/Spanish Springs	4,167.00	4,344.00	per GPM
5	Sparks – The Vistas	8,179.00	9,311.00	per GPM
6	Sun Valley-Sullivan Pump Zones	4,354.00	6,795.00	per GPM
7	Verdi	11,428.00	18,130.00	per GPM
8	Sierra-North Virginia Pump System	11,199.00	11,177.00	per GPM
9	Lakeridge-Plumas Pump System	2,878.00	3,524.00	per GPM
10	Stead–Silver Lake–Lemmon Valley	6,695.00	8,122.00	per GPM
11	South Truckee Meadows	5,751.00	7,542.00	per GPM
12	Spanish Springs	9,097.00	12,601.00	per GPM
13A	Heppner*	2,115.00	2,291.00	per GPM
15	Arrowcreek/Mt. Rose**	14,624.00	16,039.00	per GPM
	Truckee Canyon	7,551.00	7,995.00	per GPM
	Satellite Systems***		0.00	per GPM

Where a Service Property is not located within an established Charge Area described above or where the Area Facility Unit Cost for that Charge Area has not been established, applicable Area Facility Unit Costs shall be determined by Authority on a case by case basis and may include charges for on-site and off-site improvements, including Oversizing Costs, to integrate new Water System Facilities or to connect to, expand, relocate or alter existing water Facilities, determined by the Authority as necessary to facilitate annexation of the Service Property into the Authority's Retail Service Area and/or development of the Charge Area or Charge Area Unit Cost to be established, as set forth in the Annexation Agreement or Water Service Agreement between Applicant and Authority.

* Charge Area 13A is subject to an additional charge of \$5,490.00 per lot for on-site distribution improvements.

** Component of fee includes estimated costs of acquiring supplemental resource supply. Fee may be reduced to ~~\$10,286.00~~ 11,677.00 upon Applicant dedication of an acceptable combination of groundwater and creek water rights to satisfy supplemental conjunctive use supply as determined by the Authority pursuant to its Rule 7.

*** Satellite Systems include Stampmill, Sunrise Estates, Old Washoe Estates and Lightning W.

Added: 06/18/03 Amended: 10/01/03; 01/21/04; 03/01/05; 10/18/06; 03/01/08; 05/21/09; 05/21/10; 06/19/13; 10/15/14; 01/01/15; 05/21/15; 06/16/16, 10/01/19; 1/31/22

Truckee Meadows Water Authority

RATE SCHEDULES

WSF – WATER SYSTEM FACILITY CHARGES

B. Supply and Treatment Facility Unit Cost By Charge Area

“Supply and Treatment Facility Unit Cost” is the unit cost in dollars per GPM of Maximum Day Demand, representing the cost to construct and finance supply/treatment improvements identified in the Authority’s facility plan.

	<u>Charge Area</u>	Old Amount	New Amount	
0	Central Reno	\$6,957.00	\$7,300.00	per GPM
1	South Virginia Truckee Meadows	6,957.00	7,300.00	per GPM
2	Sparks-East Reno	6,957.00	7,300.00	per GPM
2A	Sparks-Inside McCarran Blvd	6,957.00	7,300.00	per GPM
3	Northwest Reno – Northgate/Mogul	6,957.00	7,300.00	per GPM
4	Sparks – Pyramid/Spanish Springs	6,957.00	7,300.00	per GPM
5	Sparks – The Vistas	6,957.00	7,300.00	per GPM
6	Sun Valley-Sullivan Pump Zones	6,957.00	7,300.00	per GPM
7	Verdi	6,957.00	7,300.00	per GPM
8	Sierra-North Virginia Pump System	6,957.00	7,300.00	per GPM
9	Lakeridge-Plumas Pump System	6,957.00	7,300.00	per GPM
10	Stead–Silver Lake-Lemmon Valley*	6,957.00	7,300.00	per GPM
11	South Truckee Meadows	6,957.00	7,300.00	per GPM
12	Spanish Springs	6,957.00	7,300.00	per GPM
13A	Heppner	0.00	0.00	per GPM
15	Arrowcreek/Mt. Rose	0.00	0.00	per GPM
	Satellite Systems**	6,328.00	0.00	per GPM

* For Area 10 growth dedicating Fish Springs groundwater resources, the Supply-Treatment Facility Unit Cost is \$0 (zero).

** Satellite Systems include Truckee Canyon, Stampmill, Sunrise Estates, Old Washoe Estates and Lightning W.

Added: 06/18/03 Amended: 10/01/03; 01/21/04; 03/01/05; 10/18/06; 03/01/08; 05/21/09; 05/21/10; 06/19/13; 10/15/14; 01/01/15; 05/21/15; 06/16/16, 10/01/19; 1/31/22;

Truckee Meadows Water Authority

RATE SCHEDULES

WSF – WATER SYSTEM FACILITY CHARGES

C. Storage Facility Unit Cost By Charge Area

“Storage Facility Unit Cost” is the unit cost in dollars per GPM of Maximum Day Demand, representing the cost to construct and finance storage improvements identified in the Authority’s facility plan.

	<u>Charge Area</u>	<u>Old Amount</u>	<u>New Amount</u>	
0	Central Reno	\$1,287.00	\$933.00	per GPM
1	South Virginia Truckee Meadows	1,287.00	933.00	per GPM
2	Sparks-East Reno	1,287.00	933.00	per GPM
2A	Sparks-Inside McCarran Blvd	1,287.00		per GPM
3	Northwest Reno – Northgate/Mogul	1,287.00	933.00	per GPM
4	Sparks – Pyramid/Spanish Springs	1,287.00	933.00	per GPM
5	Sparks – The Vistas	1,287.00	933.00	per GPM
6	Sun Valley-Sullivan Pump Zones	1,287.00	933.00	per GPM
7	Verdi	0.00	0.00	per GPM
8	Sierra-North Virginia Pump System	1,287.00	933.00	per GPM
9	Lakeridge-Plumas Pump System	1,287.00	933.00	per GPM
10	Stead–Silver Lake-Lemmon Valley	0.00	0.00	per GPM
11	South Truckee Meadows	0.00	0.00	per GPM
12	Spanish Springs	0.00	0.00	per GPM
13A	Heppner	0.00	0.00	per GPM
15	Arrowcreek/Mt. Rose	0.00	0.00	per GPM
	Satellite Systems*	0.00	0.00	per GPM

* Satellite Systems include Truckee Canyon, Stampmill, Sunrise Estates, Old Washoe Estates and Lightning W.

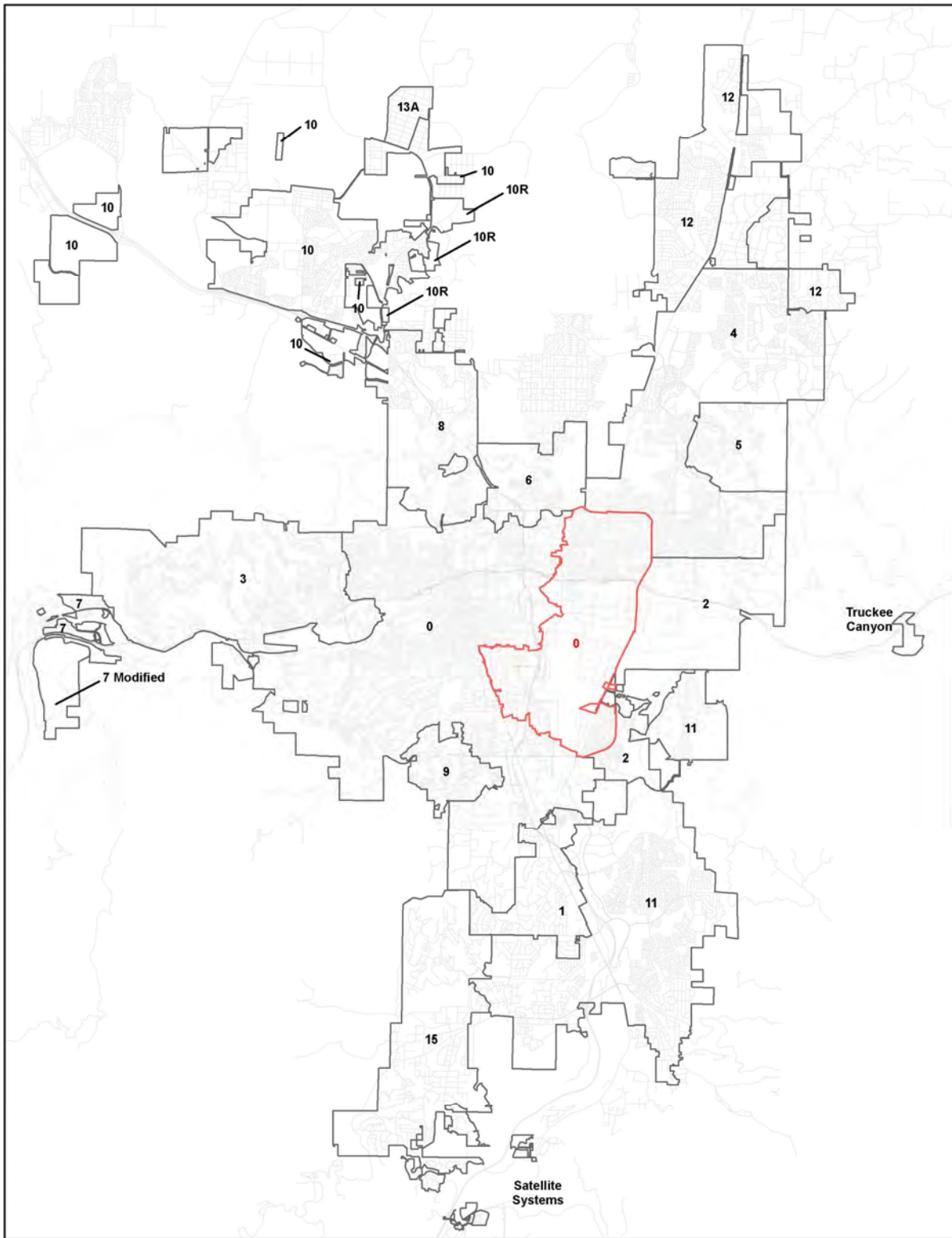
NOTE: The following map depicts only approximate boundaries of the Charge Areas because the Authority’s distribution system undergoes frequent modification, Charge Area boundaries are subject to frequent adjustment and the exact boundaries of the Charge Areas shall be maintained by and may be adjusted from time to time by the General Manager of the Authority. The Authority attempts to keep a current map posted on its website, at www.tmwa.com; however, this map may not show sufficient detail to depict Charge Areas precisely. Pursuant to Rule 5 the Authority will determine the Charge Area and associated Area Facility charges to serve the Applicant’s Service Property(ies) at the time of application based on the most current Charge Area boundary information maintained by the General Manager of the Authority.

Added: 06/18/03 Amended: 10/01/03; 01/21/04; 03/01/05; 10/18/06; 03/01/08; 05/21/09; 05/21/10; 01/01/15; 05/21/15; 06/16/16, 10/01/19; 1/31/22;

Truckee Meadows Water Authority

RATE SCHEDULES

WSF – WATER SYSTEM FACILITY CHARGES



Added: 01/01/15; 05/21/15; 06/16/16, 10/01/19; 1/31/22 **REVISE MAP – CONSOLIDATE AREA 2A into 0**



STAFF REPORT

TO: Board of Directors
THRU: John R. Zimmerman, General Manager
FROM: Matt Bowman, Chief Financial Officer
DATE: April 8, 2024
SUBJECT: **Discussion and action on Resolution No. 324: A resolution concerning the financing of water projects; declaring the Truckee Meadows Water Authority's intent regarding reimbursement from one or more future bond issues; authorizing authority representatives to request that such bonds in the maximum aggregate principal amount of \$55,000,000 be purchased by the state of Nevada account for the revolving fund; and providing the effective date**

RECOMMENDATION

It is recommended that the TMWA Board adopt Resolution No. 324 declaring TMWA's intent to finance the Advanced Purified Water Facility (APWF) at American Flat through issuance of up to \$55.0 million of Drinking Water State Revolving Fund (SRF) loans.

BACKGROUND

In February 2024, The Nevada Division of Environmental Protection (NDEP) announced a one-time offer for special interest rate financing of 1.0% on \$100.0 million of SRF program funds for eligible public entities. Initial discussions between Staff and NDEP indicate that the APWF project would be eligible for this financing. These loans would amortize over 30 years.

Working with TMWA's Financial Advisors, PFM, initial analyses show the monetary value of issuing 1.0% interest rate debt to be between \$5.0 million and \$10.0 million depending on the amount. The more funds borrowed the higher the value. NDEP has requested a resolution from interested borrowers indicating intent to apply for the loans within this program.

Approval of this resolution is non-binding. If the Board approves this Resolution, Staff will begin the loan application process with NDEP. Following the application, Staff will bring back a Bond Resolution in conjunction with the approval of construction of the APWF project in spring 2025.

The APWF project will be funded through connection fees and future project-related will-serves. Any amount of debt issued to fund the project will be repaid through the same means.

RECOMMENDED MOTION

Move to adopt Resolution No. 324.

Summary - a resolution concerning the financing of water projects by the Truckee Meadows Water Authority.

RESOLUTION NO. 324

A RESOLUTION CONCERNING THE FINANCING OF WATER PROJECTS; DECLARING THE TRUCKEE MEADOWS WATER AUTHORITY'S INTENT REGARDING REIMBURSEMENT FROM ONE OR MORE FUTURE BOND ISSUES; AUTHORIZING AUTHORITY REPRESENTATIVES TO REQUEST THAT SUCH BONDS IN THE MAXIMUM AGGREGATE PRINCIPAL AMOUNT OF \$55,000,000 BE PURCHASED BY THE STATE OF NEVADA ACCOUNT FOR THE REVOLVING FUND; AND PROVIDING THE EFFECTIVE DATE HEREOF.

WHEREAS, the Truckee Meadows Water Authority (the "Authority" or "TMWA") was duly organized as a joint powers authority, is a political subdivision of the State of Nevada (the "State") and is operating in accordance with the provisions of the "Truckee Meadows Water Authority Cooperative Agreement among City of Reno, City of Sparks, County of Washoe" dated December 4, 2000, as amended (the "TMWA Cooperative Agreement") entered into pursuant to the provisions of Nevada Revised Statutes 277.080 to 277.180, inclusive, as amended (the "Authority Act"); and

WHEREAS, pursuant to the Authority Act, the Authority is authorized to issue revenue bonds secured by revenues of the Authority's water system (the "Pledged Revenues") to defray, in whole or in part, the cost of making certain improvements to the Authority's water system by acquiring, constructing, improving and equipping facilities pertaining to the Authority's water system, including, without limitation, the project known as the Advanced Purified Water Facility (APWF) at American Flat (collectively, the "Project"); and

WHEREAS, the Board proposes to issue one or more series of revenue bonds secured by the Pledged Revenues in the maximum aggregate principal amount of \$55,000,000 or such lesser amount as specified by the Chief Financial Officer of the Authority (the "Bonds"), for the purpose of financing the cost of the Project; and

WHEREAS, the Authority expects to make certain capital expenditures in connection with the Project prior to the issuance of the Bonds, and expects a portion of the proceeds of the Bonds to be used to reimburse the Authority for costs of the Project previously paid by the Authority; and

WHEREAS, Section 1.150.2 of the Treasury Regulations requires that the Authority declare its reasonable official intent to reimburse prior expenditures for the Project with the proceeds of the Bonds; and

WHEREAS, the Authority intends for the Bonds to be purchased by the Administrator of the Division of Environmental Protection of the State Department of Conservation and Natural Resources, as Administrator of the State of Nevada Account for the Revolving Fund (the

“SRF”) and desires to authorize Authority officials to take all action necessary or appropriate to effectuate the provisions of this resolution.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE TRUCKEE MEADOWS WATER AUTHORITY:

Section 1. This resolution shall be known as and may be cited as the “2024 SRF Request Resolution (TMWA).”

Section 2. The Board hereby declares its official intent to use a portion of the proceeds of the Bonds, as and when issued, to reimburse the Authority for Project expenditures. The Authority reasonably expects that the maximum amount of Bonds to be issued for the Project is \$55,000,000. Notwithstanding the foregoing, this Resolution does not bind the Authority to issue the Bonds or incur any debt in any amount, to make any expenditures, or otherwise to proceed with the Project.

Section 3. The officers of the Authority are hereby authorized and directed to take all action necessary or appropriate to effectuate the provisions of this resolution, including but not limited to, requesting the State to purchase the Bonds, in one or more series, pursuant to one or more of its programs. The Project is a critical, priority infrastructure project of the Authority. The Authority’s Chief Financial Officer or his designee is authorized to file an application with the SRF, to provide additional information as requested in connection with the loan(s) and the Bonds and negotiate the terms and execute the loan contract(s) with the SRF in connection with the loan(s) and one or more series of the Bonds, subject to the approval of the loan contract(s) by the Board by subsequent resolution(s).

Section 4. All action, proceedings, matters and things heretofore taken, had and done by the Board, and the officers thereof (not inconsistent with the provisions of this resolution) directed toward the Proposal be, and the same hereby is, ratified, approved and confirmed.

Section 5. All resolutions, or parts thereof, in conflict with the provisions of this resolution, are hereby repealed to the extent only of such inconsistency. This repealer shall not be constructed to revive any resolution, or part thereof, heretofore repealed.

Section 6. If any section, paragraph, clause or other provision of this resolution shall for any reason be held to be invalid or unenforceable, the invalidity or unenforceability of such section, paragraph, clause or other provision shall not affect any of the remaining provisions of this resolution.

Section 7. This resolution shall become effective and be in force immediately upon its adoption.

INTRODUCED, ADOPTED AND APPROVED on April 17, 2024.

By: _____
Chair

(SEAL)

Attest:

Secretary

STATE OF NEVADA)
) **ss.**
COUNTY OF WASHOE)
)
TRUCKEE MEADOWS)
WATER AUTHORITY)

I am the duly chosen, qualified, and acting Secretary of the Truckee Meadows Water Authority and of its Board of Directors (herein the “Authority” and the “Board,” respectively), the Authority being situate in the County of Washoe and State of Nevada, do hereby certify:

1. The foregoing pages constitute a true, correct, complete and compared copy of a resolution adopted by the Board on April 17, 2024.

2. The original of the resolution has been approved and authenticated by the signatures of the Chair of the Board and myself as Secretary, and sealed with the seal of the Authority, and has been recorded in the minute book of the Board kept for that purpose in my office which record has been duly signed by such officers and properly sealed.

3. All of the members of the Board present at the meeting voted on the passage of the resolution as follows:

Those Voting Aye:	Paul Anderson Clara Andriola Jenny Brekhus Kristopher Dahir Naomi Duerr Alexis Hill Devon Reese
Those Voting Nay:	_____
Those Abstaining:	_____
Those Absent:	_____

4. All members of the Board were given due and proper notice of the meeting.

5. Public notice of the meeting was given and such meeting was held and conducted in full compliance with the provisions of NRS 241.020. A copy of the notice so given of the meeting of the Board is attached hereto as Exhibit A.

IN WITNESS WHEREOF, I have hereunto set my hand on behalf of the Truckee Meadows Water Authority, this April 17, 2024.

Secretary

EXHIBIT A

(Attach Copy of Notice of Meeting)



TRUCKEE MEADOWS WATER AUTHORITY
Board of Directors
AGENDA

Wednesday, April 17, 2024 at 10:00 a.m.
Sparks Council Chambers, 745 4th Street, Sparks, NV
MEETING VIA TELECONFERENCE & IN-PERSON

MEMBERS OF THE PUBLIC MAY ATTEND VIA THE WEB LINK, OR
TELEPHONICALLY BY CALLING THE NUMBER, LISTED BELOW.

(be sure to keep your phones or microphones on mute, and do not place the call on hold)

Please click the link below to join the webinar:

<https://tmwa.zoom.us/j/89110512999?pwd=arIPdIzbhulpZp5UVyPbTjxOsLLXAL.1>

Passcode: 771487

Or call:

Phone: (888) 788-0099

Webinar ID: 891 1051 2999

Board Members

Chair Kristopher Dahir – City of Sparks	Vice Chair Naomi Duerr – City of Reno
Paul Anderson – City of Sparks	Alexis Hill – Washoe County
Jenny Brekhus – City of Reno	Clara Andriola – Washoe County
Devon Reese – City of Reno	

NOTES:

1. The announcement of this meeting has been posted at the following locations: Truckee Meadows Water Authority (1355 Capital Blvd., Reno), at <http://www.tmwa.com>, and State of Nevada Public Notice Website, <https://notice.nv.gov/>.
2. TMWA meetings are streamed online at <https://www.youtube.com/@tmwaboardmeetings6598>.
3. In accordance with NRS 241.020, this agenda closes three working days prior to the meeting. We are pleased to make reasonable accommodations for persons who are disabled and wish to attend meetings. If you require special arrangements for the meeting, please call (775) 834-8002 at least 24 hours before the meeting date.
4. Staff reports and supporting material for the meeting are available at TMWA and on the TMWA website at <http://www.tmwa.com/meeting/>. Supporting material is made available to the general public in accordance with NRS 241.020(6).
5. 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.
6. Asterisks (*) denote non-action items.
7. Public comment during the meeting is limited to three minutes and is allowed during the two public comment periods rather than each action item. The public may sign-up to speak during the public comment period or on a specific agenda item by completing a "Request to Speak" card and submitting it to the clerk. In addition to the public comment periods, the Chair has the discretion to allow public comment on any individual agenda item, including any item on which action is to be taken.
8. Written public comment may be provided 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.
9. In the event the Chair and Vice-Chair are absent, the remaining Board members may elect a temporary presiding officer to preside over the meeting until the Chair or Vice-Chair are present (**Standing Item of Possible Action**).
10. 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.
11. The Board may attend and participate in the meeting by means of remote technology system. Members of the public wishing to attend and/or participate by providing public comment may do so either in person at the physical location of the meeting listed above or virtually. To attend this meeting virtually, please log into the meeting using the link and/or phone number noted above.

¹ The 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 March 20, 2024 meeting of the TMWA Board of Directors (**For Possible Action**) (**5min**)
7. Discussion and action on appointments to the Standing Advisory Committee (SAC) to fill the commercial customer alternate representative, and other possible vacancies for terms beginning May 1, 2024 to December 31, 2025 from the following pool of candidates listed in alphabetical order: Ryan Greenhalgh — Sonia Folsom (**For Possible Action**) (**5min**)
8. Water Supply Update — Bill Hauck* (**5min**)
9. Presentation on proposed Conservation, Communications and Outreach Plan for 2024, discussion and possible direction to staff — Robert Charpentier and Cammy Elquist LoRe (**For Possible Action**) (**10min**)
10. Presentation on proposed planning process for the 2025-2045 Water Resource Plan — Kara Steeland (**For Possible Action**) (**5min**)
11. Presentation and informational report on proposed future adjustments to Schedule WSF Fees — David Kershaw and Danny Rotter* (**10min**)
12. PUBLIC HEARING ON RATE AMENDMENTS
 - A. Introduction and first reading of amendments to TMWA Rate Schedule WSF – Water System Facility Charges revising area fee, supply and treatment, and storage unit costs — David Kershaw and Danny Rotter (**For Possible Action**) (**10min**)
 - B. Public comment — limited to no more than three minutes per speaker*

CLOSE PUBLIC HEARING

13. Discussion and action on Resolution No. 324: A resolution concerning the financing of water projects; declaring the Truckee Meadows Water Authority's intent regarding reimbursement from one or more future bond issues; authorizing authority representatives to request that such bonds in the maximum aggregate principal amount of \$55,000,000 be purchased by the state of Nevada account for the revolving fund; and providing the effective date — Matt Bowman (**For Possible Action**) (**10min**)

¹ The 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.

14. Discussion and possible action on adoption of Resolution No. 325: 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 of Northern Nevada to fund such projects from Fund proceeds (Resolution may reflect action taken in one or more votes on recommended projects) — Sonia Folsom and Kara Steeland (**For Possible Action**) (**10min**)
15. Discussion and action, and possible direction to staff regarding the reappointment of Eddy Quagliari to represent TMWA on the Carson-Truckee Water Conservancy District Board — John Zimmerman (**For Possible Action**) (**5min**)
16. General Manager's Report* (**5min**)
17. Public comment — limited to no more than three minutes per speaker*
18. Board comments and requests for future agenda items*
19. Adjournment (For Possible Action)

¹. The 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.



STAFF REPORT

TO: Board of Directors
THRU: John R. Zimmerman, General Manager
FROM: Sonia Folsom, Executive Assistant
 Kara Steeland, Senior Hydrologist and Watershed Coordinator
 Brian Bonnenfant, Chair, Truckee River Fund Advisory Committee
DATE: April 8, 2024
SUBJECT: Discussion and possible action on adoption of Resolution No. 325: 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 of Northern Nevada 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 (the “Fund”) Advisors recommend that the TMWA Board authorize by resolution the funding of the following projects from the Fund. This recommendation stems from a Fund Advisors’ meeting held on February 16, 2024 where grant proposals from the spring request for proposals (RFP) were reviewed and discussed. Please refer to the table below to review the amount of funding available and descriptions of the RFP’s submitted and recommended for funding.

Description	Funding Requested	Funding Approved	TRF Budget
Available Funds			\$735,146.00
9 Requested Projects	\$785,655.75		
8 Projects Recommended for Approval		\$734,846.39	
Funds Remaining			\$ 299.61

Request for Proposals Submitted for Consideration

Project #	Grantee	Description	Proposal Amount	Amount Recommended	Monetary Match	In-Kind Match	Match Total
284	Truckee River Watershed Council	South Euer Valley Road Improvement Project	\$156,681.48	\$151,081.48	\$75,000.00	\$2,250.00	\$77,250.00
285	Sierra Nevada Journeys	Watershed Education Initiative	\$35,933.00	\$35,933.00	\$11,978.00	\$-	\$11,978.00
287	The Reno Initiative for Shelter and Equality (RISE)	River Stewards	\$226,503.20	\$201,293.84	\$-	\$57,408.00	\$57,408.00
288	Great Basin Outdoor School	Youth Watershed Education and Protection Projects	\$9,279.60	\$9,279.60	\$7,159.50	\$-	\$7,159.50
289	Trout Unlimited	Lower Truckee Trout Habitat Project	\$49,477.47	\$49,477.47	\$48,154.15	\$-	\$48,154.15
290	Friends of Nevada Wilderness	Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding 2024	\$26,951.00	\$26,951.00	\$4,000.00	\$4,760.00	\$9,760.00
291	The Nature Conservancy - Nevada Chapter	Independence Lake Forest Resilience Project	\$183,610.00	\$173,610.00	\$63,000	\$-	\$63,000
292	Indigenous Peoples Council On Biocolonialism for Healing Waters Institute	River Justice: Pollution Reduction and Sustaining Water Quality	\$97,220.00	\$87,220.00	\$24,305.00	\$-	\$24,305.00
Amount Totals:			\$785,655.75	\$734,846.39	\$299,014.65		

PROJECTS RECOMMENDED FOR FUNDING

Project #284: South Euer Valley Road Improvement Project

Organization: Truckee River Watershed Council (TRWC)

Project Description:

The goal of the South Euer Valley Road Improvement Project is to reduce the sedimentation within the South Fork of Prosser Creek, a key tributary of the Truckee River. Restoration actions implemented will include road and drainage improvements along South Euer Valley Road; specifically replacing failed culvert systems and installing rocked low-water crossings to reduce road capture, implementing rolling dips to improve drainage and incorporating willow wattles downstream of drainage crossings to ensure sediment capture.

The project will reduce the suspended sediment load to the Truckee River by 1.83 tons/year. This is calculated as a relative percentage of the annual suspended sediment load estimates for Prosser Creek per the TMDL staff report (Amorfini & Holden 2008) and the size of the project site (30 acres) relative to the Prosser Creek sub basin (20,791 acres). The importance of this reduction is amplified by the “headwater” nature of the project site. Situated at the head of the 350-acre Euer Valley meadow complex, the degradation at the project site threatens to unravel functional portions of the system. Addressing this relatively acute site not only reduces the suspended sediment load to the Truckee River, but also protects against future increases.

TMWA Benefit:

Watershed Improvement: The project will decrease sedimentation and support attainment of the 303(d) listed TMDL pollutant to Truckee River. This project also enhances watershed function and habitat within the Middle Truckee watershed by significantly reducing erosion and sediment transfer from an active loading source to South Prosser Creek. Project components funded by other cost-share sources will help to stabilize eroding streambanks, improve aquatic habitat, enhance riparian vegetation and provide sustainable recreational use to reduce impacts on sensitive habitat areas. Prosser Creek is in the top three/four producers of excessive sedimentation (LRWQCB 2008).

Support to Rehabilitation of Local Tributary Creeks and Drainage Courses: The project will restore a 1.5 mile stretch of degraded roadway with direct connectivity to a key tributary that is a known contributor of sediment to the Truckee River. At present, failed culverted systems, poor drainage and improperly constructed roadways result in continuous erosion and high transfer of sediment loads that lead to increases in turbidity and temperature and a decrease in dissolved oxygen. The improvements proposed through this project and increased vegetative cover and density will mitigate the continued degradation of water quality. This project will improve watershed function and reduce sediment transfer to the Prosser Creek, as well as to the main stem of the Truckee River. Beneficial water quality improvements to Prosser Creek and to the main stem of the Truckee River will be realized through decreased erosion and a significant reduction in sediment transfer.

Re-Forestation and Re-Vegetation Projects: This project addresses and restores local resources and waterways that have been significantly impacted by historical logging operations. Legacy land-uses and improperly constructed road networks are considered to be high sources of excess runoff and sediment that further degrades stream and riparian habitat and has long-term effects on water quality and on the management of water impoundments, including Prosser Reservoir.

South Euer Valley Road is one such road that exhibits road capture at multiple perennial and ephemeral stream crossings. Restored hydrologic connectivity will reduce road capture and increase the amount of water that is available in stream channels and adjacent riparian/wetland habitat. This increased water availability will allow for greater retention later into the summer months and water will slowly be released in times it is needed most, particularly in the later summer and fall months and will help to increase late-season water supply in years where drought conditions are present.

Stewardship and Environmental Awareness: The project will include outreach to community members through newsletters, email updates and project site tours. Outreach will be designed to increase understanding and importance of stream and habitat restoration and improvements to water quality through reduction of sediments and other pollutants within the watershed. Specific tasks of the program include leading project site tours, producing interpretive signage, and publishing articles in our on-line and print newsletters. Volunteers will also support the project on TRWC's annual Truckee River Day.

Project #285: Watershed Education Initiative

Organization: Sierra Nevada Journeys (SNJ)

Project Description:

Sierra Nevada Journeys' Watershed Education Initiative is a dynamic education program intentionally designed to build an understanding of student's local watershed, including human impacts on the watershed, water quality, and issues surrounding watershed protection. The program occurs over several sessions. After a brief orientation, our educators go into classrooms and teach two lessons. Each lesson fosters students' interest in science by using hands-on activities like creating a watershed model.

The program culminates with a 3-hour field study at a local nature site, where students apply what they have learned in a real-world context. Field sites for the Watershed Education Initiative include Oxbow Nature Study Area, Galena Creek Regional Park, and the Nature Conservancy's McCarran Ranch Preserve. Students explore, assess, and collect data about the health of the Truckee River Watershed by observing the river, collecting macroinvertebrate species for study, and discussing how we can use the data to make a decision on overall river health. The program also embeds opportunities to build critical thinking skills and social-emotional learning.

While in-class and field-based lessons reach students, WEI's additional outreach components support teachers, engage families, and reach community volunteers. Through extension lessons, Sierra Nevada Journeys supports teachers in getting their students back on track after distance learning and extending watershed learning beyond the Sierra Nevada Journeys-led learning experiences. Classroom teachers receive additional materials covering watershed exploration, and our instructors work one-on-one with classroom teachers during orientation to identify strategies that deepen student learning. We also engage families through a follow-up email that includes questions for guardians to discuss with their students, a link to photos from their field day, and information about the field site so they can visit together. We also engage parents as chaperones during our field trips to support student learning and bolster family engagement and excitement about learning objectives.

Sierra Nevada Journeys believes that science and nature are for everyone. We prioritize partnerships with schools primarily serving youth who have historically been denied access to high-quality science education and outdoor learning experiences. With this funding, Sierra Nevada Journeys will serve 700

students in approximately 26 classrooms in the Truckee River Watershed. Students served with this grant will be those who have the highest financial and learning needs, ensuring we address the science and outdoor equity gap.

In Summary, the Watershed Education Initiative includes:

- The school-based component includes two in-class lessons (three) hours of in-class instruction. Students participate in hands-on lessons incorporating the Truckee River watershed, point and non-point source pollution, invasive species, sources and impacts of erosion, water conservation, and stewardship.
- The field-based component includes one day of outdoor science education as students hike along the Truckee River Watershed. Students seek clues about 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 draw conclusions 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.
- 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
- 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.

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 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.

Project #287: River Stewards

Organization: The Reno Initiative for Shelter and Equality (RISE)

Project Description:

The River Stewards Project seeks to build upon a similar project that was successful in significantly reducing the amount of trash in the Truckee River watershed as well as the river itself. The presence of trash along the riverbanks poses a serious threat to water quality, and a threat to the health of the entire community. The proposed project site includes an upstream urban area, which is also located in close proximity to the TMWAA Water Treatment Plant.

The River Stewards Project will consist of ongoing trash removal, including removal of animal and biohazard waste, in areas along the Truckee River that are beautifully landscaped and designed for recreational use. Current and formerly unsheltered individuals will be hired on a contract basis at a livable wage as cleanup crew members. Crew members will receive comprehensive training by the Program Manager and other staff. The training will include instruction in community outreach to unsheltered individuals, consistent with the RISE organizational mission.

The funding will be used to hire one Program Manager and 6 Part-Time Contractors to decrease pollution in the areas within 100 feet on either side of the Truckee River. Expenses will include salaries, fringe benefits, and program supplies.

TMWA Benefit:

The River Stewards Project fits the TRF priority category **Stewardship and Environmental Awareness** by supporting a cleanup program and offering community education directly connected to preserving and protecting the local environment and enhancing water quality.

The project will also contribute to improving the local watershed by decreasing the total maximum daily load (TMDL) through the reduction of non-point source pollution in and around the Truckee River. The project's work will occur in upstream urban areas that are close to TMWAA's water treatment facility.

Project #288: Youth Watershed Education and Protection Projects

Organization: Great Basin Outdoor School

Project Description:

Since 1998, Great Basin Outdoor School engaged thousands of students through hands-on, experiential learning in the outdoor classroom as an alternative to the sedentary conditions of traditional classroom pedagogy. While most of the organization's programs are held in pristine outdoor sites across northern Nevada, Great Basin Outdoor School reaches schoolchildren through special events, such as Tahoe Truckee Snapshot Day. Tahoe Truckee Snapshot Day is a once-a-year opportunity for the organization to host and deliver water education to a local school group. Great Basin Outdoor School is planning to host this year's event with Mountain View Montessori School, a PreK-8 school located adjacent to Whites Creek in southwest Reno, and exhibiting sustainable practices on campus, including greenhouse and compost programs. Whites Creek is a second-order tributary of the Truckee River that originates in the Mount Rose Wilderness Area and drains into Steamboat Creek in south Reno, passing through extensive residential and commercial developments in its 11-mile length. During the event, naturalist

educators and volunteers will lead water sampling tests and activities related to hydrological themes, including dip netting for macroinvertebrates in Whites Creek.

During school breaks, Great Basin Outdoor School hosts week-long day camp programs at Reno's River School Farm to provide an active, educational environment and combat learning loss while school is not in session. The River School Farm is a sustainable farm and interpretive garden located near Mayberry Park on the Truckee River, providing easy access to the streambank for water ecology lessons and demonstrations. Naturalist educators will deliver content and lead students through engaging activities and lessons that pertain to critical water education and the Truckee River watershed. The organization will utilize the Project Water Education Today (WET) curriculum to inform lessons and activities for elementary-aged students. Great Basin Outdoor School will collaborate with the City of Reno's Utility Services Department to feature guest presenters specializing in stormwater management and pollution. Students will use aquatic dip nets to discover benthic macroinvertebrates in the Truckee River. Benthic macro invertebrates or benthos are bottom-dwelling animals that can be seen without a microscope and are bioindicators of aquatic conditions. Naturalists will lead students in stewardship projects by cleaning up trash near the streambank of the Truckee River and auditing collected litter. By constructing watershed models from tarps, students will visualize the topographic direction of watersheds and the flow of water. Students will learn about the Truckee River watershed and gain a sense of place as future stewards and stakeholders of this critical natural resource, while indicating knowledge gain of both point and non-point source pollution and practical ways to protect the Truckee River watershed.

TMWA Benefit:

Sustainability and Environmental Awareness: Funding support from Truckee River Fund will allow Great Basin Outdoor School to organize community service efforts and host participants for water sampling and data collection activities as stakeholders of Tahoe Truckee Snapshot Day taking place in May 2024. Participating in Tahoe Truckee Snapshot Day as a host organization will advance citizen science opportunities for students and educators, in addition to monitoring the ecological health of the Truckee River watershed. Students will learn relevant topics in watershed management and stewardship, realize their roles as stewards and future stakeholders, and apply these lessons toward sustainable decisions and choices. Furthermore, participation will allow Great Basin Outdoor School to leverage community support toward water conservancy and quality improvement efforts as it applies to the consortium's findings and recommendations.

Support will be applied to implementing water education and protection projects during spring and summer school break day camps. Both camps incorporate activities and deliverable content promoted by the initiative, including aquatic science demonstrations, field studies, and guest presentations exploring hydrology and water management. Students will demonstrate knowledge gain of point and non-point source pollution in bodies of water and the impact of pollution affecting the Truckee River watershed. Additionally, students will learn about the physical geography and flow of water by constructing watershed models with topographic features. By participating in activities led by naturalist educators, including aquatic science demonstrations and trash clean-ups along the Truckee River streambank in Mayberry Park, students will become active learners and problem solvers of critical ecological issues and their practical solutions. Lessons gained from the school break day camp experience will influence future stewardship behaviors and lifestyles. These educational opportunities will yield a greater understanding of human-caused alterations to watersheds and issues faced by the regional hydrosphere.

Project #289: Lower Truckee Trout Habitat Project

Organization: Trout Unlimited

Project Description:

Trout Unlimited has a long history of successful restoration projects on the Truckee River. Our habitat projects on the Truckee have led to improved stream resilience, increased fish presence, greater macroinvertebrate populations, and the resurgence of critical native vegetation within the system. While most of our work has been on the California side of this iconic river system, we are pleased to announce our intentions to restore a beloved and heavily used fishing access area in Nevada.

The Lower Truckee Trout Habitat Project builds on the success of similar projects implemented by Trout Unlimited on the Truckee River. Using the same construction techniques as were used at Glenshire and Horner’s Corner, TU is planning to install several “j-hook” habitat structures at Crystal Peak Park in Verdi. This project will provide much needed aquatic habitat that benefits wild and native trout in an area that has seen severe historic human manipulation, and it will help to protect banks from erosive processes.

TMWA Benefit:

Watershed Improvements: As with the entirety of the Truckee River, this site is listed as impaired under EPA 303(D). Crystal Peak is a heavily used access location for recreational angling, despite exhibiting degraded habitat conditions.

Increased temperature creates mortality in aquatic species by lowering the concentration of dissolved oxygen in the system. The proposed habitat features will create scour pools below the structure, increasing oxygenation and discouraging fine sediment deposition. In periods of low flow, this will serve to create cold water refugia for all aquatic species, increasing resilience throughout different flow regimes.

Most importantly, the rock vanes are designed to effectively shift the high-stress velocity gradients away from the bank and toward the center of the river channel. This serves to stabilize the bank and prevent excessive erosion below the vane. The design provides quality in-stream aquatic habitat and a cost-effective and low-maintenance bank stabilization approach when compared to other techniques such as placement of riprap and netting.

The Crystal Peak Park site is located upstream of both Chalk Bluff and Glendale TMWA water treatment plants. While not currently a section listed for turbidity impairments, the bank stabilization benefits of this project will prevent sediment input to downstream stretches including the two TMWA water treatment plants. With the project site located on public land within Washoe County parks, these efforts will increase the enjoyment of the area for anglers as well as the general public by increasing biodiversity and resilience of all wildlife that depend on the river. The increase of macroinvertebrates and fish will create more available food for birds and mammals, allowing the public more opportunities to engage with nature on this impacted stretch of the river.

Project #290: Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding 2024

Organization: Friends of Nevada Wilderness (FNW)

Project Description:

FNW staff will visit our known musk thistle sites in early spring to identify areas of greatest concern and prioritize locations for volunteers to work. We will also monitor the effectiveness of the previous year's treatments. Our main target species for removal is musk thistle (*Carduus nutans*), we will also be looking for weeds including perennial pepperweed (*Lepidium latifolium*), and medusahead (*Taeniatherum caput-medusae*) to provide additional information for the Forest Service.

During late April, May, and June FNW staff will lead volunteers to the worksites and remove musk thistle by digging with shovels or by hand. Though our last project usually concludes before the plants have gone to seed, if the plants have already formed viable seeds, we will clip the flower heads and pack them out to be safely destroyed. In the fall, volunteers will return to sites that were treated for musk thistle to spread a native seed mixture by hand. FNW provides some snacks, additional water, weed identification and removal training, education, and all necessary tools and personal protective equipment for volunteers. Please see the map, included in the attachments, for estimated project locations.

TMWA Benefit:

The proposed projects are in line with multiple grant priorities, specifically priority #2 (Watershed Improvements), priority #4 (Re-Forestation and Re-Vegetation Projects:) priority #6 (Stewardship and Environmental Awareness).

Noxious weeds, including the musk thistle, are a concern for the long-term health and biodiversity of the Truckee River Watershed. Our proposed volunteer projects can directly improve the quality of this area by removing musk thistle and reintroducing native grasses and flowers in the same locations - improving watershed resiliency. All of the proposed actions are recommended by the Forest Service botanists and best practices for musk thistle control. Reducing weeds in the Mount Rose Wilderness decreases the amount of seeds that can spread downstream, reduces soil erosion, improves water quality, and creates a better overall visitor experience along the Hunter Creek and Steamboat Ditch Trails.

This program continues to educate the community about the importance of noxious weed mitigation while providing opportunities to directly engage in the stewardship of weed removal themselves. Volunteers who complete a project with us will have an understanding of the connection between the importance of a healthy watershed and invasive species management. By working with the public, we can encourage intentional stewardship and awareness of our local watershed and water supply needs.

Project #291: Independence Lake Forest Resilience Project

Organization: The Nature Conservancy (TNC)

Project Description:

The proposed project is a continuation of previous forest health improvement work that has been funded in part through Truckee River Fund (TRF) grant awards, including the 2022 “Developing Forest Resilience to Fire at Independence Lake” project, which is still active and anticipated to be completed during the 2024 field season.

The California Department of Forestry and Fire Protection (Cal Fire) awarded TNC a \$2 million grant in 2020. Nearly \$1 million of the funding is still available for continued forest improvement and restoration

work at Independence Lake. The \$183,610 in TRF funding being requested through this proposal would complement the Cal Fire grant and allow for an entire unit of 270 acres to be treated. Specifically, this grant would provide funding to assist with implementation of 43 acres (\$3,500 per acre) of mechanical forest thinning treatments in the T-4 Treatment Unit (refer to attached map) which is located northeast of the lake. The Cal Fire funding will be used to match TRF funds (18 acres of treatment) as well as leveraged to treat an additional 209 acres to finish thinning of the unit. Work will be implemented under the approved Timber Harvest Plan (also attached) by a Licensed Timber Operator contracted and supervised by TNC.

Continued forest management is crucial to the preservation of Independence Lake. While fire adapted forests of California were once characterized by large, widely spaced trees and periodic, mixed-severity fires, the forests are no longer fire adapted and are instead dominated by dense thickets of small trees and brush with little to no regenerative fire. Experts estimate that up to 10 million acres of forested land in California alone need some form of treatment over the next twenty years (e.g., ecological thinning, prescribed fire) to restore their health and resiliency. Without these strategic interventions, we risk losing the many benefits healthy forests provide -- such as the provisioning of clean water and the sequestration of atmospheric carbon -- to large and high-severity megafires.

Recent events in California and Nevada forests, such as the drought induced death of more than 129 million trees over three years (2015 – 2017) and a significant increase in the number of large wildfires are clear indications that our forests need careful and active stewardship that is grounded in science and guided by ecological principles. To assist in determining the forest stewardship needs of Independence Lake, a burn probability analysis was conducted by Edward Smith, TNC Senior Forest Ecologist and Charlotte Stanley, TNC Spatial Data Analyst. The results predict that the likelihood of wildfire is moderate to high in the forests surrounding Independence Lake as depicted on the attached map of burn probability. Without continued forest health treatments at Independence Lake wildfires pose a significant threat to the forests and therefore to the Truckee River watershed. This project will contribute to mitigating those risks and will benefit not just Independence Lake, but also the surrounding watershed and water quality of the Truckee River system.

TMWA Benefit:

This project falls within Truckee River Fund's **Re-forestation and Re-vegetation Project Priority**. The project will improve the resiliency of the forest to wildfires and climate change, while reducing the risk of catastrophic wildfire near the lake that would result in increased erosion and sedimentation with negative impacts to water quality and aquatic habitat.

Project #292: River Justice: Pollution Reduction and Sustaining Water Quality

Organization: Indigenous Peoples Council on Biocolonialism

Project Description:

Healing Waters Institute (HWI) is submitting this grant in pursuit of the second year of a successful River Justice program. Within the past year, HWI has organized four large-scale River Justice clean-ups, hosted a drone training, hired two interns to assist with goals, strengthened organizational partnerships, and engaged local community members in water protection efforts. Indigenous Peoples of the Pyramid Lake Paiute Tribe (PLPT) are leading river protection efforts because the river cannot speak for itself.

This is known as River Justice. Throughout settler history, we understand anthropogenic and extractive impacts have upset the freshwater and pristine condition of surface waters. Municipal, industrial, toxic, chemical, solid, and increased nutrients enter the Truckee River from the Cities of Reno/Sparks, Interstate 80, and other upstream communities. Much of this pollution flows downstream to the Pyramid Lake Paiute Reservation and lower Truckee River, which threatens the Keystone species such as the federally endangered Cui-ui (*Chasmistes cujus*), and threatened Lahontan cutthroat trout (*Oncorhynchus clarkii henshawi*). Keystone species are defined as species that define a region and bring specialized needs to this group of fish. Indigenous Peoples including the Reno-Sparks Indian Colony and the Pyramid Lake Paiute Tribe continue to protect their cultural and traditional connections to land and water. Indigenous Peoples advocate for Environmental Justice to prevent their homelands from contamination, extraction, and exploitation.

Every day, Native people connect and continue to protect water. Their everyday struggle to maintain traditional, cultural, and spiritual connections to land, air, and water is being threatened. This grant will support the above projects in order to achieve the long-term health of the waters, wildlife, and communities of the lower Truckee River. Further, it will promote the necessary work for the Truckee Meadows Water Authority and Community Foundations to find solutions to the problems. This project is positive and commits to being a true champion in Environmental Protection and working toward strategies with Indigenous Peoples.

Project Tracking and Monitoring River Health

Surveying and use of drones is a needed tool to monitor the progress of riparian corridor health. In our first grant year, we initiated drone training to increase the capacity and support the skills of Tribal members, volunteers and partners. The DJI Mavic drone will be flown over the Truckee River to monitor river health and project tracking for Truckee River Fund grant. We plan to schedule two trainings to assist surveying and monitoring River Justice cleanups.

Our data and survey methods are specifically designed to conform to the Truckee River Dashboard being developed by One Truckee River. We are committed to work as partners to deliver data more efficiently through the submittal of data through google forms. Trash removed from the river and added to the solid waste database will help track the dynamics of solid waste trends.

River Justice must be an ongoing program and is committed to engage more partners each year. We value that HWI will bring attention to aquatic invasive weeds, noxious weeds, erosion, sediment discharges, and restoration, revegetation, and other stewardship needs along the lower Truckee River, all of which will help the PLPT and other stakeholders identify and plan for future work to improve river health. HWI continues to collaborate with mutual aid programs to decrease food waste, use reusable/compostable dinnerware, and are steering partners to plan their own independent cleanups. This enables us to all share the costs and labor of Solid Waste reduction. We are solution-oriented and develop a focus to meet with potential and loyal partners frequently. Mutual aid groups are effectively strategizing efforts to reduce litter and solid waste within the Truckee Meadows.

Site Clean Ups

During the spring and fall of 2024, a reconnaissance team will identify four clean-up sites along the Truckee River and four sites on the shorelines of Pyramid Lake. This will involve coordination with Truckee Meadows Water Reclamation Facility (TMWRF), Washoe County, Cities of Reno/Sparks, and River Justice

TMWA Benefit:

Our monitoring program will help identify challenges such as:

- Continue to reduce waste pollution and increase water quality goals for the river.
- Continue to recruit partners to provide stewardship and adding their organizational commitments to the watershed.
- Produce a Pollution Reduction documentary for the public, Indigenous communities, TMWA customers and communities within the Truckee River Watershed which educates the success of River Justice

TRUCKEE MEADOWS WATER AUTHORITY
(TMWA)

RESOLUTION NO. 325

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

WHEREAS, the Truckee Meadows Water Authority and the Community Foundation of Northern 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. 325 (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 20, 2023 by the following vote of the Board:

Ayes: _____

Nays: _____

Abstain: _____ Absent: _____

Approved March 20, 2024

Kristopher Dahir, Chair

EXHIBIT A

PROJECTS RECOMMENDED FOR FUNDING

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Truckee Meadows Water Authority
Resolution No. 325 (continued)

Project #284: South Euer Valley Road Improvement Project

Organization: Truckee River Watershed Council (TRWC)

Project Description:

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The project will reduce the suspended sediment load to the Truckee River by 1.83 tons/year. This is calculated as a relative percentage of the annual suspended sediment load estimates for Prosser Creek per the TMDL staff report (Amorfini & Holden 2008) and the size of the project site (30 acres) relative to the Prosser Creek sub basin (20,791 acres). The importance of this reduction is amplified by the “headwater” nature of the project site. Situated at the head of the 350-acre Euer Valley meadow complex, the degradation at the project site threatens to unravel functional portions of the system. Addressing this relatively acute site not only reduces the suspended sediment load to the Truckee River, but also protects against future increases.

TMWA Benefit:

Watershed Improvement: The project will decrease sedimentation and support attainment of the 303(d) listed TMDL pollutant to Truckee River. This project also enhances watershed function and habitat within the Middle Truckee watershed by significantly reducing erosion and sediment transfer from an active loading source to South Prosser Creek. Project components funded by other cost-share sources will help to stabilize eroding streambanks, improve aquatic habitat, enhance riparian vegetation and provide sustainable recreational use to reduce impacts on sensitive habitat areas. Prosser Creek is in the top three/four producers of excessive sedimentation (LRWQCB 2008).

Support to Rehabilitation of Local Tributary Creeks and Drainage Courses: The project will restore a 1.5 mile stretch of degraded roadway with direct connectivity to a key tributary that is a known contributor of sediment to the Truckee River. At present, failed culverted systems, poor drainage and improperly constructed roadways result in continuous erosion and high transfer of sediment loads that lead to increases in turbidity and temperature and a decrease in dissolved oxygen. The improvements proposed through this project and increased vegetative cover and density will mitigate the continued degradation of water quality. This project will improve watershed function and reduce sediment transfer to the Prosser Creek, as well as to the main stem of the Truckee River. Beneficial water quality improvements to Prosser Creek and to the main stem of the Truckee River will be realized through decreased erosion and a significant reduction in sediment transfer.

Re-Forestation and Re-Vegetation Projects: This project addresses and restores local resources and waterways that have been significantly impacted by historical logging operations. Legacy land-uses and improperly constructed road networks are considered to be high sources of excess runoff and sediment that further degrades stream and riparian habitat and has long-term effects on water quality and on the management of water impoundments, including Prosser Reservoir.

South Euer Valley Road is one such road that exhibits road capture at multiple perennial and ephemeral stream crossings. Restored hydrologic connectivity will reduce road capture and increase the amount of

Truckee Meadows Water Authority
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water that is available in stream channels and adjacent riparian/wetland habitat. This increased water availability will allow for greater retention later into the summer months and water will slowly be released in times it is needed most, particularly in the later summer and fall months and will help to increase late-season water supply in years where drought conditions are present.

Stewardship and Environmental Awareness: The project will include outreach to community members through newsletters, email updates and project site tours. Outreach will be designed to increase understanding and importance of stream and habitat restoration and improvements to water quality through reduction of sediments and other pollutants within the watershed. Specific tasks of the program include leading project site tours, producing interpretive signage, and publishing articles in our on-line and print newsletters. Volunteers will also support the project on TRWC's annual Truckee River Day.

Project #285: Watershed Education Initiative

Organization: Sierra Nevada Journeys (SNJ)

Project Description:

Sierra Nevada Journeys' Watershed Education Initiative is a dynamic education program intentionally designed to build an understanding of student's local watershed, including human impacts on the watershed, water quality, and issues surrounding watershed protection. The program occurs over several sessions. After a brief orientation, our educators go into classrooms and teach two lessons. Each lesson fosters students' interest in science by using hands-on activities like creating a watershed model.

The program culminates with a 3-hour field study at a local nature site, where students apply what they have learned in a real-world context. Field sites for the Watershed Education Initiative include Oxbow Nature Study Area, Galena Creek Regional Park, and the Nature Conservancy's McCarran Ranch Preserve. Students explore, assess, and collect data about the health of the Truckee River Watershed by observing the river, collecting macroinvertebrate species for study, and discussing how we can use the data to make a decision on overall river health. The program also embeds opportunities to build critical thinking skills and social-emotional learning.

While in-class and field-based lessons reach students, WEI's additional outreach components support teachers, engage families, and reach community volunteers. Through extension lessons, Sierra Nevada Journeys supports teachers in getting their students back on track after distance learning and extending watershed learning beyond the Sierra Nevada Journeys-led learning experiences. Classroom teachers receive additional materials covering watershed exploration, and our instructors work one-on-one with classroom teachers during orientation to identify strategies that deepen student learning. We also engage families through a follow-up email that includes questions for guardians to discuss with their students, a link to photos from their field day, and information about the field site so they can visit together. We also engage parents as chaperones during our field trips to support student learning and bolster family engagement and excitement about learning objectives.

Sierra Nevada Journeys believes that science and nature are for everyone. We prioritize partnerships with schools primarily serving youth who have historically been denied access to high-quality science education and outdoor learning experiences. With this funding, Sierra Nevada Journeys will serve 700 students in approximately 26 classrooms in the Truckee River Watershed. Students served with this

Truckee Meadows Water Authority
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grant will be those who have the highest financial and learning needs, ensuring we address the science and outdoor equity gap.

In Summary, the Watershed Education Initiative includes:

- The school-based component includes two in-class lessons (three) hours of in-class instruction. Students participate in hands-on lessons incorporating the Truckee River watershed, point and non-point source pollution, invasive species, sources and impacts of erosion, water conservation, and stewardship.
- The field-based component includes one day of outdoor science education as students hike along the Truckee River Watershed. Students seek clues about 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 draw conclusions 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.
- 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
- 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.

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 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.

Truckee Meadows Water Authority
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Project #287: River Stewards

Organization: The Reno Initiative for Shelter and Equality (RISE)

Project Description:

The River Stewards Project seeks to build upon a similar project that was successful in significantly reducing the amount of trash in the Truckee River watershed as well as the river itself. The presence of trash along the riverbanks poses a serious threat to water quality, and a threat to the health of the entire community. The proposed project site includes an upstream urban area, which is also located in close proximity to the TMWAA Water Treatment Plant.

The River Stewards Project will consist of ongoing trash removal, including removal of animal and biohazard waste, in areas along the Truckee River that are beautifully landscaped and designed for recreational use. Current and formerly unsheltered individuals will be hired on a contract basis at a livable wage as cleanup crew members. Crew members will receive comprehensive training by the Program Manager and other staff. The training will include instruction in community outreach to unsheltered individuals, consistent with the RISE organizational mission.

The funding will be used to hire one Program Manager and 6 Part-Time Contractors to decrease pollution in the areas within 100 feet on either side of the Truckee River. Expenses will include salaries, fringe benefits, and program supplies.

TMWA Benefit:

The River Stewards Project fits the TRF priority category **Stewardship and Environmental Awareness** by supporting a cleanup program and offering community education directly connected to preserving and protecting the local environment and enhancing water quality.

The project will also contribute to improving the local watershed by decreasing the total maximum daily load (TMDL) through the reduction of non-point source pollution in and around the Truckee River. The project's work will occur in upstream urban areas that are close to TMWAA's water treatment facility.

Project #288: Youth Watershed Education and Protection Projects

Organization: Great Basin Outdoor School

Project Description:

Since 1998, Great Basin Outdoor School engaged thousands of students through hands-on, experiential learning in the outdoor classroom as an alternative to the sedentary conditions of traditional classroom pedagogy. While most of the organization's programs are held in pristine outdoor sites across northern Nevada, Great Basin Outdoor School reaches schoolchildren through special events, such as Tahoe Truckee Snapshot Day. Tahoe Truckee Snapshot Day is a once-a-year opportunity for the organization to host and deliver water education to a local school group. Great Basin Outdoor School is planning to host this year's event with Mountain View Montessori School, a PreK-8 school located adjacent to Whites Creek in southwest Reno, and exhibiting sustainable practices on campus, including greenhouse and compost programs. Whites Creek is a second-order tributary of the Truckee River that originates in the Mount Rose Wilderness Area and drains into Steamboat Creek in south Reno, passing through extensive residential and commercial developments in its 11-mile length. During the event, naturalist

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educators and volunteers will lead water sampling tests and activities related to hydrological themes, including dip netting for macroinvertebrates in Whites Creek.

During school breaks, Great Basin Outdoor School hosts week-long day camp programs at Reno's River School Farm to provide an active, educational environment and combat learning loss while school is not in session. The River School Farm is a sustainable farm and interpretive garden located near Mayberry Park on the Truckee River, providing easy access to the streambank for water ecology lessons and demonstrations. Naturalist educators will deliver content and lead students through engaging activities and lessons that pertain to critical water education and the Truckee River watershed. The organization will utilize the Project Water Education Today (WET) curriculum to inform lessons and activities for elementary-aged students. Great Basin Outdoor School will collaborate with the City of Reno's Utility Services Department to feature guest presenters specializing in stormwater management and pollution. Students will use aquatic dip nets to discover benthic macroinvertebrates in the Truckee River. Benthic macro invertebrates or benthos are bottom-dwelling animals that can be seen without a microscope and are bioindicators of aquatic conditions. Naturalists will lead students in stewardship projects by cleaning up trash near the streambank of the Truckee River and auditing collected litter. By constructing watershed models from tarps, students will visualize the topographic direction of watersheds and the flow of water. Students will learn about the Truckee River watershed and gain a sense of place as future stewards and stakeholders of this critical natural resource, while indicating knowledge gain of both point and non-point source pollution and practical ways to protect the Truckee River watershed.

TMWA Benefit:

Sustainability and Environmental Awareness: Funding support from Truckee River Fund will allow Great Basin Outdoor School to organize community service efforts and host participants for water sampling and data collection activities as stakeholders of Tahoe Truckee Snapshot Day taking place in May 2024. Participating in Tahoe Truckee Snapshot Day as a host organization will advance citizen science opportunities for students and educators, in addition to monitoring the ecological health of the Truckee River watershed. Students will learn relevant topics in watershed management and stewardship, realize their roles as stewards and future stakeholders, and apply these lessons toward sustainable decisions and choices. Furthermore, participation will allow Great Basin Outdoor School to leverage community support toward water conservancy and quality improvement efforts as it applies to the consortium's findings and recommendations.

Support will be applied to implementing water education and protection projects during spring and summer school break day camps. Both camps incorporate activities and deliverable content promoted by the initiative, including aquatic science demonstrations, field studies, and guest presentations exploring hydrology and water management. Students will demonstrate knowledge gain of point and non-point source pollution in bodies of water and the impact of pollution affecting the Truckee River watershed. Additionally, students will learn about the physical geography and flow of water by constructing watershed models with topographic features. By participating in activities led by naturalist educators, including aquatic science demonstrations and trash clean-ups along the Truckee River streambank in Mayberry Park, students will become active learners and problem solvers of critical ecological issues and their practical solutions. Lessons gained from the school break day camp experience will influence future stewardship behaviors and lifestyles. These educational opportunities will yield a greater understanding of human-caused alterations to watersheds and issues faced by the regional hydrosphere.

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Project #289: Lower Truckee Trout Habitat Project

Organization: Trout Unlimited

Project Description:

Trout Unlimited has a long history of successful restoration projects on the Truckee River. Our habitat projects on the Truckee have led to improved stream resilience, increased fish presence, greater macroinvertebrate populations, and the resurgence of critical native vegetation within the system. While most of our work has been on the California side of this iconic river system, we are pleased to announce our intentions to restore a beloved and heavily used fishing access area in Nevada.

The Lower Truckee Trout Habitat Project builds on the success of similar projects implemented by Trout Unlimited on the Truckee River. Using the same construction techniques as were used at Glenshire and Horner's Corner, TU is planning to install several "j-hook" habitat structures at Crystal Peak Park in Verdi. This project will provide much needed aquatic habitat that benefits wild and native trout in an area that has seen severe historic human manipulation, and it will help to protect banks from erosive processes.

TMWA Benefit:

Watershed Improvements: As with the entirety of the Truckee River, this site is listed as impaired under EPA 303(D). Crystal Peak is a heavily used access location for recreational angling, despite exhibiting degraded habitat conditions.

Increased temperature creates mortality in aquatic species by lowering the concentration of dissolved oxygen in the system. The proposed habitat features will create scour pools below the structure, increasing oxygenation and discouraging fine sediment deposition. In periods of low flow, this will serve to create cold water refugia for all aquatic species, increasing resilience throughout different flow regimes.

Most importantly, the rock vanes are designed to effectively shift the high-stress velocity gradients away from the bank and toward the center of the river channel. This serves to stabilize the bank and prevent excessive erosion below the vane. The design provides quality in-stream aquatic habitat and a cost-effective and low-maintenance bank stabilization approach when compared to other techniques such as placement of riprap and netting.

The Crystal Peak Park site is located upstream of both Chalk Bluff and Glendale TMWA water treatment plants. While not currently a section listed for turbidity impairments, the bank stabilization benefits of this project will prevent sediment input to downstream stretches including the two TMWA water treatment plants. With the project site located on public land within Washoe County parks, these efforts will increase the enjoyment of the area for anglers as well as the general public by increasing biodiversity and resilience of all wildlife that depend on the river. The increase of macroinvertebrates and fish will create more available food for birds and mammals, allowing the public more opportunities to engage with nature on this impacted stretch of the river.

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Project #290: Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding 2024

Organization: Friends of Nevada Wilderness (FNW)

Project Description:

FNW staff will visit our known musk thistle sites in early spring to identify areas of greatest concern and prioritize locations for volunteers to work. We will also monitor the effectiveness of the previous year's treatments. Our main target species for removal is musk thistle (*Carduus nutans*), we will also be looking for weeds including perennial pepperweed (*Lepidium latifolium*), and medusahead (*Taeniatherum caput-medusae*) to provide additional information for the Forest Service.

During late April, May, and June FNW staff will lead volunteers to the worksites and remove musk thistle by digging with shovels or by hand. Though our last project usually concludes before the plants have gone to seed, if the plants have already formed viable seeds, we will clip the flower heads and pack them out to be safely destroyed. In the fall, volunteers will return to sites that were treated for musk thistle to spread a native seed mixture by hand. FNW provides some snacks, additional water, weed identification and removal training, education, and all necessary tools and personal protective equipment for volunteers. Please see the map, included in the attachments, for estimated project locations.

TMWA Benefit:

The proposed projects are in line with multiple grant priorities, specifically priority #2 (Watershed Improvements), priority #4 (Re-Forestation and Re-Vegetation Projects:) priority #6 (Stewardship and Environmental Awareness).

Noxious weeds, including the musk thistle, are a concern for the long-term health and biodiversity of the Truckee River Watershed. Our proposed volunteer projects can directly improve the quality of this area by removing musk thistle and reintroducing native grasses and flowers in the same locations - improving watershed resiliency. All of the proposed actions are recommended by the Forest Service botanists and best practices for musk thistle control. Reducing weeds in the Mount Rose Wilderness decreases the amount of seeds that can spread downstream, reduces soil erosion, improves water quality, and creates a better overall visitor experience along the Hunter Creek and Steamboat Ditch Trails.

This program continues to educate the community about the importance of noxious weed mitigation while providing opportunities to directly engage in the stewardship of weed removal themselves. Volunteers who complete a project with us will have an understanding of the connection between the importance of a healthy watershed and invasive species management. By working with the public, we can encourage intentional stewardship and awareness of our local watershed and water supply needs.

Project #291: Independence Lake Forest Resilience Project

Organization: The Nature Conservancy (TNC)

Project Description:

The proposed project is a continuation of previous forest health improvement work that has been funded in part through Truckee River Fund (TRF) grant awards, including the 2022 "Developing Forest Resilience to Fire at Independence Lake" project, which is still active and anticipated to be completed during the 2024 field season.

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The California Department of Forestry and Fire Protection (Cal Fire) awarded TNC a \$2 million grant in 2020. Nearly \$1 million of the funding is still available for continued forest improvement and restoration work at Independence Lake. The \$183,610 in TRF funding being requested through this proposal would complement the Cal Fire grant and allow for an entire unit of 270 acres to be treated. Specifically, this grant would provide funding to assist with implementation of 43 acres (\$3,500 per acre) of mechanical forest thinning treatments in the T-4 Treatment Unit (refer to attached map) which is located northeast of the lake. The Cal Fire funding will be used to match TRF funds (18 acres of treatment) as well as leveraged to treat an additional 209 acres to finish thinning of the unit. Work will be implemented under the approved Timber Harvest Plan (also attached) by a Licensed Timber Operator contracted and supervised by TNC.

Continued forest management is crucial to the preservation of Independence Lake. While fire adapted forests of California were once characterized by large, widely spaced trees and periodic, mixed-severity fires, the forests are no longer fire adapted and are instead dominated by dense thickets of small trees and brush with little to no regenerative fire. Experts estimate that up to 10 million acres of forested land in California alone need some form of treatment over the next twenty years (e.g., ecological thinning, prescribed fire) to restore their health and resiliency. Without these strategic interventions, we risk losing the many benefits healthy forests provide -- such as the provisioning of clean water and the sequestration of atmospheric carbon -- to large and high-severity megafires.

Recent events in California and Nevada forests, such as the drought induced death of more than 129 million trees over three years (2015 – 2017) and a significant increase in the number of large wildfires are clear indications that our forests need careful and active stewardship that is grounded in science and guided by ecological principles. To assist in determining the forest stewardship needs of Independence Lake, a burn probability analysis was conducted by Edward Smith, TNC Senior Forest Ecologist and Charlotte Stanley, TNC Spatial Data Analyst. The results predict that the likelihood of wildfire is moderate to high in the forests surrounding Independence Lake as depicted on the attached map of burn probability. Without continued forest health treatments at Independence Lake wildfires pose a significant threat to the forests and therefore to the Truckee River watershed. This project will contribute to mitigating those risks and will benefit not just Independence Lake, but also the surrounding watershed and water quality of the Truckee River system.

TMWA Benefit:

This project falls within Truckee River Fund's **Re-forestation and Re-vegetation Project Priority**. The project will improve the resiliency of the forest to wildfires and climate change, while reducing the risk of catastrophic wildfire near the lake that would result in increased erosion and sedimentation with negative impacts to water quality and aquatic habitat.

Project #292: River Justice: Pollution Reduction and Sustaining Water Quality

Organization: Indigenous Peoples Council on Biocolonialism

Project Description:

Healing Waters Institute (HWI) is submitting this grant in pursuit of the second year of a successful River Justice program. Within the past year, HWI has organized four large-scale River Justice clean-ups,

Truckee Meadows Water Authority
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hosted a drone training, hired two interns to assist with goals, strengthened organizational partnerships, and engaged local community members in water protection efforts. Indigenous Peoples of the Pyramid Lake Paiute Tribe (PLPT) are leading river protection efforts because the river cannot speak for itself. This is known as River Justice. Throughout settler history, we understand anthropogenic and extractive impacts have upset the freshwater and pristine condition of surface waters. Municipal, industrial, toxic, chemical, solid, and increased nutrients enter the Truckee River from the Cities of Reno/Sparks, Interstate 80, and other upstream communities. Much of this pollution flows downstream to the Pyramid Lake Paiute Reservation and lower Truckee River, which threatens the Keystone species such as the federally endangered Cui-ui (*Chasmistes cujus*), and threatened Lahontan cutthroat trout (*Oncorhynchus clarkii henshawi*). Keystone species are defined as species that define a region and bring specialized needs to this group of fish. Indigenous Peoples including the Reno-Sparks Indian Colony and the Pyramid Lake Paiute Tribe continue to protect their cultural and traditional connections to land and water. Indigenous Peoples advocate for Environmental Justice to prevent their homelands from contamination, extraction, and exploitation.

Every day, Native people connect and continue to protect water. Their everyday struggle to maintain traditional, cultural, and spiritual connections to land, air, and water is being threatened. This grant will support the above projects in order to achieve the long-term health of the waters, wildlife, and communities of the lower Truckee River. Further, it will promote the necessary work for the Truckee Meadows Water Authority and Community Foundations to find solutions to the problems. This project is positive and commits to being a true champion in Environmental Protection and working toward strategies with Indigenous Peoples.

Project Tracking and Monitoring River Health

Surveying and use of drones is a needed tool to monitor the progress of riparian corridor health. In our first grant year, we initiated drone training to increase the capacity and support the skills of Tribal members, volunteers and partners. The DJI Mavic drone will be flown over the Truckee River to monitor river health and project tracking for Truckee River Fund grant. We plan to schedule two trainings to assist surveying and monitoring River Justice cleanups.

Our data and survey methods are specifically designed to conform to the Truckee River Dashboard being developed by One Truckee River. We are committed to work as partners to deliver data more efficiently through the submittal of data through google forms. Trash removed from the river and added to the solid waste database will help track the dynamics of solid waste trends.

River Justice must be an ongoing program and is committed to engage more partners each year. We value that HWI will bring attention to aquatic invasive weeds, noxious weeds, erosion, sediment discharges, and restoration, revegetation, and other stewardship needs along the lower Truckee River, all of which will help the PLPT and other stakeholders identify and plan for future work to improve river health. HWI continues to collaborate with mutual aid programs to decrease food waste, use reusable/compostable dinnerware, and are steering partners to plan their own independent cleanups. This enables us to all share the costs and labor of Solid Waste reduction. We are solution-oriented and develop a focus to meet with potential and loyal partners frequently. Mutual aid groups are effectively strategizing efforts to reduce litter and solid waste within the Truckee Meadows.

Site Clean Ups

During the spring and fall of 2024, a reconnaissance team will identify four clean-up sites along the Truckee River and four sites on the shorelines of Pyramid Lake. This will involve coordination with

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Truckee Meadows Water Reclamation Facility (TMWRF), Washoe County, Cities of Reno/Sparks, and River Justice

TMWA Benefit:

Our monitoring program will help identify challenges such as:

- Continue to reduce waste pollution and increase water quality goals for the river.
- Continue to recruit partners to provide stewardship and adding their organizational commitments to the watershed.
- Produce a Pollution Reduction documentary for the public, Indigenous communities, TMWA customers and communities within the Truckee River Watershed which educates the success of River Justice

TRF #284 South Euer Valley Road Improvement Project

Truckee River Fund- Spring 2024

Truckee River Watershed Council

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Application Form

Truckee River Fund Grant Priorities

Truckee Meadows Water Authority (TMWA) recommends that the Truckee River Fund (TRF) Advisory Committee (the "Committee") give preference to well-supported, clearly drafted grant requests that consider substantial benefits to TMWA customers for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby water treatment and hydroelectric plant intakes.

- **Aquatic Invasive Species (AIS):** Projects/Programs that support the prevention or control of aquatic invasive species in the mainstem Truckee River, Lake Tahoe, other tributaries and water bodies in the Truckee River system.
- **Watershed Improvements:** Projects that reduce erosion or sediment, suspended solids, or total dissolve solids (TDS) discharges, nutrients, industrial contaminants, or bacterial pollutants to the River. Projects or programs that are located within 303d (impaired waters) and total maximum daily load (TMDL) sections of the River should be considered, both in California and Nevada. Innovative techniques should be encouraged. The following link identifies impaired sections of the river and its tributaries: <https://mywaterway.epa.gov/>.
- **Local Stormwater Improvements:** Projects that demonstrably 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.
- **Re-Forestation and Re-Vegetation Projects:** Projects to restore forest and upland areas damaged by fire and historical logging operations, and to improve watershed 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.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** Projects to support water quality improvement in creeks and tributaries to the Truckee River.
- **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 that do not fall clearly into the one of the above-mentioned categories.

Notes:

- For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Northern Nevada for additional criteria at lrenda@nevadafund.org.
- For proposals in the Lake Tahoe Basin, the Truckee River Fund (TRF) typically only funds proposals related to Priority I and VI.

Grantee Requirements

GRANTEE REQUIREMENTS

To be eligible for funding, grantees must adhere to the following requirements:

- Funds are to be used and/or disbursed exclusively for the charitable uses and purposes.

- The Fund shall be used exclusively for projects that protect and enhance water quality or water resources of the Truckee River, or its watershed.
- Grantees may include 501(c)(3) organizations and governmental entities. Any grants to governmental entities must be made exclusively for public benefit purposes.
- All grantees will be required to sign a grant agreement stipulating their agreement to all applicable terms, conditions, and reporting requirements.
- Organizations or entities sponsoring proposals are prohibited from ex parte communications with members of the Committee regarding such proposals while those proposals are pending before the Committee, and such communications may be grounds for rejecting a proposal.
- 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.

TRUCKEE MEADOWS WATER AUTHORITY BOARD OF DIRECTOR'S DISCRETION

For each proposal submitted and recommended by the Committee the TMWA Board of Directors has absolute discretion to:

- Accept or reject any proposal;
- Accept a proposal on the condition that certain modifications be made;
- Assess proposals as they see fit, without in any way being obligated to select any proposal;
- Determine whether proposals satisfactorily meet the evaluation criteria set out in this RFP;
- Reject proposals with or without cause, whether based on the evaluation criteria set out above or otherwise.

PERFORMANCE GUIDELINES

To maintain eligibility to receive grant funds, each Charitable Beneficiary must comply at all times with the following requirements:

- Must be exempt from federal income taxation under Section 501(c)(3) of the Code;
- Shall use all Fund distributions toward projects that are appropriate and legal public expenditures;
- Must provide financial details and/or reports of their organizations upon request;
- Must submit quarterly reports.
- Must not use any Fund distributions for political contributions or political advocacy;
- Must either implement the projects, activities, and/or programs for which they received Fund distributions within six months of the date in which such distributions are received or by date(s) as agreed upon in the grant acceptance agreement, or must return all such distributions to the Community Foundation of Northern Nevada forthwith;
- Must provide the Community Foundation of Northern Nevada a report detailing the completion of their projects, activities, and/or programs; and
- Must sign an agreement regarding their compliance with the qualifications hereof.

Project Evaluation Criteria

EVALUATION CRITERIA

Applications are evaluated according to the following criteria and in order of priority. If the grant applicant does not meet the “Grantee Requirements”, the application will not be considered.

1. RELEVANCE OF PROPOSAL TO THE TRF PROGRAM

- Address TRF grant priorities – Does the project address at least one of the TRF grant priorities, as described at the beginning of the RFP?
- Meet multiple objectives – Does the project meet multiple grant priorities?
- Public benefit of the project – Does the project help TMWA protect its sources of drinking water?
- Benefit to TMWA customers – Is there a direct benefit to TMWA customers?
- Project location – Is the project located upstream of one of TMWA’s water treatment plants?

2. QUALITY OF PROJECT DESIGN

- Appropriateness of selected project methods – Do the proposed project strategies make sense to address the watershed and/or water quality concern(s) outlined by the applicant?
- Thoroughness of project design – Is the project design adequately detailed to ensure the desired outcome(s)?
- Sustainability of project – Will the benefits of the project continue after the grant funds are expended?
- Project longevity – If ongoing operation & maintenance (O&M) is required to maintain benefits, is it funded?
- Consideration of existing research – Does the project consider existing research, planning efforts, or assessments related to the Truckee River watershed?

3. MEASURABILITY OF PROJECT SUCCESS

- Identification of project benchmarks or milestones – Has the applicant described the steps necessary to complete the project?
- Demonstrated ability to measure the results of the project – Does the project have adequate measurable outcomes to evaluate project success?
- Benefits expected from a successful project – Are there clear goals that will be obtained on project completion?
- Readiness to begin project – Is the grant applicant ready to undertake and complete the project?

4. EFFECTIVENESS OF ORGANIZATION

- Qualifications of applicant for the proposed project – Does the applicant have adequate experience and credentials to perform the work described in the application?
- Collaborative efforts – Are there partner organizations supporting or benefiting from the project?
- Demonstrated ability of applicant to manage and complete the project – Has the applicant successfully completed projects similar to the one proposed? If previously funded by TRF, has the applicant met performance requirements and completed projects successfully?

5. ADEQUACY OF PROPOSED BUDGET

- Availability and status of matching funds – Does the project provide a minimum of 25 percent match in cash and/or in-kind services? If the project is downstream of the USGS Vista gage, is the 25 percent match requirement met using cash match?
- Total project cost relative to benefits – Is the project cost reasonable given the expected project outcome(s)?
- Appropriateness of budget – Are the costs presented in the budget adequately detailed and do they seem reasonable? Is the project under the 25 percent indirect/overhead expense limit?

Organization Information

Organization Name*

Truckee River Watershed Council

Organization Type*

501(c)(3) Nonprofit

EIN

If the organization is a 501c3, please include the EIN#.

91-1818748

Director of Organization*

Lisa Wallace

Project Contact Name*

Eben Swain

Project Contact Postion/Title*

Project Director

Project Contact Email*

eswain@truckeeriverwc.org

Project Contact Phone Number*

530-550-8760 *7

Organization Mission*

We bring the community “Together for the Truckee” to protect, enhance and restore the Truckee River watershed.

Project Information

Project Title*

Name of Project.

TRF #284 South Euer Valley Road Improvement Project

Amount Requested*

\$156,681.48

Project Start Date*

04/01/2024

Project End Date*

12/31/2024

This funding will be used to:*

Complete this sentence with a max of 2 sentences.

The goal of the South Euer Valley Road Improvement Project is to reduce the sedimentation within the South Fork of Prosser Creek, a key tributary of the Truckee River. Restoration actions implemented will include road and drainage improvements along South Euer Valley Road; specifically replacing failed culvert systems and installing rocked low-water crossings to reduce road capture, implementing rolling dips to improve drainage and incorporating willow wattles downstream of drainage crossings to ensure sediment capture.

This project is on:*

Check all that apply

Private land

Are government permits or decision documents needed for the project?*

Yes

If so, are those permits and decision documents already secured?

If permits and decision documents are needed but not yet secured, in #4 of the Narrative Requirements provide a list of permits and documents needed and a schedule for securing them.

No

Previous Funding from Truckee River Fund

Has your organization received other grants from the Truckee River Fund?*

Yes

If yes, please include the following information for all previously funded projects:

- *Date awarded*
- *Project # and Title*
- *Amount of award*

Please attach additional pages as needed to list ALL previously funded projects.

Date awarded: Spring 2023
Project title: Coldstream Canyon – Cold Creek Streambank Stabilization
Amount of Award:\$119,400

Date awarded: Fall 2022
Project title: Lower Hoke Meadow and State of Donner Lake
Amount of Award: \$206,000

Date awarded: Spring 2022
Project title: Donner Creek Confluence and Boca Unit Restoration
Amount of Award: \$55,700

Amount of Award: \$55,700
Date awarded: Fall 2021
Project title: Prosser Basin Sediment Reduction Plan

Amount of Award \$44,000
Date awarded: March 2021
Project title: Bear Creek Lower Meadow Restoration Project – Phase 2 Construction

Amount of Award \$51,250
Date awarded: September 2020
Project title: Restoration for Coldstream Canyon

Amount of Award \$86,500
Project title: McIver Dairy Meadow Restoration Project
Amount of Award \$161,000

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: March 2018
Project title: Truckee Meadows Restoration Project – Phase 2 Construction
Amount of Award: \$30,000

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

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

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.
- E. Other projects that meet the evaluation criteria.

- A.)
- B.)
- C.)

Narrative Requirements

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

All projects are required to have measurable outcomes.

The goal of the South Euer Valley Road Improvement Project is to reduce the sedimentation within the South Fork of Prosser Creek, a key tributary of the Truckee River. The project will enhance and protect over thirty (30) acres of riparian mountain meadow in Euer Valley (the headwaters of the South Fork of Prosser Creek) and will reduce suspended sediment loads in attainment of Truckee River Total Maximum Daily Load (TMDL). This will be accomplished through implementation of restoration actions along 1.5 miles of dirt road and associated stream crossings including installation of rolling dips and low-rocked water crossings and replacing failed culverted systems to reduce erosion and sediment transfer to Prosser Creek.

The Truckee River Total Maximum Daily Load (TMDL) identifies Prosser Creek as the third largest contributor of sediment during low flow conditions (371 Tons per Year) and the fourth highest contributor of sediment to the Truckee River in high flow conditions (1,276 Tons per year. This project will make significant gains in reducing the total sediment loading entering into Prosser Creek, and subsequently into the Truckee River.

Specific work components for the South Euer Valley Road Restoration Project will include:

- Installation of up to 15 rolling dips or low-rocked water crossings to reduce road capture and restore hydrologic connectivity.
- Regrading approximately 1,550' of roadway where rilling and/or gullying is present to reduce erosion.
- Removal of 4 failed, clogged or crushed culverts and replacing culverts with increased size and capacity to accommodate design flows.
- Installation of up to 20 willow fascines and/or log deterrents below stream/road intersections designed to filter and capture sediment prior to entering Prosser Creek.
- Decompacting soils and establishment of native vegetation along a 1.5 mile reach of degraded roadway to restore habitat and filter sediments.

In its entirety, this project consists of multiple components, including: a) building a boardwalk across wet meadow areas to reduce impact to headwater meadow systems; b) installing a bridge crossing over South Prosser Creek to alleviate current constriction and improve stream channel habitat; c) stream habitat restoration along a ½ mile reach of South Prosser Creek; and d) improving drainage and reducing erosion and sediment transfer along the 1.5 mile stretch of South Euer Valley Road. The request to the Truckee River Fund will fund improvements to the road, while matching grants will fund implementation of the remainder of the project components.

For the road improvement, rolling dips and rocked low water crossings are the treatments where perennial or ephemeral channels intersect with the road alignment. Additionally, in four locations there are existing

undersized and/or damaged culverts that will be replaced with appropriately sized and aligned pipe arch culverts. Actions will also include installation of willow fascines downstream of existing road/stream intersections to increase vegetation growth and density along the actual roadway. These will ensure filtration and settling of sediments prior to entering Prosser Creek.

Outcomes.

Project outcomes will include:

- Reduction of sediment loading to the South Fork of Prosser Creek and the Truckee River by an estimated 1.83 tons/year
- Elimination of erosion from approximately 8,000 linear feet of degraded dirt roads.
- Conversion of 1.5 miles of dirt road to a recreational trail that supports and sustains vegetation and filters sediments.
- Improved hydrologic function across 30 acres of high priority meadow floodplain in the headwaters of a tributary to the Truckee River.

TRWC and Tahoe Donner Association (landowner) will document completion of all construction milestones (e.g. mobilization, instream work, culvert removal, trail conversion), and will report project outcomes, successes and challenges in quarterly and final reports. Specific measurements of success criteria and project completion are further described in question 12 (Success Criteria) below.

2.) Describe the project location.*

Include site map and aerial photos if applicable/possible as an attachment.

The project is located in Euer Valley, just northwest of the Town of Truckee in eastern Nevada County and within the Prosser Creek sub-watershed. The project is being implemented in partnership between Truckee River Watershed Council (TRWC) and Tahoe Donner Association (TDA). The project site is owned and managed by the TDA, which includes over 680 acres in Euer Valley designated for conservation of open lands, recreational use, and access for the general public.

Comprised of a mixture of private and federal lands, the Prosser Creek watershed is a headwater catchment of the Truckee River Basin with elevations exceeding 9,000 feet. Much of the watershed is steep and comprised of first order streams that receive over 40 inches of annual precipitation (USGS, 2021). Headwater streams, beginning as spring seeps and first-order stream channels in a stream and river network, have an immediate and intimate connection with the terrestrial environment, forming an extensive terrestrial/aquatic mosaic. However, the very attributes of headwaters that make them critical to the health of stream networks also make them exceedingly vulnerable to degradation when landscapes are altered by roads, trails, and grades.

Please see attached site location and regional map documents for additional information.

3.) Project Description*

Euer Valley_Project Maps.pdf

The project is an implementation and restoration project that seeks to reduce excess sedimentation in the South Fork of Prosser Creek by addressing degradation caused by modern and historic road and trail systems that are identified as heavy sediment contributors to Prosser Creek and to the Truckee River.

The project will reduce the suspended sediment load to the Truckee River by 1.83 tons/year. This is calculated as a relative percentage of the annual suspended sediment load estimates for Prosser Creek per the

TMDL staff report (Amorfini & Holden 2008) and the size of the project site (30 acres) relative to the Prosser Creek sub basin (20,791 acres). The importance of this reduction is amplified by the “headwater” nature of the project site. Situated at the head of the 350-acre Euer Valley meadow complex, the degradation at the project site threatens to unravel functional portions of the system. Addressing this relatively acute site not only reduces the suspended sediment load to the Truckee River, but also protects against future increases.

The Prosser Creek Watershed has an extensive history of logging, which often required the construction of narrow-gauge railroads, skid trails, log landings, and logging roads installed without consideration of proper drainage or impacts to natural resources including receiving waterbodies.

Legacy land-uses and associated roads, such as those described above, are considered to be high sources of excess runoff and sediment that further degrades stream and riparian habitat and has long-term effects on water quality and on the management of water impoundments (ie Prosser Reservoir). South Euer Valley Road is one such road that exhibits road capture at multiple perennial and ephemeral stream crossings. Based on pre-project analysis, and discussions with TDA, a long-term solution is needed to be able to fully address stormwater runoff and sediment impacts.

The South Euer Valley Road Improvement Project was originally identified in Tahoe Donner Association’s Trails Master Plan (TDA 2013), a guiding document that identifies opportunities within TDA’s jurisdiction to enhance recreational user experience and improve environmental conditions. The Project was further analyzed and prioritized as a component of the Euer Valley Restoration Project (TRWC 2021) and in the Prosser Roads Assessment (TRWC 2022), with funding for the Assessment provided by the Truckee River Fund.

Through the Prosser Roads Assessment, a flow accumulation analysis was completed to identify potential areas of disturbance defined by road-related flow modifications or stream capture. As a result of this analysis, South Prosser Road was designated as impaired due to failure of drainage systems, road capture and impacts to water quality. The designation of impaired has the following definitions per the Prosser Roads Assessment: “road/trail/grade segments that are actively contributing excess runoff and sediment to active channels; requiring maintenance and drainage improvements or, if not in use, decommissioned. Culverts show complete failure, clogged with sediment, or severely undersized and express evidence of frequent backwatering and/or downstream scour”.

Per discussions with TDA, the project team intends to make the road passable for construction equipment and emergency vehicles but will maintain more natural conditions to allow for continued growth of native grasses and vegetation. In addition to significant improvements in drainage, the growth and establishment of vegetation will help to reduce erosion and sediment transfer and will restore functionality of the currently degraded road system. In order to implement the infrastructure and stream habitat improvements that are included as components of this project, the road will be made passable by the selected contractor for construction access and then the full suite of proposed road maintenance and improvements will be completed as the Contractor demobilizes from the site.

The South Euer Valley Road Improvement Project is planned for construction in 2024. However, contractor bids have come in above available funding. Significant funding for this project is already secured from the State of California and from TDA. Funding from the Truckee River Fund will close the funding gap and provide sediment reduction benefits to South Fork of Prosser Creek, a key tributary to the Truckee River.

4.) Grant priorities*

Explain how the proposed project advances the TRF’s specific grant priorities.

Watershed Improvements.

The project will decrease sedimentation and support attainment of the 303(d) listed TMDL pollutant to Truckee River. This project also enhances watershed function and habitat within the Middle Truckee watershed by significantly reducing erosion and sediment transfer from an active loading source to South Prosser Creek. Project components funded by other cost-share sources will help to stabilize eroding streambanks, improve aquatic habitat, enhance riparian vegetation and provide sustainable recreational use to reduce impacts on sensitive habitat areas. Prosser Creek is in the top three/four producers of excessive sedimentation (LRWQCB 2008).

Support to Rehabilitation of Local Tributary Creeks and Drainage Courses.

The project will restore a 1.5 mile stretch of degraded roadway with direct connectivity to a key tributary that is a known contributor of sediment to the Truckee River. At present, failed culverted systems, poor drainage and improperly constructed roadways result in continuous erosion and high transfer of sediment loads that lead to increases in turbidity and temperature and a decrease in dissolved oxygen. The improvements proposed through this project and increased vegetative cover and density will mitigate the continued degradation of water quality.

This project will improve watershed function and reduce sediment transfer to the Prosser Creek, as well as to the main stem of the Truckee River. Beneficial water quality improvements to Prosser Creek and to the main stem of the Truckee River will be realized through decreased erosion and a significant reduction in sediment transfer.

Re-Forestation and Re-Vegetation Projects

This project addresses and restores local resources and waterways that have been significantly impacted by historical logging operations. Legacy land-uses and improperly constructed road networks are considered to be high sources of excess runoff and sediment that further degrades stream and riparian habitat and has long-term effects on water quality and on the management of water impoundments, including Prosser Reservoir.

South Euer Valley Road is one such road that exhibits road capture at multiple perennial and ephemeral stream crossings. Restored hydrologic connectivity will reduce road capture and increase the amount of water that is available in stream channels and adjacent riparian/wetland habitat. This increased water availability will allow for greater retention later into the summer months and water will slowly be released in times it is needed most, particularly in the later summer and fall months and will help to increase late-season water supply in years where drought conditions are present.

Stewardship and Environmental Awareness

The project will include outreach to community members through newsletters, email updates and project site tours. Outreach will be designed to increase understanding and importance of stream and habitat restoration and improvements to water quality through reduction of sediments and other pollutants within the watershed. Specific tasks of the program include leading project site tours, producing interpretive signage, and publishing articles in our on-line and print newsletters. Volunteers will also support the project on TRWC's annual Truckee River Day.

5.) Permitting*

Provide a permitting schedule for your project along with your plan for getting the required permits and decision documents. Be sure to include the cost of permitting/decision documents as a line item in your budget.

As previously noted, the majority of environmental regulatory permits for this project have been obtained and authorized. TRWC staff is currently preparing and compiling necessary information to submit to Nevada County to obtain the grading permit for this project. The grading permit from Nevada County is anticipated to be authorized no later than May 1, 2024.

Environmental Permit	Status	Completion Date
CEQA – MND (Nevada County)	Complete	December 2022
Lahontan 401 Water Quality Certification	Complete	June 2023
U.S. Army Corps Nationwide 27	Complete	November 2023
California Department of Fish & Wildlife	Complete	May 2023
Nevada County Grading Permit	In Process	May 2024

6.) Future Land Use*

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

TDA owns and manages substantial open space areas including over 680 acres in the headwaters of Prosser Creek/Euer Valley. These areas are established for purposes of conservation and public recreational access. Improvement made to the project site will be managed and maintained in accordance with the standards established by TDA. TRWC will work closely with consultant team members and TDA representatives to support the continued visual assessment monitoring including photo-documentation, infrastructure stability and vegetative cover/vigor for a minimum of three years following project completion. There are no foreseeable zoning, land use, or development plans that may affect the proposed project.

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

Future phases of the project will include post-project monitoring, revegetation and determination of the necessity of implementing any adaptive management actions. Funding is provided by the State of California and by Tahoe Donner Association to complete all necessary actions and future phases of project implementation.

8.) Identify the principals involved in leading or coordinating the project or activity.*

Eben Swain, Project Director with TRWC, will be the lead staff person from TRWC and will handle all project management and grant administration tasks for this grant agreement. Lisa Wallace, Executive Director, will provide additional support and oversight as needed.

The project will be implemented in partnership by TRWC and TDA. TRWC has completed more than 20 projects of similar scale and scope in the past fifteen years, including multiple projects with Tahoe Donner. Staff at both organizations have implemented dozens of large-scale restoration and trail projects. TRWC will provide direct project management, grant reporting, contracting, environmental permitting, construction management, and monitoring. Tahoe Donner will participate in design review, construction oversight, public communication, and outreach.

Staff members from Wildscape Engineering, Western Botanical Services and Linchpin Structural Engineering will assist in providing construction oversight, project inspections and coordination with selected contractor team. These consulting firms have completed all field/topographic surveys, hydraulic modeling and structural engineering design recommendations for the project resulting in a comprehensive set of project design plan documents and technical specifications that will guide implementation and construction of all project components, including the road improvements proposed in this funding application. Design documents and technical specifications are available upon request. This highly qualified team provides

invaluable experience in ensuring project implementation follows established design criteria by providing quality project and contractor oversight.

Implementation contractors will be required to hold a State of California Class A General Engineering contractor’s license and Class C-27 landscaping contractor’s license. They must also have experience with multiple projects in montane (>4,000’ elevation) meadow, floodplain, and riparian restoration. Project experience must include road maintenance & drainage improvements, revegetation and bridge, culvert, and trail construction. TRWC is currently in negotiations with a contractor team who will implement all planned infrastructure, restoration, and road improvement components for this project. We anticipate finalizing a contract for this project in early Spring, 2024

9.) Number of staff positions involved in project.*

Identify how many staff will be full-time and how many will be 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.

Part-time) Eben Swain (TRWC), Lisa Wallace (TRWC) and Beth Christman (TRWC) will dedicate a portion of their time to this project. Consultant and contractor staff will also dedicate a portion of their time to this project.

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

Volunteers will assist with revegetation of the project site. Specific tasks will include willow staking, re-seeding and mulching. 20 volunteers will contribute a total of 90 hours.

11.) Timeline 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.

***Note: Funding will not be provided for work performed prior to grant approval.*

Task	Start Date	Completion Date
Contract Award for Project Implementation	March 2024	March 2024
Nevada County Grading Permit	March 2024	May 2024
Project Implementation	July 2024	October 2024
Project Management and Reporting	March 2024	December 2024

12.) What factors will indicate a successful project?*

The following factors will be measured to ensure project success:

Completion of project restoration actions. TRWC and TDA will track and document the completion of construction milestones (e.g. mobilization, instream work, culvert removal, trail conversion). Implementation of construction components will adhere to the guiding project design plan set and will result in the installation of up to 15 rolling dips or low-rocked water crossings, regrading of approximately 1,550’ of

roadway, removal and replacement of 4 failed culverted crossings, installation of up to 20 willow fascines and decompaction of soils along 1.5 miles of degraded dirt road.

The actions noted above are designed to significantly reduce erosion and the transfer of sediments to Prosser Creek and to the Truckee River and will help to attain a reduction in sediment loading in support of the Truckee River Total Maximum Daily Load.

Completion of post-project monitoring. Post-construction monitoring will be completed for a 3-year timeframe following project implementation and will include analysis of pre- and post-project data, and compilation of a monitoring report. Data collected will include documentation of improved hydrologic connectivity, sediment filtration/collection and vegetation data. Post-project monitoring will be utilized to help quantify improvements in connectivity, sediment load reduction and vegetation community metrics.

Engagement of project stakeholders and community members. TRWC and TDA will incorporate a variety of outreach methods designed to facilitate increased understanding and importance of stream and habitat restoration and improvements to water quality. These methods will include, but are not limited to project site tours, highlighting the project in newsletters and on-line media, stakeholder meetings and volunteer opportunities. Success will be determined by the number of participants, sign-up sheets and overall interest in the project.

13.) Collaboration*

List partnerships or collaborations with other entities in relation to your proposal, if any. Grantees are encouraged to seek other funds prior to requesting money from the Truckee River Fund. Please explain what other funding opportunities were sought and if any other funds have been awarded.

The primary stakeholder for this project is TDA, who owns the project area and the majority of Euer Valley. We will work closely with TDA to provide construction oversight and project management and to implement the project and monitor and report on project results. Tahoe Donner's participation will be especially critical for outreach and communication efforts and for construction oversight. Additional stakeholders within the project area include 7C Ranch who owns and maintains the property upstream of the project area and the recreational users of the TDA trail systems (summer and winter).

TRWC and TDA will work closely to provide technical oversight, project management, and decision making throughout the length of the project. Additional coordination for environmental permitting and compliance will occur with the Lahontan Regional Water Board, State Water Resources Control Board, California Department of Fish and Wildlife, Army Corps of Engineers, and Nevada County. Agency and stakeholder feedback has been incorporated into project design and long-term management plans where appropriate.

Adherence to the project goals and objectives for water quality will remain paramount in all decisions. However, without stakeholder support, those projective objectives have a lower likelihood of success. As such, TRWC and TDA will make decisions related to project implementation through a vetted process and will consider the goals of the project and stakeholder input, as well as both short and long-term success of the project when making decisions.

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.

For grant requests for projects downstream of the Vista USGS gage, the 25 percent match requirement must be met using **cash match**.

Total grant match to be provided.*

\$77,250.00

Cash

\$75,000.00

For the cash portion, is the funding already being held by the applicant for this project?

Yes

In-kind

***Note: Provide an itemized breakdown of volunteer match in your budget with rationale.*

\$2,250.00

Description of matching funds/in-kind donations.*

As noted in question #1, this project consists of multiple components, including boardwalk and bridge construction, stream habitat restoration and road/drainage improvements. The funding request to the Truckee River Fund will support improvements made to the roadway, while cost share funding will support implementation of the remainder of the project components. Matching funding that is specifically related to the request to Truckee River Fund totals \$77,250, or roughly 49%. This cost share is well above the 25% match amount required by Truckee River Fund, but the money is secured and will be accounted for accordingly.

Volunteers will assist with revegetation of project site and will assist with additional stabilization of restored roadway and associated drainage connections. Volunteer participation will be through TRWC's annual Truckee River Day, when we have approximately 300 persons assisting in a variety of tasks related to our many restoration projects – in 2024, TRWC anticipates that the South Euer Valley Road Improvement Project will be one of the chosen project sites for volunteer participation. Anticipated tasks will include willow staking, re-seeding and mulching. 20 volunteers will contribute a total of 90 hours.

Additional project implementation components include bridge/boardwalk installation and stream channel restoration. Monies secured from these components is provided by the State of California and by Tahoe Donner Association totaling \$2,074,357. No TRF funds are requested for these project components. TRF funding will supplement funds provided by Tahoe Donner Association, and if received, will complete restoration actions along South Euer Valley Road to reduce erosion and sediment transfer.

Attachments

Nonprofits must 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

****Please submit as one PDF document**

Financial Statements, 501(c) and TRWC Board of Directors_Submit_.pdf

Governmental entities must submit:

- Departmental budget in lieu of audited financial statements

Project Budget*

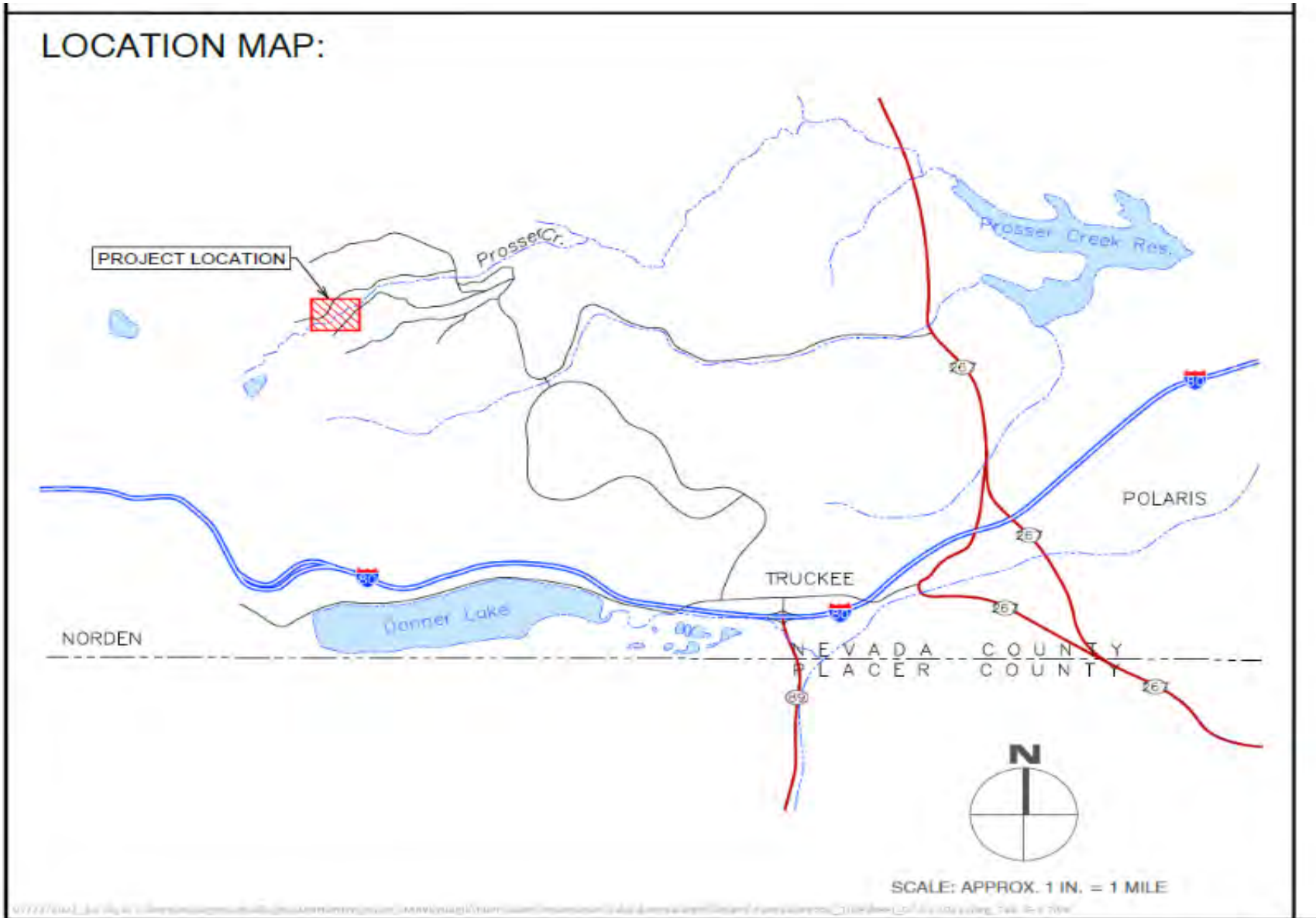
*Provide detail on each line-item expenditures and show which funds are committed and which have been requested to be paid for by the Truckee River Fund grant, and which will be paid for with in-kind services. Other sources of funding should be provided. Explain status of other funding if not in hand. If project is to be implemented in phases, please separate budget into each phase. **Please contact Lauren Renda at Irenda@nevadafund.org for a sample budget template.***

****Notes:**

- *Indirect/overhead expenses cannot exceed 25 percent; TRF may fund indirect/overhead up to 25% based on availability of funds.*
- *Applicants should be prepared to provide reduced budgets during the review of applications by the TRF Advisory Committee when funds are limited.*
- *Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.*

TRWC_TRF_South Euer Valley Road Improvement Project_Budget.pdf

TRF Spring 2024 Funding Opportunity
Project Location/Regional Map
TRWC – South Euer Valley Road Improvement Project



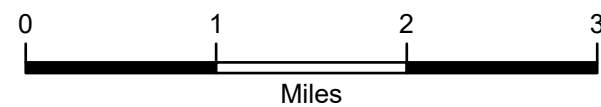
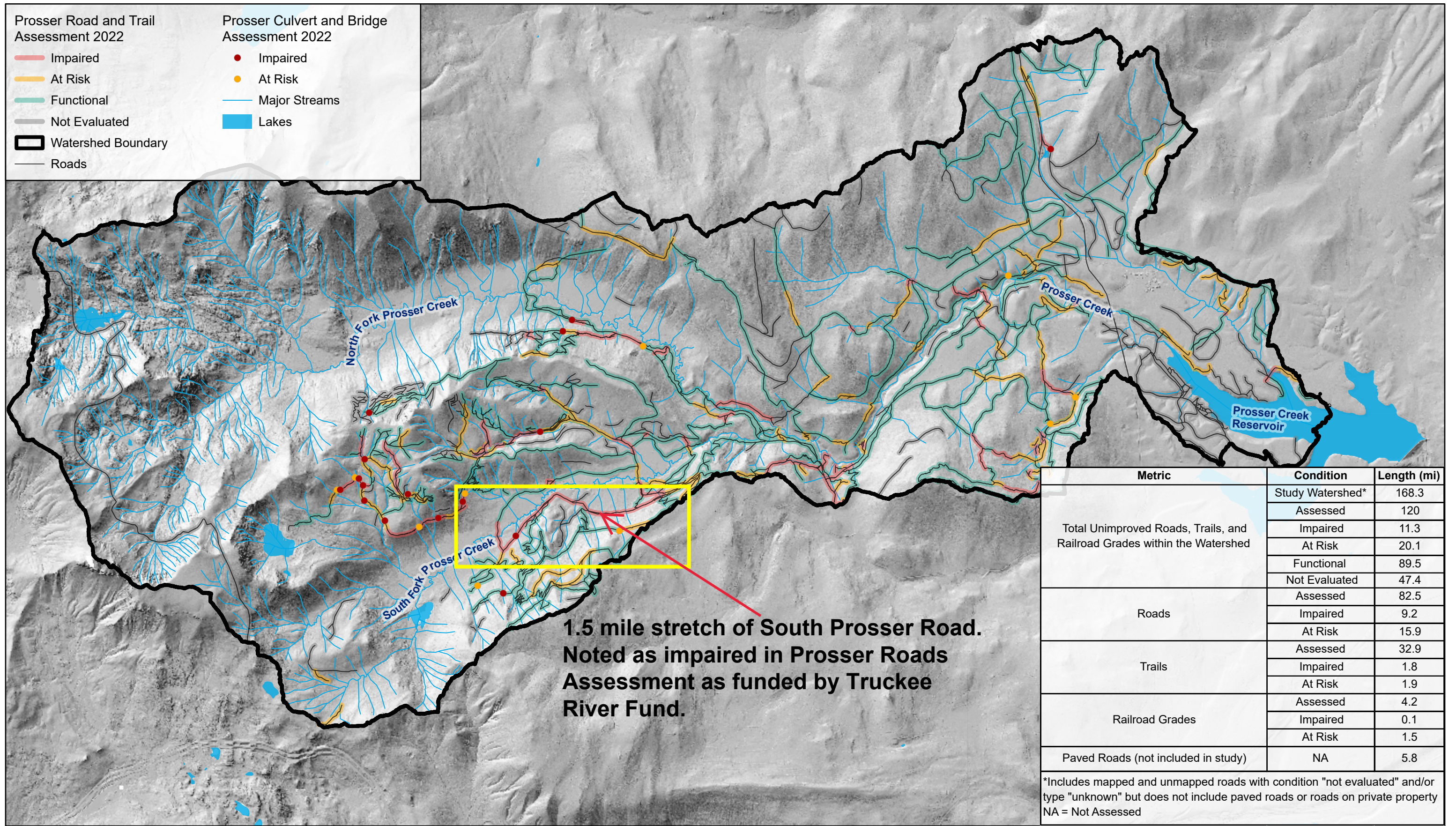


Figure 2. Roads, Trails, and Railroad Grade Conditions Prosser Creek Watershed, Above Prosser Creek Reservoir Nevada County, CA

TRWC #284 South Euer Valley Road Improvement Project Final Budget

Budget Item Description	\$/unit	Quantity	Quantity Type	TRF Funding	Other Funders	Match/20%	Total Cost
Personnel							
Project Management	\$77.00	80	Hours	\$6,125.97			\$6,125.97
Volunteers	\$25.00	90	Hours		In-Kind Cost Share	\$2,250.00	\$2,250.00
Operating Costs							\$0.00
Environmental / Permitting	\$1,200	1	Lump Sum	\$1,200.00			\$1,200.00
Mileage	\$0.655	160	Per Mile	\$104.80			\$104.80
Project Implementation							\$0.00
Project Supplies (seed, soil, etc)	\$3,200	1	Lump Sum	\$3,200.00			\$3,200.00
Construction Contract	\$213,000	1	Lump Sum	\$138,000.00	Tahoe Donner Association	\$75,000.00	\$213,000.00
Total Direct Costs				\$148,630.77		\$77,250.00	\$225,880.77
Indirect Costs/Overhead (≤25% of budget)				\$2,450.71			\$2,450.71
Total Project Costs				\$151,081.48		\$77,250.00	\$228,331.48

**Note: The match funding described in the budget table is related to implementation of restoration actions for South Euer Valley Road only. As noted in the TRF grant application, the project team has secured over \$2 million that is allocated for the remainder of connected project components, including bridge and boardwalk construction and stream habitat restoration.

TRF #285 Watershed Education Initiative

Truckee River Fund- Spring 2024

Sierra Nevada Journeys

Audrey Bergmann
190 E. Liberty St.
Reno, NV 89501

O: 775-355-1688

Audrey Bergmann

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190 E. Liberty St.
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O: 775-355-1688

Application Form

Truckee River Fund Grant Priorities

Truckee Meadows Water Authority (TMWA) recommends that the Truckee River Fund (TRF) Advisory Committee (the “Committee”) give preference to well-supported, clearly drafted grant requests that consider substantial benefits to TMWA customers for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby water treatment and hydroelectric plant intakes.

- **Aquatic Invasive Species (AIS):** Projects/Programs that support the prevention or control of aquatic invasive species in the mainstem Truckee River, Lake Tahoe, other tributaries and water bodies in the Truckee River system.
- **Watershed Improvements:** Projects that reduce erosion or sediment, suspended solids, or total dissolve solids (TDS) discharges, nutrients, industrial contaminants, or bacterial pollutants to the River. Projects or programs that are located within 303d (impaired waters) and total maximum daily load (TMDL) sections of the River should be considered, both in California and Nevada. Innovative techniques should be encouraged. The following link identifies impaired sections of the river and its tributaries: <https://mywaterway.epa.gov/>.
- **Local Stormwater Improvements:** Projects that demonstrably 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.
- **Re-Forestation and Re-Vegetation Projects:** Projects to restore forest and upland areas damaged by fire and historical logging operations, and to improve watershed 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.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** Projects to support water quality improvement in creeks and tributaries to the Truckee River.
- **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 that do not fall clearly into the one of the above-mentioned categories.

Notes:

- For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Northern Nevada for additional criteria at lrenda@nevadafund.org.
- For proposals in the Lake Tahoe Basin, the Truckee River Fund (TRF) typically only funds proposals related to Priority I and VI.

Grantee Requirements

GRANTEE REQUIREMENTS

To be eligible for funding, grantees must adhere to the following requirements:

- Funds are to be used and/or disbursed exclusively for the charitable uses and purposes.

- The Fund shall be used exclusively for projects that protect and enhance water quality or water resources of the Truckee River, or its watershed.
- Grantees may include 501(c)(3) organizations and governmental entities. Any grants to governmental entities must be made exclusively for public benefit purposes.
- All grantees will be required to sign a grant agreement stipulating their agreement to all applicable terms, conditions, and reporting requirements.
- Organizations or entities sponsoring proposals are prohibited from ex parte communications with members of the Committee regarding such proposals while those proposals are pending before the Committee, and such communications may be grounds for rejecting a proposal.
- 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.

TRUCKEE MEADOWS WATER AUTHORITY BOARD OF DIRECTOR'S DISCRETION

For each proposal submitted and recommended by the Committee the TMWA Board of Directors has absolute discretion to:

- Accept or reject any proposal;
- Accept a proposal on the condition that certain modifications be made;
- Assess proposals as they see fit, without in any way being obligated to select any proposal;
- Determine whether proposals satisfactorily meet the evaluation criteria set out in this RFP;
- Reject proposals with or without cause, whether based on the evaluation criteria set out above or otherwise.

PERFORMANCE GUIDELINES

To maintain eligibility to receive grant funds, each Charitable Beneficiary must comply at all times with the following requirements:

- Must be exempt from federal income taxation under Section 501(c)(3) of the Code;
- Shall use all Fund distributions toward projects that are appropriate and legal public expenditures;
- Must provide financial details and/or reports of their organizations upon request;
- Must submit quarterly reports.
- Must not use any Fund distributions for political contributions or political advocacy;
- Must either implement the projects, activities, and/or programs for which they received Fund distributions within six months of the date in which such distributions are received or by date(s) as agreed upon in the grant acceptance agreement, or must return all such distributions to the Community Foundation of Northern Nevada forthwith;
- Must provide the Community Foundation of Northern Nevada a report detailing the completion of their projects, activities, and/or programs; and
- Must sign an agreement regarding their compliance with the qualifications hereof.

Project Evaluation Criteria

EVALUATION CRITERIA

Applications are evaluated according to the following criteria and in order of priority. If the grant applicant does not meet the “Grantee Requirements”, the application will not be considered.

1. RELEVANCE OF PROPOSAL TO THE TRF PROGRAM

- Address TRF grant priorities – Does the project address at least one of the TRF grant priorities, as described at the beginning of the RFP?
- Meet multiple objectives – Does the project meet multiple grant priorities?
- Public benefit of the project – Does the project help TMWA protect its sources of drinking water?
- Benefit to TMWA customers – Is there a direct benefit to TMWA customers?
- Project location – Is the project located upstream of one of TMWA’s water treatment plants?

2. QUALITY OF PROJECT DESIGN

- Appropriateness of selected project methods – Do the proposed project strategies make sense to address the watershed and/or water quality concern(s) outlined by the applicant?
- Thoroughness of project design – Is the project design adequately detailed to ensure the desired outcome(s)?
- Sustainability of project – Will the benefits of the project continue after the grant funds are expended?
- Project longevity – If ongoing operation & maintenance (O&M) is required to maintain benefits, is it funded?
- Consideration of existing research – Does the project consider existing research, planning efforts, or assessments related to the Truckee River watershed?

3. MEASURABILITY OF PROJECT SUCCESS

- Identification of project benchmarks or milestones – Has the applicant described the steps necessary to complete the project?
- Demonstrated ability to measure the results of the project – Does the project have adequate measurable outcomes to evaluate project success?
- Benefits expected from a successful project – Are there clear goals that will be obtained on project completion?
- Readiness to begin project – Is the grant applicant ready to undertake and complete the project?

4. EFFECTIVENESS OF ORGANIZATION

- Qualifications of applicant for the proposed project – Does the applicant have adequate experience and credentials to perform the work described in the application?
- Collaborative efforts – Are there partner organizations supporting or benefiting from the project?
- Demonstrated ability of applicant to manage and complete the project – Has the applicant successfully completed projects similar to the one proposed? If previously funded by TRF, has the applicant met performance requirements and completed projects successfully?

5. ADEQUACY OF PROPOSED BUDGET

- Availability and status of matching funds – Does the project provide a minimum of 25 percent match in cash and/or in-kind services? If the project is downstream of the USGS Vista gage, is the 25 percent match requirement met using cash match?
- Total project cost relative to benefits – Is the project cost reasonable given the expected project outcome(s)?
- Appropriateness of budget – Are the costs presented in the budget adequately detailed and do they seem reasonable? Is the project under the 25 percent indirect/overhead expense limit?

Organization Information

Organization Name*

Sierra Nevada Journeys

Organization Type*

501(c)(3) Nonprofit

EIN

If the organization is a 501c3, please include the EIN#.

01-0881587

Director of Organization*

Sean Hill

Project Contact Name*

Audrey Bergmann

Project Contact Postion/Title*

Advancement Manager

Project Contact Email*

audreyb@sierranevadajourneys.org

Project Contact Phone Number*

925 858 7105

Organization Mission*

Our mission is to deliver innovative outdoor, science-based education programs for youth to develop critical thinking skills and to inspire natural resource stewardship.

Project Information

Project Title*

Name of Project.

TRF #285 Watershed Education Initiative

Amount Requested*

\$35,933.00

Project Start Date*

03/01/2024

Project End Date*

06/07/2024

This funding will be used to:*

Complete this sentence with a max of 2 sentences.

With our Classrooms Unleashed program, we will provide 700 students in the Reno area with watershed education. This will include two classroom lessons, one field day at a site with access to the local watershed, and additional teacher resources and extension lessons.

This project is on:*

Check all that apply

Public land

Are government permits or decision documents needed for the project?*

No

If so, are those permits and decision documents already secured?

If permits and decision documents are needed but not yet secured, in #4 of the Narrative Requirements provide a list of permits and documents needed and a schedule for securing them.

Previous Funding from Truckee River Fund

Has your organization received other grants from the Truckee River Fund?*

Yes

If yes, please include the following information for all previously funded projects:

- *Date awarded*
- *Project # and Title*
- *Amount of award*

Please attach additional pages as needed to list ALL previously funded projects.

09/20/2023, TRF #280 Watershed Education Initiative, \$35,933

03/22/2023, TRF #271 Watershed Education Initiative, \$32,891

09/26/2022, TRF #267 Watershed Education Initiative for the Urban Truckee River Corridor, \$30,542

03/22/2022, TRF #258 Watershed Education Initiative, \$30,055

09/16/2021, TRF #251 Watershed Education Initiative, \$30,055

03/17/2021, TRF #245 Watershed Education Initiative for the Urban Truckee River Corridor, \$31,035

09/18/2020, TRF #236 Watershed Education Initiative for the Urban Truckee River Corridor, \$32,041

04/13/2020, TRF #230 Watershed Education Initiative for the Urban Truckee River Corridor, \$30,912

10/02/2019, TRF #223 Watershed Education Initiative, \$37,200

03/26/2019, TRF #214 Watershed Education Initiative, \$36,207

10/04/2018, TRF #205 Watershed Education Initiative, \$36,207

03/30/2018, TRF #195 Watershed Education Initiative, \$46,376

10/03/2017, TRF #190 Watershed Education Initiative, \$35,065

03/16/2017, TRF #184 Watershed Education Initiative, \$32,998

09/23/2016, TRF #179 Watershed Education Initiative, \$28,446

04/19/2016, TRF #167 Watershed Education Initiative, \$33,041

10/22/2015, TRF #158 Watershed Education Initiative, \$28,484

09/05/2014, TRF #145 Watershed Education Initiative, \$23,900

03/21/2014, TRF #140 Sierra Nevada Journeys' Watershed Education Initiative, \$23,750

Fall 2013, TRF #??? Sierra Nevada Journeys' Watershed Education Initiative, \$24,200

Spring 2013, TRF#??? Sierra Nevada Journeys' Watershed Education Initiative, \$16,050

* It is possible that this list is incomplete. I have answered this question to the best of my ability based on our Development team's records.

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.
- E. Other projects that meet the evaluation criteria.

E.)

Narrative Requirements

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

All projects are required to have measurable outcomes.

Sierra Nevada Journeys (SNJ) proposes an innovative, culturally relevant program for Washoe County area youth, including a comprehensive approach to watershed education through the Watershed Education Initiative (WEI). Thanks to the generous and ongoing support of the Truckee River Fund, the WEI has been a component of our programming since 2011.

Through WEI, students can touch, feel, and experience their watershed, providing a foundation of interest and understanding as they continue their education and their lives. WEI will successfully meet the following objectives:

Outputs:

- Deliver WEI to 700 K-8th grade students within the Truckee River Watershed
- 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.
- Provide 26 teachers with WEI extension lessons

Outcomes:

- 100% of students participating in "Hands in the River" will be able to draw and describe the Truckee River Watershed
- 100% of students participating in the "Hands in the River" curriculum will complete water quality testing at/on the Truckee River to assess the health of their local watershed
- 90% of students participating in "Hands in the River" will be able to identify the function of storm drains and name three ways they can help reduce the amount of pollution entering the storm drain.
- 80% of students participating in "Hands in the River" will feel comfortable in nature following their field study.
- 95% of teachers will report that the program is helping to build critical thinking skills among their students.

Methods to measure outcomes: To accurately measure program success and content proficiency, Sierra Nevada Journeys' instructors administer pre- and post-assessments to all students. This method of measurement models end-of-year state testing for schools, which is used to measure national expectations for learning. In addition to student pre- and post-assessments, classroom teachers are given surveys.

Methods to measure outputs: The Sierra Nevada Journeys' Education Team manages an internal database that tracks details on participating students, schools, parents, and volunteers.

2.) Describe the project location.*

Include site map and aerial photos if applicable/possible as an attachment.

The classroom component of WEI will take place at schools within the Washoe County School District. The program's field sites are located within and downstream of the urban corridor of the Truckee River, such as Oxbow Nature Study Area, Galena Creek Regional Park, and the McCarran Ranch Preserve. Field site locations are convenient and close to home for local students, increasing their sense of ownership, place, awareness, and comfort in these natural areas. The program highlights regions along the Truckee River impacted by urban growth and development.

3.) Project Description*

SiteMaps.sm.pdf

Sierra Nevada Journeys' Watershed Education Initiative is a dynamic education program intentionally designed to build an understanding of student's local watershed, including human impacts on the watershed, water quality, and issues surrounding watershed protection. The program occurs over several sessions. After a brief orientation, our educators go into classrooms and teach two lessons. Each lesson fosters students' interest in science by using hands-on activities like creating a watershed model.

The program culminates with a 3-hour field study at a local nature site, where students apply what they've learned in a real-world context. Field sites for the Watershed Education Initiative include Oxbow Nature Study Area, Galena Creek Regional Park, and the Nature Conservancy's McCarran Ranch Preserve. Students explore, assess, and collect data about the health of the Truckee River Watershed by observing the river, collecting macroinvertebrate species for study, and discussing how we can use the data to make a decision on overall river health. The program also embeds opportunities to build critical thinking skills and social-emotional learning.

While in-class and field-based lessons reach students, WEI's additional outreach components support teachers, engage families, and reach community volunteers. Through extension lessons, Sierra Nevada Journeys supports teachers in getting their students back on track after distance learning and extending watershed learning beyond the Sierra Nevada Journeys-led learning experiences. Classroom teachers receive additional materials covering watershed exploration, and our instructors work one-on-one with classroom teachers during orientation to identify strategies that deepen student learning. We also engage families through a follow-up email that includes questions for guardians to discuss with their students, a link to photos from their field day, and information about the field site so they can visit together. We also engage parents as chaperones during our field trips to support student learning and bolster family engagement and excitement about learning objectives.

Sierra Nevada Journeys believes that science and nature are for everyone. We prioritize partnerships with schools primarily serving youth who have historically been denied access to high-quality science education and outdoor learning experiences. With this funding, Sierra Nevada Journeys will serve 700 students in approximately 26 classrooms in the Truckee River Watershed. Students served with this grant will be those who have the highest financial and learning needs, ensuring we address the science and outdoor equity gap.

In Summary, the Watershed Education Initiative includes:

- The school-based component includes two in-class lessons (three) hours of in-class instruction. Students participate in hands-on lessons incorporating the Truckee River watershed, point and non-point source pollution, invasive species, sources and impacts of erosion, water conservation, and stewardship.
- The field-based component includes one day of outdoor science education as students hike along the Truckee River Watershed. Students seek clues about 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 draw conclusions 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.
- 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
- 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.

4.) Grant priorities*

Explain how the proposed project advances the TRF's specific 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: Stewardship and Environmental Awareness. Students gain first-hand experience determining water quality, exploring human impacts on their water source, and obtaining skills, knowledge and field experience to connect them to their local river. The overall long-term program impacts include:

- Students understand essential 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 volunteers.
- 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*

Provide a permitting schedule for your project along with your plan for getting the required permits and decision documents. Be sure to include the cost of permitting/decision documents as a line item in your budget.

N/A

6.) Future Land Use*

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

N/A

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

N/A

8.) Identify the principals involved in leading or coordinating the project or activity.*

Credentialed science educators on the SNJ staff will be directly responsible for the coordination and delivery of watershed education programs. Olive Schillo, Program Director, is a former Montessori preschool director with a Bachelor of Science in Parks, Recreation and Tourism with a concentration in Adventure and Outdoor programs from the University of Salt Lake City, UT.

9.) Number of staff positions involved in project.*

Identify how many staff will be full-time and how many will be 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.

4 full-time, 6 part-time

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

Approximately 50 volunteers (including parent volunteers), and an estimated 250 hours of volunteer time.

11.) Timeline 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.

***Note: Funding will not be provided for work performed prior to grant approval.*

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 700 students through school-based and field-based programs beginning in late January and running through mid-June.

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. Evaluations will begin in late June and data will be compiled over the summer.

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. It will be drafted in June 2024 and ready to submit by the deadline.

12.) What factors will indicate a successful project?*

Success will be found through the delivery of the Watershed Education Initiative to 700 students in grades K-8th. All students receive first-hand experience with the local watershed through a field study on the Truckee River or one of its tributaries. Provide 26 teachers with WEI extension lessons. Through the Watershed Education Initiative, students will:

- Be able to draw and describe the Truckee River Watershed;
- Complete water quality testing at/on the Truckee River to assess the health of their local watershed;
- Be able to identify the function of storm drains and name three ways they can help reduce the amount of pollution entering the storm drain;
- Feel more comfortable in nature following their field study; and
- Report that the program is helping to build critical thinking skills among their students.

13.) Collaboration*

List partnerships or collaborations with other entities in relation to your proposal, if any. Grantees are encouraged to seek other funds prior to requesting money from the Truckee River Fund. Please explain what other funding opportunities were sought and if any other funds have been awarded.

We routinely share ideas and partner with organizations for curriculum and program development. We collaborate with Better Environmental Education, Teaching, Learning & Expertise Sharing (BEETLES) methodology through the Lawrence Hall of Science at UC Berkeley, for training in outdoor science education best practices. We also partner with Project Learning Tree, Project WET, NatureBridge, and the Mountain

Maidu Tribe for curriculum and program development, and we collaboratively share ideas with the Desert Research Institute, and the University of Nevada, Nevada Teach program.

Additionally, several other partner agencies make our field experiences possible like The Nature Conservancy, Washoe County Regional Parks and Open Space, the City of Reno, and the Nevada Department of Wildlife

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.

For grant requests for projects downstream of the Vista USGS gage, the 25 percent match requirement must be met using **cash match**.

Total grant match to be provided.*

\$11,978.00

Cash

\$11,978.00

For the cash portion, is the funding already being held by the applicant for this project?

Yes

In-kind

***Note: Provide an itemized breakdown of volunteer match in your budget with rationale.*

Description of matching funds/in-kind donations.*

\$11,978 from the Nevada Division of Environmental Protection

Attachments

Nonprofits must 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

****Please submit as one PDF document**

SNJ Spring 2024 Combined Attachments.pdf

Governmental entities must submit:

- Departmental budget in lieu of audited financial statements

Project Budget*

*Provide detail on each line-item expenditures and show which funds are committed and which have been requested to be paid for by the Truckee River Fund grant, and which will be paid for with in-kind services. Other sources of funding should be provided. Explain status of other funding if not in hand. If project is to be implemented in phases, please separate budget into each phase. **Please contact Lauren Renda at lrenda@nevadafund.org for a sample budget template.***

****Notes:**

- *Indirect/overhead expenses cannot exceed 25 percent; TRF may fund indirect/overhead up to 25% based on availability of funds.*
- *Applicants should be prepared to provide reduced budgets during the review of applications by the TRF Advisory Committee when funds are limited.*
- *Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.*

TRF Program Budget.pdf

Directions to the Site: Oxbow Nature Study

Habits and Habitats Field Site Oxbow Nature Study Area



Oxbow Nature Study Area is located at the west end of 2nd street.

Take I80 West to the Keystone Exit.

Turn left onto Keystone and continue down the road until you reach 2nd Street.

Turn right on second. Continue until the road ends (turns into Davidson Road). You will end at the site. Please pull in straight to the bus unloading zone (the Yurt is on your right)

If you have trouble finding the location please contact the SNJ Office:

(775) 355-1688

Please make sure all students have:

- Science Notebook
- Pencils (x2)
- Lunch
- Water
- Appropriate clothing (shoes for hiking, warm layers, etc.)
- **All items in a backpack.**

Please make sure to bring

- Lunch & water
- Appropriate clothing (shoes for hiking, warm layers, etc.)
- Waivers for SNJ
- Grouping Forms
- Any medication, inhalers, or epi-pens for students



Galena Creek Regional Park



Imagery ©2024 Airbus, Maxar Technologies, U.S. Geological Survey, USDA/FPAC/GEO, Map data ©2024 200 ft



Galena Creek Regional Park

4.8 ★★★★★ (269)

Park

Overview

Reviews

About



Directions



Save



Nearby



Send to phone



Share

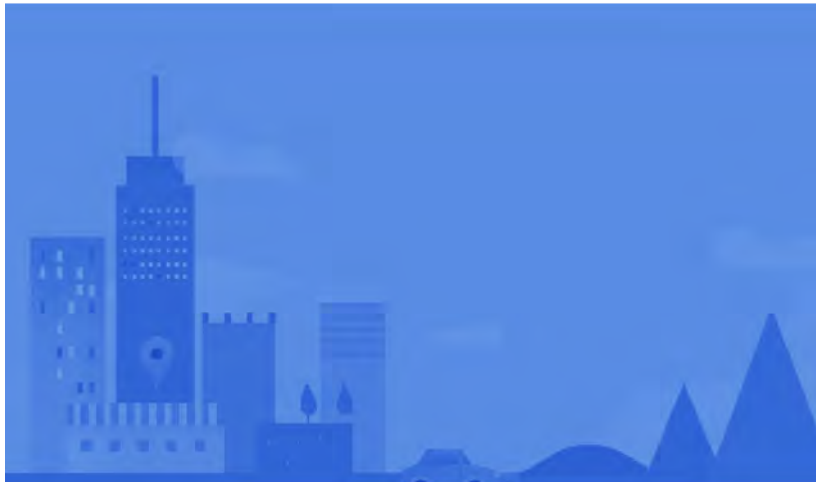


39°32'51.9"N 119°34'43.2"W

McCarran Ranch Nature Preserve



Imagery ©2024 Maxar Technologies, U.S. Geological Survey, USDA/FPAC/GEO, Map data ©2024 200 ft



39°32'51.9"N 119°34'43.2"W

39.547736, -119.578672



Directions



Save



Nearby



Send to phone



Share



McCarran Ranch Rd, Sparks, NV 89434

Program Budget for Classrooms Unleashed – Watershed Education Initiative

Item	Description	Per Student Expense	Total Expense	SNJ Match 25%	Total Request
Compensation & Related Expenses	Includes Education Personnel like Instructors, Program Directors and Coordinators	\$53.74	\$37,618	\$9,405	\$28,214
Program Costs	Direct program expenses, such as: magnifying glasses, water containers, field day health supplies, printing and paper, uniforms, etc.	\$6.28	\$4,396	\$1,099	\$3,297
Outside Contract Services	External evaluation services, DEI consultant, etc.	\$1.80	\$1,260	\$315	\$945
Occupancy Expenses	Rent and utilities	\$2.73	\$1,911	\$478	\$1,433
Operating Expenses	Such as office supplies, postage/shipping, telephone, internet, equipment rental and maint., licenses and membership dues	\$3.15	\$2,205	\$551	\$1,654
Other Misc Expenses	Staff recruitment, advertising/marketing expense, banking fees, merchant proc. fees	\$0.74	\$518	\$129.50	\$389
Total Expenses		\$68.44	\$47,945	\$11,978	\$35,933

TRF #286 TRTA Trailhead Ambassador Support to Protect Tahoe's Watershed

Truckee River Fund- Spring 2024

Tahoe Rim Trail Association

Brooke Clayton
PO Box 3267
Stateline, NV 89449

O: 775-298-4485

Brooke Clayton

PO Box 3267
Stateline, NV 89449

info@tahoerimtrail.org
O: 775-258-2361

Application Form

Truckee River Fund Grant Priorities

Truckee Meadows Water Authority (TMWA) recommends that the Truckee River Fund (TRF) Advisory Committee (the "Committee") give preference to well-supported, clearly drafted grant requests that consider substantial benefits to TMWA customers for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby water treatment and hydroelectric plant intakes.

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- Must be exempt from federal income taxation under Section 501(c)(3) of the Code;
- Shall use all Fund distributions toward projects that are appropriate and legal public expenditures;
- Must provide financial details and/or reports of their organizations upon request;
- Must submit quarterly reports.
- Must not use any Fund distributions for political contributions or political advocacy;
- Must either implement the projects, activities, and/or programs for which they received Fund distributions within six months of the date in which such distributions are received or by date(s) as agreed upon in the grant acceptance agreement, or must return all such distributions to the Community Foundation of Northern Nevada forthwith;
- Must provide the Community Foundation of Northern Nevada a report detailing the completion of their projects, activities, and/or programs; and
- Must sign an agreement regarding their compliance with the qualifications hereof.

Project Evaluation Criteria

EVALUATION CRITERIA

Applications are evaluated according to the following criteria and in order of priority. If the grant applicant does not meet the “Grantee Requirements”, the application will not be considered.

1. RELEVANCE OF PROPOSAL TO THE TRF PROGRAM

- Address TRF grant priorities – Does the project address at least one of the TRF grant priorities, as described at the beginning of the RFP?
- Meet multiple objectives – Does the project meet multiple grant priorities?
- Public benefit of the project – Does the project help TMWA protect its sources of drinking water?
- Benefit to TMWA customers – Is there a direct benefit to TMWA customers?
- Project location – Is the project located upstream of one of TMWA’s water treatment plants?

2. QUALITY OF PROJECT DESIGN

- Appropriateness of selected project methods – Do the proposed project strategies make sense to address the watershed and/or water quality concern(s) outlined by the applicant?
- Thoroughness of project design – Is the project design adequately detailed to ensure the desired outcome(s)?
- Sustainability of project – Will the benefits of the project continue after the grant funds are expended?
- Project longevity – If ongoing operation & maintenance (O&M) is required to maintain benefits, is it funded?
- Consideration of existing research – Does the project consider existing research, planning efforts, or assessments related to the Truckee River watershed?

3. MEASURABILITY OF PROJECT SUCCESS

- Identification of project benchmarks or milestones – Has the applicant described the steps necessary to complete the project?
- Demonstrated ability to measure the results of the project – Does the project have adequate measurable outcomes to evaluate project success?
- Benefits expected from a successful project – Are there clear goals that will be obtained on project completion?
- Readiness to begin project – Is the grant applicant ready to undertake and complete the project?

4. EFFECTIVENESS OF ORGANIZATION

- Qualifications of applicant for the proposed project – Does the applicant have adequate experience and credentials to perform the work described in the application?
- Collaborative efforts – Are there partner organizations supporting or benefiting from the project?
- Demonstrated ability of applicant to manage and complete the project – Has the applicant successfully completed projects similar to the one proposed? If previously funded by TRF, has the applicant met performance requirements and completed projects successfully?

5. ADEQUACY OF PROPOSED BUDGET

- Availability and status of matching funds – Does the project provide a minimum of 25 percent match in cash and/or in-kind services? If the project is downstream of the USGS Vista gage, is the 25 percent match requirement met using cash match?
- Total project cost relative to benefits – Is the project cost reasonable given the expected project outcome(s)?
- Appropriateness of budget – Are the costs presented in the budget adequately detailed and do they seem reasonable? Is the project under the 25 percent indirect/overhead expense limit?

Organization Information

Organization Name*

Tahoe Rim Trail Association

Organization Type*

501(c)(3) Nonprofit

EIN

If the organization is a 501c3, please include the EIN#.

94-2789846

Director of Organization*

Morgan Steel

Project Contact Name*

Brooke Clayton

Project Contact Postion/Title*

Development Coordinator

Project Contact Email*

brookec@tahoerimtrail.org

Project Contact Phone Number*

(775) 258-2361

Organization Mission*

The mission of the Tahoe Rim Trail Association (TRTA) is to maintain and enhance the Tahoe Rim Trail system, practice and inspire stewardship, and preserve access to the natural beauty of the Lake Tahoe region.

Project Information

Project Title*

Name of Project.

TRF #286 TRTA Trailhead Ambassador Support to Protect Tahoe's Watershed

Amount Requested*

\$5,472.21

Project Start Date*

04/01/2024

Project End Date*

09/30/2024

This funding will be used to:*

Complete this sentence with a max of 2 sentences.

This funding will be used to bolster the Tahoe Rim Trail Association's educational Trailhead Ambassador program, with the specific goal of purchasing and distributing dog waste bag dispensers with a leash attachment. These waste bag dispensers will empower Tahoe's recreators to protect the Lake Tahoe Basin's watershed by properly managing pet waste on the Tahoe Rim Trail and beyond.

This project is on:*

Check all that apply

Public land

Are government permits or decision documents needed for the project?*

No

If so, are those permits and decision documents already secured?

If permits and decision documents are needed but not yet secured, in #4 of the Narrative Requirements provide a list of permits and documents needed and a schedule for securing them.

Previous Funding from Truckee River Fund**Has your organization received other grants from the Truckee River Fund?***

No

If yes, please include the following information for all previously funded projects:

- *Date awarded*
- *Project # and Title*
- *Amount of award*

Please attach additional pages as needed to list ALL previously funded projects.

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.
- E. Other projects that meet the evaluation criteria.

E.)

Narrative Requirements

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

All projects are required to have measurable outcomes.

The goals of the TRTA Trailhead Ambassador Support to Protect Tahoe's Watershed project are to educate Tahoe's recreators about the harmful effects of improperly managed dog waste on the Lake Tahoe Basin's watershed and to provide pet owners with a waste bag dispenser with a leash attachment so that they have the proper supplies to mitigate dog waste wherever they go. These goals will be achieved through the implementation of the Tahoe Rim Trail Association's (TRTA) educational Trailhead Ambassador program and evaluated based on the following measurable outcomes:

- Purchase 1,000 dog waste bag dispensers with leash attachments to distribute to trail users
- Purchase 1,000 rolls of USDA-certified bio-based waste bags to include with dispensers
- Recruit and train 30 Trailhead Ambassadors
- Provide 100 hours of sustainable recreation education through TRTA Trailhead Ambassadors
- Provide 1,000 waste bag dispensers (with a roll of bio-based bags included)

Digital records will be used to measure and report all of these outcomes. The purchase of the waste bag dispensers and bags will be easily tracked with a receipt. The TRTA's Communication Director will manage and track how many Trailhead Ambassadors are recruited for the 2024 season. Those volunteers will be trained on how to digitally track all of their volunteer time, and will also record how many waste bag dispensers they distribute. At the end of the season, we will inventory any remaining waste bag dispensers. A thorough report will be provided to the Truckee River Fund on the use of grant funds and the measurable outcomes achieved through this project.

2.) Describe the project location.*

Include site map and aerial photos if applicable/possible as an attachment.

To ensure that waste bags are properly disposed of, ambassadors will give out dispensers at Tahoe Rim Trail (TRT) trailheads that have existing trash cans. This will include the following trailheads, which can be viewed on the attached map with their corresponding number from this list:

1. Kingsbury North
2. Big Meadow
3. Echo Lake
4. 64 Acres/Tahoe City
5. Mt Rose Summit

After recreators receive a dispenser from a TRTA volunteer, the impact of this project will circle the Lake Tahoe Basin along the Tahoe Rim Trail and beyond.

A map has been attached under Question 5 (Permitting), as it was the only available place to upload an additional file.

3.) Project Description*

Grant application supporting document.pdf

It might not be the most appealing topic, but dog poop is a serious threat to water quality in the Lake Tahoe Basin, and the Tahoe Rim Trail Association (TRTA) plans to address this threat by empowering recreators with the knowledge and tools to properly manage pet waste. The TRTA seeks grant support from the Truckee River Fund (TRF) to bolster our Trailhead Ambassador program with the purchase of 1,000 dog waste bag dispensers with leash attachments, to be distributed by Trailhead Ambassadors at popular sites around the Tahoe Rim Trail (TRT) as they educate recreators on the harm that dog feces can cause to the watershed. The TRTA's growing Trailhead Ambassador program engages the public with TRTA volunteers who love to share their passion for the trail with Tahoe's recreators.

While most dog owners know that it is their responsibility to pick up after their pet, few may realize that dog waste was actually labeled a non-point source (NPS) pollutant by the Environmental Protection Agency (EPA) in 1991. The TRTA doesn't struggle with recreators pouring herbicides or other toxic NPS pollutants on the trail and trusts that recreators will treat dog waste with the same respect if properly educated on its harmful impact and empowered to address it. Having a waste bag dispenser with a leash attachment means that recreators will be empowered to properly manage dog waste throughout Lake Tahoe's watershed, not just on the TRT. This leash attachment consists of a carabiner-style clip and two elastic straps, so the dispenser could also be attached to a backpack strap, a belt, a trekking pole, etc. Trail users often choose the TRT because of its stunning views of Lake Tahoe, and this project will empower them to help protect it.

In addition to purchasing waste bag dispensers and a roll of environmentally friendly waste bags to include with each, grant funding from TRF would help the TRTA train our volunteer Trailhead Ambassadors and show them our appreciation with water, snacks, and an annual volunteer celebration in the fall.

4.) Grant priorities*

Explain how the proposed project advances the TRF's specific grant priorities.

TRTA Trailhead Ambassador Support to Protect Tahoe's Watershed embodies TRF's priority of Stewardship and Environmental Awareness. Grant funding would develop the TRTA's Trailhead Ambassador program and provide a free resource to recreators so that they can clean up dog waste wherever they go. The Tahoe Rim Trail traverses the high mountain peaks all around Lake Tahoe, and NPS pollutants can travel from the trail into the watershed. The only outlet from the lake is the Truckee River. This literal and figurative cascade of events explains how dog waste along the TRT and throughout Tahoe can affect the drinking water being treated in Reno-Sparks. Educating recreators about this process while empowering them to intervene will help the Truckee Meadows Water Authority protect its sources of drinking water.

5.) Permitting*

Provide a permitting schedule for your project along with your plan for getting the required permits and decision documents. Be sure to include the cost of permitting/decision documents as a line item in your budget.

Map.pdf

The TRTA has a volunteer agreement with the United States Forest Service and Nevada State Parks, and no permits are needed to complete this project.

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 Trailhead Ambassador program at the TRTA is an annually recurring program supported by unrestricted funds from membership fees and donations, as well as by grant funding that fluctuates from year to year but has recently come from the Caesars Foundation and the El Dorado Community Foundation. Support from TRF to purchase waste bag dispensers with a leash attachment will be a one-time project within the Trailhead Ambassador program and will not require any additional funding.

8.) Identify the principals involved in leading or coordinating the project or activity.*

Anthony Porter, Communications Director at the Tahoe Rim Trail Association, will be responsible for recruiting, training, and organizing Trailhead Ambassadors. As the principal staff member managing this project, he will oversee and track the distribution of waste bag dispensers and gather data on user feedback.

9.) Number of staff positions involved in project.*

Identify how many staff will be full-time and how many will be 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.

One part time staff will be involved with this project.

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

Thirty volunteers will be involved with this project and they will contribute an estimated 100 hours of volunteer service.

11.) Timeline 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.

***Note: Funding will not be provided for work performed prior to grant approval.*

This project will take place from April 1, 2024, when volunteer recruitment will be at its peak and we must place the order for waste bag dispensers, to approximately September 30, 2024, when our Trailhead Ambassador program will likely come to an end for the season. Milestones of the project will include:

- April 1st: the last day to order dispensers in order to have them at the training event
- May 18th and 19th: volunteer training event
- Late May through late August: trailhead ambassadors perform outreach and education at trailheads
- Late September: an annual volunteer celebration marks the end of the trail season

Delays could be encountered during the manufacturing and shipping of the dispensers or could be caused by weather. Luckily, the Trailhead Ambassador program recurs every year, and any dispensers not distributed in the summer of 2024 can be used in the future.

12.) What factors will indicate a successful project?*

There are both quantifiable and qualitative indicators of success for this project. Quantifiable factors include:

- Purchasing 1,000 dog waste bag dispensers with leash attachments
- Purchasing 1,000 rolls of bio-based waste bags
- Recruiting and training 30 Trailhead Ambassadors
- Providing 100 hours of sustainable recreation education
- Provide 1,000 waste bag dispensers to recreators (with a roll of bio-based bags included)

Qualitative factors will be the positive interactions between TRTA Trailhead Ambassadors and trail users around the Lake Tahoe Basin. Our project will be successful if trail users feel educated on the harmful effects of dog waste on the watershed and empowered to intervene by picking up after their pets.

13.) Collaboration*

List partnerships or collaborations with other entities in relation to your proposal, if any. Grantees are encouraged to seek other funds prior to requesting money from the Truckee River Fund. Please explain what other funding opportunities were sought and if any other funds have been awarded.

Secured grant funding from the El Dorado Community Foundation will cover the vehicle expenses for this project as well as provide a match to TRF funds used for staff time and volunteer support (see attached budget for greater detail). Additional volunteer support will be provided by the Caesar's Foundation, pending a grant award that the TRTA was invited to apply for.

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.

For grant requests for projects downstream of the Vista USGS gage, the 25 percent match requirement must be met using **cash match**.

Total grant match to be provided.*

\$8,678.00

Cash

\$5,498.00

For the cash portion, is the funding already being held by the applicant for this project?

Yes

In-kind

***Note: Provide an itemized breakdown of volunteer match in your budget with rationale.*

\$3,180.00

Description of matching funds/in-kind donations.*

In-kind matching funds are calculated based on an estimated 100 hours of volunteer service at the current national rate of \$31.80 an hour. The \$5,498 cash match is based on grant support from the El Dorado Community Foundation and an anticipated grant from the Caesars Foundation. If the TRTA does not receive the Caesars Foundation grant, we will be able to support the project with unrestricted funds from membership fees and donations.

Attachments

Nonprofits must 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

****Please submit as one PDF document**

Nonprofit documents.pdf

Governmental entities must submit:

- Departmental budget in lieu of audited financial statements

Project Budget*

*Provide detail on each line-item expenditures and show which funds are committed and which have been requested to be paid for by the Truckee River Fund grant, and which will be paid for with in-kind services. Other sources of funding should be provided. Explain status of other funding if not in hand. If project is to be implemented in phases, please separate budget into each phase. **Please contact Lauren Renda at lrenda@nevadafund.org for a sample budget template.***

****Notes:**

- *Indirect/overhead expenses cannot exceed 25 percent; TRF may fund indirect/overhead up to 25% based on availability of funds.*
- *Applicants should be prepared to provide reduced budgets during the review of applications by the TRF Advisory Committee when funds are limited.*
- *Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.*

Budget.pdf



TRTA Trailhead Ambassadors hard at work under some bluebird skies



Online Quote



Quote ID: 290513
Name: Brooke Clayton
Company: Tahoe Rim Trail Association
Quote Date: Wednesday, January 24, 2024
Item: VX4068 -Dog Poop Bag Holder For Leash Attachment
Description: Perfect Size + Easy Attachment - Stores 2 rolls of standard dog bags for poop. Also stores cash, set of keys, or even dog treats for added convenience. Quick and simple to attach. Quick Poop Bags Acces: This lightweight dog poop bag dispenser easily secures flat to any dog leash or retractable leash with the durable elastic band. Save time and hassle by simply pulling your next doggie poop bag from the this poop bags holder right now when you need it. No more searching around for pet waste bags while walks outside in your daily life.
Item Color: Black
Item Size / Option:
Due Date: 4/30/2024 - This date is: **Flexible**
IN ORDER TO MEET YOUR REQUESTED IN-HANDS DATE, YOU MUST HAVE YOUR ORDER SUBMITTED AND PROOF APPROVED BY 4/1/2024
Shipping Zip: 89449
Production Time: 13-15 days
Transit Time: 7 days
Additional Info:
Customized?: Yes
Uploaded File: TRTALogo-main-bigbestquality.png [Need to upload a new or different file? Click here](#)
Imprint Method: Heat transfer
Color Count: 2
Imprint Colors: blue white [Want to change your imprint colors? Click Here](#)
Font:
Text:

Quote Breakdown:

Item	Description	Quantity	Unit Price	Sub Total
VX4068	Dog Poop Bag Holder For Leash Attachment	1000	\$2.51	\$2,510.00
SETUP	Setup Charge for 2 color, one location imprint	1	\$100.00	\$100.00
RUNNING	Running Charge	1000	\$0.00	\$0.00
SHIPPING	Air shipping is FREE - Includes customs, duties and door to door delivery	1	\$0.00	\$0.00
NOTES		1	\$0.00	\$0.00

ADD TO CART

Due to variable product demands; inventory, pricing and firm delivery dates cannot be guaranteed.

Quote Total: \$2,610.00

*****This quote is valid until Friday, February 23, 2024
 Prices and availability are subject to change at anytime. Items such as flash drives are especially subject to such price changes.

Delivering to South Lak... 96150
Update location

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Fast, Free Shipping with Amazon Prime
FREE Returns

You Save: **\$3.00** (12%)

Get \$50 off instantly: Pay \$0.00 ~~\$21.99~~ upon approval for Amazon Visa. No annual fee.

Color: **Black**

-  **\$21.99** (\$0.02 / Count)
-  \$21.99
-  \$21.99 (\$0.02 / Count)
-  \$21.99 (\$0.02 / Count)
-  --

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Unit Count 1080.0 Count
Recommended Uses For Product pet waste bag
Color Black

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- SUPER VALUE PACK:** Great price (0.02/Count) for PET N PET 1080 counts dog waste bags (60 rolls, 18 bags per roll), a value pack can provide more than 1 year.
- ENVIRONMENT MATTERS:** PET N PET 38% Biobased dog poop bags



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\$21.99 (\$0.02 / Count)

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In Stock

Quantity: 1

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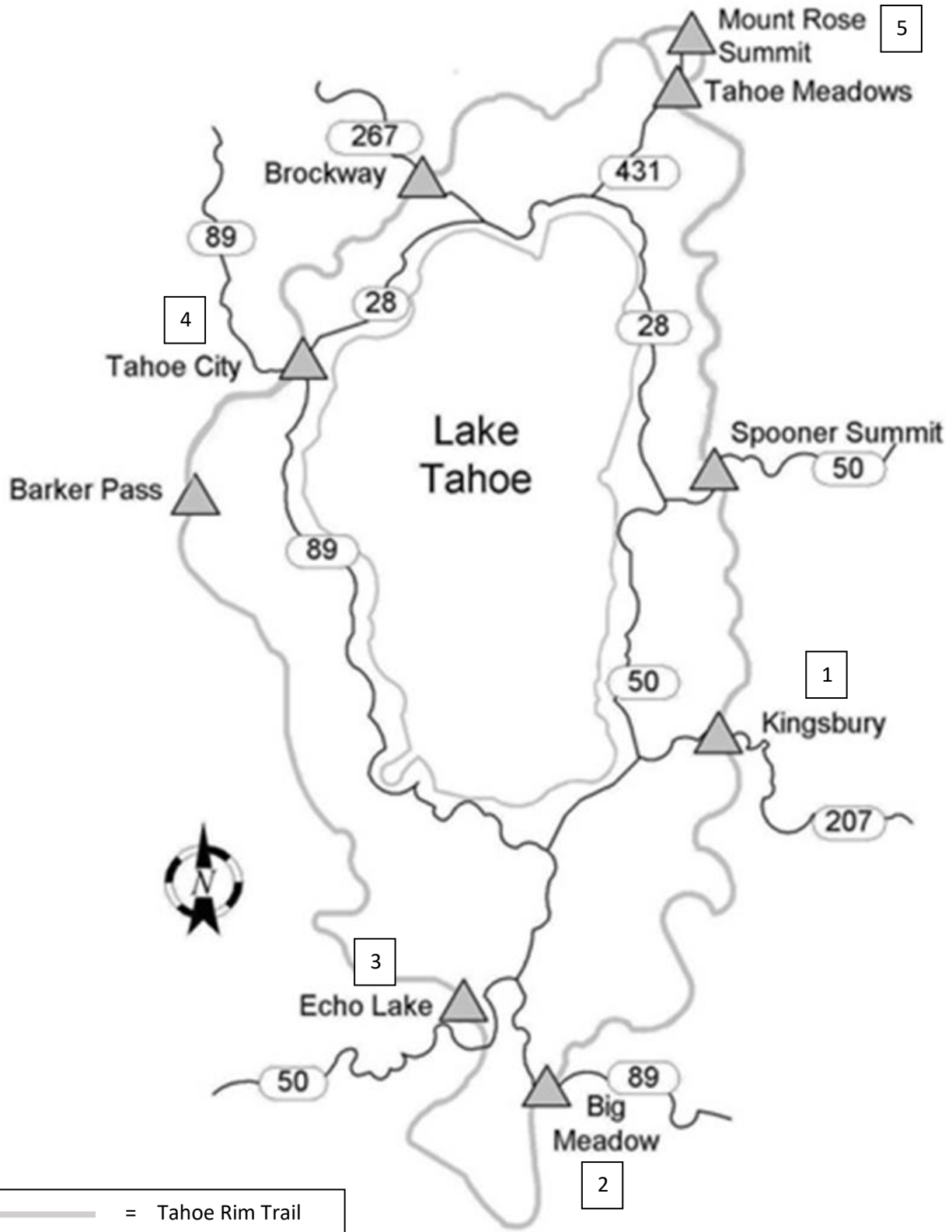
10% 15%
\$19.79
FREE delivery **Tuesday, January 30** on orders shipped by Amazon over \$35
Ships from: Amazon
Sold by: E-GREEN




Add to List



Photos from the Tahoe Rim Trail Associations
annual volunteer celebration in 2023





	= Tahoe Rim Trail
	= Highway
	= Trailhead

TRTA Trailhead Ambassador Support to Protect Tahoe's Watershed			
Expense	Overall cost	TRF Request	Match*
Labor			
Staff time: wages for the TRTA's Communications Director and Outreach Coordinator to recruit, organize, and support trailhead ambassadors	\$2,000.00	\$1,000.00	\$1,000.00
Volunteer time: an estimated 100 hours of trailhead ambassador support (at the current national rate of \$31.80/hour)	\$3,180.00	\$0.00	\$3,180.00
Volunteer Support			
Training: including Tahoe Naturalist, Leave No Trace, Risk Management, and Volunteer Procedures	\$1,500.00	\$500.00	\$1,000.00
Appreciation: including water, snacks, and an annual volunteer celebration	\$3,000.00	\$500.00	\$2,500.00
Travel: transportation of volunteers and outreach supplies using TRTA vehicles	\$200.00	\$0.00	\$200.00
Waste Management Materials			
Waste bag dispensers with leash attachment (1,000 @ \$2.51 + \$100 fee for imprint)	\$2,610.00	\$2,610.00	\$0.00
Compostable waste bags (17 boxes of 60 rolls @ \$21.99/box)	\$373.83	\$373.83	\$0.00
Other			
Administrative costs (10% of total)	\$1,286.38	\$488.38	\$798.00
Total Project Costs	\$14,150.21	\$5,472.21	\$8,678.00
	Total	TRF Request	Match*
*Matching funds will be provided by the TRTA's unrestricted funds, in-kind volunteer support, a secured grant from the El Dorado Community Foundation, and an anticipated grant from the Caesar's Foundation			

TRF #287 River Stewards

Truckee River Fund- Spring 2024

The Reno Initiative for Shelter and Equality

Benjamin Castro
2095 Arcane Ave.
Reno, NV 89503

O: 775-412-8325

Benjamin Castro

2095 Arcane Ave.
Reno, NV 89503

ben@renoinitiative.org
O: 775-412-8325

Application Form

Truckee River Fund Grant Priorities

Truckee Meadows Water Authority (TMWA) recommends that the Truckee River Fund (TRF) Advisory Committee (the "Committee") give preference to well-supported, clearly drafted grant requests that consider substantial benefits to TMWA customers for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby water treatment and hydroelectric plant intakes.

- **Aquatic Invasive Species (AIS):** Projects/Programs that support the prevention or control of aquatic invasive species in the mainstem Truckee River, Lake Tahoe, other tributaries and water bodies in the Truckee River system.
- **Watershed Improvements:** Projects that reduce erosion or sediment, suspended solids, or total dissolve solids (TDS) discharges, nutrients, industrial contaminants, or bacterial pollutants to the River. Projects or programs that are located within 303d (impaired waters) and total maximum daily load (TMDL) sections of the River should be considered, both in California and Nevada. Innovative techniques should be encouraged. The following link identifies impaired sections of the river and its tributaries: <https://mywaterway.epa.gov/>.
- **Local Stormwater Improvements:** Projects that demonstrably 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.
- **Re-Forestation and Re-Vegetation Projects:** Projects to restore forest and upland areas damaged by fire and historical logging operations, and to improve watershed 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.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** Projects to support water quality improvement in creeks and tributaries to the Truckee River.
- **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 that do not fall clearly into the one of the above-mentioned categories.

Notes:

- For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Northern Nevada for additional criteria at lrenda@nevadafund.org.
- For proposals in the Lake Tahoe Basin, the Truckee River Fund (TRF) typically only funds proposals related to Priority I and VI.

Grantee Requirements

GRANTEE REQUIREMENTS

To be eligible for funding, grantees must adhere to the following requirements:

- Funds are to be used and/or disbursed exclusively for the charitable uses and purposes.

- The Fund shall be used exclusively for projects that protect and enhance water quality or water resources of the Truckee River, or its watershed.
- Grantees may include 501(c)(3) organizations and governmental entities. Any grants to governmental entities must be made exclusively for public benefit purposes.
- All grantees will be required to sign a grant agreement stipulating their agreement to all applicable terms, conditions, and reporting requirements.
- Organizations or entities sponsoring proposals are prohibited from ex parte communications with members of the Committee regarding such proposals while those proposals are pending before the Committee, and such communications may be grounds for rejecting a proposal.
- 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.

TRUCKEE MEADOWS WATER AUTHORITY BOARD OF DIRECTOR'S DISCRETION

For each proposal submitted and recommended by the Committee the TMWA Board of Directors has absolute discretion to:

- Accept or reject any proposal;
- Accept a proposal on the condition that certain modifications be made;
- Assess proposals as they see fit, without in any way being obligated to select any proposal;
- Determine whether proposals satisfactorily meet the evaluation criteria set out in this RFP;
- Reject proposals with or without cause, whether based on the evaluation criteria set out above or otherwise.

PERFORMANCE GUIDELINES

To maintain eligibility to receive grant funds, each Charitable Beneficiary must comply at all times with the following requirements:

- Must be exempt from federal income taxation under Section 501(c)(3) of the Code;
- Shall use all Fund distributions toward projects that are appropriate and legal public expenditures;
- Must provide financial details and/or reports of their organizations upon request;
- Must submit quarterly reports.
- Must not use any Fund distributions for political contributions or political advocacy;
- Must either implement the projects, activities, and/or programs for which they received Fund distributions within six months of the date in which such distributions are received or by date(s) as agreed upon in the grant acceptance agreement, or must return all such distributions to the Community Foundation of Northern Nevada forthwith;
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Project Evaluation Criteria

EVALUATION CRITERIA

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1. RELEVANCE OF PROPOSAL TO THE TRF PROGRAM

- Address TRF grant priorities – Does the project address at least one of the TRF grant priorities, as described at the beginning of the RFP?
- Meet multiple objectives – Does the project meet multiple grant priorities?
- Public benefit of the project – Does the project help TMWA protect its sources of drinking water?
- Benefit to TMWA customers – Is there a direct benefit to TMWA customers?
- Project location – Is the project located upstream of one of TMWA’s water treatment plants?

2. QUALITY OF PROJECT DESIGN

- Appropriateness of selected project methods – Do the proposed project strategies make sense to address the watershed and/or water quality concern(s) outlined by the applicant?
- Thoroughness of project design – Is the project design adequately detailed to ensure the desired outcome(s)?
- Sustainability of project – Will the benefits of the project continue after the grant funds are expended?
- Project longevity – If ongoing operation & maintenance (O&M) is required to maintain benefits, is it funded?
- Consideration of existing research – Does the project consider existing research, planning efforts, or assessments related to the Truckee River watershed?

3. MEASURABILITY OF PROJECT SUCCESS

- Identification of project benchmarks or milestones – Has the applicant described the steps necessary to complete the project?
- Demonstrated ability to measure the results of the project – Does the project have adequate measurable outcomes to evaluate project success?
- Benefits expected from a successful project – Are there clear goals that will be obtained on project completion?
- Readiness to begin project – Is the grant applicant ready to undertake and complete the project?

4. EFFECTIVENESS OF ORGANIZATION

- Qualifications of applicant for the proposed project – Does the applicant have adequate experience and credentials to perform the work described in the application?
- Collaborative efforts – Are there partner organizations supporting or benefiting from the project?
- Demonstrated ability of applicant to manage and complete the project – Has the applicant successfully completed projects similar to the one proposed? If previously funded by TRF, has the applicant met performance requirements and completed projects successfully?

5. ADEQUACY OF PROPOSED BUDGET

- Availability and status of matching funds – Does the project provide a minimum of 25 percent match in cash and/or in-kind services? If the project is downstream of the USGS Vista gage, is the 25 percent match requirement met using cash match?
- Total project cost relative to benefits – Is the project cost reasonable given the expected project outcome(s)?
- Appropriateness of budget – Are the costs presented in the budget adequately detailed and do they seem reasonable? Is the project under the 25 percent indirect/overhead expense limit?

Organization Information

Organization Name*

The Reno Initiative for Shelter and Equality

Organization Type*

501(c)(3) Nonprofit

EIN

If the organization is a 501c3, please include the EIN#.

45-5617917

Director of Organization*

Benjamin Castro

Project Contact Name*

Benjamin Castro

Project Contact Postion/Title*

Executive Director

Project Contact Email*

ben@renoinitiative.org

Project Contact Phone Number*

7754128325

Organization Mission*

Our initiative is to cultivate a greater sense of dignity and humility by providing equal access to shelter, knowledge, and opportunity. We seek to create a stronger community through the use of shared resources and mutual aid.

Project Information

Project Title*

Name of Project.

TRF #287 River Stewards

Amount Requested*

\$226,503.20

Project Start Date*

04/01/2024

Project End Date*

03/31/2025

This funding will be used to:*

Complete this sentence with a max of 2 sentences.

The funding will be used to hire one Program Manager and 6 Part-Time Contractors to decrease pollution in the areas within 100 feet on either side of the Truckee River. Expenses will include salaries, fringe benefits, and program supplies.

This project is on:*

Check all that apply

Public land

Are government permits or decision documents needed for the project?*

No

If so, are those permits and decision documents already secured?

If permits and decision documents are needed but not yet secured, in #4 of the Narrative Requirements provide a list of permits and documents needed and a schedule for securing them.

Previous Funding from Truckee River Fund

Has your organization received other grants from the Truckee River Fund?*

No

If yes, please include the following information for all previously funded projects:

- *Date awarded*
- *Project # and Title*
- *Amount of award*

Please attach additional pages as needed to list ALL previously funded projects.

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.
- E. Other projects that meet the evaluation criteria.

C.)

E.)

Narrative Requirements

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

All projects are required to have measurable outcomes.

A Source Water Protection Area (SWPA) is a locally established management area surrounding a surface water or ground water resource that supplies water for public consumption. An SWPA provides a buffer around the Truckee River, as well as perennial tributaries. This buffer zone will be impacted by this project.

Specific goals:

- 1.) To decrease pollution in the areas within 100 feet on either side of the Truckee River by significantly reducing the amount of trash in these areas;
- 2.) To reduce pollutants that end up in the river from non-point source pollution as a result of keeping the SWPA cleared of trash and biohazards;
- 3.) To improve the aesthetic value and potential for increased recreational use by the public, including hiking, bicycling, fishing and other water sports by enhancing the appearance of the Truckee River Watershed, including the public parks and trails in the area; and
- 4.) To provide employment opportunities for our unsheltered neighbors.

Measurable outcomes:

- 1.) Track and record the number of bags of trash collected from the SWPA;
- 2.) Record the number of staff employed by this project, including the number of unsheltered individuals.

2.) Describe the project location.*

Include site map and aerial photos if applicable/possible as an attachment.

Reno-Tahoe Truckee River Trail with specific focus on encampments identified by the Reno Clean and Safe Team and other Outreach Service Providers.

3.) Project Description*

The River Stewards Project Description.pdf
See Attached

4.) Grant priorities*

Explain how the proposed project advances the TRF's specific grant priorities.

The River Stewards Project fits the TRF priority category Stewardship and Environmental Awareness by supporting a cleanup program and offering community education directly connected to preserving and protecting the local environment and enhancing water quality.

The project will also contribute to improving the local watershed by decreasing the total maximum daily load (TMDL) through the reduction of non-point source pollution in and around the Truckee River. The project's work will occur in upstream urban areas that are close to TMWAA's water treatment facility.

5.) Permitting*

Provide a permitting schedule for your project along with your plan for getting the required permits and decision documents. Be sure to include the cost of permitting/decision documents as a line item in your budget.

No Permits Necessary.

6.) Future Land Use*

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

N/A

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

RISE currently contracts with the City of Reno's Clean and Safe Team to provide outreach services to our unsheltered neighbors and with One Truckee River to provide janitorial services to the Portland Loos located at both Brodhead Park and John Champion Park. Once the viability of the River Stewards Project has been fortified, the partners previously mentioned are potential sources of funding to continue the project's maintenance.

8.) Identify the principals involved in leading or coordinating the project or activity.*

The project will require one Program Manager who will report directly to the Executive Director. The Program Manager will recruit, train, and direct six part-time River Stewards. The Program Manager will also work closely with the RISE Outreach Team to provide peer support services to the River Stewards recruits and broker resources to increase the likelihood of stable income and permanent housing.

9.) Number of staff positions involved in project.*

Identify how many staff will be full-time and how many will be 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.

One Full-Time Program Manager, 6 Part-time River Stewards, and four Part-Time Peer Support Specialists provided In-Kind by the RISE Outreach Team.

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

This project will not be reliant on volunteers.

11.) Timeline 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.

***Note: Funding will not be provided for work performed prior to grant approval.*

April 1, 2024 – March 31, 2025

12.) What factors will indicate a successful project?*

Factors indicating the success of River Stewards include:

- 1.) A significant decrease in the amount of trash in public areas within 100 feet on either side of the Truckee River;
- 2.) A significant drop in the number of pollutants in the local water supply as measured by TMWAA staff;
- 3.) Evidence of a change in the attitude of residents and visitors toward protecting the Truckee River and its surrounding area. If people routinely experience a clean and well-maintained area, they are more likely to act more responsibly and to value a clean and safe environment.

13.) Collaboration*

List partnerships or collaborations with other entities in relation to your proposal, if any. Grantees are encouraged to seek other funds prior to requesting money from the Truckee River Fund. Please explain what other funding opportunities were sought and if any other funds have been awarded.

RISE currently has partner relationships with several government agencies and community-based non-profit organizations, including: Washoe County Human Services Agency, which contracts with RISE to manage and operate OUR Place Shelter for women and families; One Truckee River (OTR), the non-profit organization involved with the original River Stewards project and partners with RISE to maintain the public restrooms along the Truckee River; Keep Truckee Meadows Beautiful (KTMB), the non-profit organization that organizes community cleanup events along the river and throughout the area, utilizing hundreds of community volunteers; and the City of Reno, which contracts with RISE for the management and operation of a city-wide outreach program that offers a variety of services to individuals living unsheltered.

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.

For grant requests for projects downstream of the Vista USGS gage, the 25 percent match requirement must be met using **cash match**.

Total grant match to be provided.*

\$57,408.00

Cash

[Unanswered]

For the cash portion, is the funding already being held by the applicant for this project?

Yes

In-kind

***Note: Provide an itemized breakdown of volunteer match in your budget with rationale.*

\$57,408.00

Description of matching funds/in-kind donations.*

RISE will provide 1.2 FTE Peer Support Specialists to work directly with the River Stewards recruits to broker public resources and increase the likelihood of stable income and permanent housing.

Attachments

Nonprofits must 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

****Please submit as one PDF document**

River Stewards Attachments-compressed.pdf

Governmental entities must submit:

- Departmental budget in lieu of audited financial statements

Project Budget*

*Provide detail on each line-item expenditures and show which funds are committed and which have been requested to be paid for by the Truckee River Fund grant, and which will be paid for with in-kind services. Other sources of funding should be provided. Explain status of other funding if not in hand. If project is to be implemented in phases, please separate budget into each phase. **Please contact Lauren Renda at lrenda@nevadafund.org for a sample budget template.***

****Notes:**

- *Indirect/overhead expenses cannot exceed 25 percent; TRF may fund indirect/overhead up to 25% based on availability of funds.*
- *Applicants should be prepared to provide reduced budgets during the review of applications by the TRF Advisory Committee when funds are limited.*
- *Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.*

River Stewards Budget.xlsx

The River Stewards Project seeks to build upon a similar project that was successful in significantly reducing the amount of trash in the Truckee River watershed as well as the river itself. The presence of trash along the riverbanks poses a serious threat to water quality, and a threat to the health of the entire community. The proposed project site includes an upstream urban area, which is also located in close proximity to the TMWAA Water Treatment Plant.

The River Stewards Project will consist of ongoing trash removal, including removal of animal and biohazard waste, in areas along the Truckee River that are beautifully landscaped and designed for recreational use. Current and formerly unsheltered individuals will be hired on a contract basis at a livable wage as cleanup crew members. Crew members will receive comprehensive training by the Program Manager and other staff. The training will include instruction in community outreach to unsheltered individuals, consistent with the RISE organizational mission.

River Stewards crew members will:

- 1.) Participate in daily trash cleanup and occasional plantings;
- 2.) Assist in outreach efforts and provide support to unsheltered individuals in the area;
- 3.) Help to educate all river users about the importance of protecting the Truckee River and its surrounding areas.

The annual Point In Time Count, required by the U.S. Department of Housing and Urban Development (HUD), is conducted every year on one day in late January for the purpose of tracking the total number and identifying characteristics of individuals experiencing homelessness in cities throughout the U.S. According to the 2023 Point In Time Count conducted on January 26th, a total of 1690 homeless individuals were counted in Washoe County. This included 329 people living unsheltered (sleeping in tents, cars, on the street, or in makeshift shelters). The River Stewards project will offer opportunities for some to earn an income while working in a supportive environment and performing an invaluable service to our community.

The project will provide multiple benefits to the community, including the creation of a more desirable outdoor environment for the public to enjoy. While many areas along the Truckee River have aesthetic value, the potential for recreational use has not been fully realized. The Truckee River Path, a scenic hiking/walking trail, includes more than six public parks in the city of Reno alone, and offers access to the Tahoe-Pyramid Trail, a popular bicycle thoroughfare, as well as access points for fishing, kayaking and other water sports. Keeping these areas free of trash offers multiple environmental, health and safety benefits to the entire community.

We believe that when community members observe intensive cleanup efforts along the river, they will likely be inspired to be mindful of the area's natural beauty, and motivated to reduce their ecological footprint. This conservation mindset will help protect the river for all of us, as well as for future generations.

River Stewards

April 1, 2024 - March 31, 2025

Detailed Proposed Budget

Category	Details of Expected Expenses	FTE	Hourly	Project Duration	Total
1. Salaries					
	Program Manager	1.00	\$ 30.00	\$ 62,400.00	
	Peer Support Specialist - In-Kind Service Provided by RISE Outreach	1.20	\$ 23.00	\$ 57,408.00	
	Salaries Subtotal				\$ 62,400.00
2. Fringe					
	Fringe benefits @ 16%			\$ 9,984.00	
	Fringe Subtotal				\$ 9,984.00
3. Contractual					
	Contracted River Stewards	2.46	\$ 20.00	\$ 102,336.00	
	Insurance - Liability			\$ 3,600.00	
	Insurance - Workman's Comp			\$ 2,906.40	
	Contractual Subtotal				\$ 108,842.40
4. Supplies and Equipment					
	Trash Bags and Gloves			\$ 1,768.00	
	Supplies and Equipment Subtotal				\$ 1,768.00
5. Administrative					
	Administrative Costs @10%				\$ 18,299.44
	Administrative subtotal				
Total Cost					\$ 201,293.84

TRF #288 Youth Watershed Education and Protection Projects

Truckee River Fund- Spring 2024

Great Basin Outdoor School

Sue Jacox
1000 Bible Way #53
Reno, NV 89502

O: 775-324-0936

Derik Knak

1000 Bible Way #53
Reno, NV 89502

development@greatbasin-os.org
O: 530-949-4975

Application Form

Truckee River Fund Grant Priorities

Truckee Meadows Water Authority (TMWA) recommends that the Truckee River Fund (TRF) Advisory Committee (the "Committee") give preference to well-supported, clearly drafted grant requests that consider substantial benefits to TMWA customers for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby water treatment and hydroelectric plant intakes.

- **Aquatic Invasive Species (AIS):** Projects/Programs that support the prevention or control of aquatic invasive species in the mainstem Truckee River, Lake Tahoe, other tributaries and water bodies in the Truckee River system.
- **Watershed Improvements:** Projects that reduce erosion or sediment, suspended solids, or total dissolve solids (TDS) discharges, nutrients, industrial contaminants, or bacterial pollutants to the River. Projects or programs that are located within 303d (impaired waters) and total maximum daily load (TMDL) sections of the River should be considered, both in California and Nevada. Innovative techniques should be encouraged. The following link identifies impaired sections of the river and its tributaries: <https://mywaterway.epa.gov/>.
- **Local Stormwater Improvements:** Projects that demonstrably 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.
- **Re-Forestation and Re-Vegetation Projects:** Projects to restore forest and upland areas damaged by fire and historical logging operations, and to improve watershed 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.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** Projects to support water quality improvement in creeks and tributaries to the Truckee River.
- **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 that do not fall clearly into the one of the above-mentioned categories.

Notes:

- For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Northern Nevada for additional criteria at lrenda@nevadafund.org.
- For proposals in the Lake Tahoe Basin, the Truckee River Fund (TRF) typically only funds proposals related to Priority I and VI.

Grantee Requirements

GRANTEE REQUIREMENTS

To be eligible for funding, grantees must adhere to the following requirements:

- Funds are to be used and/or disbursed exclusively for the charitable uses and purposes.

- The Fund shall be used exclusively for projects that protect and enhance water quality or water resources of the Truckee River, or its watershed.
- Grantees may include 501(c)(3) organizations and governmental entities. Any grants to governmental entities must be made exclusively for public benefit purposes.
- All grantees will be required to sign a grant agreement stipulating their agreement to all applicable terms, conditions, and reporting requirements.
- Organizations or entities sponsoring proposals are prohibited from ex parte communications with members of the Committee regarding such proposals while those proposals are pending before the Committee, and such communications may be grounds for rejecting a proposal.
- 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.

TRUCKEE MEADOWS WATER AUTHORITY BOARD OF DIRECTOR'S DISCRETION

For each proposal submitted and recommended by the Committee the TMWA Board of Directors has absolute discretion to:

- Accept or reject any proposal;
- Accept a proposal on the condition that certain modifications be made;
- Assess proposals as they see fit, without in any way being obligated to select any proposal;
- Determine whether proposals satisfactorily meet the evaluation criteria set out in this RFP;
- Reject proposals with or without cause, whether based on the evaluation criteria set out above or otherwise.

PERFORMANCE GUIDELINES

To maintain eligibility to receive grant funds, each Charitable Beneficiary must comply at all times with the following requirements:

- Must be exempt from federal income taxation under Section 501(c)(3) of the Code;
- Shall use all Fund distributions toward projects that are appropriate and legal public expenditures;
- Must provide financial details and/or reports of their organizations upon request;
- Must submit quarterly reports.
- Must not use any Fund distributions for political contributions or political advocacy;
- Must either implement the projects, activities, and/or programs for which they received Fund distributions within six months of the date in which such distributions are received or by date(s) as agreed upon in the grant acceptance agreement, or must return all such distributions to the Community Foundation of Northern Nevada forthwith;
- Must provide the Community Foundation of Northern Nevada a report detailing the completion of their projects, activities, and/or programs; and
- Must sign an agreement regarding their compliance with the qualifications hereof.

Project Evaluation Criteria

EVALUATION CRITERIA

Applications are evaluated according to the following criteria and in order of priority. If the grant applicant does not meet the “Grantee Requirements”, the application will not be considered.

1. RELEVANCE OF PROPOSAL TO THE TRF PROGRAM

- Address TRF grant priorities – Does the project address at least one of the TRF grant priorities, as described at the beginning of the RFP?
- Meet multiple objectives – Does the project meet multiple grant priorities?
- Public benefit of the project – Does the project help TMWA protect its sources of drinking water?
- Benefit to TMWA customers – Is there a direct benefit to TMWA customers?
- Project location – Is the project located upstream of one of TMWA’s water treatment plants?

2. QUALITY OF PROJECT DESIGN

- Appropriateness of selected project methods – Do the proposed project strategies make sense to address the watershed and/or water quality concern(s) outlined by the applicant?
- Thoroughness of project design – Is the project design adequately detailed to ensure the desired outcome(s)?
- Sustainability of project – Will the benefits of the project continue after the grant funds are expended?
- Project longevity – If ongoing operation & maintenance (O&M) is required to maintain benefits, is it funded?
- Consideration of existing research – Does the project consider existing research, planning efforts, or assessments related to the Truckee River watershed?

3. MEASURABILITY OF PROJECT SUCCESS

- Identification of project benchmarks or milestones – Has the applicant described the steps necessary to complete the project?
- Demonstrated ability to measure the results of the project – Does the project have adequate measurable outcomes to evaluate project success?
- Benefits expected from a successful project – Are there clear goals that will be obtained on project completion?
- Readiness to begin project – Is the grant applicant ready to undertake and complete the project?

4. EFFECTIVENESS OF ORGANIZATION

- Qualifications of applicant for the proposed project – Does the applicant have adequate experience and credentials to perform the work described in the application?
- Collaborative efforts – Are there partner organizations supporting or benefiting from the project?
- Demonstrated ability of applicant to manage and complete the project – Has the applicant successfully completed projects similar to the one proposed? If previously funded by TRF, has the applicant met performance requirements and completed projects successfully?

5. ADEQUACY OF PROPOSED BUDGET

- Availability and status of matching funds – Does the project provide a minimum of 25 percent match in cash and/or in-kind services? If the project is downstream of the USGS Vista gage, is the 25 percent match requirement met using cash match?
- Total project cost relative to benefits – Is the project cost reasonable given the expected project outcome(s)?
- Appropriateness of budget – Are the costs presented in the budget adequately detailed and do they seem reasonable? Is the project under the 25 percent indirect/overhead expense limit?

Organization Information

Organization Name*

Great Basin Outdoor School

Organization Type*

501(c)(3) Nonprofit

EIN

If the organization is a 501c3, please include the EIN#.

88-0396516

Director of Organization*

Emily Baldwin

Project Contact Name*

Derik Knak

Project Contact Postion/Title*

Development Coordinator/Lead Naturalist

Project Contact Email*

development@greatbasin-os.org

Project Contact Phone Number*

(530) 949-4975

Organization Mission*

To ignite children's passion for learning and foster cooperation, respect, and responsibility through hands-on discovery in the outdoor classroom.

Project Information

Project Title*

Name of Project.

TRF #288 Youth Watershed Education and Protection Projects

Amount Requested*

\$9,279.60

Project Start Date*

03/19/2024

Project End Date*

07/26/2024

This funding will be used to:*

Complete this sentence with a max of 2 sentences.

Funding from the Truckee River Fund will support organizing Tahoe Truckee Snapshot Day event with a Reno-Sparks school and advancing critical watershed education to elementary-aged students at Spring & Summer Adventure Day Camps, encompassing eight weeks of programs.

This project is on:*

Check all that apply

Public land

Private land

Are government permits or decision documents needed for the project?*

No

If so, are those permits and decision documents already secured?

If permits and decision documents are needed but not yet secured, in #4 of the Narrative Requirements provide a list of permits and documents needed and a schedule for securing them.

No

Previous Funding from Truckee River Fund

Has your organization received other grants from the Truckee River Fund?*

Yes

If yes, please include the following information for all previously funded projects:

- *Date awarded*
- *Project # and Title*
- *Amount of award*

Please attach additional pages as needed to list ALL previously funded projects.

March 2023, TRF #270, "Youth Watershed Education and Protection Projects," \$10,411.00
July 2021, TRF #249, "Lower Truckee Snapshot Day, Spring & Summer Day Camp Watershed Education Initiative," \$11,896.06

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.

E. Other projects that meet the evaluation criteria.

E.)

Narrative Requirements

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

All projects are required to have measurable outcomes.

With funding support from the Truckee River Fund, Great Basin Outdoor School will enlist volunteers to host water sampling and activities with a local area school as a part of the Lake Tahoe-Truckee River Snapshot Day consortium. For years, the organization has participated in Snapshot Day, contributing stream-water data and water-sampling results while bringing the citizen science opportunity to school groups. Snapshot Day events held by Great Basin Outdoor School support the organization's focus on delivering hands-on education in pristine, outdoor sites, even on school campuses. The organization will recruit Academy of Arts, Careers, and Technology (AACT) environmental science high school students and current volunteers to assist in planning and ensuring proper safety outcomes at the event. Great Basin Outdoor School will host one sampling site and reach a total of 40 Mountain View Montessori School students through Snapshot Day participation. After sampling and recording, the organization will submit collected data to be incorporated into the Tahoe Truckee Snapshot Day Annual Report.

In addition, support from the Truckee River Fund will contribute to delivering watershed education as emphasized in Great Basin Outdoor School's Spring and Summer Adventure Day Camps. The watershed component of Great Basin Outdoor School's curriculum promotes hands-on, standards-based learning in aquatic science by incorporating demonstrations, guest presentations, and stewardship projects. To further this goal, the organization will reach about 240 students across Spring and Summer Adventure Day Camps. Each student will be engaged for 25 hours per week of outdoor contact time at the River School Farm and nearby trails for a total of 6,000 program contact hours. Learning outcomes based on curricular expectations will be tracked by pre- and post-survey assessments to be administered by naturalist educators. Education directorial staff will track overall program assessment data and include results in Truckee River Fund grant reporting with at least 75% of students showing a knowledge gain and identifying point or non-point sources and two ways to protect their watershed.

2.) Describe the project location.*

Include site map and aerial photos if applicable/possible as an attachment.

The Tahoe Truckee Snapshot Day water sampling event hosted by Great Basin Outdoor School will be held on the campus of Mountain View Montessori School, where the organization will station staff and volunteers for water sampling and testing activities. The site chosen for the event is adjacent to Whites Creek, a major tributary and component of the Truckee River watershed, according to surface water data collected by the Environmental Protection Agency Office of Water's Watershed Assessment, Tracking & Environmental Results System (WATERS). Priority sampling points will be determined based on downstream locations and areas of mixed-development land use to highlight anthropogenic causes of inadequate water quality and means of improvement.

Spring and summer programs emphasizing watershed education and protection will occur at the River School Farm and Mayberry Park, both located in Reno. Both sites provide direct access to the Truckee River

streambank and offer convenient locations for the delivery of watershed education incorporated into the day camp program curriculum.

3.) Project Description*

GBOS 2024 TRF Map, Photos, Letter of Support.pdf

Since 1998, Great Basin Outdoor School engaged thousands of students through hands-on, experiential learning in the outdoor classroom as an alternative to the sedentary conditions of traditional classroom pedagogy. While most of the organization's programs are held in pristine outdoor sites across northern Nevada, Great Basin Outdoor School reaches schoolchildren through special events, such as Tahoe Truckee Snapshot Day. Tahoe Truckee Snapshot Day is a once-a-year opportunity for the organization to host and deliver water education to a local school group. Great Basin Outdoor School is planning to host this year's event with Mountain View Montessori School, a PreK-8 school located adjacent to Whites Creek in southwest Reno, and exhibiting sustainable practices on campus, including greenhouse and compost programs. Whites Creek is a second-order tributary of the Truckee River that originates in the Mount Rose Wilderness Area and drains into Steamboat Creek in south Reno, passing through extensive residential and commercial developments in its 11-mile length. During the event, naturalist educators and volunteers will lead water sampling tests and activities related to hydrological themes, including dip netting for macroinvertebrates in Whites Creek.

During school breaks, Great Basin Outdoor School hosts week-long day camp programs at Reno's River School Farm to provide an active, educational environment and combat learning loss while school is not in session. The River School Farm is a sustainable farm and interpretive garden located near Mayberry Park on the Truckee River, providing easy access to the streambank for water ecology lessons and demonstrations. Naturalist educators will deliver content and lead students through engaging activities and lessons that pertain to critical water education and the Truckee River watershed. The organization will utilize the Project Water Education Today (WET) curriculum to inform lessons and activities for elementary-aged students. Great Basin Outdoor School will collaborate with the City of Reno's Utility Services Department to feature guest presenters specializing in stormwater management and pollution. Students will use aquatic dip nets to discover benthic macroinvertebrates in the Truckee River. Benthic macro invertebrates or benthos are bottom-dwelling animals that can be seen without a microscope and are bioindicators of aquatic conditions. Naturalists will lead students in stewardship projects by cleaning up trash near the streambank of the Truckee River and auditing collected litter. By constructing watershed models from tarps, students will visualize the topographic direction of watersheds and the flow of water. Students will learn about the Truckee River watershed and gain a sense of place as future stewards and stakeholders of this critical natural resource, while indicating knowledge gain of both point and non-point source pollution and practical ways to protect the Truckee River watershed.

4.) Grant priorities*

Explain how the proposed project advances the TRF's specific grant priorities.

The project requesting support is aligned with the Truckee River Fund's grant priority promoting sustainability and environmental awareness. Funding support from Truckee River Fund will allow Great Basin Outdoor School to organize community service efforts and host participants for water sampling and data collection activities as stakeholders of Tahoe Truckee Snapshot Day taking place in May 2024. Participating in Tahoe Truckee Snapshot Day as a host organization will advance citizen science opportunities for students and educators, in addition to monitoring the ecological health of the Truckee River watershed. Students will learn relevant topics in watershed management and stewardship, realize their roles as stewards and future stakeholders, and apply these lessons toward sustainable decisions and choices. Furthermore, participation will allow Great Basin Outdoor School to leverage community support toward water

conservancy and quality improvement efforts as it applies to the consortium's findings and recommendations.

Support will be applied to implementing water education and protection projects during spring and summer school break day camps. Both camps incorporate activities and deliverable content promoted by the initiative, including aquatic science demonstrations, field studies, and guest presentations exploring hydrology and water management. Students will demonstrate knowledge gain of point and non-point source pollution in bodies of water and the impact of pollution affecting the Truckee River watershed. Additionally, students will learn about the physical geography and flow of water by constructing watershed models with topographic features. By participating in activities led by naturalist educators, including aquatic science demonstrations and trash clean-ups along the Truckee River streambank in Mayberry Park, students will become active learners and problem solvers of critical ecological issues and their practical solutions. Lessons gained from the school break day camp experience will influence future stewardship behaviors and lifestyles. These educational opportunities will yield a greater understanding of human-caused alterations to watersheds and issues faced by the regional hydrosphere.

5.) Permitting*

Provide a permitting schedule for your project along with your plan for getting the required permits and decision documents. Be sure to include the cost of permitting/decision documents as a line item in your budget.

All activities to be implemented during Tahoe Truckee Snapshot Day and school break day camps will not require local or federal permitting.

6.) Future Land Use*

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

There are no foreseeable zoning, land use, or development plans that would impact the implementation of the Tahoe Truckee Snapshot Day or the delivery of watershed education and protection projects during school break day camps.

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

All activities and programs requesting support from Truckee River Fund will be held on a recurring annual basis with funding support from the Nevada State Parks – Recreational Trails Program and Nevada Division of Environmental Protection. There are no future phases associated with the project requesting support to be anticipated for Tahoe Truckee Snapshot Day event or delivery of watershed education that will occur during spring and summer school break day camps in the current year, 2024. Great Basin Outdoor School will incorporate watershed education and protection projects in year-round programming.

8.) Identify the principals involved in leading or coordinating the project or activity.*

Great Basin Outdoor School Development Coordinator and Lead Naturalist, Derik Knak, will be responsible for leading and coordinating the 2024 Tahoe Truckee Snapshot Day event with assistance from board president, Sue Jacox and City of Sparks environmental control supervisor, Cody McDougall. The project

principal will be responsible for recruiting and managing volunteers to assist in hosting the water sampling event, in addition to coordinating with Washoe County School District and Mountain View Montessori School staff.

Great Basin Outdoor School Executive Director Emily Baldwin will be responsible for leading educator staff training and managing school break day camps. Emily brings two years of experience teaching and managing the organization's educational programs, and participates in the Community Foundation of Northern Nevada's Nonprofit Leadership Academy to manage learning expectations and meet grant deliverables.

9.) Number of staff positions involved in project.*

Identify how many staff will be full-time and how many will be 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.

One full-time program facilitator and two part-time seasonal naturalist educators to host Tahoe Truckee Snapshot Day. Delivery of watershed education at school break camps will involve one full-time director and three full-time seasonal educators.

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

Snapshot Day event will recruit ten volunteers at various sampling sites for 20 volunteer hours. School break day camps will recruit one water-themed guest presenter each week for eight weeks for 40 hours. Low-end total estimate of 60 hours.

11.) Timeline 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.

***Note: Funding will not be provided for work performed prior to grant approval.*

March 2024: Volunteer recruitment and coordination

March 19-21 2024: Spring Adventure Day Camp training encompassing watershed instruction

March 25-29, April 1-5, 2024: Spring Adventure Day Camp

April TBD 2024: Instrument calibration and personnel trainings for Tahoe Truckee Snapshot Day

April TBD 2024: Site leader and stakeholder trainings for Tahoe Truckee Snapshot Day

May 17, 2024: Tahoe Truckee Snapshot Day event at Mountain View Montessori School

June 3-7, 2024: Summer Adventure Day Camp trainings encompassing watershed education and protection projects

June 10-14, 17-21, 24-28, July 8-12, 15-19, 22-26, 2024: Summer Adventure Day Camp

12.) What factors will indicate a successful project?*

Great Basin Outdoor School will determine overall project success through its experience as an educational non-profit organization emphasizing hands-on, real-world learning and involvement in both Tahoe Truckee Snapshot Day and delivery of watershed education in school break camps. The organization participated in the 2021 and 2023 Tahoe Truckee Snapshot Day events and seeks to continue engaging school groups in

Reno-Sparks to partake in the annual citizen science opportunity. These events rely on volunteer recruitment and coordination to promote a safe learning environment. In addition, Great Basin Outdoor School hosted 198 students during spring and summer break day camps in 2023, with an anticipated reach of about 240 students for spring and summer day camp programs. Students will indicate knowledge gain of watershed education concepts and topics by completing pre- and post-program assessments administered by naturalist educators and tracked by educational leadership staff. The indispensable benefits of immersive outdoor learning will be reflected by the stewardship principles and behaviors that participants will apply in their lives after the program.

The principal staff member acting as the project facilitator, Derik Knak, is experienced in planning and hosting events with school groups including the 2023 Tahoe Truckee Snapshot Day event with two Mountain View Montessori School fifth-grade classes, in addition to qualitative water data collection and education. He will undergo calibration and personnel training hosted by the City of Sparks Environmental Control Section to successfully perform a variety of qualitative water tests and coordinate with other event stakeholders.

Since its incorporation in 1998 as northern Nevada's inaugural non-profit organization emphasizing outdoor education, Great Basin Outdoor School delivers high-quality watershed education and instruction through its programs in the Reno-Tahoe area. To maintain this distinction, the organization employs naturalist educators with extensive backgrounds in the natural or ecological sciences to deliver instructional content.

13.) Collaboration*

List partnerships or collaborations with other entities in relation to your proposal, if any. Grantees are encouraged to seek other funds prior to requesting money from the Truckee River Fund. Please explain what other funding opportunities were sought and if any other funds have been awarded.

The dual initiatives requesting support will both occur within the Truckee River watershed. Great Basin Outdoor School seeks to join the Tahoe Truckee Snapshot Day consortium, in turn promoting the event's mission to provide real-time qualitative data on the Truckee River's ecological health and amplifying the initiative to local students. The organization is proud to include school groups in past and future Snapshot Day events. Other stakeholders of the Tahoe Truckee Snapshot Day consortium include the Truckee River Watershed Council, Tahoe Regional Planning Agency, Nevada Division of Environmental Protection, and the Pyramid Lake Paiute Tribe.

Great Basin Outdoor School will feature guest presenters with varied or esteemed backgrounds in water education and management to volunteer during spring and summer break day camps. The organization will coordinate with Keep Truckee Meadows Beautiful, City of Reno Utility Services Department, and Nevada System of Higher Education faculty to schedule presentations emphasizing hydrology and watershed management. Educational programs are coordinated with long-standing partners of the organization, including the River School Farm to host students for school break day camps and introduce opportunities for volunteer stewardship and immersive learning experiences. School break day camps will directly benefit from the site location adjacent to the Truckee River streambank in Mayberry Park. The organization requests and receives funding support from the Nevada State Parks – Recreational Trails Program and Nevada Division of Environmental Protection towards its school break day camp programs.

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.

For grant requests for projects downstream of the Vista USGS gage, the 25 percent match requirement must be met using **cash match**.

Total grant match to be provided.*

\$7,159.50

Cash

\$7,159.50

For the cash portion, is the funding already being held by the applicant for this project?

No

In-kind

***Note: Provide an itemized breakdown of volunteer match in your budget with rationale.*

\$0.00

Description of matching funds/in-kind donations.*

Great Basin Outdoor School will match funds through costs of labor covered by the organization's enrollment fees collected during year-round programs.

Attachments

Nonprofits must 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

****Please submit as one PDF document**

GBOS 2024 TRF Financial Attachments.pdf

Governmental entities must submit:

- Departmental budget in lieu of audited financial statements

Project Budget*

*Provide detail on each line-item expenditures and show which funds are committed and which have been requested to be paid for by the Truckee River Fund grant, and which will be paid for with in-kind services. Other sources of funding should be provided. Explain status of other funding if not in hand. If project is to be implemented in phases, please separate budget into each phase. **Please contact Lauren Renda at Irenda@nevadafund.org for a sample budget template.***

****Notes:**

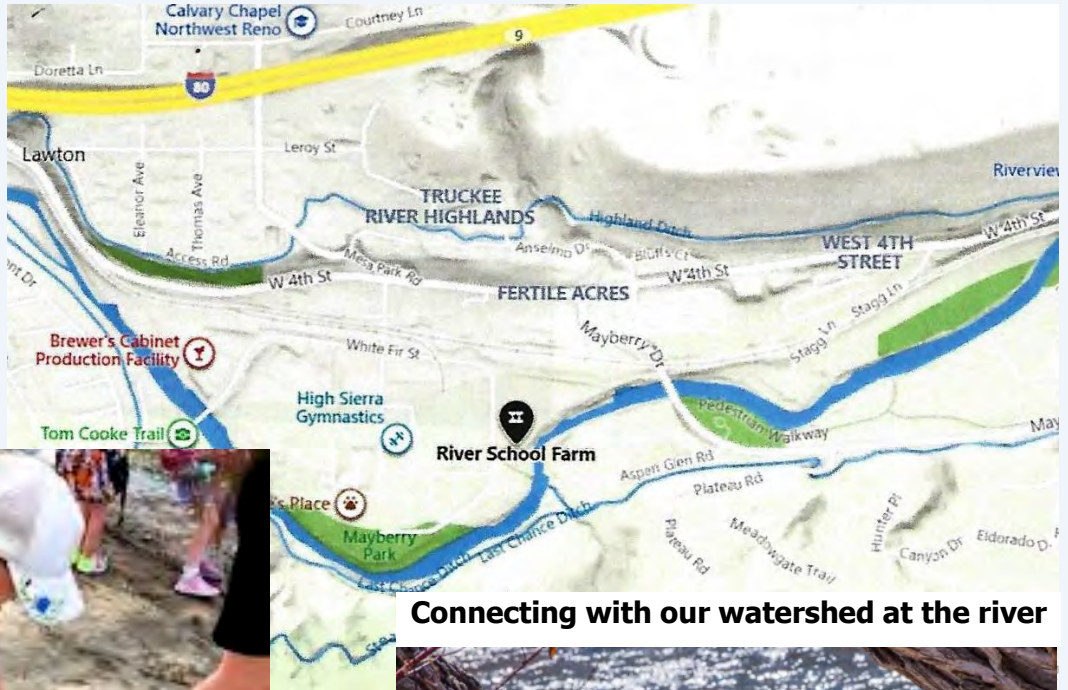
- *Indirect/overhead expenses cannot exceed 25 percent; TRF may fund indirect/overhead up to 25% based on availability of funds.*
- *Applicants should be prepared to provide reduced budgets during the review of applications by the TRF Advisory Committee when funds are limited.*
- *Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.*

GBOS 2024 TRF Budget.pdf

DAY PROGRAM STUDY SITES: River School Farm & Galena Creek



Summer day camp students collect litter along the Truckee River.



Connecting with our watershed at the river



Students from a very low-income Sparks school collect and identify aquatic macroinvertebrates for bioassessment of water quality in Marilyn's Pond at Galena Creek.



Galena Creek Regional Park





**Great Basin Outdoor School
“Youth Watershed Education & Protection Projects”
Truckee River Fund Proposal 2024
Snapshot Day & Spring & Summer Break Day Camp
on the Truckee River and tributaries**



Students learn about our Truckee River watershed and protecting it at Snapshot Day and during spring and summer day camp on the Truckee River and tributaries.



UNR’s Dr. Zeb Hogan of “Monster Fish” fame discusses aquatic habitats.



Students collect litter and learn from guest presenters and from our educators.





August 24, 2023

To whom it may concern

For the past few years, the Great Basin Outdoor School has held summer, autumn and winter camps here at the River School Farm. During that time, we observed a caring and knowledgeable staff work with the children who attended the camps. We always enjoyed the professional way the programs have been administered.

The River School Farm is an ideal location for teaching about our natural environment. Our farming operation includes a composting facility, farm animals, fruit trees, grape vines, herbs, a productive worm bed, and vegetables. Our location along the Truckee River provides opportunities to learn about our water shed, riparian vegetation, and river wildlife. Our facilities include many sustainable elements including both PV and solar thermal, using recycled materials, and collecting rainwater. Our grounds include a wide range of flowering plants that provide native and honeybee pollinators nectar and pollen.

GBOS and River School Farm have been strong partners. We look forward to many more years of providing a quality program for children in a beautiful place.

We think this would be an excellent venue to introduce low-income children to the wonders of nature.

Best regards,

A handwritten signature in blue ink that reads "I. Stille". The signature is written in a cursive style.

Tom and Iris Stille
Owner of River School Farm



Great Basin Outdoor School

“Hands-on Discovery in the Outdoor Classroom”

Great Basin Outdoor School Board of Directors

SUE JACOX, President
Washoe County School District Educator, retired
775-250-1894
suejacox@nvbell.net

CALEB S. JENSEN, CPA, Treasurer
Certified Public Accountant
775-328-1040
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LEILANI KONYSHEV
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907-242-3111
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PATTY MOEN
Environmental Scientist
775-849-8252
Pattymo32@gmail.com



Project Budget:

“Youth Watershed Education and Protection Projects”

Truckee River Fund, February 2024



Budget Narrative: The Truckee River Fund would support educator hours for Great Basin Outdoor School’s role in Snapshot Day in May, an annual water quality event, in which citizen scientists learn about our watershed through hands-on sampling and testing. Data collected informs restoration and water protection projects.

We also seek teaching staff support for our watershed education and projects for local youth along the Truckee River and at Galena Creek during spring and summer 2024. Match for educator time will come from other grants which have already been secured and from student program fees.

Budget Item Description	Calculation	Amount Requested from TRF	Match	Total
Truckee River Snapshot Day Labor Costs: educator hours spent planning, preparing, training, hosting, and wrapping up.	Lead Naturalist \$170/day x 6 days for prep, event, and wrap-up	\$1,020.00		\$1,020.00
	2 Naturalists \$130/day x half-day event	\$130.00		\$130.00
25% of Educator Labor Costs for School Break Spring and Summer Day Camps on the Truckee River for Watershed Education & Projects	Director \$200/day x 40 days x 25%	\$2,000.00	\$2,000.00	\$4,000.00
	+ Lead Naturalist \$170/day x 40 half-days x 25%	\$850.00	\$850.00	\$1,700.00
	+ 3 Naturalists 120/day x 40 days x 25%	\$3,600.00	\$3,600.00	\$7,200.00
Educator Labor Total		\$7,600.00	\$6,450.00	\$14,050.00
Fringe	11% for FICA, UI, Workers Comp, etc.	\$836.00	\$709.50	\$1,545.50
Subtotal		\$8,436.00	\$7,159.50	\$15,595.50
Indirect Expenses	10% x subtotal	\$843.60		\$1,559.55
TOTAL		\$9,279.60	\$7,159.50	\$17,155.05

TRF #289 Lower Truckee Trout Habitat Project

Truckee River Fund- Spring 2024

Trout Unlimited

Jessica Strickland
15695 Donner Pass Road
Suite 100
Truckee, CA 96161

O: 530-333-5125

Dan Johnson

15695 Donner Pass Road
Suite 100
Truckee, CA 96161

dan.johnson@tu.org
O: 530-333-5125

Application Form

Truckee River Fund Grant Priorities

Truckee Meadows Water Authority (TMWA) recommends that the Truckee River Fund (TRF) Advisory Committee (the "Committee") give preference to well-supported, clearly drafted grant requests that consider substantial benefits to TMWA customers for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby water treatment and hydroelectric plant intakes.

- **Aquatic Invasive Species (AIS):** Projects/Programs that support the prevention or control of aquatic invasive species in the mainstem Truckee River, Lake Tahoe, other tributaries and water bodies in the Truckee River system.
- **Watershed Improvements:** Projects that reduce erosion or sediment, suspended solids, or total dissolve solids (TDS) discharges, nutrients, industrial contaminants, or bacterial pollutants to the River. Projects or programs that are located within 303d (impaired waters) and total maximum daily load (TMDL) sections of the River should be considered, both in California and Nevada. Innovative techniques should be encouraged. The following link identifies impaired sections of the river and its tributaries: <https://mywaterway.epa.gov/>.
- **Local Stormwater Improvements:** Projects that demonstrably 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.
- **Re-Forestation and Re-Vegetation Projects:** Projects to restore forest and upland areas damaged by fire and historical logging operations, and to improve watershed 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.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** Projects to support water quality improvement in creeks and tributaries to the Truckee River.
- **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 that do not fall clearly into the one of the above-mentioned categories.

Notes:

- For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Northern Nevada for additional criteria at lrenda@nevadafund.org.
- For proposals in the Lake Tahoe Basin, the Truckee River Fund (TRF) typically only funds proposals related to Priority I and VI.

Grantee Requirements

GRANTEE REQUIREMENTS

To be eligible for funding, grantees must adhere to the following requirements:

- Funds are to be used and/or disbursed exclusively for the charitable uses and purposes.

- The Fund shall be used exclusively for projects that protect and enhance water quality or water resources of the Truckee River, or its watershed.
- Grantees may include 501(c)(3) organizations and governmental entities. Any grants to governmental entities must be made exclusively for public benefit purposes.
- All grantees will be required to sign a grant agreement stipulating their agreement to all applicable terms, conditions, and reporting requirements.
- Organizations or entities sponsoring proposals are prohibited from ex parte communications with members of the Committee regarding such proposals while those proposals are pending before the Committee, and such communications may be grounds for rejecting a proposal.
- 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.

TRUCKEE MEADOWS WATER AUTHORITY BOARD OF DIRECTOR'S DISCRETION

For each proposal submitted and recommended by the Committee the TMWA Board of Directors has absolute discretion to:

- Accept or reject any proposal;
- Accept a proposal on the condition that certain modifications be made;
- Assess proposals as they see fit, without in any way being obligated to select any proposal;
- Determine whether proposals satisfactorily meet the evaluation criteria set out in this RFP;
- Reject proposals with or without cause, whether based on the evaluation criteria set out above or otherwise.

PERFORMANCE GUIDELINES

To maintain eligibility to receive grant funds, each Charitable Beneficiary must comply at all times with the following requirements:

- Must be exempt from federal income taxation under Section 501(c)(3) of the Code;
- Shall use all Fund distributions toward projects that are appropriate and legal public expenditures;
- Must provide financial details and/or reports of their organizations upon request;
- Must submit quarterly reports.
- Must not use any Fund distributions for political contributions or political advocacy;
- Must either implement the projects, activities, and/or programs for which they received Fund distributions within six months of the date in which such distributions are received or by date(s) as agreed upon in the grant acceptance agreement, or must return all such distributions to the Community Foundation of Northern Nevada forthwith;
- Must provide the Community Foundation of Northern Nevada a report detailing the completion of their projects, activities, and/or programs; and
- Must sign an agreement regarding their compliance with the qualifications hereof.

Project Evaluation Criteria

EVALUATION CRITERIA

Applications are evaluated according to the following criteria and in order of priority. If the grant applicant does not meet the “Grantee Requirements”, the application will not be considered.

1. RELEVANCE OF PROPOSAL TO THE TRF PROGRAM

- Address TRF grant priorities – Does the project address at least one of the TRF grant priorities, as described at the beginning of the RFP?
- Meet multiple objectives – Does the project meet multiple grant priorities?
- Public benefit of the project – Does the project help TMWA protect its sources of drinking water?
- Benefit to TMWA customers – Is there a direct benefit to TMWA customers?
- Project location – Is the project located upstream of one of TMWA’s water treatment plants?

2. QUALITY OF PROJECT DESIGN

- Appropriateness of selected project methods – Do the proposed project strategies make sense to address the watershed and/or water quality concern(s) outlined by the applicant?
- Thoroughness of project design – Is the project design adequately detailed to ensure the desired outcome(s)?
- Sustainability of project – Will the benefits of the project continue after the grant funds are expended?
- Project longevity – If ongoing operation & maintenance (O&M) is required to maintain benefits, is it funded?
- Consideration of existing research – Does the project consider existing research, planning efforts, or assessments related to the Truckee River watershed?

3. MEASURABILITY OF PROJECT SUCCESS

- Identification of project benchmarks or milestones – Has the applicant described the steps necessary to complete the project?
- Demonstrated ability to measure the results of the project – Does the project have adequate measurable outcomes to evaluate project success?
- Benefits expected from a successful project – Are there clear goals that will be obtained on project completion?
- Readiness to begin project – Is the grant applicant ready to undertake and complete the project?

4. EFFECTIVENESS OF ORGANIZATION

- Qualifications of applicant for the proposed project – Does the applicant have adequate experience and credentials to perform the work described in the application?
- Collaborative efforts – Are there partner organizations supporting or benefiting from the project?
- Demonstrated ability of applicant to manage and complete the project – Has the applicant successfully completed projects similar to the one proposed? If previously funded by TRF, has the applicant met performance requirements and completed projects successfully?

5. ADEQUACY OF PROPOSED BUDGET

- Availability and status of matching funds – Does the project provide a minimum of 25 percent match in cash and/or in-kind services? If the project is downstream of the USGS Vista gage, is the 25 percent match requirement met using cash match?
- Total project cost relative to benefits – Is the project cost reasonable given the expected project outcome(s)?
- Appropriateness of budget – Are the costs presented in the budget adequately detailed and do they seem reasonable? Is the project under the 25 percent indirect/overhead expense limit?

Organization Information

Organization Name*

Trout Unlimited

Organization Type*

501(c)(3) Nonprofit

EIN

If the organization is a 501c3, please include the EIN#.

38-1612715

Director of Organization*

Jessica Strickland

Project Contact Name*

Dan Johnson

Project Contact Postion/Title*

Desert Terminal Lakes Coordinator

Project Contact Email*

dan.johnson@tu.org

Project Contact Phone Number*

530-333-5125

Organization Mission*

Trout Unlimited’s mission is to bring together diverse interests to care for and recover rivers and streams so our children can experience the joy of wild and native trout and salmon.

Project Information

Project Title*

Name of Project.

TRF #289 Lower Truckee Trout Habitat Project

Amount Requested*

\$49,477.47

Project Start Date*

07/01/2024

Project End Date*

12/01/2024

This funding will be used to:*

Complete this sentence with a max of 2 sentences.

implement construction of in-stream restoration at Crystal Peak Park in Verdi, NV.

This project is on:*

Check all that apply

Public land

Are government permits or decision documents needed for the project?*

Yes

If so, are those permits and decision documents already secured?

If permits and decision documents are needed but not yet secured, in #4 of the Narrative Requirements provide a list of permits and documents needed and a schedule for securing them.

No

Previous Funding from Truckee River Fund

Has your organization received other grants from the Truckee River Fund?*

No

If yes, please include the following information for all previously funded projects:

- *Date awarded*
- *Project # and Title*
- *Amount of award*

Please attach additional pages as needed to list ALL previously funded projects.

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.
- E. Other projects that meet the evaluation criteria.

A.)

Narrative Requirements

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

All projects are required to have measurable outcomes.

Goals

Restore and enhance degraded reaches of the Truckee River in Nevada to increase wild and native fish habitat and improve angling opportunities.

Boost community involvement and ownership of the Truckee River through on-the ground events and projects that involve our membership and partners.

Continue to develop partnerships between TU, state agencies, and non-profit organizations in creating a legacy of scientifically-sound aquatic habitat enhancement projects.

Improve knowledge of the condition of the Truckee River by contributing monitoring data to shared databases.

Objectives

Install at least 6 new in-stream habitat structures within the Truckee River urban corridor.

Collect data on baseline and post-construction conditions for project sites.

Two volunteer workdays that complement and advance the larger project.

Communicate to all stakeholders through multiple communications outlets (social media, blog posts, in-person and virtual presentations, etc.)

Host at least 2 formal meetings with land managers and agencies to collaboratively plan and implement the planning, permitting, construction, and monitoring phases of the project. Seek direct involvement in the project from stakeholders as opportunities present themselves.

2.) Describe the project location.*

Include site map and aerial photos if applicable/possible as an attachment.

The project area is located within Crystal Peak Park in Verdi, NV. Specific site reach is downstream of the 180 bridge within the park.

Note: The scope of the overall project consists of two sites, Crystal Peak Park and Lockwood Park. These are both reflected in the design document, but funding from the grant is requested for implementation of Crystal Peak Park only.

3.) Project Description*

2023 Lkwd Crystal Proposal-combined-compressed_1.pdf

Trout Unlimited has a long history of successful restoration projects on the Truckee River. Our habitat projects on the Truckee have led to improved stream resilience, increased fish presence, greater macroinvertebrate populations, and the resurgence of critical native vegetation within the system. While most of our work has been on the California side of this iconic river system, we are pleased to announce our intentions to restore a beloved and heavily used fishing access area in Nevada.

The Lower Truckee Trout Habitat Project builds on the success of similar projects implemented by Trout Unlimited on the Truckee River. Using the same construction techniques as were used at Glenshire and Horner's Corner, TU is planning on installing several "j-hook" habitat structures at Crystal Peak Park in Verdi. This project will provide much needed aquatic habitat that benefits wild and native trout in an area that has seen severe historic human manipulation, and it will help to protect banks from erosive processes.

Please see attached designs and narrative for detailed description of design philosophy and implementation techniques.

Note: The scope of the overall project consists of two sites, Crystal Peak Park and Lockwood Park. These are both reflected in the design document, but funding from the grant is requested for implementation of Crystal Peak Park only.

4.) Grant priorities*

Explain how the proposed project advances the TRF's specific grant priorities.

As with the entirety of the Truckee River, this site is listed as impaired under EPA 303(D). Crystal Peak is a heavily used access location for recreational angling, despite exhibiting degraded habitat conditions.

Increased temperature creates mortality in aquatic species by lowering the concentration of dissolved oxygen in the system. The proposed habitat features will create scour pools below the structure, increasing oxygenation and discouraging fine sediment deposition. In periods of low flow, this will serve to create cold water refugia for all aquatic species, increasing resilience throughout different flow regimes.

Most importantly, the rock vanes are designed to effectively shift the high-stress velocity gradients away from the bank and toward the center of the river channel. This serves to stabilize the bank and prevent excessive erosion below the vane. The design provides quality in-stream aquatic habitat and a cost-effective and low-maintenance bank stabilization approach when compared to other techniques such as placement of riprap and netting.

The Crystal Peak Park site is located upstream of both Chalk Bluff and Glendale TMWA water treatment plants. While not currently a section listed for turbidity impairments, the bank stabilization benefits of this project will prevent sediment input to downstream stretches including the two TMWA water treatment plants. With the project site located on public land within Washoe County parks, these efforts will increase the enjoyment of the area for anglers as well as the general public by increasing biodiversity and resilience of all wildlife that depend on the river. The increase of macroinvertebrates and fish will create more available food for birds and mammals, allowing the public more opportunities to engage with nature on this impacted stretch of the river.

5.) Permitting*

Provide a permitting schedule for your project along with your plan for getting the required permits and decision documents. Be sure to include the cost of permitting/decision documents as a line item in your budget.

Trout Unlimited is currently in the process of obtaining all necessary permits for construction. A pre-application meeting with all regulatory stakeholders has been conducted, and permits are anticipated to be granted in time for the construction timeline of fall 2024.

Trout Unlimited has contracted with Matt Setty and NVENV to advance the permitting process. NVENV has a proven history of securing permits for multiple in stream projects on the Truckee River.

CWA Section 404 – Nationwide # 27: Aquatic Habitat Enhancement (USACE-Regulatory Branch)

The USACE will issue a Nationwide 27, Aquatic Habitat Restoration authorization. A Nationwide Permit (NWP) is a standardized form of a 404 permit and will authorize the placement of fill material (boulders) with the federal jurisdiction (WOUS) of the Truckee River.

CWA 401 Water Quality Certification (NDEP Bureau of Water Quality Planning)

An NDEP issued 401 Water Quality certification is a request of any federal 404 action. Trout Unlimited and NVENV will submit and obtain this permit concurrent with the federal permitting.

Temporary Discharge Permit / Working-in-Waterway (NDEP - Bureau of Water Pollution Control)

A working-in-Waterways permit will be obtained concurrent with the CWA permits (NWP and 401). State jurisdiction extends to all areas below the top- of-bank of a Water of the State, i.e., Truckee River.

Section 408 (USACE Flood Control and Navigation)

NVENV anticipates that an Environmental Assessment will be required by the USACE along with a hydraulic impact assessment for the two reaches of the river impacted by the project. A single document will be developed to fulfill the submittal requirements and discussion of project impacts aligned with each of the two project reaches.

Carson Truckee Water Conservation District Letter to USACE in recommending project approval for Crystal Peak site

Trout Unlimited and NVENV will submit the required hydrologic and hydraulic analysis to CTWCD and USACE Navigation and Flood Control to obtain authorization to modify a public works flood control facility (i.e., Truckee River).

Nevada General Construction Permit NV-100000 (Stormwater Pollution Prevention Plan)

Required by the Environmental Protection Agency (EPA) under 40 CFR § 122.26(b)(14) work within ¼ mile of a regulated water requires compliance with the Nevada General Stormwater Permit (NVR100000). This is true for sites that are less than one acre in total size, due to the proximity of receiving water.

6.) Future Land Use*

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

None at this present time.

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

The scope of this grant application is for the final construction phase of the project for the Crystal Peak Park site. Additional construction funding for the Lockwood Park site will be solicited from private donors, as well as the NDOW Heritage Grant Program and the Patagonia Community Grant Program.

8.) Identify the principals involved in leading or coordinating the project or activity.*

Dan Johnson (TU)- Project manager
 Matt Setty (NVERN)- Permitting lead
 Streamwise Construction- Design and implementation
 Jessica Strickland (TU)- General oversight

9.) Number of staff positions involved in project.*

Identify how many staff will be full-time and how many will be 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.

Four part time roles are dedicated to the proposed project.

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

Volunteer workers will be utilized to plant native riparian vegetation in and around the project footprint. We anticipate two volunteer workdays, engaging around 60 community members in 240 hours of service total.

11.) Timeline 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.

***Note: Funding will not be provided for work performed prior to grant approval.*

Summer 2023 Construction designs have been secured.
 Winter 2023-2024 Permitting begins, pre application with regulatory agencies.
 Spring 2024 Permitting applications submitted.
 Summer 2024 Construction funding secured, permits secured.
 Fall 2024 Construction of restoration project.

12.) What factors will indicate a successful project?*

Outcomes

1. Meaningful increases in fish and macroinvertebrate populations between pre-construction and post construction surveys such as snorkel surveys, electrofishing, and the Surface Ambient Water Monitoring Program will be observed and shared with the public.
2. Increases in suitable aquatic habitat will be documented through scientific protocols such as Stream Condition Inventories and shared with the public.
3. Over 75 community members will be engaged and educated on the state of the Truckee River at project sites, fundamentals and benefits of river restoration, and Trout Unlimited’s mission.

4. Long term partnerships will be created with land managers and agencies, leading to increased collaboration and cooperation on future projects.

13.) Collaboration*

List partnerships or collaborations with other entities in relation to your proposal, if any. Grantees are encouraged to seek other funds prior to requesting money from the Truckee River Fund. Please explain what other funding opportunities were sought and if any other funds have been awarded.

Washoe County Parks- Land Manager
NDOW- initial site selection, potential funder
Sagebrush Chapter of TU- current funder
Pyramid Lake Paiute Tribe- TROAA signatory, stakeholder in Lahontan Cutthroat Trout recovery
Patagonia- Volunteer support and potential funder
Trout Unlimited has received funding totaling \$44,000 for planning and permitting from private donors and the Sagebrush Chapter of Trout Unlimited.

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.

For grant requests for projects downstream of the Vista USGS gage, the 25 percent match requirement must be met using **cash match**.

Total grant match to be provided.*

\$48,154.15

Cash

\$48,154.15

For the cash portion, is the funding already being held by the applicant for this project?

Yes

In-kind

****Note:** Provide an itemized breakdown of volunteer match in your budget with rationale.

Description of matching funds/in-kind donations.*

Matching funds provided through private donors and a grant from the Sagebrush Chapter of TU.

Attachments

Nonprofits must 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

****Please submit as one PDF document**

TU Financials & Board Info.pdf

Governmental entities must submit:

- Departmental budget in lieu of audited financial statements


Project Budget*

*Provide detail on each line-item expenditures and show which funds are committed and which have been requested to be paid for by the Truckee River Fund grant, and which will be paid for with in-kind services. Other sources of funding should be provided. Explain status of other funding if not in hand. If project is to be implemented in phases, please separate budget into each phase. **Please contact Lauren Renda at Irenda@nevadafund.org for a sample budget template.***

****Notes:**

- *Indirect/overhead expenses cannot exceed 25 percent; TRF may fund indirect/overhead up to 25% based on availability of funds.*
- *Applicants should be prepared to provide reduced budgets during the review of applications by the TRF Advisory Committee when funds are limited.*
- *Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.*

TRF Budget Trout Unlimited.pdf



Truckee River Habitat Enhancement Lockwood & Crystal Peak Park Sites 2023 Proposal

prepared for
Trout Unlimited, Project Proponent

January 19, 2023



STREAMWISE

Stream Assessment and Restoration

*Achieving restoration goals with natural
stream form, processes, and function.*

600 S. Mt. Shasta Blvd.
Mt. Shasta, CA 96067
(530) 941-6334
www.streamwise.com

Purpose: Provide a narrative to support the conceptual design plan for fishery habitat enhancements along the Truckee River at the Lockwood and Crystal Peak Park sites.

(Note: This narrative is intended to be coupled with a series of worksheets supporting conceptual design parameters at the two sites. References may be made within this document to diagrams, calculations, or specifications within those worksheets.)

Background:

StreamWise was contacted by Daniel Johnson of Trout Unlimited to assess two sites along the Truckee River for the possibility of fishery habitat enhancements similar to other projects in the region. Both sites under consideration are on the Nevada reach of the Truckee River.

In the past ten years actions have been taken to enhance the fishery habitat features along the Truckee River at many regional locations. The projects were designed to meet some or all of the following objectives:

- Provide in-stream holding habitat for native trout
- Stabilize the eroding vertical banks to allow for revegetation processes to succeed
- Utilize convergent flow velocity to create deep downstream scour pools
- Reduce the width to depth ratio to enhance habitat & reduce temperature gain
- Provide aesthetic in-stream features using natural rock materials
- Increase sinuosity in artificially straightened reaches
- Maintain channel capacity
- Provide a cost-effective means of achieving above objectives

StreamWise projects to implement designs that achieve some or all the above objectives have been completed at diverse locations from the upper sections of the Truckee near Palisades Resort to the lower Truckee reach upstream of the confluence with Pyramid Lake. Several restoration methodologies were incorporated, but three types of rock structures were the prominent features used to achieve project objectives. The three structures are the J-Hook Vane, the Cross-Vane, and the W-Weir. All design criteria follow specifications developed by Wildland Hydrology with attention to vane angle, slope, elevation, rock size, footing depth, and other details critical to the long-term stability and performance of the structures. These criteria are outlined within the Specifications Worksheets that accompany this report (*see Specifications Worksheets 6.0, 6.1, and 7.0*). Additional design parameters, calculations, diagrams, and structural specifications for construction can be found in a 2006 publication issued by Dave Rosgen, P.H., Ph.D., Wildland Hydrology. Cross-Vane, W-Weir, and J-Hook Vane Structures. Description, Design and Application for Stream Stabilization and River Restoration. (www.wildlandhydrology.com)

Most stakeholders consider past habitat enhancements at other sites along the Truckee to be beneficial to the habitat diversity, health, and function of the ecosystem. Periodic monitoring at several restoration sites documents good populations of native fish in the vicinity of the rock structures.

Crystal Peak Park - Historic Considerations:

According to the historic register, Verdi has been the site of intense logging and ice harvest activities following the 1850s gold rush. Both these enterprises were known to require impoundments along the Truckee for either mill operations or ice harvest. With such close proximity to the railroad, it is reasonable to assume past river alterations designed to facilitate commercial endeavors took place at the Crystal Peak Park reach. Most of the reach between I-80 and the Crystal Peak Road bridge exhibit the limited habitat diversity of several other known sites of historic impoundments.

Regardless of the precise historical activities that might have contributed to this condition, the reach under consideration for habitat enhancement is largely devoid of the large rock and boulders typical of much of the rest of the Truckee in this region. The regulated flow through the reach resulting from tributary reservoir storage limits the ability of the Truckee to provide sufficient flow volumes that might speed natural recovery through periodic flushing flows.

These factors combine to support actions to enhance the diversity of the reach. This report does not offer insight into historical activities, but seeks to provide solutions to the degraded habitat conditions along the 1000-foot reach under review.

Lockwood Reach - Historic Considerations: Research indicates that the Lockwood reach may have been impacted by factors other than ice and logging impoundments. It has been well-documented that in the 1950s and 1960s the U.S. Army Corps of Engineers developed flood-control projects along most of the Truckee from Tahoe City, through the City of Reno, and eastward toward Paiute Tribal property near Pyramid Lake. It is not known if this effort included stream channel alterations along the Lockwood reach, but the lack of habitat diversity along the 3000-foot reach would indicate past alterations play a role in the degraded nature of the ecosystem. As with the Crystal Peak Park site, it may not be necessary to pinpoint the precise combination of factors that contribute to the lack of in-stream habitat. It is our goal to examine measures that restore diversity to the river while maintaining natural aesthetics, stream form and function.

Lockwood - Current Conditions:

When comparing channel width at sites with adequate in-stream habitat to channel width within the degraded reach, it appears that the target reach averages approximately 20 feet wider than functional reaches (122.8' vs 142.5'). Additionally, the riverbed has little diversity of rock and boulder size classes that are more typical of other Truckee reaches.

Cross-sectional and longitudinal surveys were not conducted due to inclement weather and flow conditions, but will be completed in spring to support these visual observations. The stream morphology exhibits a wide, shallow cross-section that is not conducive to diverse aquatic biota. Potential causes for this are discussed in the Historical Considerations section above.

Conclusions from the initial assessment site visit indicate that the target reach at the Lockwood site is somewhat "sterile" from a habitat perspective. While far from the literal meaning of the word *sterile*, it is used as a comparative term for the reach based on

the more pristine nature of many Truckee reaches where diverse rock and boulder classes combine to create complex flow patterns, scour pools, riffles, runs, and pools.

Current Conditions (Crystal Peak Park Site):

As with the Lockwood site, the Truckee along Crystal Peak Park exhibits narrower widths within functional reaches when compared to a slightly over-widened channel condition for the reach under consideration for action (73.5' vs. 88.0').

Cross-sectional and longitudinal surveys were not conducted due to inclement conditions, but will be completed in spring to support these visual observations. The stream morphology exhibits a wide, shallow cross-section that is not conducive to diverse aquatic biota. Potential causes for this are discussed in the Historical Considerations section above.

As mentioned above, this reach also appears to be more “sterile” from a habitat perspective than surrounding river locations where a wide diversity of rock and boulder size classes create complex flow patterns and other habitat features.

Proposed Actions: (Lockwood and Crystal Peak Park) The similarities in the current degraded conditions of each site, the straight channel configuration and stable bank vegetation allow consideration of habitat enhancement design that does not alter the capacity of the channel, but adds diversity to the reach. Recommendations for design can therefore follow parallel patterns with minor adjustments for the variations at each location. For each site it is recommended that a series of alternating rock j-hook vanes be constructed to achieve the following objectives:

- Decrease the effective channel width to mimic functional conditions
- Increase mean velocity in the central channel thalweg
- Increase mean depth by increasing sediment transport capacity
- Increase channel sinuosity and diversify flow patterns
- Diversify in-stream fishery habitat features
- Improve holding areas for native trout in scour pools below vanes



Rock vane on Truckee River near Glenshire Drive. 2020

Design and specifications for construction of the boulder j-hook vanes comes from Wildland Hydrology in their 2006 publication CROSS-VANE, W-WEIR, and J-HOOK VANE STRUCTURES Description, Design, and Application for Stream Stabilization and River Restoration. StreamWise has constructed nearly 400 similar structures based on

these design criteria and has found the performance and stability of the method to be universal regardless of channel variations. Design criteria must take into consideration variables of meander length, channel width, radius of curvature, bed shear stress, etc. Once these criteria are applied to the design, the rock structures have proven to be highly effective to achieve the stated objectives.

Reach Specifics:

Since the proposed Lockwood structures are situated along a relatively straight reach



Straight reach with limited in-stream habitat. Jan 2023

without significant lateral erosion issues, it is recommended that five j-hook vanes be placed approximately 490-foot spacing intervals to achieve the stated habitat enhancement objectives (*see Specifications Worksheet 2.0*). At the Crystal Peak Park site five j-hook vanes are also recommended, although the spacing is reduced to 180 feet due to the smaller channel dimensions and situation along a gentle meander bend of the channel (*see Specifications Worksheet 2.1*). Additionally at each location, boulder clusters should be added between each vane to create further habitat diversity. These will be situated following vane construction to take advantage of flow patterns that create

scour pools around the boulders and prevent inundation of finer bed materials around the rocks. There is sufficient channel length to place additional j-hook vanes and boulder clusters along the Lockwood reach if such additional habitat is deemed to be beneficial and cost effective.

Sufficient rock for project construction was not found at either project vicinity, so delivery from regional commercial sources will need to be arranged. Staging areas to facilitate the project will be determined and approved prior to any mobilization of materials or machinery.

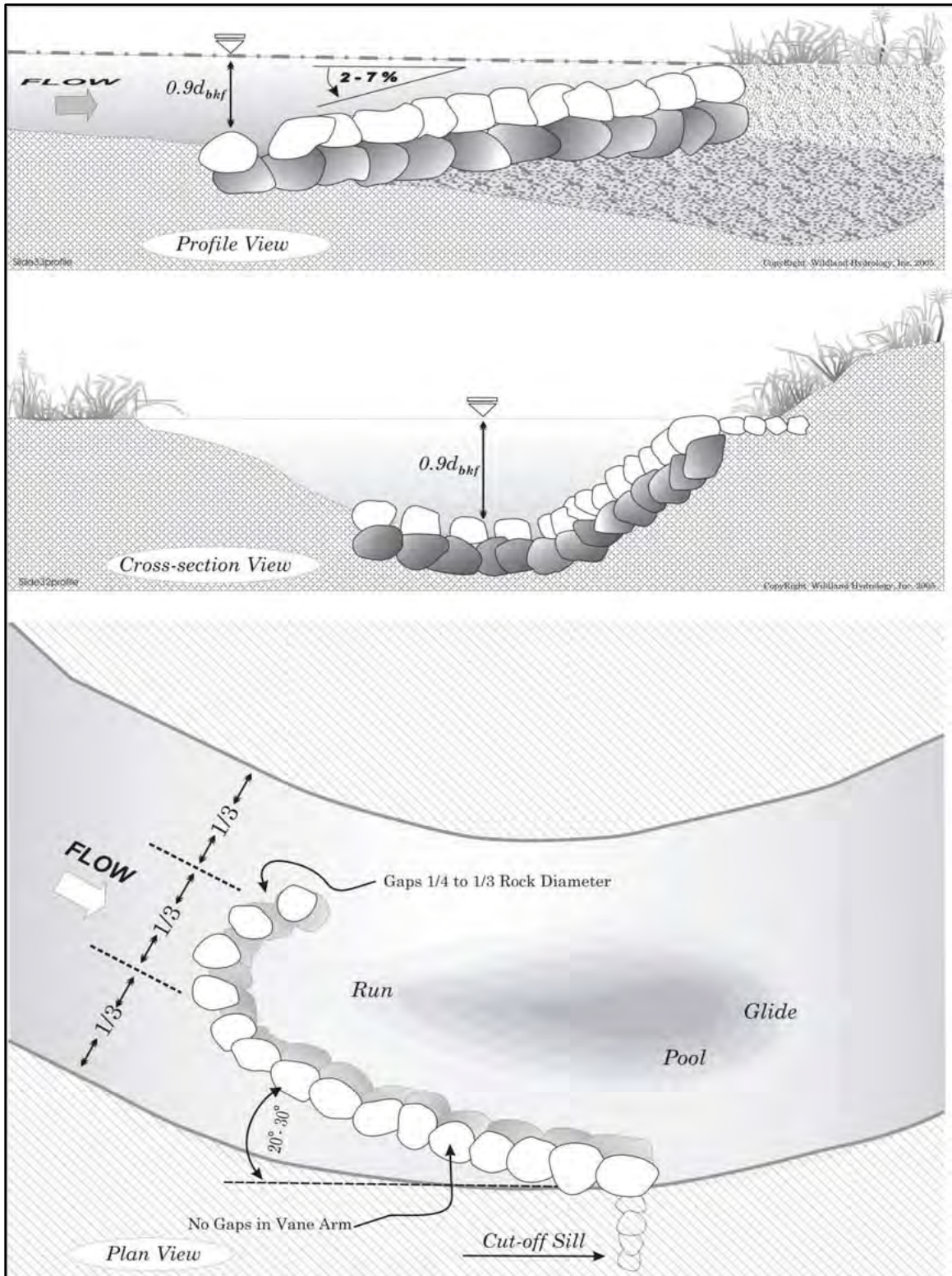
The specifications for each rock structure are included below and have been developed to maximize the bank protection value and in-stream habitat function. While spacing is dissimilar for the two sites, other specifications are the same.

The quantity of rock required for construction of a single j-hook vane varies greatly dependent upon depth of channel at each location. As the vane series must be set at an

elevation relative to the other vanes to work effectively in moving the high-velocity core away from exposed banks, there is little room for vertical adjustment to vane height. Deeper areas require significantly more rock to achieve the objectives. Each vane requires a minimum of 50 tons of rock, even when situated in shallow areas. Footing rock is critical to long-term stability to prevent scour from damaging the vane configuration. Deeper channel locations require 100 tons or more to properly construct. For estimation purposes an average figure of 82.7 tons per j-hook vane was used. (*For project total estimates see Specification Sheet 6.0.*)



J-Hook Vane on Truckee near Glenshire Drive. (Note convergent flow pattern.)



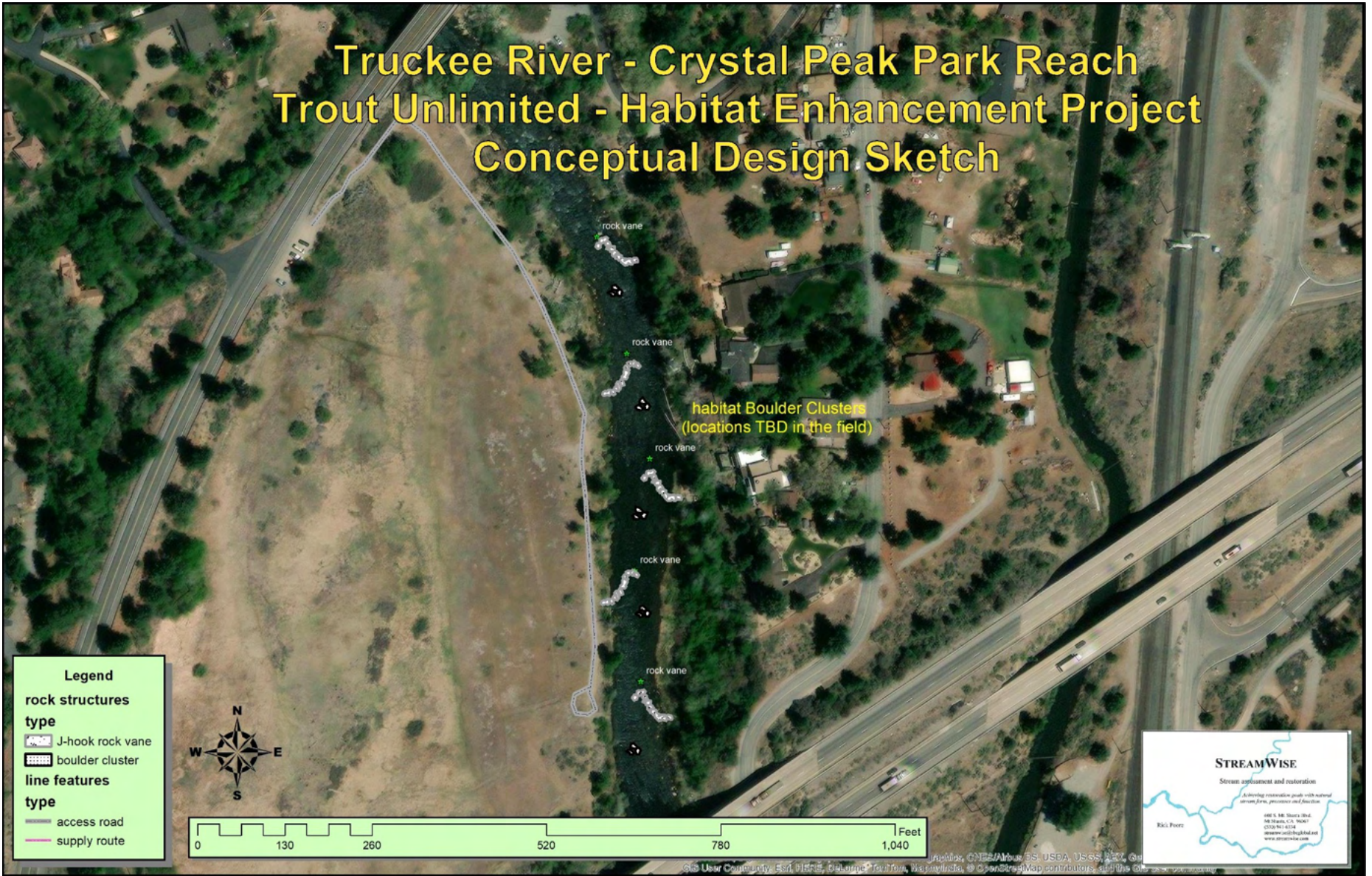
Rosgen J-Hook Vane diagram. (*CROSS-VANE, W-WEIR, and J-HOOK VANE STRUCTURES Description, Design and Application for Stream Stabilization and River Restoration. David L. Rosgen, P.H., Ph.D.*)

General J-Hook Vane Specifications	
rock size	2000 to 3000#
rock total - Lkwd	448 tons
rock total - CCP	438 tons
machinery	Cat 314E w/ thumb
bank angle	20-30 degrees
arm slope	2-7 degrees
step height	less than 12" elev. change
vortex spacing	minimal
crew	2 operators
native plantings	TBD by TU staff
construction	approx. 8 days (2 sites)



Series of j-hook vanes protecting RB along Pit River, Modoc County, CA

Truckee River - Crystal Peak Park Reach Trout Unlimited - Habitat Enhancement Project Conceptual Design Sketch

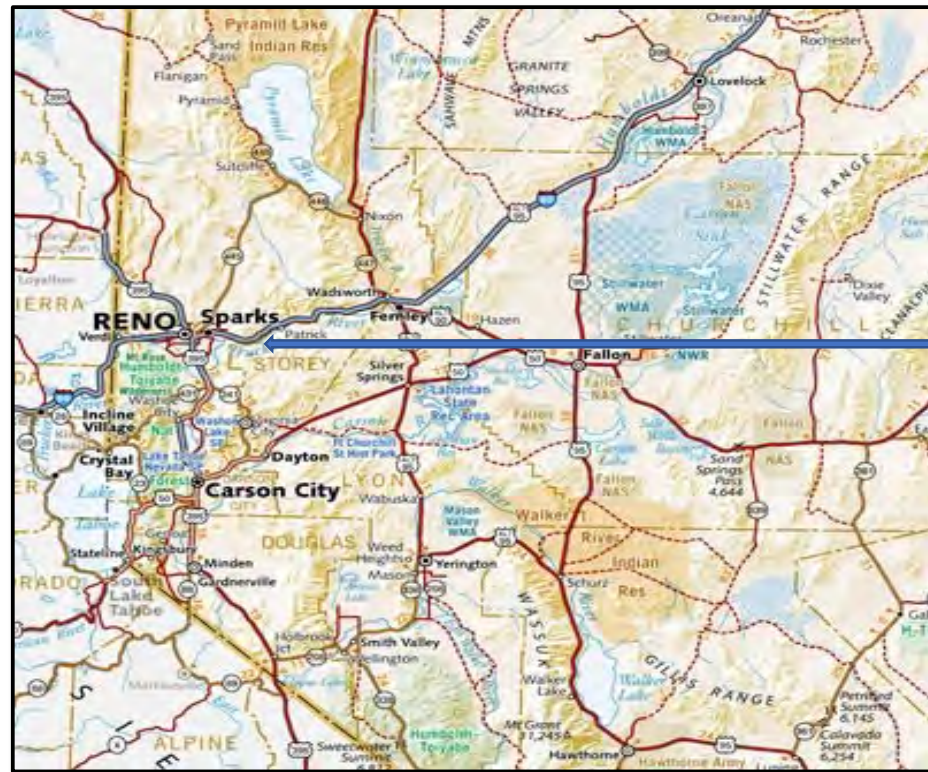


(See Specification sheet 2.1 for additional information.)

Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

PROJECT LOCATION - LOCKWOOD PROPERTY

LOCATION MAP



Lockwood Project Location

Project Location
39.50839330386482, -119.6615805529288



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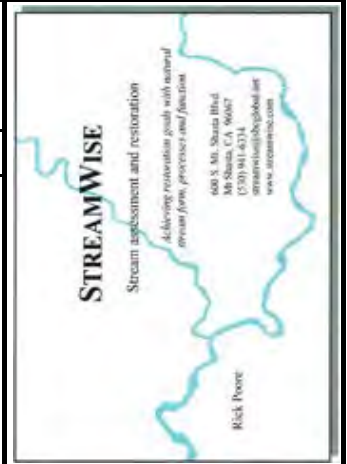
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SHEET	1.1	Project Location - Crystal Peak Park
SHEET	2.0	Plan-View Map - Lockwood
SHEET	2.1	Plan-View Map - Crystal Peak Park
SHEET	3.0	Longitudinal Profile Data & Chart
SHEET	4.0	Cross-Sectional Data & Chart
SHEET	5.0	Photo Points - Lockwood Site
SHEET	5.1	Photo Points - Crystal Peak Park Site
SHEET	5.2	Photo Points - Existing J-Hook Vane Projects
SHEET	6.0	J-Hook Specifications
SHEET	6.1	Boulder Sizing Specifications
SHEET	7.0	Typical J-Hook Vane Diagram



REVISION	BY	DATE
initial plans	DRP	1/9/2023

CONCEPTUAL PROJECT DESIGN

TRUCKEE RIVER HABITAT ENHANCEMENT

Washoe/Storie Counties, NV

Trout Unlimited - Project Proponent

PROJECT NUMBER
TRK- NV-2023-01

SCALE
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Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

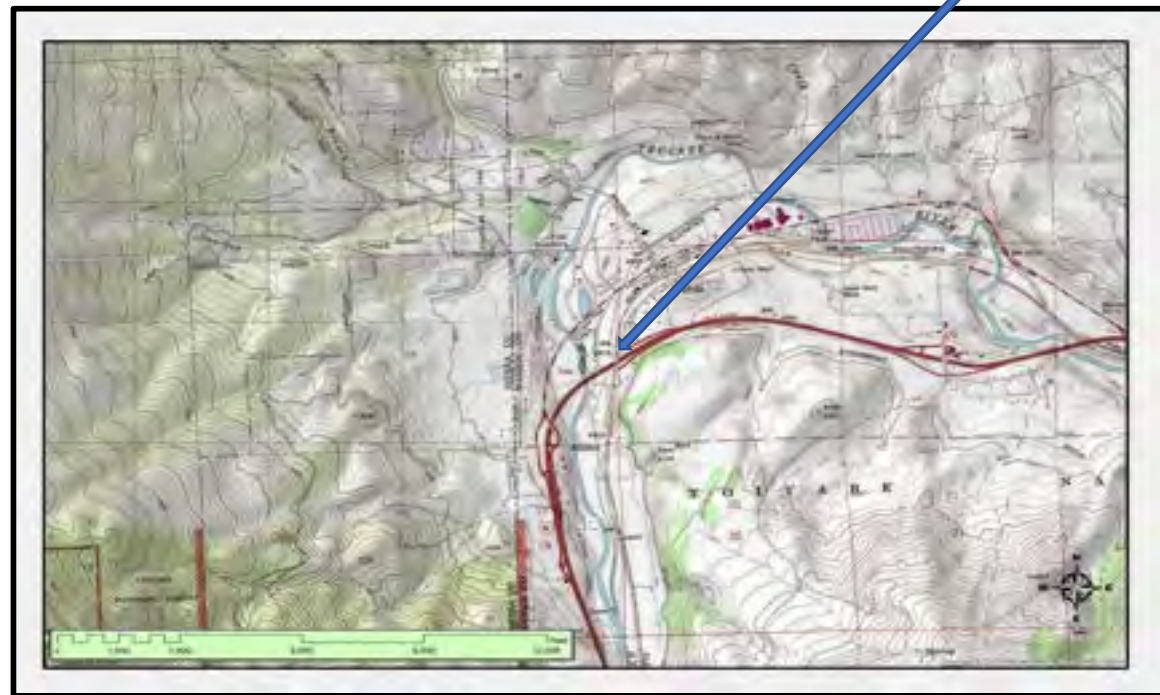
PROJECT LOCATION - CRYSTAL PEAK PARK

LOCATION MAP



Crystal Peak Park Project Location

Project Location
39.51151658870248, -119.99585093347248



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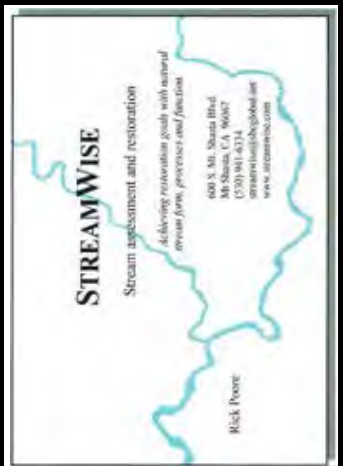
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Mt. Shasta, CA 96067
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website: www.streamwise.com
e-mail: streamwise@sbcglobal.net

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TRUCKEE RIVER HABITAT ENHANCEMENT
Washoe/Storie Counties, NV
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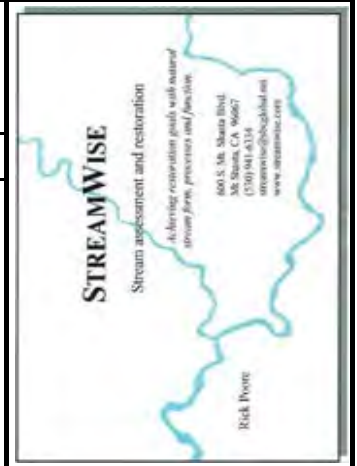
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Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

LOCKWOOD REACH PLAN VIEW MAP - ArcMap



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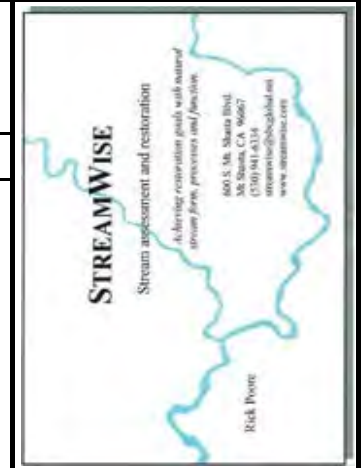
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Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

PLAN VIEW MAP - ArcMap



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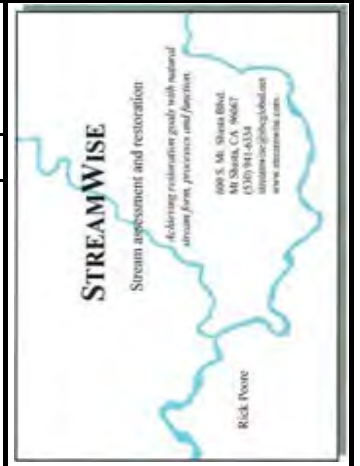
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Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

LONGITUDINAL PROFILE - THALWEG / WATER SURFACE / BANKFULL INDICATORS

Longitudinal field data collection TBD following peak flow events.



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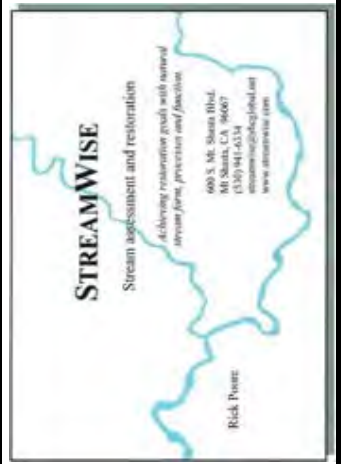
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Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

CROSS-SECTIONAL SURVEY - DATA SET & CHART

Cross-sectional field data collection TBD following peak flow events.



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CONCEPTUAL PROJECT DESIGN

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Washoe/Storie Counties, NV

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Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

PROJECT PHOTO POINTS - LOCKWOOD REACH



Near entrance. Moderate habitat diversity



Upstream with low habitat value



Wide, shallow channel morphology



Access trail



Relatively stable banks



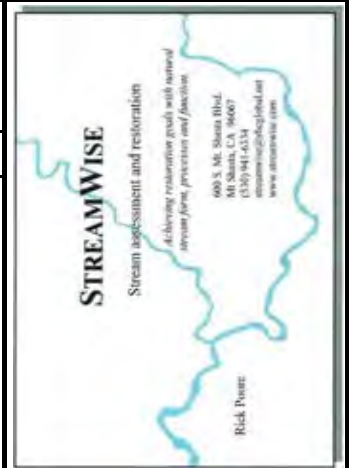
Overwidened reach



Historic rock wall undermined by flow.



Upper boundary with TNC rock structures



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TRUCKEE RIVER HABITAT ENHANCEMENT
Washoe/Storie Counties, NV
Trout Unlimited - Project Proponent

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Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

PROJECT PHOTO POINTS - CRYSTAL PEAK PARK REACH



Good habitat diversity - north reach (Downstream)



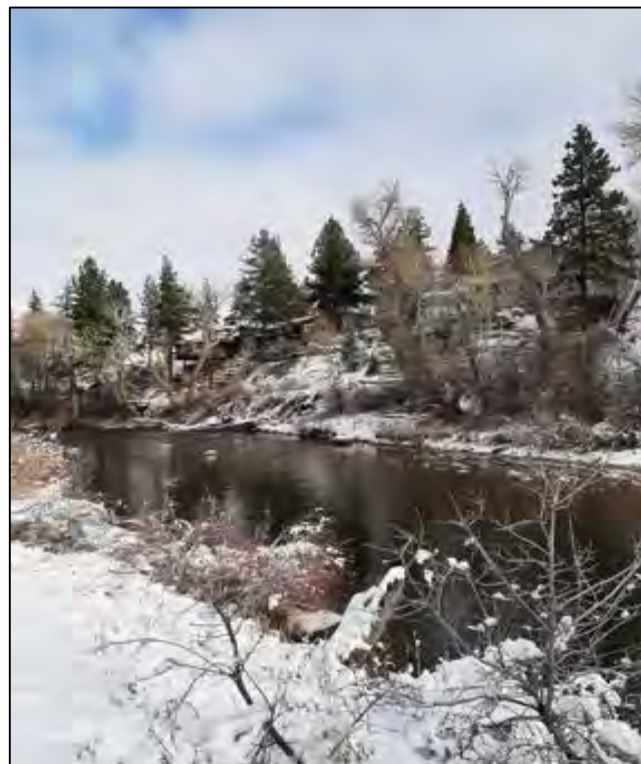
Moderate habitat value just upstream



Low habitat value central reach



CPP Historical marker



Low habitat value central reach



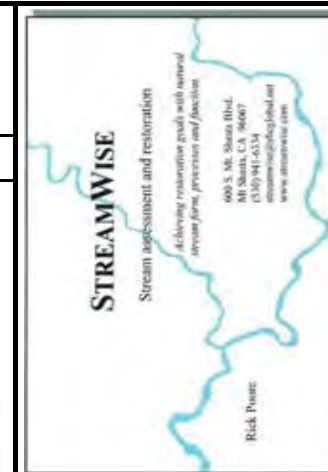
Low habitat value south reach (upstream)



CPP Entrance sign



Historic mill location at CPP



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CONCEPTUAL PROJECT DESIGN	TRUCKEE RIVER HABITAT ENHANCEMENT
	Washoe/Storie Counties, NV
	Trout Unlimited - Project Proponent

PROJECT NUMBER
TRK- NV-2023-01

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Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

PROJECT PHOTO POINTS - Typical J-Hook Vane Structures



J-Hook vane series along Pit River meander - Modoc County, CA



Pair of J-Hook Vanes along Truckee River



J-Hook Vane on Truckee River



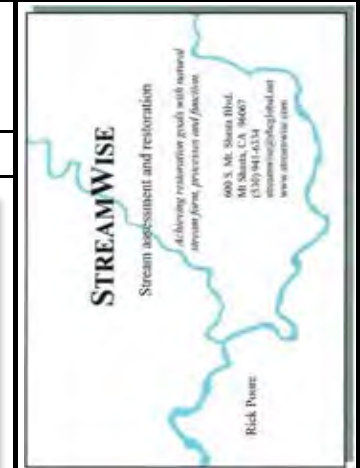
J-Hook Vane series following placement
Truckee River near Pyramid Lake



J-Hook Vane series following construction and willow planting
Truckee River near Pyramid Lake



J-Hook Vane in dry stream showing scour pool below



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1/11/2023	DRP	initial plans

CONCEPTUAL PROJECT DESIGN
TRUCKEE RIVER HABITAT ENHANCEMENT
Washoe/Storie Counties, NV
Trout Unlimited - Project Proponent

PROJECT NUMBER TRK- NV-2023-01
SCALE 1" =
SHEET 5.0

Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

PROJECT SPECIFICATIONS - J-Hook Vane

General J-Hook Vane Specifications	
rock size	2000 to 3000#
rock total - Lkwd	448 tons
rock total - CCP	438 tons
machinery	Cat 314E w/ thumb
bank angle	20-30 degrees
arm slope	2-7 degrees
step height	less than 12" elev. change
vortex spacing	minimal
crew	2 operators
native plantings	TBD by TU staff
construction	approx. 8 days (2 sites)

Truckee River at Lockwood, NV Site							
vane spacing calcs (Vs)							
variables	1	2	3	4	5	6	total avg
radius of curvature (Rc)	475	990	291	740	436	530	3462 577.0
bankfull width (W)	137	135	126	135	145	177	855 142.5
Rc/W	4.05						
Vs = ratio vane spacing / width	Vs ratio		Vs		25 degree		
20 degree Vs = -0.0057W + 2.5538	-0.0057	2.5538	1.74155	248.2	191.0		
30 degree Vs = -0.0089W + 2.2067	-0.0089	2.2067	0.93845	133.7			

Truckee River at Crystal Peak Park - Verdi, NV							
vane spacing calcs (Vs)							
variables	1	2	3	4	5	6	total avg
radius of curvature (Rc)	650	642	627	530	707	581	3737 622.8
bankfull width (W)	82.3	84.6	106.1	94.5	78.5	82	528 88
Rc/W	7.08						
Vs = ratio vane spacing / width	Vs ratio		Vs		25 degree		
20 degree Vs = -0.0057W + 2.5538	-0.0057	2.5538	2.0522	180.6	152.9		
30 degree Vs = -0.0089W + 2.2067	-0.0089	2.2067	1.4235	125.3			

Misc Notes	
1	All rock & bench materials to be staged in designated areas
2	Planting crew & materials to be supplied through TU
3	All plantings to be native riparian species common to site
4	Vane construction to be supervised by StreamWise
5	Rock materials source to be determined
6	All rock sized to prevent alteration to structure by flow or public usage
7	Approx. vane spacing based on bankfull width, radius of curvature, and meander length
8	Footing rock to be set for scour protection
9	Wheel loader to be used to supply boulders to excavator operator
10	In-stream cobble/gravel mix will be used to "seal" vane arms on upstream side
11	Landowner agreements & permits to be secured by TU prior to construction
12	Revegetation to follow construction sequence as soon as possible
13	Project construction to follow all permit requirements

CROSS-VANE DIAGRAM & SPECIFICATIONS

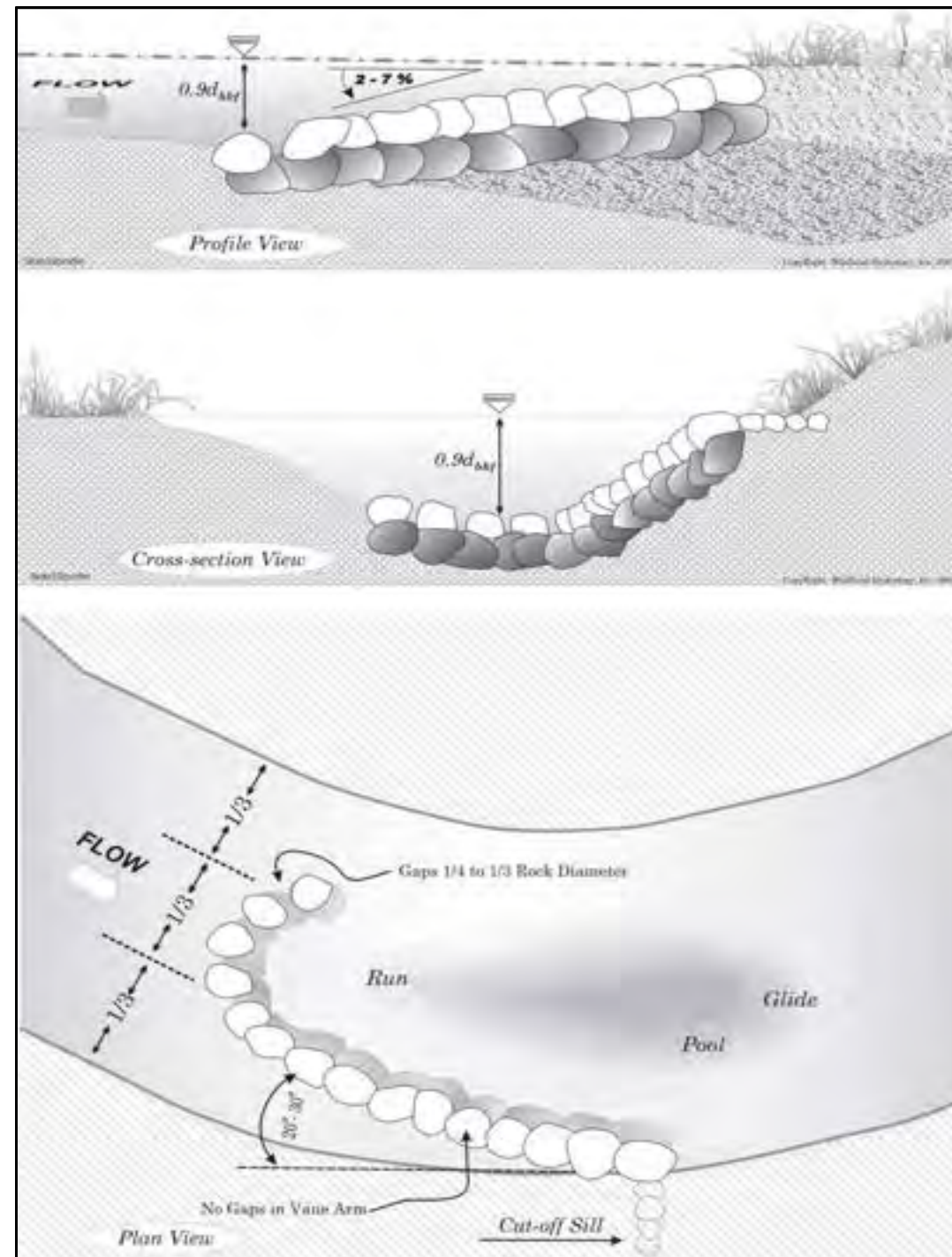
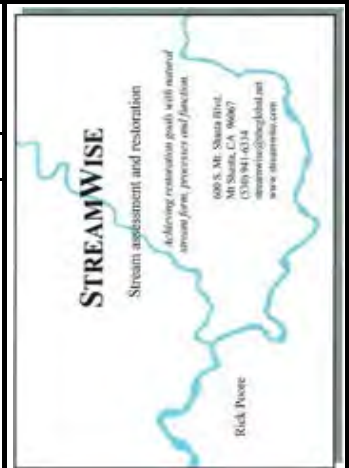


diagram from Wildland Hydrology Publication
 CROSS-VANE, W-WEIR, and J-HOOK VANE STRUCTURES
 (Updated 2006) Description, Design and Application for
 Stream Stabilization and River Restoration
 David L. Rosgen, P.H., Ph.D.



REVISION	BY	DATE	DESCRIPTION
	DRP	1/8/2023	initial plans
CONCEPTUAL PROJECT DESIGN			
TRUCKEE RIVER HABITAT ENHANCEMENT			
Washoe/Storie Counties, NV			
Trout Unlimited - Project Proponent			

PROJECT NUMBER	TRK- NV-2023-01
SCALE	1" =
SHEET	6.0

Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

PROJECT SPECIFICATIONS - BOULDER SIZE CHART

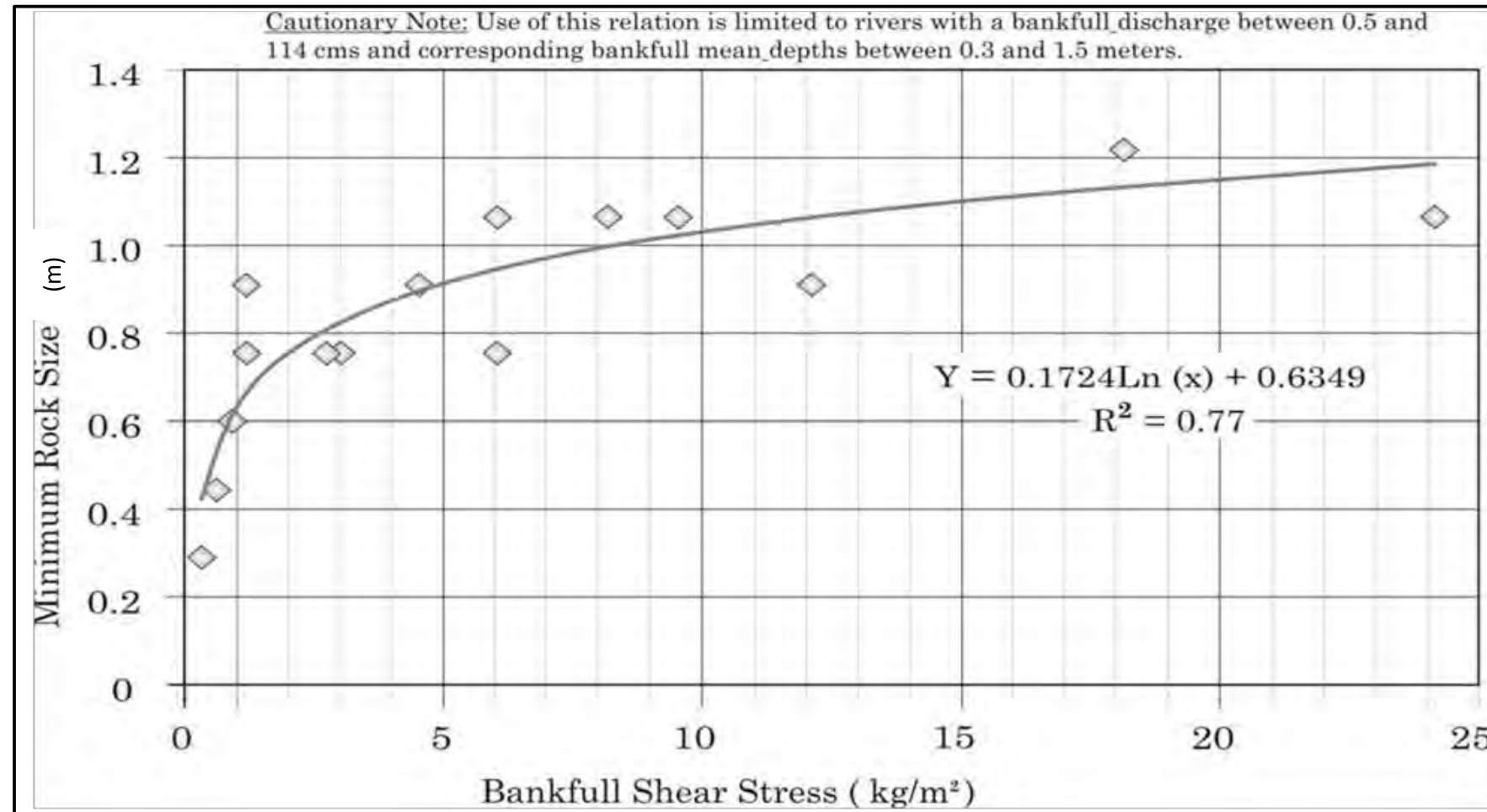
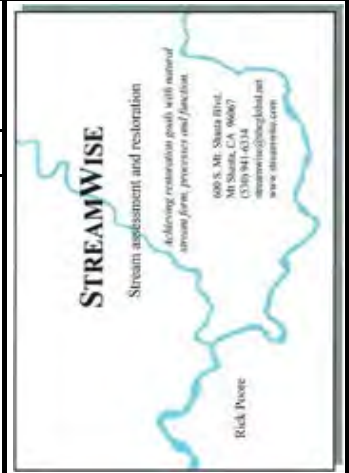


Chart from Wildland Hydrology Publication
CROSS-VANE, W-WEIR, and J-HOOK VANE STRUCTURES
(Updated 2006) Description, Design and Application for
Stream Stabilization and River Restoration
David L. Rosgen, P.H., Ph.D.

Primary boulder size for all structures to be 2000-3000# size class (approx. 1.0-1.5 meter in B-axis)
Footing rock comprised of 1500# Plus size class
Boulder density to be approx. 2.5 to 2.8 g/cu. cm (156 to 175 lbs/cu. ft.)
Size class estimates & design supported by 30+ existing rock structures at Truckee River sites



REVISION	BY	DATE	CONCEPTUAL PROJECT DESIGN
initial plans	DRP		TRUCKEE RIVER HABITAT ENHANCEMENT
			Washoe/Storie Counties, NV
			Trout Unlimited - Project Proponent

PROJECT NUMBER
TRK- NV-2023-01

SCALE
1" =

SHEET

6.1

Truckee River Habitat Enhancement - Lockwood / Crystal Peak Park

TYPICAL DIAGRAM - J-HOOK ROCK VANE

PLANVIEW TYPICAL DIAGRAM - Alternating bank vane configuration

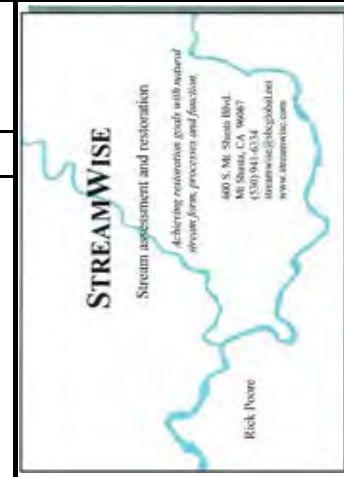
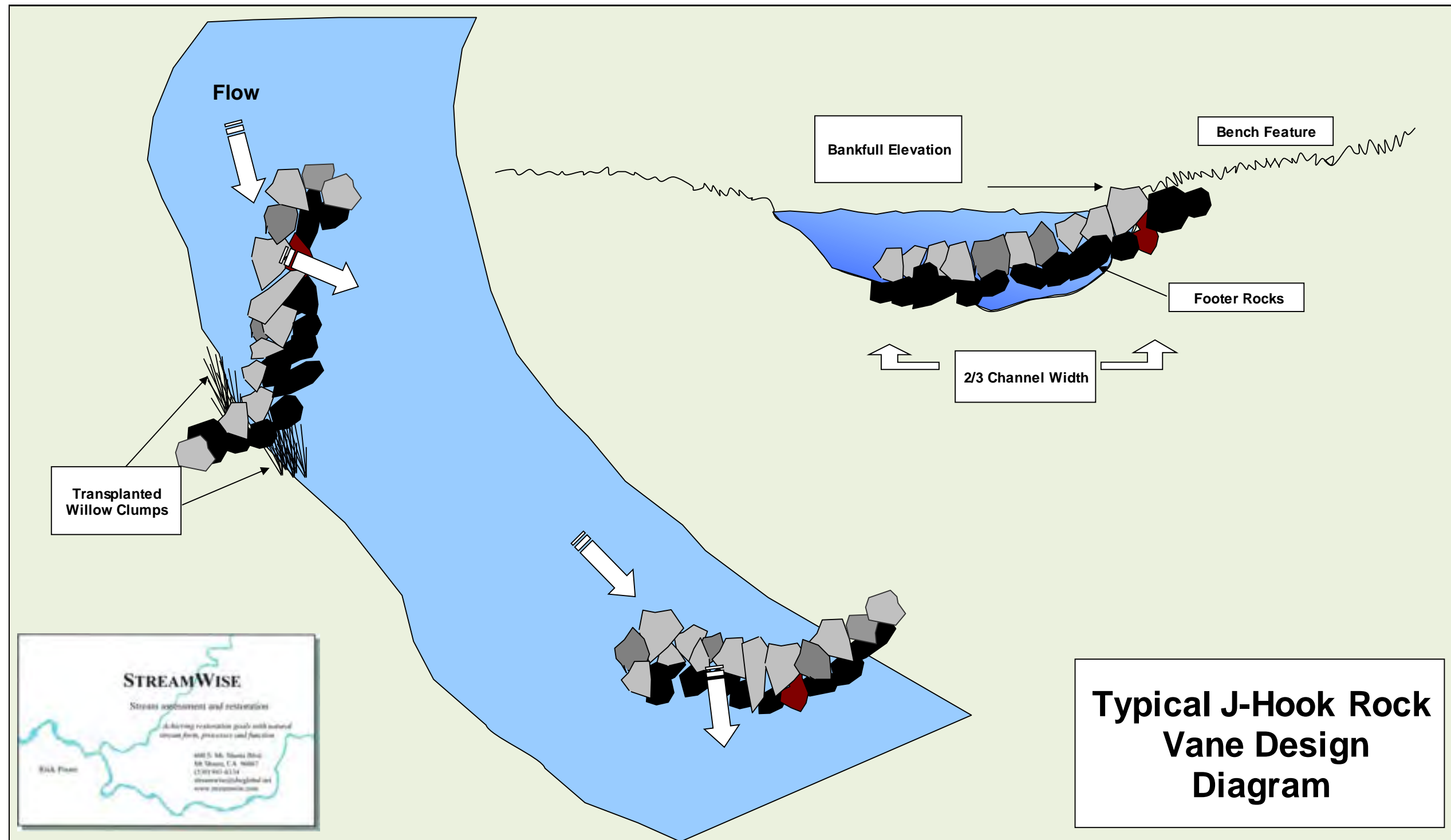


diagram not to scale

REVISION	BY	DATE	CONCEPTUAL PROJECT DESIGN	PROJECT NUMBER	SCALE	SHEET
initial plans	DRP	1/13/2023	TRUCKEE RIVER HABITAT ENHANCEMENT	TRK- NV-2023-01	diagrams not to scale	7.0
			Washoe/Storie Counties, NV			
			Trout Unlimited - Project Proponent			

Trout Unlimited
Lower Truckee Trout Habitat Project Budget

Total Project Budget = \$97,631.62

A. PERSONNEL SERVICES							
TU Staff (rate includes benefits)	Hours	Rate	Type	Budgeted	TRF Funding	Match	Other Funders
TU CA Inland Trout Program Director - Jessica Strickland (General oversight, funding)	60.00	\$91.54	Hours	\$5,492.40		\$5,492.40	Corporate Donors
TU Desert Terminal Lakes Project Coordinator - Dan Johnson (PM, Permitting lead)	240.00	\$54.53	Hours	\$13,087.20	\$7,407.43	\$5,679.77	Sagebrush Corporate Donor
Northern Sierra Project Manager - Michael Cameron - Permitting Assistance	40.00	\$63.44	Hours	\$2,537.60	\$2,537.60		
Inland Trout Lead Field Technician - Project Monitoring	60.00	\$ 27.30	Hours	\$1,638.00	\$1,638.00		
SUBTOTAL: PERSONNEL				\$ 22,755.20	\$ 11,583.03	\$ 11,172.17	
B. OPERATING EXPENSES: GENERAL							
Items (units)	Number of Units	Cost per Unit	Type	Budgeted	TRF Funding	Match	Funded By
Construction material (incl. transportation) (in tons)	438	\$ 32.97	Materials	\$14,440.86	\$14,440.86		
Permitting Fees	1.00	\$ 1000.00	Fees	\$1,000.00		\$1,000.00	Sagebrush
Printing and Media	1.00	\$ 500.00	Materials	\$500.00		\$500.00	Sagebrush
Monitoring Equipment (Temp loggers, flagging, rebar, etc)	1.00	\$ 1000.00	Materials	\$1,000.00		\$1,000.00	Sagebrush
Travel	300.00	\$ 0.67		\$201.00		\$201.00	Sagebrush
SUBTOTAL OPERATING EXPENSES: GENERAL				\$ 17,141.86	\$ 14,440.86	\$ 2,701.00	
C. OPERATING EXPENSES: SUBCONTRACTORS							
Contractors			Type	Budgeted	TRF Funding	Match	Funded By
Permitting Consultant (USACE 404) - Archeology			Contractor	\$12,000.00		\$12,000.00	Corporate Donor
Permitting Consultant (USACE 404) - Botany			Contractor	\$8,000.00		\$8,000.00	Corporate Donor
Restoration Design			Contractor	\$8,000.00		\$8,000.00	Sagebrush
Construction Contractor			Contractor	\$17,000.00	\$17,000.00		
SUBTOTAL OPERATING EXPENSES: SUBCONTRACTORS				\$ 45,000.00	\$ 17,000.00	\$ 28,000.00	
D. SUBTOTALS & INDIRECT COSTS							
SUBTOTAL A + B + C				\$84,897.06	\$43,023.89	\$41,873.17	
SUBTOTAL: INDIRECT CHARGES		15.00%		\$12,734.56	\$6,453.58	\$6,280.98	
E. GRAND TOTAL				\$97,631.62	\$49,477.47	\$48,154.15	
Funding Received							
Corporate Donor						\$34,154.15	
Sagebrush Chapter Trout Unlimited						\$14,000.00	
Total Funding Received						\$48,154.15	
Match Percent of Ask						97.33%	

TRF #290 Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding 2024

Truckee River Fund- Spring 2024

Friends of Nevada Wilderness

Shaaron Netherton
1360 Greg St
Suite #111
Sparks, NV 89431

O: 775-324-7667

Chris Cutshaw

1360 Greg St
Suite #111
Sparks, NV 89431

chris@nevadawilderness.org
O: 775-324-7667

Application Form

Truckee River Fund Grant Priorities

Truckee Meadows Water Authority (TMWA) recommends that the Truckee River Fund (TRF) Advisory Committee (the "Committee") give preference to well-supported, clearly drafted grant requests that consider substantial benefits to TMWA customers for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby water treatment and hydroelectric plant intakes.

- **Aquatic Invasive Species (AIS):** Projects/Programs that support the prevention or control of aquatic invasive species in the mainstem Truckee River, Lake Tahoe, other tributaries and water bodies in the Truckee River system.
- **Watershed Improvements:** Projects that reduce erosion or sediment, suspended solids, or total dissolved solids (TDS) discharges, nutrients, industrial contaminants, or bacterial pollutants to the River. Projects or programs that are located within 303d (impaired waters) and total maximum daily load (TMDL) sections of the River should be considered, both in California and Nevada. Innovative techniques should be encouraged. The following link identifies impaired sections of the river and its tributaries: <https://mywaterway.epa.gov/>.
- **Local Stormwater Improvements:** Projects that demonstrably 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.
- **Re-Forestation and Re-Vegetation Projects:** Projects to restore forest and upland areas damaged by fire and historical logging operations, and to improve watershed 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.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** Projects to support water quality improvement in creeks and tributaries to the Truckee River.
- **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 that do not fall clearly into the one of the above-mentioned categories.

Notes:

- For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Northern Nevada for additional criteria at lrenda@nevadafund.org.
- For proposals in the Lake Tahoe Basin, the Truckee River Fund (TRF) typically only funds proposals related to Priority I and VI.

Grantee Requirements

GRANTEE REQUIREMENTS

To be eligible for funding, grantees must adhere to the following requirements:

- Funds are to be used and/or disbursed exclusively for the charitable uses and purposes.

- The Fund shall be used exclusively for projects that protect and enhance water quality or water resources of the Truckee River, or its watershed.
- Grantees may include 501(c)(3) organizations and governmental entities. Any grants to governmental entities must be made exclusively for public benefit purposes.
- All grantees will be required to sign a grant agreement stipulating their agreement to all applicable terms, conditions, and reporting requirements.
- Organizations or entities sponsoring proposals are prohibited from ex parte communications with members of the Committee regarding such proposals while those proposals are pending before the Committee, and such communications may be grounds for rejecting a proposal.
- 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.

TRUCKEE MEADOWS WATER AUTHORITY BOARD OF DIRECTOR'S DISCRETION

For each proposal submitted and recommended by the Committee the TMWA Board of Directors has absolute discretion to:

- Accept or reject any proposal;
- Accept a proposal on the condition that certain modifications be made;
- Assess proposals as they see fit, without in any way being obligated to select any proposal;
- Determine whether proposals satisfactorily meet the evaluation criteria set out in this RFP;
- Reject proposals with or without cause, whether based on the evaluation criteria set out above or otherwise.

PERFORMANCE GUIDELINES

To maintain eligibility to receive grant funds, each Charitable Beneficiary must comply at all times with the following requirements:

- Must be exempt from federal income taxation under Section 501(c)(3) of the Code;
- Shall use all Fund distributions toward projects that are appropriate and legal public expenditures;
- Must provide financial details and/or reports of their organizations upon request;
- Must submit quarterly reports.
- Must not use any Fund distributions for political contributions or political advocacy;
- Must either implement the projects, activities, and/or programs for which they received Fund distributions within six months of the date in which such distributions are received or by date(s) as agreed upon in the grant acceptance agreement, or must return all such distributions to the Community Foundation of Northern Nevada forthwith;
- Must provide the Community Foundation of Northern Nevada a report detailing the completion of their projects, activities, and/or programs; and
- Must sign an agreement regarding their compliance with the qualifications hereof.

Project Evaluation Criteria

EVALUATION CRITERIA

Applications are evaluated according to the following criteria and in order of priority. If the grant applicant does not meet the "Grantee Requirements", the application will not be considered.

1. RELEVANCE OF PROPOSAL TO THE TRF PROGRAM

- Address TRF grant priorities – Does the project address at least one of the TRF grant priorities, as described at the beginning of the RFP?
- Meet multiple objectives – Does the project meet multiple grant priorities?
- Public benefit of the project – Does the project help TMWA protect its sources of drinking water?
- Benefit to TMWA customers – Is there a direct benefit to TMWA customers?
- Project location – Is the project located upstream of one of TMWA's water treatment plants?

2. QUALITY OF PROJECT DESIGN

- Appropriateness of selected project methods – Do the proposed project strategies make sense to address the watershed and/or water quality concern(s) outlined by the applicant?
- Thoroughness of project design – Is the project design adequately detailed to ensure the desired outcome(s)?
- Sustainability of project – Will the benefits of the project continue after the grant funds are expended?
- Project longevity – If ongoing operation & maintenance (O&M) is required to maintain benefits, is it funded?
- Consideration of existing research – Does the project consider existing research, planning efforts, or assessments related to the Truckee River watershed?

3. MEASURABILITY OF PROJECT SUCCESS

- Identification of project benchmarks or milestones – Has the applicant described the steps necessary to complete the project?
- Demonstrated ability to measure the results of the project – Does the project have adequate measurable outcomes to evaluate project success?
- Benefits expected from a successful project – Are there clear goals that will be obtained on project completion?
- Readiness to begin project – Is the grant applicant ready to undertake and complete the project?

4. EFFECTIVENESS OF ORGANIZATION

- Qualifications of applicant for the proposed project – Does the applicant have adequate experience and credentials to perform the work described in the application?
- Collaborative efforts – Are there partner organizations supporting or benefiting from the project?
- Demonstrated ability of applicant to manage and complete the project – Has the applicant successfully completed projects similar to the one proposed? If previously funded by TRF, has the applicant met performance requirements and completed projects successfully?

5. ADEQUACY OF PROPOSED BUDGET

- Availability and status of matching funds – Does the project provide a minimum of 25 percent match in cash and/or in-kind services? If the project is downstream of the USGS Vista gage, is the 25 percent match requirement met using cash match?
- Total project cost relative to benefits – Is the project cost reasonable given the expected project outcome(s)?
- Appropriateness of budget – Are the costs presented in the budget adequately detailed and do they seem reasonable? Is the project under the 25 percent indirect/overhead expense limit?

Organization Information

Organization Name*

Friends of Nevada Wilderness

Organization Type*

501(c)(3) Nonprofit

EIN

If the organization is a 501c3, please include the EIN#.

88-0211763

Director of Organization*

Shaaron Netherton

Project Contact Name*

Chris Cutshaw

Project Contact Postion/Title*

Stewardship Manager

Project Contact Email*

chris@nevadawilderness.org

Project Contact Phone Number*

775-324-7667 *205

Organization Mission*

Friends of Nevada Wilderness is dedicated to preserving all qualified Nevada public lands as Wilderness, protecting all present and potential Wilderness from ongoing threats, educating the public about the values of and need for wilderness, and improving the management and restoration of wild lands.

Project Information

Project Title*

Name of Project.

TRF #290 Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding 2024

Amount Requested*

\$26,951.00

Project Start Date*

03/01/2024

Project End Date*

12/31/2024

This funding will be used to:*

Complete this sentence with a max of 2 sentences.

Remove noxious weeds from the Hunter Creek watershed and reseed treated areas with native seeds to protect the water quality of the Truckee River and its watershed. We will host 5 removal projects, 2 re-seeding projects, and monitor known weed sites.

This project is on:*

Check all that apply

Public land

Are government permits or decision documents needed for the project?*

No

If so, are those permits and decision documents already secured?

If permits and decision documents are needed but not yet secured, in #4 of the Narrative Requirements provide a list of permits and documents needed and a schedule for securing them.

Previous Funding from Truckee River Fund

Has your organization received other grants from the Truckee River Fund?*

Yes

If yes, please include the following information for all previously funded projects:

- *Date awarded*
- *Project # and Title*
- *Amount of award*

Please attach additional pages as needed to list ALL previously funded projects.

Date awarded: March 2023

Project title: TRF #276 Mount Rose Noxious Weed Monitoring, Treatment, and Re-Seeding 2023

Amount of Award: \$26,343

Date awarded: March 2022

Project title: TRF #248 Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding #10

Amount of Award: \$23,250

Date awarded: March 2021

Project title: TRF #248 Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding #9

Amount of Award: \$16,445

Date awarded: March 2020

Project title: TRF #234 Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding #8

Amount of Award: \$28,549

Date awarded: March 2019

Project title: TRF #219- Mt Rose Noxious Weed Monitoring and Treatment #7

Amount of Award: \$24,094

Date awarded: March 2018

Project title: TRF #196- Mt Rose Noxious Weed Monitoring and Treatment #6

Amount of Award: \$23,500

Date awarded: March 2017

Project title: TRF #185- Mount Rose Noxious Weed Monitoring and Treatment #5

Amount of Award: \$22,405

Date awarded: April 2016

Project title: TRF #168- Mount Rose Noxious Weed Monitoring and Treatment #4

Amount of Award: \$21,002

Date awarded: September 2014

Project title: TRF #153- Mount Rose Noxious Weed Monitoring and Treatment #3

Amount of Award: \$15,807

Date awarded: August 2013

Project title: TRF #130 Mount Rose Noxious Weed Monitoring and Treatment #2

Amount of Award: \$10,896

Date awarded: March 2012

Project title: TRF # 111 Mount Rose Noxious Weed Monitoring and Treatment

Amount of Award: \$13,225

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.
- E. Other projects that meet the evaluation criteria.

D.)

Narrative Requirements

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

All projects are required to have measurable outcomes.

Our goal for the 2024 Mount Rose Wilderness Noxious Weed Monitoring, Treatment, and Re-seeding project is to remove invasive weeds from the Hunter Creek watershed while re-seeding the affected areas with a native seed mix to improve the quality of water, biodiversity, and ecosystem resiliency within the greater Truckee River watershed. We will remove the noxious weed musk thistle (*Carduus nutans*) with the help of volunteers. The invasive musk thistle spreads very rapidly due to its high seed production of up to 120,000 seeds per plant and once established can quickly change the composition of a biodiverse area to a monoculture of musk thistle. 903 volunteers have helped with this project for 13 years and we have seen significant improvement in meadows once covered by musk thistle. The Truckee River Fund has allowed this program to grow from a few small projects to a well-known and established program that provides accessible volunteer opportunities to create a meaningful impact in both the community and watershed.

The measurable goals for this project include three monitoring trips to the Hunter Creek area to monitor musk thistle growth and re-seeding efforts, removing at least 15,000 musk thistle over five volunteer projects across several sites within the watershed, and two re-seeding projects where we will re-seed at least 10 acres where weeds have been removed with a native seed mix of local grasses and flowers. Our project sites have been identified from years of monitoring and direction from the Carson Ranger District.

Weed removal projects will average eight volunteers for about six hours of on-the-ground work each, and on each re-seeding project, we plan to average four volunteers for about six hours of on-the-ground work each (288 total volunteer hours). We will also use matching and other funds to complete at least one additional weed removal project with eight volunteers for six hours. We anticipate removing at least another 1,000 weeds with matching funds.

The timeline for this project is to scout/monitor the Hunter Creek area in the spring, directly remove the musk thistle in early to mid-summer with volunteers over five projects, and reseed in the late fall. Friends of Nevada Wilderness (FNW) staff will monitor known musk thistle sites in preparation for the upcoming volunteer projects to assess plant growth, identify target areas, and continue monitoring outcomes from previous years. FNW staff will then lead volunteers to the target areas in May and June before plants can go to seed. Weeds will be removed using shovels and gloves. FNW has all the shovels and gloves needed to safely complete these projects. The re-seeding projects will be completed before a rain/snow storm in the late fall with volunteers and will cover 10 acres where musk thistle was previously removed with a USFS Botanist-approved mix, purchased by FNW, with pollinator-attracting perennial forbs.

These projects engage local volunteers and provide opportunities for education about the importance of a healthy and biodiverse watershed. FNW and volunteers have removed 282,505 musk thistle in the past 13 years from the Hunter Creek area and we look forward to continuing these projects to slow the spread of musk thistle and regenerate healthier landscapes through our re-seeding efforts.

2.) Describe the project location. *

Include site map and aerial photos if applicable/possible as an attachment.

Project locations will be in or adjacent to Mount Rose Wilderness within the Hunter Creek watershed of the Truckee River. All known weed sites are located within 0.5-4 miles of the Truckee River and most are very close to the well-known and heavily used Hunter Creek and Steamboat Ditch Trails. Areas of concern for monitoring are the helicopter loading points used by the Carson City Ranger District to fight the Hunter Falls Fire of 2014 and the Hunter Creek Fire of 2017, which we will continue to monitor closely for any further

invasive weed developments. Musk thistle seeds are easily transported by water so managing these areas for further spread directly correlates to reduced seeds spreading downstream and threatening watershed quality.

3.) Project Description*

FNW_TRF worksites_Map.pdf

FNW staff will visit our known musk thistle sites in early spring to identify areas of greatest concern and prioritize locations for volunteers to work. We will also monitor the effectiveness of the previous year's treatments. Our main target species for removal is musk thistle (*Carduus nutans*), we will also be looking for weeds including perennial pepperweed (*Lepidium latifolium*), and medusahead (*Taeniatherum caput-medusae*) to provide additional information for the Forest Service.

During late April, May, and June FNW staff will lead volunteers to the worksites and remove musk thistle by digging with shovels or by hand. Though our last project usually concludes before the plants have gone to seed, if the plants have already formed viable seeds, we will clip the flower heads and pack them out to be safely destroyed. In the fall, volunteers will return to sites that were treated for musk thistle to spread a native seed mixture by hand. FNW provides some snacks, additional water, weed identification and removal training, education, and all necessary tools and personal protective equipment for volunteers. Please see the map, included in the attachments, for estimated project locations.

4.) Grant priorities*

Explain how the proposed project advances the TRF's specific grant priorities.

The proposed projects are in line with multiple grant priorities, specifically priority #2 (Watershed Improvements), priority #4 (Re-Forestation and Re-Vegetation Projects:) priority #6 (Stewardship and Environmental Awareness).

Noxious weeds, including the musk thistle, are a concern for the long-term health and biodiversity of the Truckee River Watershed. Our proposed volunteer projects can directly improve the quality of this area by removing musk thistle and reintroducing native grasses and flowers in the same locations - improving watershed resiliency. All of the proposed actions are recommended by the Forest Service botanists and best practices for musk thistle control. Reducing weeds in the Mount Rose Wilderness decreases the amount of seeds that can spread downstream, reduces soil erosion, improves water quality, and creates a better overall visitor experience along the Hunter Creek and Steamboat Ditch Trails.

This program continues to educate the community about the importance of noxious weed mitigation while providing opportunities to directly engage in the stewardship of weed removal themselves. Volunteers who complete a project with us will have an understanding of the connection between the importance of a healthy watershed and invasive species management. By working with the public, we can encourage intentional stewardship and awareness of our local watershed and water supply needs.

5.) Permitting*

Provide a permitting schedule for your project along with your plan for getting the required permits and decision documents. Be sure to include the cost of permitting/decision documents as a line item in your budget.

FNW_TRF_Letter of Support_DRsigned.pdf

This project does not require any special permits, and we will be taking direction from our Carson Ranger District contacts with the U.S. Forest Service.

6.) Future Land Use*

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

Our program sites are all within public land managed by the US Forest Service and the majority of the sites are within the Mount Rose Wilderness. There are no foreseeable zoning or development plans that will affect this project.

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

Noxious weed management is most effective when performed consistently. For example, at musk thistle sites along the Hunter Creek Trail that FNW staff and volunteers have regularly visited over several years, the total number of musk thistle has drastically declined. Maintenance visits once a year, on our way to or from a different site is all that's required to keep musk thistle at bay and allow the native plants we spread to thrive.

The musk thistle grows prolifically and very successfully in Mount Rose Wilderness. It grows faster and earlier in the season than most native species, outcompeting them. When the musk thistle takes over an area it creates a very dense monoculture which drives out native species and eventually native animals as well. It also degrades soil quality and increases erosion. A single musk thistle plant can produce 120,000 seeds annually, which can stay dormant in the soil for up to 15 years. This long timeline requires continued annual maintenance and monitoring to effectively manage.

Friends of Nevada Wilderness has consistently outperformed our goals, using funding from the Truckee River Fund to effectively leverage volunteers, and matching funds from other sources, to help control invasive weeds at these sites and slowly reduce numbers. The volunteers and matching funds, included in the overall budget, allow us to increase the impact and sustainability of the program. Our long-term knowledge of this portion of the watershed is invaluable to its long-term health. We will continue working with the Forest Service to build upon our successes and move the program forward. The Truckee River Fund has generously supported these efforts in past years and, hopefully, will continue to be a part of this program for years to come.

8.) Identify the principals involved in leading or coordinating the project or activity.*

Stewardship Manager, Chris Cutshaw, will oversee coordination with the Forest Service, planning and scheduling projects, reporting, and staff training.

Stewardship Coordinator, Meg Tait, will be performing much of the monitoring and leading volunteer projects in the field.

Programs Coordinator, Olivia Wolff, will be performing much of the monitoring and leading volunteer projects in the field. She will also be assisting with grant and accomplishment reporting, and print and social media promotion of the work accomplished.

Grants and Operations Manager, Nora Richter, will oversee the grant and financial reporting.

We will be coordinating with and taking direction from the USFS Carson District Recreation Officer, Botanist, and Invasive Weeds Specialist.

9.) Number of staff positions involved in project.*

Identify how many staff will be full-time and how many will be 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.

Fulltime: 0 Part-time: 5

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

We anticipate having 48 or more volunteers for our weed pulls and seed-spreading projects, donating 288 hours. We will host 5 weed pulls with 8 volunteers per project and 2 seed-spreading projects with 4 volunteers per project.

11.) Timeline 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.

***Note: Funding will not be provided for work performed prior to grant approval.*

Volunteer recruitment will begin immediately upon project approval. We will begin outlining our project schedule in March, and project sign-ups and site monitoring will begin in April. The five volunteer weed removal projects will be scheduled for May and June. The dates for our fall re-seeding projects are dependent upon the weather. The seed mixes are most effective when spread before rain or snow with freezing overnight temperatures. We begin scheduling these in the fall for November and December, making sure to give volunteers enough notice to plan. Monitoring will also occur in the fall/winter to see how effective spring treatments were. Final reporting will occur in early 2025.

12.) What factors will indicate a successful project?*

We consider our program successful if deliverables are completed safely, we reach our target number of weeds removed, and the volunteers finish the projects understanding the importance of invasive weed management and its relation to the Truckee River Watershed. We will inform the Truckee River Fund committee of our successes with written quarterly reports, high-quality photographs, and copies of any earned press. We will communicate the work of the volunteers and funding from the Truckee River Fund to the general public and our more than 10,000 supporters through press releases, bi-annual newsletters, monthly e-newsletters, and social media.

13.) Collaboration*

List partnerships or collaborations with other entities in relation to your proposal, if any. Grantees are encouraged to seek other funds prior to requesting money from the Truckee River Fund. Please explain what other funding opportunities were sought and if any other funds have been awarded.

We partner with KTMB each spring to lead a project for their Great Community Clean Up (April 27, 2024) and they provide extra shovels and gloves and help with volunteer recruitment. In 2023, our Hunter Creek site had 40 volunteers for the Great Community Clean Up. Other partners who have helped engage volunteers include

Patagonia, REI, International Gaming Technologies (IGT), Midtown Rotary, NV Energy, UNR, TMCC, and Arrow Electronics. Imbib Brewery, Eclipse Pizza, and other national companies have provided free or discounted food products as part of our volunteer appreciation efforts. And of course, the US Forest Service collaborates with us to accomplish all of these projects. They provide guidance, oversight, approval, and ongoing monitoring.

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.

For grant requests for projects downstream of the Vista USGS gage, the 25 percent match requirement must be met using **cash match**.

Total grant match to be provided.*

\$9,760.00

Cash

\$4,000.00

For the cash portion, is the funding already being held by the applicant for this project?

Yes

In-kind

****Note:** Provide an itemized breakdown of volunteer match in your budget with rationale.

\$5,760.00

Description of matching funds/in-kind donations.*

Cash Matching Funds:

National Forest Foundation: \$3,500. Funding that is already being held by FNW. Includes funding to host at least one additional weed removal project for Spanish-speaking participants. Includes recruitment time specifically for Spanish-speaking and bilingual participants.

Individual Donations: \$500. Funding that is already being held by FNW. Will help cover the cost of necessary Wilderness First Aid training for FNW's volunteer coordinators.

In-Kind:

Volunteer Labor counted at a rate of \$20/hour. Five volunteer weed removal projects with 8 volunteers each for 6 hours at \$20 in-kind/hr; 2 volunteer re-seeding projects with 4 volunteers each for 6 hours at \$20 in-kind/hr. Total of 48 volunteers. Total of 288 volunteer hours at \$20/hr for an in-kind total of \$5,760.

Attachments

Nonprofits must 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

****Please submit as one PDF document**

FNW_TRF_Financial and Board Info.pdf

Governmental entities must submit:

- Departmental budget in lieu of audited financial statements

Project Budget*

Provide detail on each line-item expenditures and show which funds are committed and which have been requested to be paid for by the Truckee River Fund grant, and which will be paid for with in-kind services. Other sources of funding should be provided. Explain status of other funding if not in hand. If project is to be implemented in phases, please separate budget into each phase. Please contact Lauren Renda at lrenda@nevadafund.org for a sample budget template.

****Notes:**

- *Indirect/overhead expenses cannot exceed 25 percent; TRF may fund indirect/overhead up to 25% based on availability of funds.*

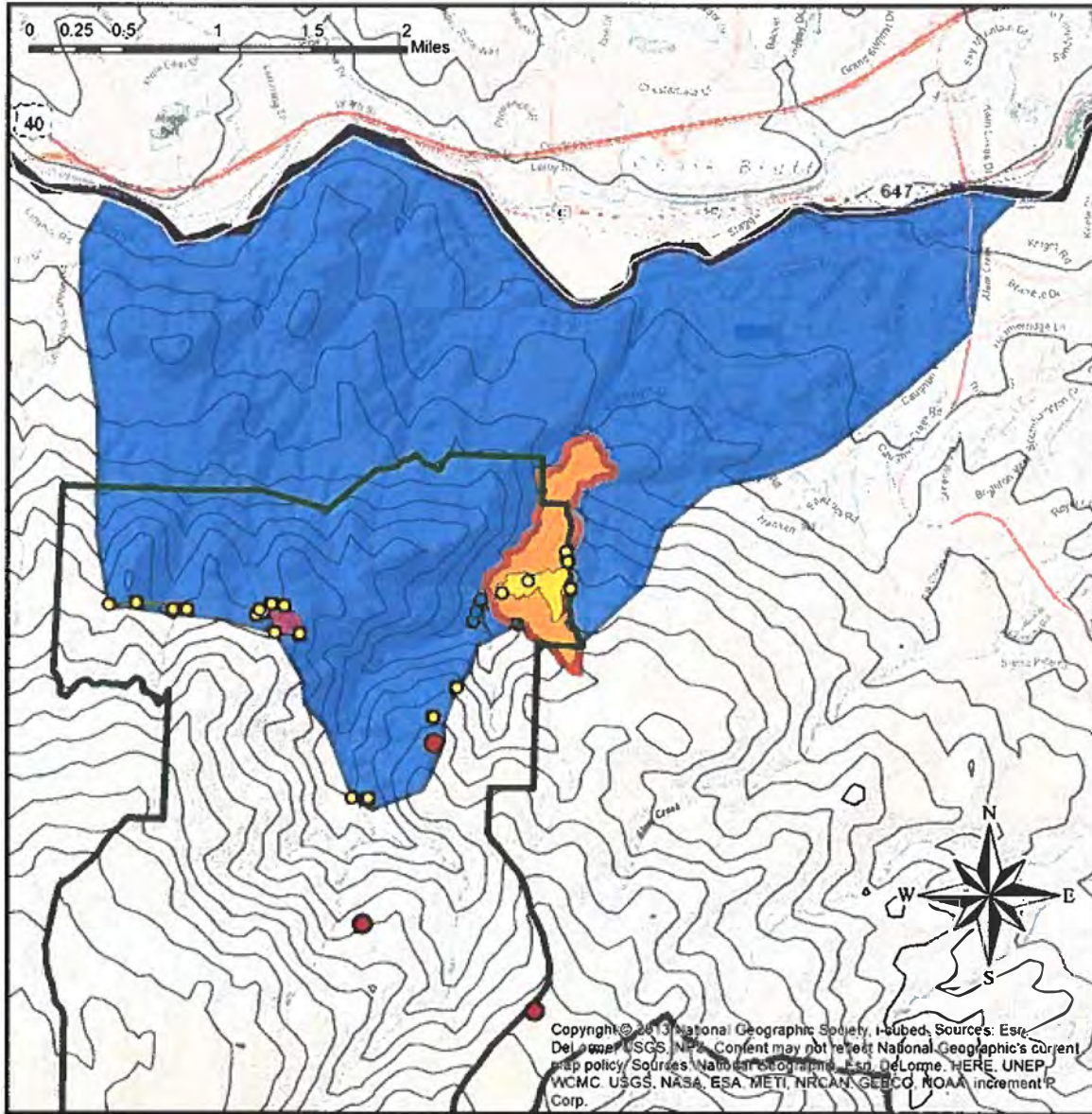
- *Applicants should be prepared to provide reduced budgets during the review of applications by the TRF Advisory Committee when funds are limited.*
- *Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.*

FNW_TRF 2024_Budget and Narrative.pdf



FRIENDS of NEVADA WILDERNESS

Mt. Rose Wilderness Noxious Weed Monitoring and Treatment Project: Impacted Watershed



- Medusahead
- Musk Thistle
- Pepperweed
- Aviation Sites
- Truckee River
- East Fork Monitoring Site
- East Slope Monitoring Site
- Above Waterfall Monitoring Site
- Belli Front East Monitoring Site
- Belli Front West Monitoring Site
- Mt. Rose Wilderness Boundary
- Hunter Creek Fire
- Impacted Watershed ~ 5,582 acres
- 200ft Contour





File Code: 1580
Date: February 1, 2024

Truckee River Fund
Community Foundation of Northern Nevada
50 Washington St Suite #300
Reno, NV 89503

RE: Mt Rose Wilderness Musk Thistle Removals and Native Seed Spreading.

To whom it may concern,

Please accept this letter of support for the Mt. Rose Wilderness Musk Thistle Removals and Native Seed Spreading project. As the land managers of the Humboldt-Toiyabe National Forest, Carson Ranger District, we are expressing our support of Friends of Nevada Wilderness' (FNW) proposed projects in and around the Mt. Rose Wilderness. FNW has been working closely with the Carson Ranger District for over 10 years to treat invasive plants. As a result of this work, we have seen a direct benefit to the habitat and ecosystem of the Truckee River Watershed. We highly value our partnership which goes beyond invasive weed treatment and monitoring to include education projects, solitude monitoring, impact monitoring, trail maintenance, and other projects. FNW has a track record of effectively executing many grants from a variety of sources. We are confident that FNW will do the same with this funding.

The Carson Ranger District will provide support to FNW in accomplishing the goals and objectives of the project. We thank you for your generous consideration and support of these important restoration efforts.

The Humboldt-Toiyabe National Forest, Carson Ranger District is pleased to partner with the FNW and happy to provide this letter of support for this project. If you have additional questions, please contact Brian Hansen, Carson District Recreation Officer at: brian.c.hansen@usda.gov.

Sincerely,

MATTHEW
ZUMSTEIN

Digitally signed by
MATTHEW ZUMSTEIN
Date: 2024.02.01
16:20:12 -08'00'

MATHEW D. ZUMSTEIN
District Ranger





Friends of Nevada Wilderness

Audited Financial Statements

December 31, 2022



J2 Jackson & Jackson CPAs, Ltd.
Certified Public Accountants

Friends of Nevada Wilderness
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December 31, 2022

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Independent Auditor's Report

To the Board of Trustees of
Friends of Nevada Wilderness

Opinion

We have audited the accompanying financial statements of Friends of Nevada Wilderness (a nonprofit organization), which comprise the statement of financial position as of December 31, 2022, and the related statements of activities, functional expense and cash flows for the year then ended, and the related notes to the financial statements.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Friends of Nevada Wilderness as of December 31, 2022, and the changes in its net assets and its cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of ABC Organization and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about Friends of Nevada Wilderness ability to continue as a going concern within one year after the date that the financial statements are available to be issued.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards, we:

Exercise professional judgment and maintain professional skepticism throughout the audit.

Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.

Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of Friends of Nevada Wilderness internal control. Accordingly, no such opinion is expressed.

Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.

Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about Friends of Nevada Wilderness ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

Jackson & Jackson CPAs, Ltd.

Jackson & Jackson CPAs, Ltd.

Reno, Nevada
October 16, 2023



FRIENDS of NEVADA WILDERNESS

Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding 2024

Budget Item Description	Truckee River Fund	Match Source	Match Amount	Total
Payroll Expenses	\$19,750	National Forest Foundation	\$3,500	\$23,250
Volunteer Labor (288 hrs at \$20/hr)		In-Kind Volunteer Labor	\$5,760	\$5,760
Project Supplies	\$4,250			\$4,250
Training Expenses	\$200	Individual Donations	\$500	\$700
Vehicle Travel (150 miles at \$0.67/mile)	\$101			\$101
Volunteer Food	\$200			\$200
Subtotal	\$24,501		\$9,760	\$34,261
Overhead (at 10%)	\$2,450			\$2,450
TOTAL	\$26,951	TOTAL	\$9,760	\$36,711

Budget Narrative:

Payroll Expenses: Payroll expenses include all project planning, facilitation, data entry, program oversight, as well as follow-up, volunteer recruitment, outreach and communications, GIS, and Truckee Meadows Weed Coordinating Group meetings.

Volunteer Labor: 5 volunteer weed removal projects with 8 volunteers each for 6 hours at \$20 in-kind/hr; 2 volunteer re-seeding projects with 4 volunteers each for 6 hours at \$20 in-kind/hr. Total of 48 volunteers. Total of 288 volunteer hours at \$20/hr for an in-kind total of \$5,760.

Project Supplies: Used to purchase native seed mix (averaging \$4000-\$4250). Any additional supply funds will help cover the costs of routine gear replacement for first aid kits, shovel replacement, maintenance, etc.

Training Expenses: This will cover relevant classes and conferences, including a portion of the Wilderness First Aid training for our staff. In addition, we will continue to update our invasive weed reference materials for staff/volunteers.

Vehicle Travel: This portion accounts for the use of a company vehicle as well as mileage reimbursement for distances driven with personal vehicles. The mileage rate is calculated at the 2024 Federal Rate of \$0.67/mile.

Volunteer Food: Accounts for volunteer food such as trail snacks and our end-of-season volunteer appreciation event.

Overhead: Our overhead costs are billed across all of our grants at a 10% de minimis rate. These costs are used to pay for rent, utilities, storage costs, small office supplies and subscriptions (Microsoft, Adobe, Google, etc), and safety equipment, such as our Garmin In-Reach service. These costs are essential to the functionality of all of our programs and are not used to pay for any employees or programmatic supplies.

TRF #291 Independence Lake Forest Resilience Project

Truckee River Fund- Spring 2024

The Nature Conservancy

Jennifer Morris
639 Isbell Road
Suite 330
Reno, NV 89509

O: 775-446-5426

Kristen McInnis

639 Isbell Road
STE 330
Reno, NV 89509

kristen.mcinnis@tnc.org
O: 775-322-4990

Application Form

Truckee River Fund Grant Priorities

Truckee Meadows Water Authority (TMWA) recommends that the Truckee River Fund (TRF) Advisory Committee (the "Committee") give preference to well-supported, clearly drafted grant requests that consider substantial benefits to TMWA customers for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby water treatment and hydroelectric plant intakes.

- **Aquatic Invasive Species (AIS):** Projects/Programs that support the prevention or control of aquatic invasive species in the mainstem Truckee River, Lake Tahoe, other tributaries and water bodies in the Truckee River system.
- **Watershed Improvements:** Projects that reduce erosion or sediment, suspended solids, or total dissolve solids (TDS) discharges, nutrients, industrial contaminants, or bacterial pollutants to the River. Projects or programs that are located within 303d (impaired waters) and total maximum daily load (TMDL) sections of the River should be considered, both in California and Nevada. Innovative techniques should be encouraged. The following link identifies impaired sections of the river and its tributaries: <https://mywaterway.epa.gov/>.
- **Local Stormwater Improvements:** Projects that demonstrably 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.
- **Re-Forestation and Re-Vegetation Projects:** Projects to restore forest and upland areas damaged by fire and historical logging operations, and to improve watershed 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.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** Projects to support water quality improvement in creeks and tributaries to the Truckee River.
- **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 that do not fall clearly into the one of the above-mentioned categories.

Notes:

- For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Northern Nevada for additional criteria at lrenda@nevadafund.org.
- For proposals in the Lake Tahoe Basin, the Truckee River Fund (TRF) typically only funds proposals related to Priority I and VI.

Grantee Requirements

GRANTEE REQUIREMENTS

To be eligible for funding, grantees must adhere to the following requirements:

- Funds are to be used and/or disbursed exclusively for the charitable uses and purposes.

- The Fund shall be used exclusively for projects that protect and enhance water quality or water resources of the Truckee River, or its watershed.
- Grantees may include 501(c)(3) organizations and governmental entities. Any grants to governmental entities must be made exclusively for public benefit purposes.
- All grantees will be required to sign a grant agreement stipulating their agreement to all applicable terms, conditions, and reporting requirements.
- Organizations or entities sponsoring proposals are prohibited from ex parte communications with members of the Committee regarding such proposals while those proposals are pending before the Committee, and such communications may be grounds for rejecting a proposal.
- 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.

TRUCKEE MEADOWS WATER AUTHORITY BOARD OF DIRECTOR'S DISCRETION

For each proposal submitted and recommended by the Committee the TMWA Board of Directors has absolute discretion to:

- Accept or reject any proposal;
- Accept a proposal on the condition that certain modifications be made;
- Assess proposals as they see fit, without in any way being obligated to select any proposal;
- Determine whether proposals satisfactorily meet the evaluation criteria set out in this RFP;
- Reject proposals with or without cause, whether based on the evaluation criteria set out above or otherwise.

PERFORMANCE GUIDELINES

To maintain eligibility to receive grant funds, each Charitable Beneficiary must comply at all times with the following requirements:

- Must be exempt from federal income taxation under Section 501(c)(3) of the Code;
- Shall use all Fund distributions toward projects that are appropriate and legal public expenditures;
- Must provide financial details and/or reports of their organizations upon request;
- Must submit quarterly reports.
- Must not use any Fund distributions for political contributions or political advocacy;
- Must either implement the projects, activities, and/or programs for which they received Fund distributions within six months of the date in which such distributions are received or by date(s) as agreed upon in the grant acceptance agreement, or must return all such distributions to the Community Foundation of Northern Nevada forthwith;
- Must provide the Community Foundation of Northern Nevada a report detailing the completion of their projects, activities, and/or programs; and
- Must sign an agreement regarding their compliance with the qualifications hereof.

Project Evaluation Criteria

EVALUATION CRITERIA

Applications are evaluated according to the following criteria and in order of priority. If the grant applicant does not meet the "Grantee Requirements", the application will not be considered.

1. RELEVANCE OF PROPOSAL TO THE TRF PROGRAM

- Address TRF grant priorities – Does the project address at least one of the TRF grant priorities, as described at the beginning of the RFP?
- Meet multiple objectives – Does the project meet multiple grant priorities?
- Public benefit of the project – Does the project help TMWA protect its sources of drinking water?
- Benefit to TMWA customers – Is there a direct benefit to TMWA customers?
- Project location – Is the project located upstream of one of TMWA's water treatment plants?

2. QUALITY OF PROJECT DESIGN

- Appropriateness of selected project methods – Do the proposed project strategies make sense to address the watershed and/or water quality concern(s) outlined by the applicant?
- Thoroughness of project design – Is the project design adequately detailed to ensure the desired outcome(s)?
- Sustainability of project – Will the benefits of the project continue after the grant funds are expended?
- Project longevity – If ongoing operation & maintenance (O&M) is required to maintain benefits, is it funded?
- Consideration of existing research – Does the project consider existing research, planning efforts, or assessments related to the Truckee River watershed?

3. MEASURABILITY OF PROJECT SUCCESS

- Identification of project benchmarks or milestones – Has the applicant described the steps necessary to complete the project?
- Demonstrated ability to measure the results of the project – Does the project have adequate measurable outcomes to evaluate project success?
- Benefits expected from a successful project – Are there clear goals that will be obtained on project completion?
- Readiness to begin project – Is the grant applicant ready to undertake and complete the project?

4. EFFECTIVENESS OF ORGANIZATION

- Qualifications of applicant for the proposed project – Does the applicant have adequate experience and credentials to perform the work described in the application?
- Collaborative efforts – Are there partner organizations supporting or benefiting from the project?
- Demonstrated ability of applicant to manage and complete the project – Has the applicant successfully completed projects similar to the one proposed? If previously funded by TRF, has the applicant met performance requirements and completed projects successfully?

5. ADEQUACY OF PROPOSED BUDGET

- Availability and status of matching funds – Does the project provide a minimum of 25 percent match in cash and/or in-kind services? If the project is downstream of the USGS Vista gage, is the 25 percent match requirement met using cash match?
- Total project cost relative to benefits – Is the project cost reasonable given the expected project outcome(s)?
- Appropriateness of budget – Are the costs presented in the budget adequately detailed and do they seem reasonable? Is the project under the 25 percent indirect/overhead expense limit?

Organization Information

Organization Name*

The Nature Conservancy - Nevada Chapter

Organization Type*

501(c)(3) Nonprofit

EIN

If the organization is a 501c3, please include the EIN#.

53-0242652

Director of Organization*

Mauricia Baca

Project Contact Name*

Heather Giger

Project Contact Postion/Title*

Land and Stewardship Strategy Director

Project Contact Email*

heather.giger@tnc.org

Project Contact Phone Number*

775-453-0903

Organization Mission*

The Nature Conservancy's mission is to conserve the lands and waters on which all life depends. Founded in 1954, The Nature Conservancy (TNC) has chapters in all 50 U.S. states and works in more than 80 countries around the world.

The year 2024 is TNC's 40th year working in Nevada. In the Silver State, we focus our efforts on resilient lands, waters and communities, as well as climate action. Our work in Nevada includes important historic projects like the protection of Red Rock National Conservation Area and Ash Meadows National Wildlife Refuge and the restoration of 11 miles of the Truckee River, as well as our current work providing science to support the preservation and management of groundwater across the state for people and nature; promoting the healthy management of forests within the Truckee River's headwaters; and sharing science to guide land management agencies, policy makers, and industry to site green energy development in ways that work for communities and nature.

Our work in Nevada is part of TNC's ambitious 2030 goals which aim to address the dual existential crises of climate change and biodiversity loss. Our work on the ground in Nevada is a part of TNC's efforts by 2030 to:

- Remove or sequester 3 gigatons of carbon
- Help 100 million people who are most likely to be affected by climate change-related emergencies like fire, flood and drought
- Conserve 650 million hectares of healthy lands - an area twice the size of India
- Conserve 1 million kilometers of river and 30 million hectares of lakes and wetlands, and
- Support economic opportunities for 45 million people who rely on ocean, freshwater and lands for their livelihoods and well being.

Just like our colleagues around the world, in Nevada we work closely with communities, with the people who rely on land and water for their livelihoods, with policy makers and government staff, and with the Tribes who are the original caretakers of the land. We use science-based solutions and collaboration to work across divides to solve problems that impact people and nature, helping to make the open spaces, the water and the air we all need healthier.

TNC's Nevada Chapter is proud to have been partners with the Truckee River Fund since 2008. Together we have created a vision for forest restoration at the Truckee's headwaters and implemented forest management across hundreds of acres. TNC's current grant from TRF is coming to a close in spring 2024 and we are grateful for the opportunity to apply for funding to continue to work on healthy forests that protect the water that the Reno/Sparks community relies upon.

Please note that The Nature Conservancy's Nevada Chapter is part of The Nature Conservancy, the world's largest environmental nonprofit organization. While The Nevada Chapter hosts its own Board of Trustees and has an operating budget specific to Nevada, some documents, such as the 990 and the audited financial statements, are managed at the tax ID level and represent the financial outlook of the entire organization. All funds (past and future) from The Truckee River Fund to The Nature Conservancy have been applied exactly as proposed, supporting only the project described. Please reach out to Kristen McInnis, Director of Development, at kristen.mcinnis@tnc.org or (775) 446-5426 for any additional information or clarification about our organizational structure.

Project Information

Project Title*

Name of Project.

TRF #291 Independence Lake Forest Resilience Project

Amount Requested*

\$183,610.00

Project Start Date*

05/01/2024

Project End Date*

06/30/2026

This funding will be used to:*

Complete this sentence with a max of 2 sentences.

This funding will be used to implement mechanical forest thinning treatments on The Nature Conservancy's Independence Lake Preserve to increase forest health and resiliency while reducing the risk of catastrophic wildfires that remove vegetation, increase soil erosion, and threaten water quality in the Truckee River and surrounding watershed.

This project is on:*

Check all that apply

Private land

Are government permits or decision documents needed for the project?*

Yes

If so, are those permits and decision documents already secured?

If permits and decision documents are needed but not yet secured, in #4 of the Narrative Requirements provide a list of permits and documents needed and a schedule for securing them.

Yes

Previous Funding from Truckee River Fund

Has your organization received other grants from the Truckee River Fund?*

Yes

If yes, please include the following information for all previously funded projects:

- *Date awarded*
- *Project # and Title*
- *Amount of award*

Please attach additional pages as needed to list ALL previously funded projects.

June 2008

#50 Independence Lake Forest Management Plan

\$39,668

June 2008

#51 Independence Lake Public Access Management Plan

\$45,510

November 2008

#63 Independence Lake- Forest and Wildfire Management Plan Implementation

\$237,110

May 2010

#74 Independence Lake Forest and Wildfire Management

\$50,000

October 2010

#78 Independence Lake Woody Fuels Reduction for Fire Resilience-Year 3

\$60,000

September 2011

#88 Preventing Aquatic Invasive Species at Independence Lake

\$28,290

August 2012

#106 Independence Lake Woody Fuels Reduction for Fire Resilience

\$30,000

February 2013

#117 Forest Thinning around Independence Lake

\$41,300

September 2014

#147 Optimizing Restoration Investments in the Truckee River Watershed

\$50,000

March 2017

#187 Landscape Conservation Forecasting (LCF) for the Truckee River Watershed
\$60,000

September 2018

#208 Truckee River Watershed Forest Restoration
\$57,826

August 2019

#227 Truckee River Watershed Forest Restoration and Community Outreach, Phase 2
\$265,600

July 2022

#263 Developing Forest Resilience to Fire – Independence Lake
\$100,450

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.
- E. Other projects that meet the evaluation criteria.

A.)

E.)

Narrative Requirements

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

All projects are required to have measurable outcomes.

The project goal is to improve the resiliency of the forest adjacent to Independence Lake to wildfire and sediment transport through erosion and de-vegetation.

Our measurable outcome is to mechanically thin stands across 43 acres to reduce fuel loads in these through significantly reduced tree density.

We will document the thinning through pre- and post-treatment stand metrics, including photo and drone footage that can be included in grant reporting and/or future presentations.

2.) Describe the project location.*

Include site map and aerial photos if applicable/possible as an attachment.

Independence Lake Preserve is located about 10 miles northwest of Truckee, California in Sierra and Nevada Counties at the headwaters of Independence Creek, a tributary to the Little Truckee River. The Preserve property consists of approximately 2,325 acres of forest lands surrounding 680 acres of lake. Independence Lake contributes to the water supply for the greater Reno/Sparks area. Water rights are held by the Truckee Meadows Water Authority (TMWA), and periodic releases are made to maintain a minimum instream flow downstream from the lake.

Independence Lake Preserve is one of the most pristine areas in the northern Sierra Nevada. The lake is surrounded by conifer forest, montane chaparral, aspen groves, and meadows. Independence Lake is the only lake in the Lahontan drainage (the watersheds of the Carson, Humboldt, Truckee, and Walker Rivers) that still has a full complement of native fishes. It is also the only lake in the Sierra Nevada or anywhere in California that supports a wild and self-sustaining lake population of the federally threatened Lahontan cutthroat trout (LCT). TNC manages the preserve for the conservation of both the aquatic and terrestrial ecosystems, as well as limited public recreation that includes hiking, kayaking, boating, and fishing.

The legal description of the property is as follows: Portions of Sections 33, 34, and 35, T19N, R15E, and Sections 2, 3, 4, 5 and 9, T18N, R15E, MDB&M, Sierra and Nevada County, CA. The property is located at latitude 39° 26' 57" degrees north and longitude -120° 18' 05" degrees west. Refer to the attached maps for additional location details.

3.) Project Description*

Maps and Letter of Support.pdf

The proposed project is a continuation of previous forest health improvement work that has been funded in part through Truckee River Fund (TRF) grant awards, including the 2022 "Developing Forest Resilience to Fire at Independence Lake" project, which is still active and anticipated to be completed during the 2024 field season.

The California Department of Forestry and Fire Protection (Cal Fire) awarded TNC a \$2 million grant in 2020. Nearly \$1 million of the funding is still available for continued forest improvement and restoration work at Independence Lake. The \$183,610 in TRF funding being requested through this proposal would complement the Cal Fire grant and allow for an entire unit of 270 acres to be treated. Specifically, this grant would provide funding to assist with implementation of 43 acres (\$3,500 per acre) of mechanical forest thinning treatments in the T-4 Treatment Unit (refer to attached map) which is located northeast of the lake. The Cal Fire funding will be used to match TRF funds (18 acres of treatment) as well as leveraged to treat an additional 209 acres to finish thinning of the unit. Work will be implemented under the approved Timber Harvest Plan (also attached) by a Licensed Timber Operator contracted and supervised by TNC.

Continued forest management is crucial to the preservation of Independence Lake. While fire adapted forests of California were once characterized by large, widely spaced trees and periodic, mixed-severity fires, the forests are no longer fire adapted and are instead dominated by dense thickets of small trees and brush with little to no regenerative fire. Experts estimate that up to 10 million acres of forested land in California alone need some form of treatment over the next twenty years (e.g. ecological thinning, prescribed fire) to restore

their health and resiliency. Without these strategic interventions, we risk losing the many benefits healthy forests provide -- such as the provisioning of clean water and the sequestration of atmospheric carbon -- to large and high-severity megafires.

Recent events in California and Nevada forests, such as the drought induced death of more than 129 million trees over three years (2015 – 2017) and a significant increase in the number of large wildfires are clear indications that our forests need careful and active stewardship that is grounded in science and guided by ecological principles. To assist in determining the forest stewardship needs of Independence Lake, a burn probability analysis was conducted by Edward Smith, TNC Senior Forest Ecologist and Charlotte Stanley, TNC Spatial Data Analyst. The results predict that the likelihood of wildfire is moderate to high in the forests surrounding Independence Lake as depicted on the attached map of burn probability. Without continued forest health treatments at Independence Lake wildfires pose a significant threat to the forests and therefore to the Truckee River watershed. This project will contribute to mitigating those risks and will benefit not just Independence Lake, but also the surrounding watershed and water quality of the Truckee River system.

Attached here are project maps and letters of support from our partners.

4.) Grant priorities*

Explain how the proposed project advances the TRF's specific grant priorities.

This project falls within Truckee River Fund's Re-forestation and Re-vegetation Project Priority. The project will improve the resiliency of the forest to wildfires and climate change, while reducing the risk of catastrophic wildfire near the lake that would result in increased erosion and sedimentation with negative impacts to water quality and aquatic habitat.

5.) Permitting*

Provide a permitting schedule for your project along with your plan for getting the required permits and decision documents. Be sure to include the cost of permitting/decision documents as a line item in your budget.

Independence Lake THP #2_r_Part1.pdf

The proposed forest treatments have already been permitted under the Timber Harvest Plan approved by Cal Fire (see attached). No additional required permits are anticipated. Permitting costs have not been included in the project budget.

Our permitting documents are larger than the allowable 5MB. They have been submitted via email to the Northern Nevada Community Foundation program officer who is the contact for the application and are available for review. Attached here are the first 94 pages of the 216 page document.

The entire document is also available here: <https://tnc.box.com/s/0jr2b6coaro5pjkkp73du3ka4g3qjq1y>

6.) Future Land Use*

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

None. Independence Lake Preserve is owned and operated by TNC. There will be no changes to the land use in the foreseeable future.

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

Future funding will likely be needed for continued forest health maintenance. Anticipated funding sources include Cal Fire, Sierra Nevada Conservancy, and the Middle Truckee River Watershed Forest Partnership.

8.) Identify the principals involved in leading or coordinating the project or activity.*

Principals for TNC include:

Edward Smith, Senior California Forest & Fire Scientist

Christoffer Sega, Nevada Stewardship Manager

Katie Pofahl, California Project Manager

Heather Giger, Nevada Protection & Stewardship Strategy Director

Michael Riney, California Stewardship Project Manager

TNC support staff involved in the project include Fire Program Management Staff, a Senior Finance & Grants Manager, and a Senior Attorney.

9.) Number of staff positions involved in project.*

Identify how many staff will be full-time and how many will be 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.

5 part-time staff. A minimum of five TNC staff will dedicate part of their time to Independence Lake Forest Resilience project implementation.

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

0 – Due to the technical, and potentially dangerous, nature of the project work, TNC will not be using volunteers.

11.) Timeline 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.

***Note: Funding will not be provided for work performed prior to grant approval.*

Project work is anticipated to begin in the summer of 2024 and conclude prior to the onset of heavy winter snows. The timeline is variable due to uncontrollable weather and site conditions, and will be dependent on the ability for contract crews and equipment to access Independence Lake following the winter of 2023-2024. While the majority of the project work is anticipated to be completed during 2024, TNC has requested a longer award period as a safeguard against unforeseen delays – early winter conditions, equipment failures, etc.

12.) What factors will indicate a successful project?*

The success of our project will be demonstrated by the following factors:

- 1) TNC will have thinned at least 61 acres in the T-4 Unit (refer to attached Treatment Unit map) as directly funded through this proposal
- 2) TNC will have completed thinning operations on the entire T-4 Unit – a total of 270 acres, and
- 3) TNC will have conducted pile and prescribed burns (not part of this funding request) as part of the next phase of forest health improvement activities.

13.) Collaboration*

List partnerships or collaborations with other entities in relation to your proposal, if any. Grantees are encouraged to seek other funds prior to requesting money from the Truckee River Fund. Please explain what other funding opportunities were sought and if any other funds have been awarded.

Cal Fire is a key partner for the proposed Independence Lake Forest Resilience Project. Matching funds will be provided from a grant approved by Cal Fire as part of a larger forest health improvement project at Independence Lake. Cal Fire has awarded TNC nearly \$1 Million in funds to continue forest thinning and prescribed burning operations through 2024. Cal Fire will also assist with oversight of project operations and Timber Harvest Plan review.

Additionally, the Nevada Chapter of TNC will work in close collaboration with the California Chapter of TNC to manage timber harvesting contractor(s) and oversee the Licensed Professional Forester hired by TNC to monitor project work and forest health. Utilizing the staff of both TNC chapters will ensure the best coverage of project needs and timely implementation.

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.

For grant requests for projects downstream of the Vista USGS gage, the 25 percent match requirement must be met using **cash match**.

Total grant match to be provided.*

\$63,000.00

Cash

\$63,000.00

For the cash portion, is the funding already being held by the applicant for this project?

Yes

In-kind

****Note:** Provide an itemized breakdown of volunteer match in your budget with rationale.

\$0.00

Description of matching funds/in-kind donations.*

Matching funds are from a Cal Fire grant secured by our partners on this project, The Nature Conservancy's California Chapter. A grant from the Truckee River Fund will both help us to complete the total project envisioned by the Nevada and California Chapters and will leverage this \$1M grant from Cal Fire.

Attachments

Nonprofits must 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

****Please submit as one PDF document**

Org Attachments.pdf

Governmental entities must submit:

- Departmental budget in lieu of audited financial statements

Project Budget*

*Provide detail on each line-item expenditures and show which funds are committed and which have been requested to be paid for by the Truckee River Fund grant, and which will be paid for with in-kind services. Other sources of funding should be provided. Explain status of other funding if not in hand. If project is to be implemented in phases, please separate budget into each phase. **Please contact Lauren Renda at lrenda@nevadafund.org for a sample budget template.***

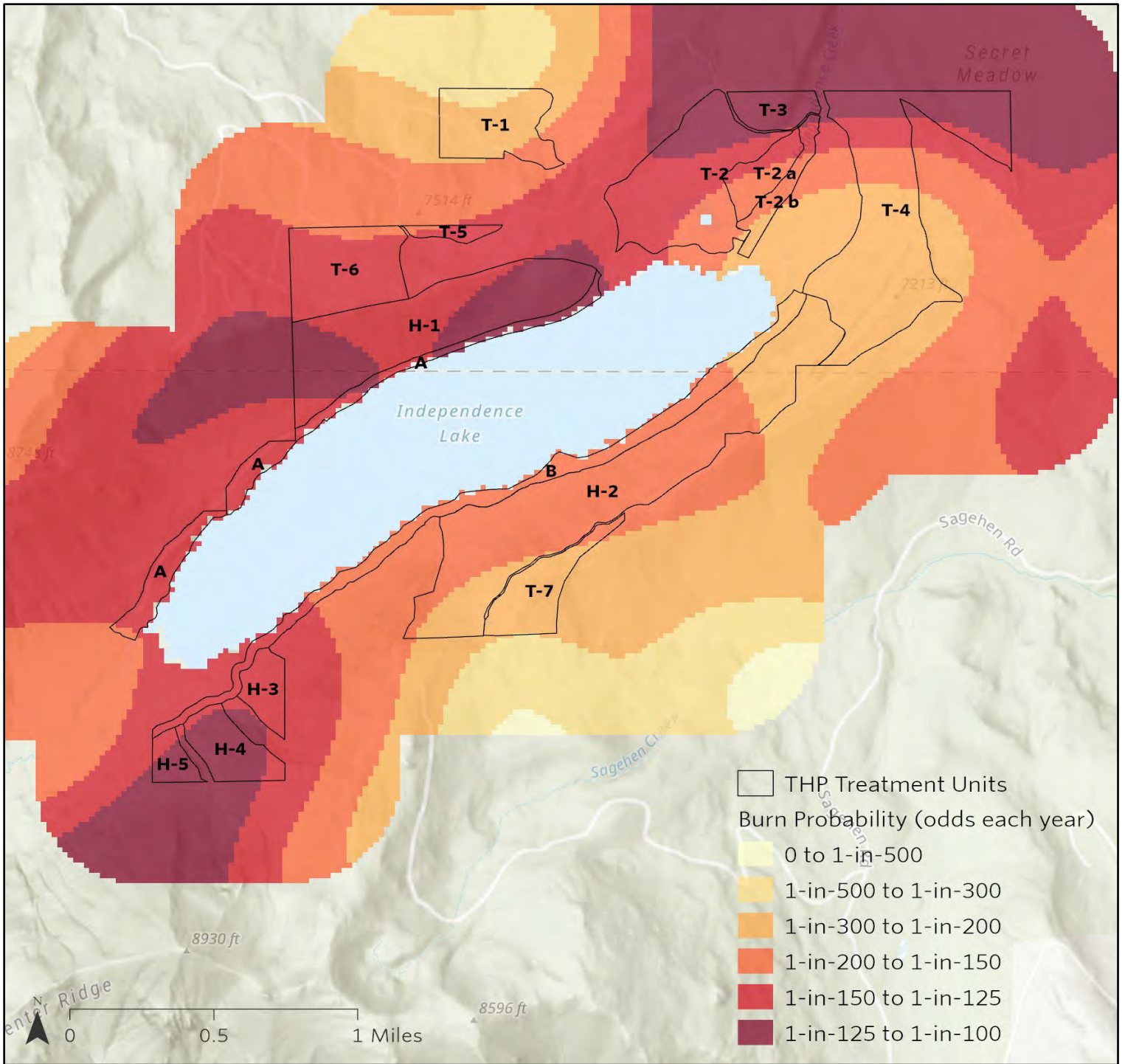
****Notes:**

- *Indirect/overhead expenses cannot exceed 25 percent; TRF may fund indirect/overhead up to 25% based on availability of funds.*

- *Applicants should be prepared to provide reduced budgets during the review of applications by the TRF Advisory Committee when funds are limited.*
- *Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.*

I-Lake FY 2024 TRF Forest Health Application BUDGET.pdf

Figure 1. Burn Probability for Lands around Independence Lake.



TNC - Independence Lake THP - Operations Map 63_f
 Section 33, 34, 35, T19N, R15E &
 Sections 2, 3, 4, 5 & 9, T18N, R15E, MDB&M
 Independence Lake USGS 7.5' Quad
 40 ft Contour 1:24,000

04-17-24 BOARD Agenda Item 14
 #291



0 1,800 3,600 7,200 Feet

Legend

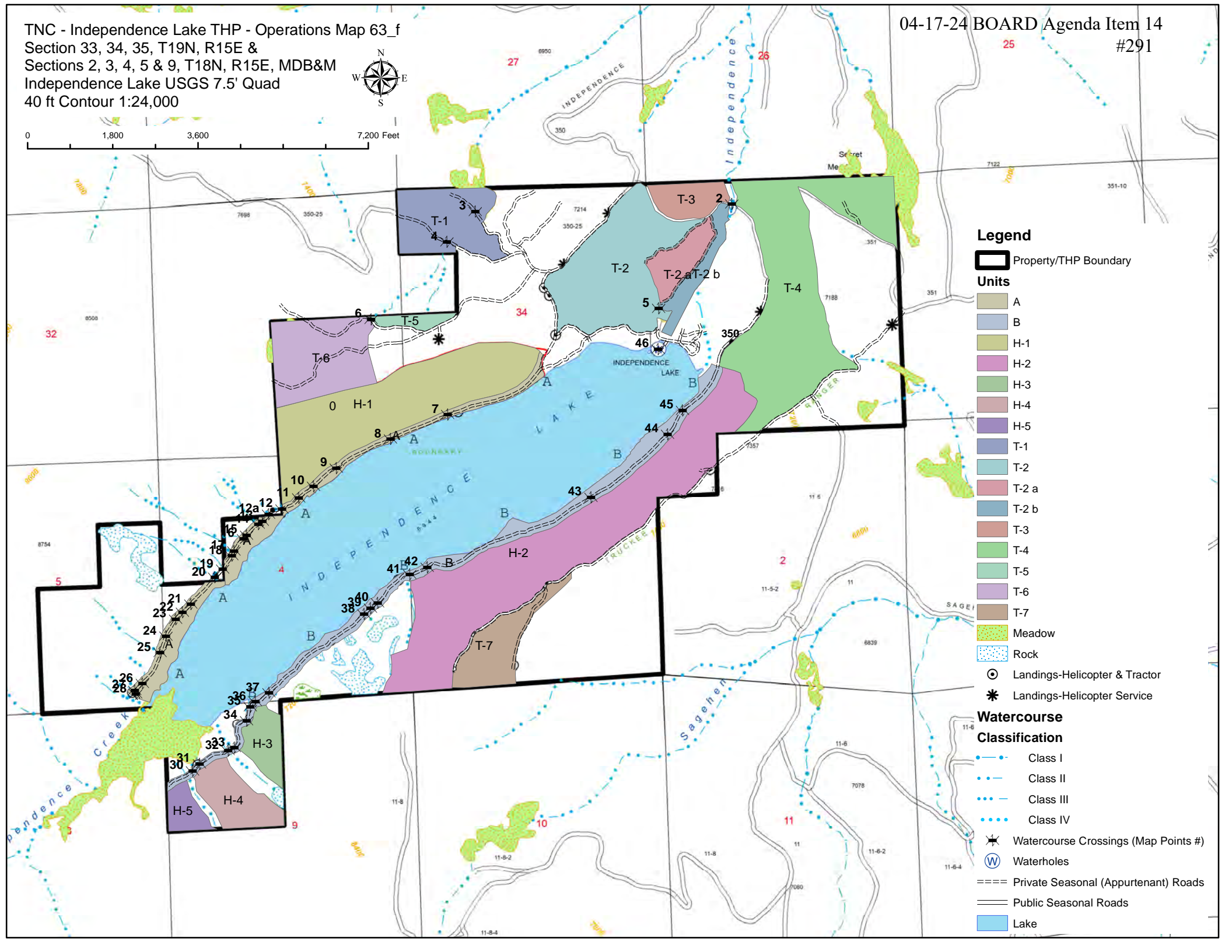
Property/THP Boundary

Units

- A
- B
- H-1
- H-2
- H-3
- H-4
- H-5
- T-1
- T-2
- T-2 a
- T-2 b
- T-3
- T-4
- T-5
- T-6
- T-7
- Meadow
- Rock
- Landings-Helicopter & Tractor
- Landings-Helicopter Service

Watercourse Classification

- Class I
- Class II
- Class III
- Class IV
- Watercourse Crossings (Map Points #)
- Waterholes
- Private Seasonal (Appurtenant) Roads
- Public Seasonal Roads
- Lake



February 2, 2024

Truckee River Fund
C/O Community Foundation of Northern Nevada
50 Washington Street, #300
Reno, NV 89503

To Whom It May Concern:

The Truckee River Watershed Council is pleased to offer our support to The Nature Conservancy's Nevada Chapter in its application to the Truckee River Fund.

As a member of the Middle Truckee River Watershed Forest Partnership, we work closely with TNC's Nevada Chapter to effectively manage the forest and improve ecological conditions along the Truckee.

While the project that the Nevada Chapter is proposing is upstream of our partnership boundaries, we urge The Truckee River Fund to support this request. The forest along the entire river needs active management and treatment for its health and the health of the entire watershed.

Thank you for your consideration, please reach out to me directly if you have any questions.

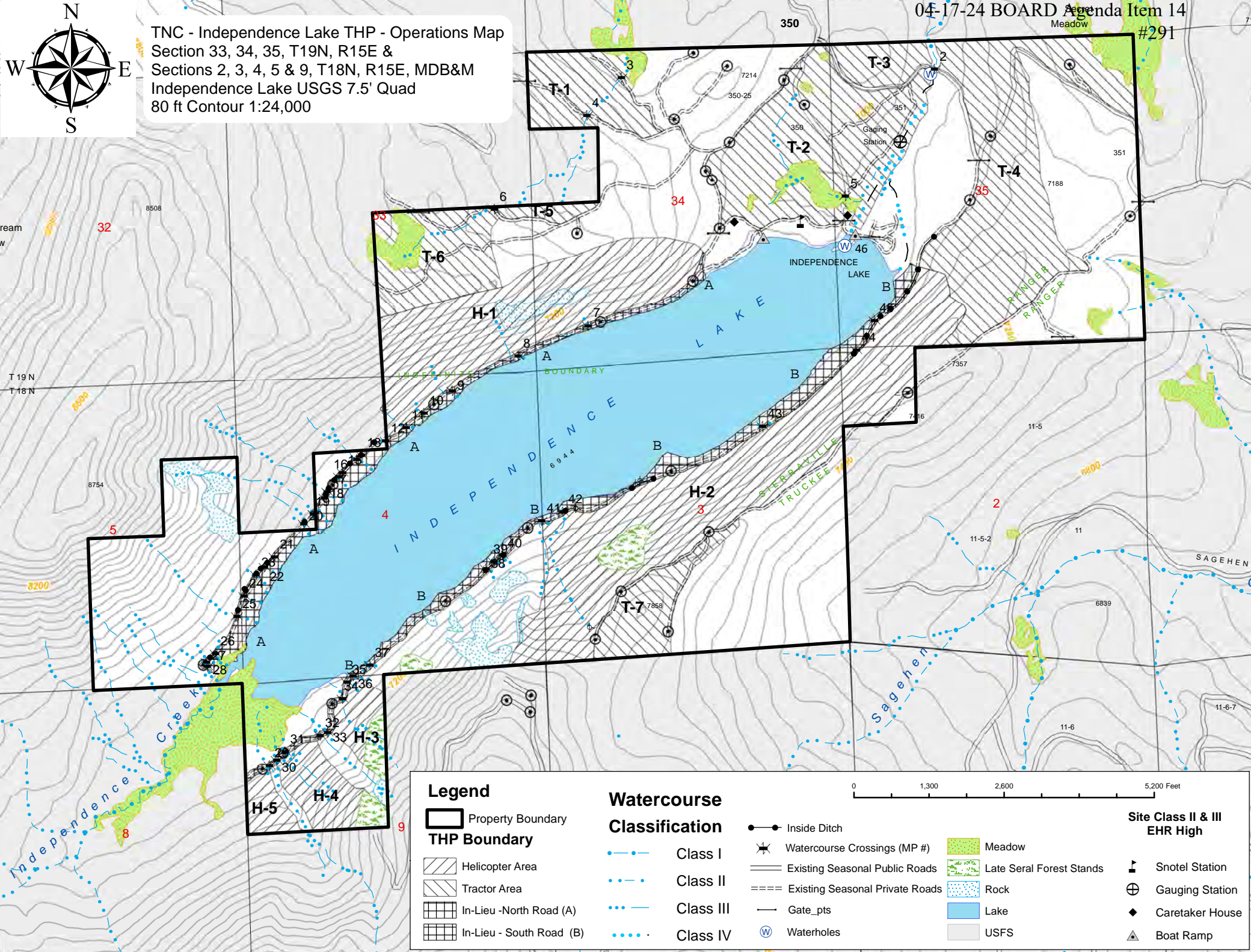
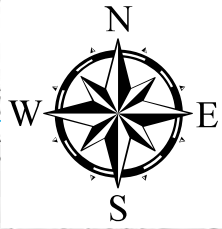
Sincerely,

A handwritten signature in black ink, appearing to read "Eben Swain", is written over a horizontal line.

Eben Swain, Project Director

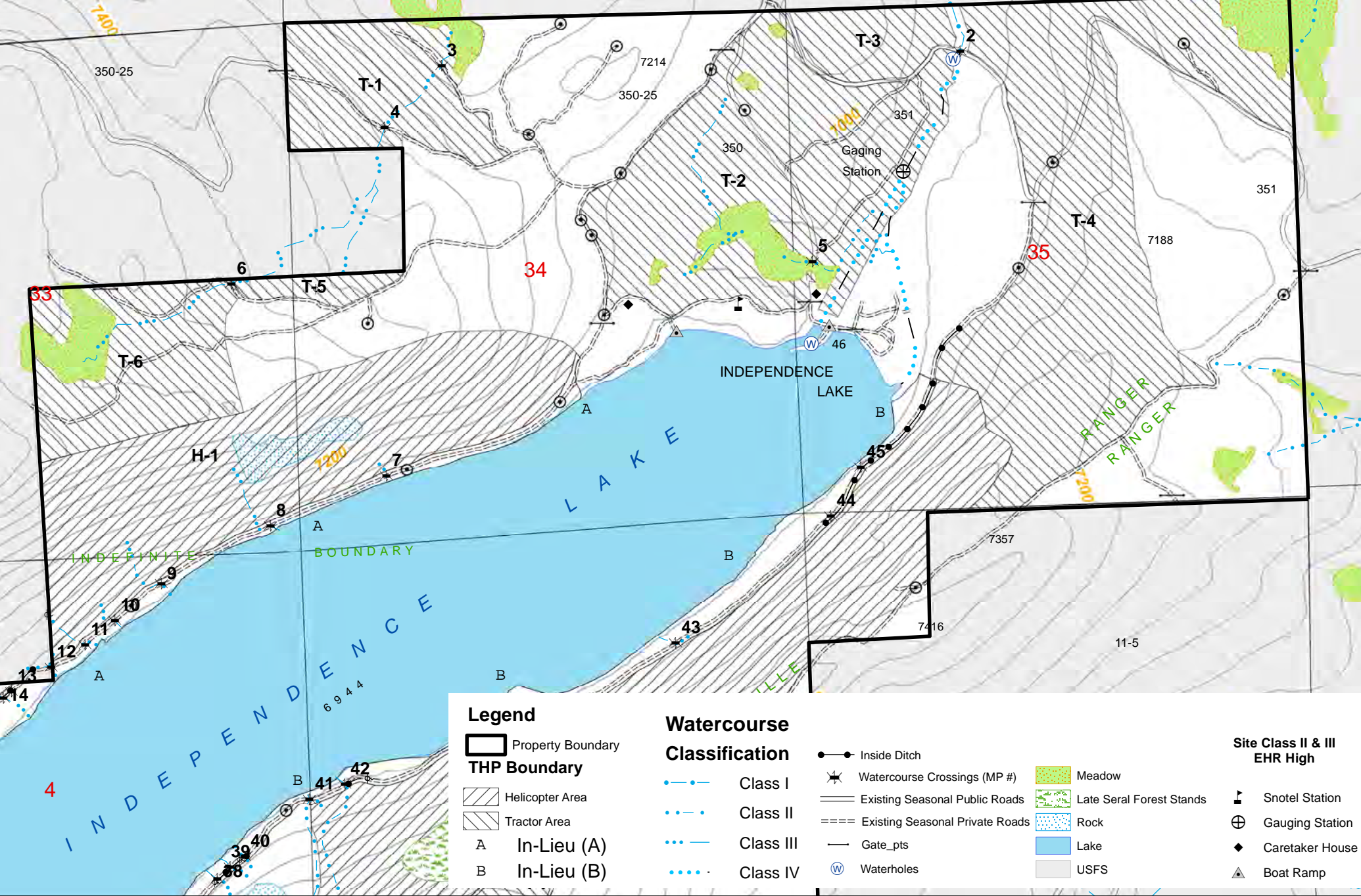
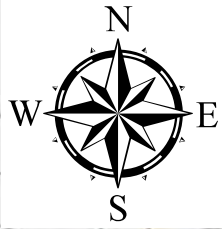
Truckee River Watershed Council

TNC - Independence Lake THP - Operations Map
Section 33, 34, 35, T19N, R15E &
Sections 2, 3, 4, 5 & 9, T18N, R15E, MDB&M
Independence Lake USGS 7.5' Quad
80 ft Contour 1:24,000

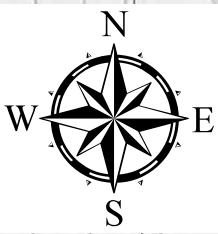


Legend		Watercourse Classification		Site Class II & III EHR High	
	Property Boundary		Class I		Meadow
	THP Boundary		Class II		Late Seral Forest Stands
	Helicopter Area		Class III		Rock
	Tractor Area		Class IV		Lake
	In-Lieu - North Road (A)		Inside Ditch		USFS
	In-Lieu - South Road (B)		Watercourse Crossings (MP #)		Snotel Station
			Existing Seasonal Public Roads		Gauging Station
			Existing Seasonal Private Roads		Caretaker House
			Gate_pts		Boat Ramp
			Waterholes		

TNC - Independence Lake THP - Operations Map (A)
 Section 33, 34, 35, T19N, R15E &
 Sections 2, 3, 4, 5 & 9, T18N, R15E, MDB&M
 Independence Lake USGS 7.5' Quad
 80 ft Contour 1:15,840

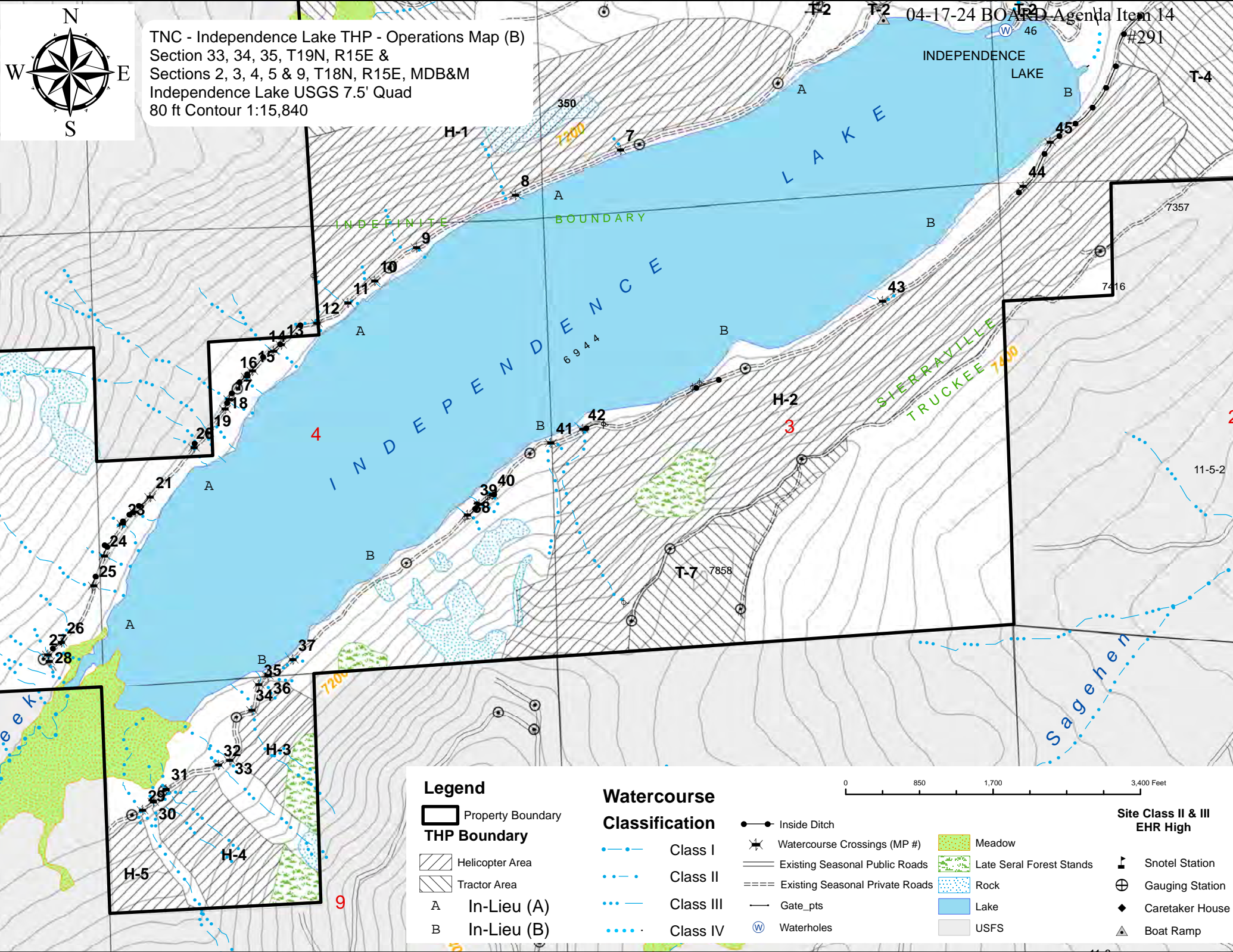


Legend		Watercourse Classification		Site Class II & III EHR High	
	Property Boundary		Class I		Meadow
THP Boundary			Class II		Late Seral Forest Stands
	Helicopter Area		Class III		Rock
	Tractor Area		Class IV		Lake
A	In-Lieu (A)		Inside Ditch		USFS
B	In-Lieu (B)		Watercourse Crossings (MP #)		Snotel Station
			Existing Seasonal Public Roads		Gauging Station
			Existing Seasonal Private Roads		Caretaker House
			Gate_pts		Boat Ramp
			Waterholes		



TNC - Independence Lake THP - Operations Map (B)
 Section 33, 34, 35, T19N, R15E &
 Sections 2, 3, 4, 5 & 9, T18N, R15E, MDB&M
 Independence Lake USGS 7.5' Quad
 80 ft Contour 1:15,840

04-17-24 BOARD Agenda Item 14
 #291



Legend

- Property Boundary
- THP Boundary**
- Helicopter Area
- Tractor Area
- A In-Lieu (A)
- B In-Lieu (B)

Watercourse Classification

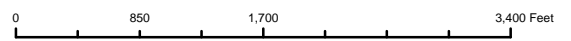
- Class I
- Class II
- Class III
- Class IV

- Inside Ditch
- Watercourse Crossings (MP #)
- Existing Seasonal Public Roads
- Existing Seasonal Private Roads
- Gate_pts
- Waterholes

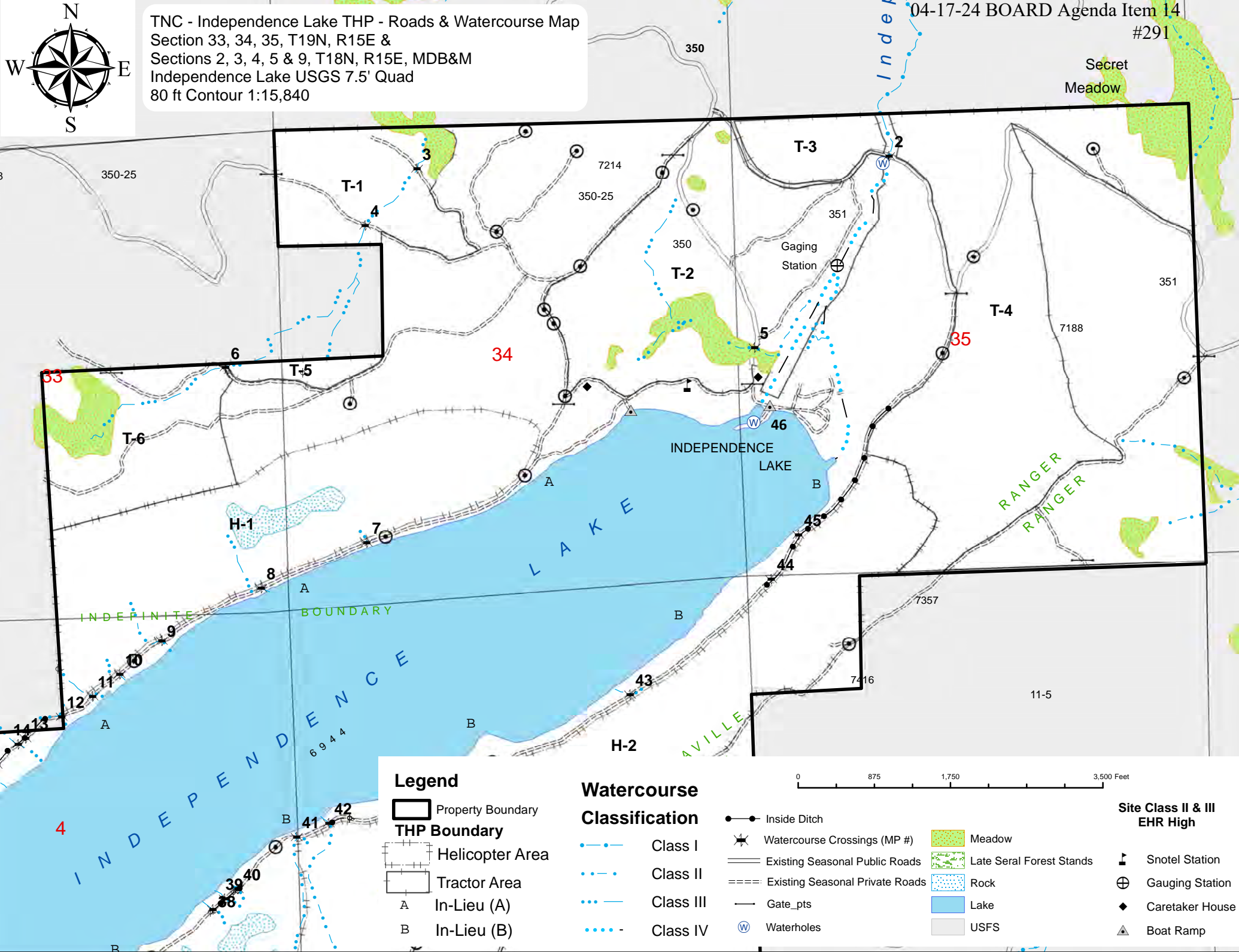
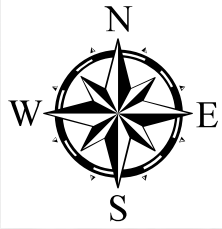
- Meadow
- Late Seral Forest Stands
- Rock
- Lake
- USFS

Site Class II & III EHR High

- Snotel Station
- Gauging Station
- Caretaker House
- Boat Ramp



TNC - Independence Lake THP - Roads & Watercourse Map
 Section 33, 34, 35, T19N, R15E &
 Sections 2, 3, 4, 5 & 9, T18N, R15E, MDB&M
 Independence Lake USGS 7.5' Quad
 80 ft Contour 1:15,840



Legend

- Property Boundary
- THP Boundary
- Helicopter Area
- Tractor Area
- In-Lieu (A)
- In-Lieu (B)

Watercourse Classification

- Class I
- Class II
- Class III
- Class IV

- Inside Ditch
- Watercourse Crossings (MP #)
- Existing Seasonal Public Roads
- Existing Seasonal Private Roads
- Gate_pts
- Waterholes

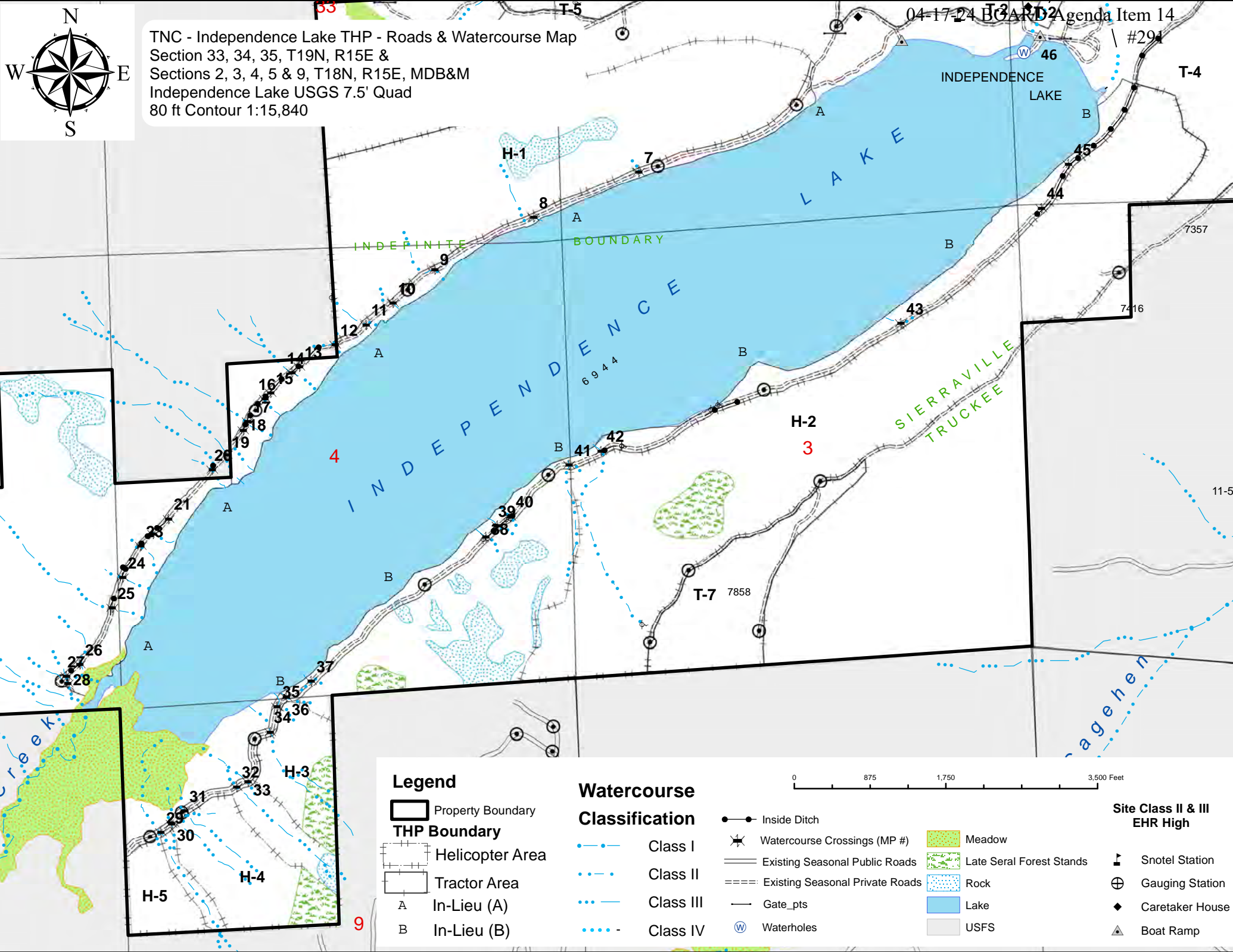
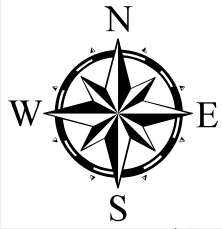
- Meadow
- Late Seral Forest Stands
- Rock
- Lake
- USFS

Site Class II & III EHR High

- Snotel Station
- Gauging Station
- Caretaker House
- Boat Ramp



TNC - Independence Lake THP - Roads & Watercourse Map
Section 33, 34, 35, T19N, R15E &
Sections 2, 3, 4, 5 & 9, T18N, R15E, MDB&M
Independence Lake USGS 7.5' Quad
80 ft Contour 1:15,840



Legend

- Property Boundary
- THP Boundary
- Helicopter Area
- Tractor Area
- A In-Lieu (A)
- B In-Lieu (B)

Watercourse Classification

- Class I
- Class II
- Class III
- Class IV

- Inside Ditch
- Watercourse Crossings (MP #)
- Existing Seasonal Public Roads
- Existing Seasonal Private Roads
- Gate_pts
- Waterholes
- Meadow
- Late Seral Forest Stands
- Rock
- Lake
- USFS

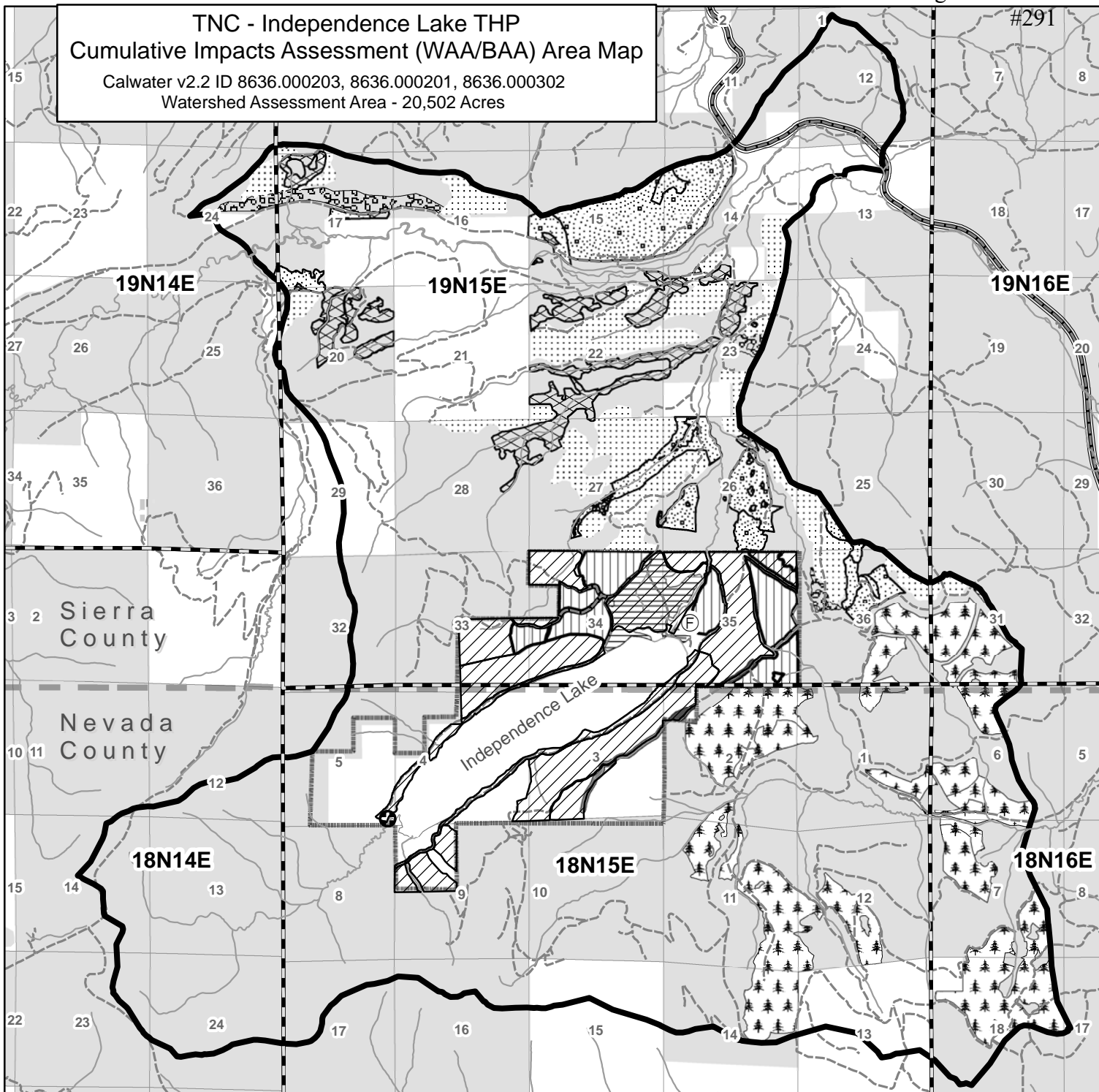
Site Class II & III EHR High

- Snotel Station
- Gauging Station
- Caretaker House
- Boat Ramp



**TNC - Independence Lake THP
Cumulative Impacts Assessment (WAA/BAA) Area Map**

Calwater v2.2 ID 8636.000203, 8636.000201, 8636.000302
Watershed Assessment Area - 20,502 Acres



Legend

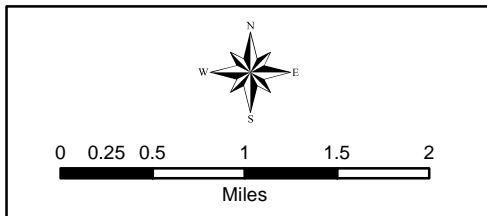
- Watershed/Biological Assessment Area Boundary (WAA, BAA)
- Independence Lake Property Boundary
- County Boundary
- Township & Range
- USFS
- Watercourses
- Roads
- Highway 89

Project Areas - Present & Future

- Transition
- Sagehen
- Outback
- Liberty
- Phoenix
- Independence Lake Proposed THP Boundary 2020

Past

- Upper Independence Creek Cut-bank Restoration
- Independence Lake Spillway Fish Barrier
- THP 2-11-069-SIE - Completed
- Independence Lake 2009 Fuel Break
- Independence Lake 2009/2010 Biomass Thinning



TRF #292 River Justice: Pollution Reduction and Sustaining Water Quality

Truckee River Fund- Spring 2024

Indigenous Peoples Council on Biocolonialism

Autumn Harry
PO Box 411
Nixon, NV 89424

O: 775-857-9432

Autumn Harry

PO Box 76
Nixon, NV 89424

autumnharry24@gmail.com
O: 775-857-9432

Application Form

Truckee River Fund Grant Priorities

Truckee Meadows Water Authority (TMWA) recommends that the Truckee River Fund (TRF) Advisory Committee (the "Committee") give preference to well-supported, clearly drafted grant requests that consider substantial benefits to TMWA customers for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby water treatment and hydroelectric plant intakes.

- **Aquatic Invasive Species (AIS):** Projects/Programs that support the prevention or control of aquatic invasive species in the mainstem Truckee River, Lake Tahoe, other tributaries and water bodies in the Truckee River system.
- **Watershed Improvements:** Projects that reduce erosion or sediment, suspended solids, or total dissolve solids (TDS) discharges, nutrients, industrial contaminants, or bacterial pollutants to the River. Projects or programs that are located within 303d (impaired waters) and total maximum daily load (TMDL) sections of the River should be considered, both in California and Nevada. Innovative techniques should be encouraged. The following link identifies impaired sections of the river and its tributaries: <https://mywaterway.epa.gov/>.
- **Local Stormwater Improvements:** Projects that demonstrably 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.
- **Re-Forestation and Re-Vegetation Projects:** Projects to restore forest and upland areas damaged by fire and historical logging operations, and to improve watershed 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.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** Projects to support water quality improvement in creeks and tributaries to the Truckee River.
- **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 that do not fall clearly into the one of the above-mentioned categories.

Notes:

- For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Northern Nevada for additional criteria at lrenda@nevadafund.org.
- For proposals in the Lake Tahoe Basin, the Truckee River Fund (TRF) typically only funds proposals related to Priority I and VI.

Grantee Requirements

GRANTEE REQUIREMENTS

To be eligible for funding, grantees must adhere to the following requirements:

- Funds are to be used and/or disbursed exclusively for the charitable uses and purposes.

- The Fund shall be used exclusively for projects that protect and enhance water quality or water resources of the Truckee River, or its watershed.
- Grantees may include 501(c)(3) organizations and governmental entities. Any grants to governmental entities must be made exclusively for public benefit purposes.
- All grantees will be required to sign a grant agreement stipulating their agreement to all applicable terms, conditions, and reporting requirements.
- Organizations or entities sponsoring proposals are prohibited from ex parte communications with members of the Committee regarding such proposals while those proposals are pending before the Committee, and such communications may be grounds for rejecting a proposal.
- 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.

TRUCKEE MEADOWS WATER AUTHORITY BOARD OF DIRECTOR'S DISCRETION

For each proposal submitted and recommended by the Committee the TMWA Board of Directors has absolute discretion to:

- Accept or reject any proposal;
- Accept a proposal on the condition that certain modifications be made;
- Assess proposals as they see fit, without in any way being obligated to select any proposal;
- Determine whether proposals satisfactorily meet the evaluation criteria set out in this RFP;
- Reject proposals with or without cause, whether based on the evaluation criteria set out above or otherwise.

PERFORMANCE GUIDELINES

To maintain eligibility to receive grant funds, each Charitable Beneficiary must comply at all times with the following requirements:

- Must be exempt from federal income taxation under Section 501(c)(3) of the Code;
- Shall use all Fund distributions toward projects that are appropriate and legal public expenditures;
- Must provide financial details and/or reports of their organizations upon request;
- Must submit quarterly reports.
- Must not use any Fund distributions for political contributions or political advocacy;
- Must either implement the projects, activities, and/or programs for which they received Fund distributions within six months of the date in which such distributions are received or by date(s) as agreed upon in the grant acceptance agreement, or must return all such distributions to the Community Foundation of Northern Nevada forthwith;
- Must provide the Community Foundation of Northern Nevada a report detailing the completion of their projects, activities, and/or programs; and
- Must sign an agreement regarding their compliance with the qualifications hereof.

Project Evaluation Criteria

EVALUATION CRITERIA

Applications are evaluated according to the following criteria and in order of priority. If the grant applicant does not meet the “Grantee Requirements”, the application will not be considered.

1. RELEVANCE OF PROPOSAL TO THE TRF PROGRAM

- Address TRF grant priorities – Does the project address at least one of the TRF grant priorities, as described at the beginning of the RFP?
- Meet multiple objectives – Does the project meet multiple grant priorities?
- Public benefit of the project – Does the project help TMWA protect its sources of drinking water?
- Benefit to TMWA customers – Is there a direct benefit to TMWA customers?
- Project location – Is the project located upstream of one of TMWA’s water treatment plants?

2. QUALITY OF PROJECT DESIGN

- Appropriateness of selected project methods – Do the proposed project strategies make sense to address the watershed and/or water quality concern(s) outlined by the applicant?
- Thoroughness of project design – Is the project design adequately detailed to ensure the desired outcome(s)?
- Sustainability of project – Will the benefits of the project continue after the grant funds are expended?
- Project longevity – If ongoing operation & maintenance (O&M) is required to maintain benefits, is it funded?
- Consideration of existing research – Does the project consider existing research, planning efforts, or assessments related to the Truckee River watershed?

3. MEASURABILITY OF PROJECT SUCCESS

- Identification of project benchmarks or milestones – Has the applicant described the steps necessary to complete the project?
- Demonstrated ability to measure the results of the project – Does the project have adequate measurable outcomes to evaluate project success?
- Benefits expected from a successful project – Are there clear goals that will be obtained on project completion?
- Readiness to begin project – Is the grant applicant ready to undertake and complete the project?

4. EFFECTIVENESS OF ORGANIZATION

- Qualifications of applicant for the proposed project – Does the applicant have adequate experience and credentials to perform the work described in the application?
- Collaborative efforts – Are there partner organizations supporting or benefiting from the project?
- Demonstrated ability of applicant to manage and complete the project – Has the applicant successfully completed projects similar to the one proposed? If previously funded by TRF, has the applicant met performance requirements and completed projects successfully?

5. ADEQUACY OF PROPOSED BUDGET

- Availability and status of matching funds – Does the project provide a minimum of 25 percent match in cash and/or in-kind services? If the project is downstream of the USGS Vista gage, is the 25 percent match requirement met using cash match?
- Total project cost relative to benefits – Is the project cost reasonable given the expected project outcome(s)?
- Appropriateness of budget – Are the costs presented in the budget adequately detailed and do they seem reasonable? Is the project under the 25 percent indirect/overhead expense limit?

Organization Information

Organization Name*

Indigenous Peoples Council on Biocolonialism

Organization Type*

501(c)(3) Nonprofit

EIN

If the organization is a 501c3, please include the EIN#.

88-0425570

Director of Organization*

Debra Harry

Project Contact Name*

Autumn Harry

Project Contact Postion/Title*

Executive Director

Project Contact Email*

autumnharry24@gmail.com

Project Contact Phone Number*

775-857-9432

Organization Mission*

Healing Waters Institute (HWI) is an Indigenous-led organization, sponsored by Indigenous Peoples Council on Biocolonialism (IPCB).

Our mission is to engage with Indigenous communities and focus on the continued Nation building of water and land protection. HWI will focus on reaffirming connections to water for communities in Pyramid Lake and Reno/Sparks through education, mutual aid projects, and helping with access to activities on the land and water. Growing from this on-the-ground-engagement, we will collectively advocate on local policy issues that relate to preserving and enhancing water throughout the Truckee River system and throughout the Great Basin.

Project Information

Project Title*

Name of Project.

TRF #292 River Justice: Pollution Reduction and Sustaining Water Quality

Amount Requested*

\$97,220.00

Project Start Date*

03/01/2024

Project End Date*

02/28/2025

This funding will be used to:*

Complete this sentence with a max of 2 sentences.

This funding will be used to support Indigenous-led water protection efforts focused on removing solid waste from the Truckee River and developing educational resources to further protect downstream communities and fish species.

This project is on:*

Check all that apply

Public land

Are government permits or decision documents needed for the project?*

No

If so, are those permits and decision documents already secured?

If permits and decision documents are needed but not yet secured, in #4 of the Narrative Requirements provide a list of permits and documents needed and a schedule for securing them.

Previous Funding from Truckee River Fund

Has your organization received other grants from the Truckee River Fund?*

Yes

If yes, please include the following information for all previously funded projects:

- *Date awarded*
- *Project # and Title*
- *Amount of award*

Please attach additional pages as needed to list ALL previously funded projects.

Truckee River Fund (2022-2023)

TRF #275

\$95,718

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.
- E. Other projects that meet the evaluation criteria.

C.)

E.)

Narrative Requirements

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

All projects are required to have measurable outcomes.

For the 2024 fiscal year, our focus for the Healing Waters Institute (HWI) is to continue River Justice through promoting the health of the Truckee River. The proposal includes the submission of the following four projects supported by Truckee River Fund (TRF):

- 1) Continue to recruit and maintain watershed partnerships to improve commitments and to be in solidarity with our Indigenous-led River Justice program.
- 2) Produce a TRF-funded Water Pollution and Solid Waste Reduction documentary with a narrative developed by a contracted journalist to promote the successful work carried out by the Agency and HWI. Disseminate these stories with the public audience and to all of the partners who have been recruited in the second year of this project.
- 3) We aim to complete eight (8) cleanups with volunteers and community partners. These partners may be non-profit organizations, Tribal, Federal, State, County and local municipalities. HWI aims to partner with groups who will share work and the success in reducing solid waste accumulations within the riparian corridor.
- 4) We commit to scheduling quarterly meetings to work with partners to reduce solid, municipal, industrial and toxic waste that could further impact water quality, endangered Cui-ui (Kooyooe), and the threatened Lahontan cutthroat trout (Agi).
 - o River Justice would help build and develop a series of stakeholder meetings to understand Keystone species like the Lahontan cutthroat trout and Cui-ui. These species are important to the Sierra Nevada and Great Basin ecosystems. It is understood that Keystone species could cause drastic impacts to other species if their populations change.
 - o We suggest working to develop successful partnerships with Washoe County, City of Reno/Sparks and the Tahoe Reno Industrial Park. This would assist Truckee Meadows Water Authority to take the lead of developing positive solutions in reducing water pollution and solid waste management within the river corridor. The fundamental goal in building these relationships is to minimize environmental harm to downstream communities.

2.) Describe the project location.*

Include site map and aerial photos if applicable/possible as an attachment.

This grant supports stewardship and assists partnerships from Lake Tahoe to the terminus of Pyramid Lake. The majority of our work will be within the Cities of Reno and Sparks, the Lower Truckee River, and the Pyramid Lake Paiute Reservation.

3.) Project Description*

Healing Waters Institute (HWI) is submitting this grant in pursuit of the second year of a successful River Justice program. Within the past year, HWI has organized four large-scale River Justice clean-ups, hosted a drone training, hired two interns to assist with goals, strengthened organizational partnerships, and engaged local community members in water protection efforts. Indigenous Peoples of the Pyramid Lake Paiute Tribe (PLPT) are leading river protection efforts, because the river cannot speak for itself. This is known as River Justice. Throughout settler history, we understand anthropogenic and extractive impacts have upset the freshwater and pristine condition of surface waters. Municipal, industrial, toxic, chemical, solid, and increased nutrients enter the Truckee River from the Cities of Reno/Sparks, Interstate 80, and other upstream communities. Much of this pollution flows downstream to the Pyramid Lake Paiute Reservation and lower Truckee River, which threatens the Keystone species such as the federally endangered Cui-ui (*Chasmistes cujus*), and threatened Lahontan cutthroat trout (*Oncorhynchus clarkii henshawi*). Keystone species are defined as species that define a region and bring specialized needs to this group of fish. Indigenous Peoples including the Reno-Sparks Indian Colony and the Pyramid Lake Paiute Tribe continue to protect their cultural and traditional connections to land and water. Indigenous Peoples advocate for Environmental Justice to prevent their homelands from contamination, extraction, and exploitation.

Every day, Native people connect and continue to protect water. Their everyday struggle to maintain traditional, cultural, and spiritual connections to land, air, and water is being threatened. This grant will support the above projects in order to achieve the long-term health of the waters, wildlife, and communities of the lower Truckee River. Further, it will promote the necessary work for the Truckee Meadows Water Authority and Community Foundations to find solutions to the problems. This project is positive and commits to being a true champion in Environmental Protection and working toward strategies with Indigenous Peoples.

Project Tracking and Monitoring River Health

Surveying and use of drones is a needed tool to monitor the progress of riparian corridor health. In our first grant year, we initiated drone training to increase the capacity and support the skills of Tribal members, volunteers and partners. The DJI Mavic drone will be flown over the Truckee River to monitor river health and project tracking for Truckee River Fund grant. We plan to schedule two trainings to assist surveying and monitoring River Justice cleanups.

Our data and survey methods are specifically designed to conform to the Truckee River Dashboard being developed by One Truckee River. We are committed to work as partners to deliver data more efficiently through the submittal of data through google forms. Trash removed from the river and added to the solid waste database will help track the dynamics of solid waste trends.

River Justice must be an ongoing program and is committed to engage more partners each year. We value that HWI will bring attention to aquatic invasive weeds, noxious weeds, erosion, sediment discharges, and restoration, revegetation, and other stewardship needs along the lower Truckee River, all of which will help the PLPT and other stakeholders identify and plan for future work to improve river health. HWI continues to collaborate with mutual aid programs to decrease food waste, use reusable/compostable dinnerware, and are steering partners to plan their own independent cleanups. This enables us to all share the costs and labor of Solid Waste reduction. We are solution-oriented and develop a focus to meet with potential and loyal partners frequently. Mutual aid groups are effectively strategizing efforts to reduce litter and solid waste within the Truckee Meadows.

Site Clean Ups

During the spring and fall of 2024, a reconnaissance team will identify four clean-up sites along the Truckee River and four sites on the shorelines of Pyramid Lake. This will involve coordination with Truckee Meadows Water Reclamation Facility (TMWRF), Washoe County, Cities of Reno/Sparks, and River Justice

partners/volunteers to further plan for the success of waste removal. We have been in coordination with Washoe County to acquire 30-yard dumpsters to be utilized during our clean-ups. Our focus is to continue data collection keep track of the number of volunteers, the waste removed (cubic yards), cost of supplies, disposal fees, transportation costs, site location, tracking in-kind, etc. This data will be collected for every clean-up and stewardship event.

Pollution Reduction Short Documentary

Education is crucial in work to protect the river, so it is beneficial for all partners and stakeholders to support a short documentary on water and solid waste reduction. As TRF and HWI work together, we can share the successes of our work by using photos, interviews, drone footage, and media to help develop TRF's priorities on improving riparian health through River Justice.

To help all stakeholders better understand the impacts of our collective failure to control litter and pollution upstream, HWI will coordinate with Pyramid Lake Paiute Tribal Council, the PLPT Interdisciplinary Team, and other stakeholders to provide a voice on their values and impacts that should be addressed. The process of the short documentary will begin with the vision of TRF, PLPT, volunteers, and partners. The documentary will employ a very fair perspective on sharing the successes of River Justice and pollution reduction support and advocacy. The river is regaining its beauty and this documentary will be available to the public and partnership organizations. It will also include the initial meeting with videographers and journalist who will capture the ideas, visions, and documentary focus. Our intended audience is all people living within the Truckee River Watershed and contribute to the TRF, Indigenous land defenders, community organizers, elected officials, stakeholders, and all people dedicated to the protection of water resources.

This grant includes support for both principals to attend one environmental stewardship conference and one environmental justice conference to learn best practices to incorporate into HWI's mission. This grant will support HWI's goal to build an Indigenous-led stewardship program to address the needs of the lower Truckee River, and to foster stronger relationships and coordination between the PLPT and other stakeholders managing the river. Our commitment is to continue to educate all those who drink, bathe, recreate, work, eat, and pollute upstream, so we can all work together to heal and sustain a healthy Truckee River.

4.) Grant priorities*

Explain how the proposed project advances the TRF's specific grant priorities.

Our monitoring program will help identify challenges such as:

- Continue to reduce waste pollution and increase water quality goals for the river.
- Continue to recruit partners to provide stewardship and adding their organizational commitments to the watershed.
- Produce a Pollution Reduction documentary for the public, Indigenous communities, TMWA customers and communities within the Truckee River Watershed which educates the success of River Justice

5.) Permitting*

Provide a permitting schedule for your project along with your plan for getting the required permits and decision documents. Be sure to include the cost of permitting/decision documents as a line item in your budget.

No permits will be required for any work supported by this grant.

6.) Future Land Use*

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

This grant will not be affected by any future changes in land use, zoning, or jurisdiction

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

Until upstream communities stop polluting the Truckee River and learn to respect its life-giving waters, habitats, and downstream communities, this program will need to continue. Future funding will be necessary, which is why HWI is pursuing formal nonprofit status. This grant will help HWI build an Indigenous-led program and culture of reciprocity and stewardship in the Truckee River watershed by strengthening and deploying the leadership, wisdom, and traditional knowledge of the Northern Paiute People of Pyramid Lake. It will allow the Tribe to guide HWI's initiatives and work.

HWI is currently in the process of formalizing its 501(c)(3) status. This will allow HWI to receive future funding from the federal government, the State of Nevada, local municipalities, charitable foundations, and individual donors. Our work is just beginning.

8.) Identify the principals involved in leading or coordinating the project or activity.*

The founding members of HWI and principals responsible for fulfilling this grant are Autumn and Beverly Harry. The list of Board of Directors and Board Chair are Jolie Varela (Numu/Yokuts), Deb Harry (Numu), Mary Gibson (Newe), Vernon Rogers (Numu) and Patty Basye (Numu).

HWI is an Indigenous-led organization based on the Pyramid Lake Paiute Reservation. We plan to obtain nonprofit 501(c)(3) status by Fall 2024. Until that time, HWI is submitting this application under the fiscal sponsorship of the Indigenous Peoples Council on Biocolonialism (EIN: 88-0425570).

9.) Number of staff positions involved in project.*

Identify how many staff will be full-time and how many will be 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.

This grant supports 2 principal staff positions at 0.40 FTE each at \$37, 440 and one Volunteer coordinator/data manager funded in a contract for \$4,000 and to contract \$1,000 for a Journalist to write the documentary narrative with TRF and HWI.

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

We conservatively estimate we will recruit 450 volunteers to our river clean ups; ~350 of whom will come from Reno/Sparks; ~ 100 will come from Indigenous communities.

11.) Timeline 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.

***Note: Funding will not be provided for work performed prior to grant approval.*

The grant period will be March 1, 2024 to February 28, 2025

Complete 4 Clean-ups before November 2024
 Present- Fall 2024: Filming and Interview
 Host one drone training in Fall 2024
 November-January: Video Editing
 February 2025: Finalize Documentary
 Complete 4 Clean-ups before March 2025.
 Host one drone training in Spring 2025

12.) What factors will indicate a successful project?*

HWI has a track record of producing amazing results with recruiting partners and stakeholders, completing grant deliverables and submitting on-time reports. HWI will share a final grant report to Truckee River Fund, including metrics, link to the completed database, and TRF water pollution reduction short documentary, River Justice before/after photos and drone footage. We will also share with you all earned and social media coverage.

13.) Collaboration*

List partnerships or collaborations with other entities in relation to your proposal, if any. Grantees are encouraged to seek other funds prior to requesting money from the Truckee River Fund. Please explain what other funding opportunities were sought and if any other funds have been awarded.

In submitting this grant, HWI plans to join the many organizations and agencies already working together to steward the Truckee River, including Pyramid Lake Paiute Tribe, Reno Sparks Indian Colony, Washoe County, City of Reno, City of Sparks, Storey County, Truckee Meadows Water Authority, Sierra Pacific Power Company, Nevada Energy, US Fish & Wildlife Service, US EPA Region 9, Nevada Department of Wildlife, University of Nevada Reno, Tahoe Regional Planning Agency, Tahoe Research Environmental Program (UCDavis), Waste Management, Bureau of Land Management, One Truckee River, Desert Research Institute, Men of Color Action, Pyramid Lake High School, Big Water Fishing and others.

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.

For grant requests for projects downstream of the Vista USGS gage, the 25 percent match requirement must be met using **cash match**.

Total grant match to be provided.*

\$24,305.00

Cash

\$17,305.00

For the cash portion, is the funding already being held by the applicant for this project?

In-kind

***Note: Provide an itemized breakdown of volunteer match in your budget with rationale.*

\$7,000.00

Description of matching funds/in-kind donations.*

The majority of in-kind donations will stem from volunteer hours and miles driven for organized events.

Attachments

Nonprofits must 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

****Please submit as one PDF document**

IPCB Documents.pdf

Governmental entities must submit:

- Departmental budget in lieu of audited financial statements

Project Budget*

*Provide detail on each line-item expenditures and show which funds are committed and which have been requested to be paid for by the Truckee River Fund grant, and which will be paid for with in-kind services. Other sources of funding should be provided. Explain status of other funding if not in hand. If project is to be implemented in phases, please separate budget into each phase. **Please contact Lauren Renda at lrenda@nevadafund.org for a sample budget template.***

****Notes:**

- *Indirect/overhead expenses cannot exceed 25 percent; TRF may fund indirect/overhead up to 25% based on availability of funds.*
- *Applicants should be prepared to provide reduced budgets during the review of applications by the TRF Advisory Committee when funds are limited.*
- *Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.*

2024TRF_HWI.pdf



STAFF REPORT

TO: Board of Directors
FROM: John R. Zimmerman, General Manager
DATE: April 8, 2024
SUBJECT: Discussion and action, and possible direction to staff regarding the appointment of Eddy Quaglieri to represent TMWA on the Carson-Truckee Water Conservancy District Board

RECOMMENDATION

It is recommended that the TMWA Board appoint Eddy Quaglieri to the Carson-Truckee Water Conservancy District Board to serve a four-year term, commencing May 1, 2024 to represent TMWA.

BACKGROUND

The Carson-Truckee Water Conservancy District (the District) was formed in 1958 under the Nevada State Statute, 541, and is a political subdivision of the State of Nevada. The District maintains the 14,000 cfs channel capacity of the Truckee River from the California-Nevada State line downstream through Reno to the Glendale Bridge channel improvements under the Martis Creek Lake O&M Agreement. Under this Agreement, the District along with USACE grant encroachment permits to assure no encroachments are made to the river channel that would interfere with the minimum conveyance capacity. The District also has a program funding river restoration and a weed abatement program to assist in eliminating noxious weeds along the waterways within the District, which includes all of Carson City, Churchill and Washoe Counties, and parts of Douglas, Lyon, and Storey Counties.

In accordance with the District's by-laws, TMWA is one of the ten representatives and one of four subcontracting agency members that sit on the District Board, upon appointment by the Governor's office.



April 17, 2024

Office of the Governor
Attn: Boards and Commissions Manager
State Capitol Building
101 N. Carson Street
Carson City, NV 89701

RE: Request for appointment of Edmund Quaglieri as the TMWA representative on the Carson Truckee Water Conservancy District Board

To whom it may concern,

This letter serves as an official request to have Edmund (Eddy) Quaglieri be appointed as the TMWA representative on the Carson Truckee Water Conservancy District Board, effective as of May 1, 2024.

Mr. Quaglieri was hired as TMWA's Water Rights Manager in July of 2023. Mr. Quaglieri has over 20 years of water planning, permitting, design and operations experience in both the public and private sector. The great majority of his experience relates to civil engineering, utility operations, utility regulations, water rights management, dam safety and conservation.

If there are any questions regarding TMWA's request for reappointment, please feel free to call me at 775-834-8002.

Sincerely,

A handwritten signature in blue ink that reads 'John R. Zimmerman'.

John R. Zimmerman, Esq.

General Manager



STAFF REPORT

TO: Board of Directors
FROM: John R. Zimmerman, General Manager
DATE: April 8, 2024
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*), and the Customer Services Report (*Attachment C*).

Also, listed below are news clippings from March 13, 2024 through April 10, 2024:

- 03/13/24 [Climate Engine Launches New Website to Facilitate Drought & Vegetation Monitoring DRI](#)
- 03/14/24 [Excessive Use Fees Flood Las Vegas Water District's Coffers LVRJ](#)
- 03/14/24 [Lake Mead Water Levels Update As Close-to-Average Snowpack Reported NewsWeek](#)
- 03/16/24 [Reno City Council Approves \\$70M Spending for Water Purification Project ThisIsReno](#)
- 03/18/24 [Team Tahoe members Urge Congress to Extend the Lake Tahoe Restoration Act Tahoe Daily](#)
- 03/19/24 [Lake Tahoe Remains Murky After 25 Years and a \\$2.9 Billion Investment \(Tahoe Restoration Act\) Nevada Current](#)
- 03/20/24 [Annual Fix a Leak Week Reminds Businesses to Reduce Water Waste EPA.gov](#)
- 03/20/24 [California's 'Normal' Snowpack Could Curb Wildfire Risk, Prevent Drought KQED](#)
- 03/25/24 [So. Jordan Utah Combats Water Scarcity with New Recycling Water Tech KSLTV](#)
- 03/28/24 [New Project in Nevada Grows Alfalfa with Less Water KUNR](#)
- 03/28/24 [Ag, water and environmental law experts to convene at University of Nevada, Reno UNR.edu](#)
- 03/28/24 [Tahoe Initiates Plastic Water Bottle Ban SG Gate](#)
- 03/29/24 [Tahoe Natl. Forest Plans to Reduce Wildfire Risk YubaNet](#)
- 04/01/24 [Winter storms help end 'snow drought' across parts of the US West The Hill](#)
- 04/01/24 [Reno Water Supply Much Improved After 3 Months of Rain and Snow RGJ](#)
- 04/01/24 [Snow Survey Puts Northern Nevada Snow Season Slightly Above Average KTVN](#)
- 04/04/24 [Nevada's Snowpack Again Above Normal, Thanks to Miracle March Nevada Independent](#)



STAFF REPORT

TO: Board of Directors
THRU: John R. Zimmerman, General Manager
FROM: Bill Hauck, Water Supply Supervisor
DATE: April 08, 2024
SUBJECT: April 2024 Water Operations Report

SUMMARY

- March was a particularly good month for the region’s water supply.
- Average water content of the snowpack in the Lake Tahoe Basin increased from ~75% normal to over 115% of normal over course of the month.
- Currently, snowpack in the Lake Tahoe Basin is 121% of normal.
- Above normal runoff is projected for both the Lake Tahoe and Truckee River basins.
- All reservoirs on the Truckee River system (inc. Lake Tahoe) are projected to fill.
- As a result, normal Truckee River flows can be expected for the next 2-3 years.
- The regional water supply outlook is excellent.
- Hydroelectric generation for March 2024 was \$371,342 (@ 4,840 MWh).

(A) Water Supply

- **River Flows** - Truckee River discharge at the CA/NV state line was about 686 cubic feet per second (CFS) this afternoon. This is slightly below normal (87%), as the 115-year median daily discharge for this day at Farad is 786 CFS. Flows are projected to begin picking up later this week in response to warming springtime temperatures.
- **Reservoir Storage** - Overall Truckee River reservoir storage is ~81% of capacity. The elevation of Lake Tahoe is 6228.16 feet (0.94’ from full). Storage values for each reservoir as of April 8th are as follows:

Reservoir	Current Storage (Acre-Feet)	% Capacity (Percent)
Tahoe	629,000	84%
Boca	10,685	26%
Stampede	203,495	90%
Prosser	8,336	28%
Donner	4,071	43%
Independence	14,952	85%

In addition to the 19,023 acre-feet of storage between Donner and Independence reservoirs, TMWA also has 12,276 acre-feet of water stored between Stampede and Boca reservoirs under the terms of TROA. TMWA’s total combined upstream reservoir storage as of this writing is approximately 31,299 acre-feet.

- **Outlook** - March was an incredibly good month for our water supply and more than made up for the slow start to the winter. A powerful storm system kicked off the month, increasing snowpack basin-wide from ~75% to ~100% of normal over a span of three days. And the month was capped off with a series of smaller storms to end the traditional snowpack building season with above normal conditions for the second straight year. The last time we had back-to-back above normal winters was 2016 and 2017. The official April 1st snowpack for the Lake Tahoe Basin ended up being 114% of median. A very efficient and above normal runoff is projected this spring as a result (>120% normal). All upstream reservoirs on the Truckee River system (including Lake Tahoe) are projected to fill this year. The last time that Lake Tahoe filled completely was 2019. Normal river flows are projected for the next two to three years, which means normal operations for TMWA. All of Sierra Nevada and most of the state is drought free. The water supply outlook for our region could not be any better.

(B) Water Production

- **Demand** - TMWA customer consumption has been averaging about forty-one (41) million gallons per day (MGD). Last week, surface water made up 80% of our overall supply, and groundwater pumping the other 20%. About 2 MGD is currently being recharged back into the aquifer.

(C) Hydro Production

Generation - The average flow in the Truckee River at Farad (CA/NV state line) during the month of March was 499 CFS. All three of TMWA’s hydro-electric plants were on-line every day and 100% available.

Statistics and generation for the month are as follows:

Plant	Generation Days	% Availability	Generation (Megawatt Hours)	Revenue (Dollars)	Revenue (Dollars/Day)
Fleish	31	100%	1,843	\$141,796	\$4,574
Verdi	31	100%	1,668	\$127,134	\$4,101
Washoe	31	100%	1,329	\$102,412	\$3,304
Totals	93	-	4,840	\$371,342	\$11,979



STAFF REPORT

TO: Chairman and Board Members
THRU: John R. Zimmerman, General Manager
FROM: Eddy Quaglieri, Water Rights Manager
DATE: April 8, 2024
SUBJECT: **Water Resources and Annexation Activity Report**

RULE 7

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

Beginning Balance		3,369.79 AF
Purchases of water rights	5.69 AF	
Refunds	0.00 AF	
Sales	-25.69 AF	
Adjustments	0.00 AF	
Ending Balance		3,349.79 AF

Price per acre foot at report date: \$7,900

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		7,354.34 AF
Committed water rights	- AF	
Ending Balance		7,354.34 AF

Price per acre foot at report date: \$45,753.75 (SFR and MFR); \$39,690 (for all other services)¹

WATER SERVICE AREA ANNEXATIONS

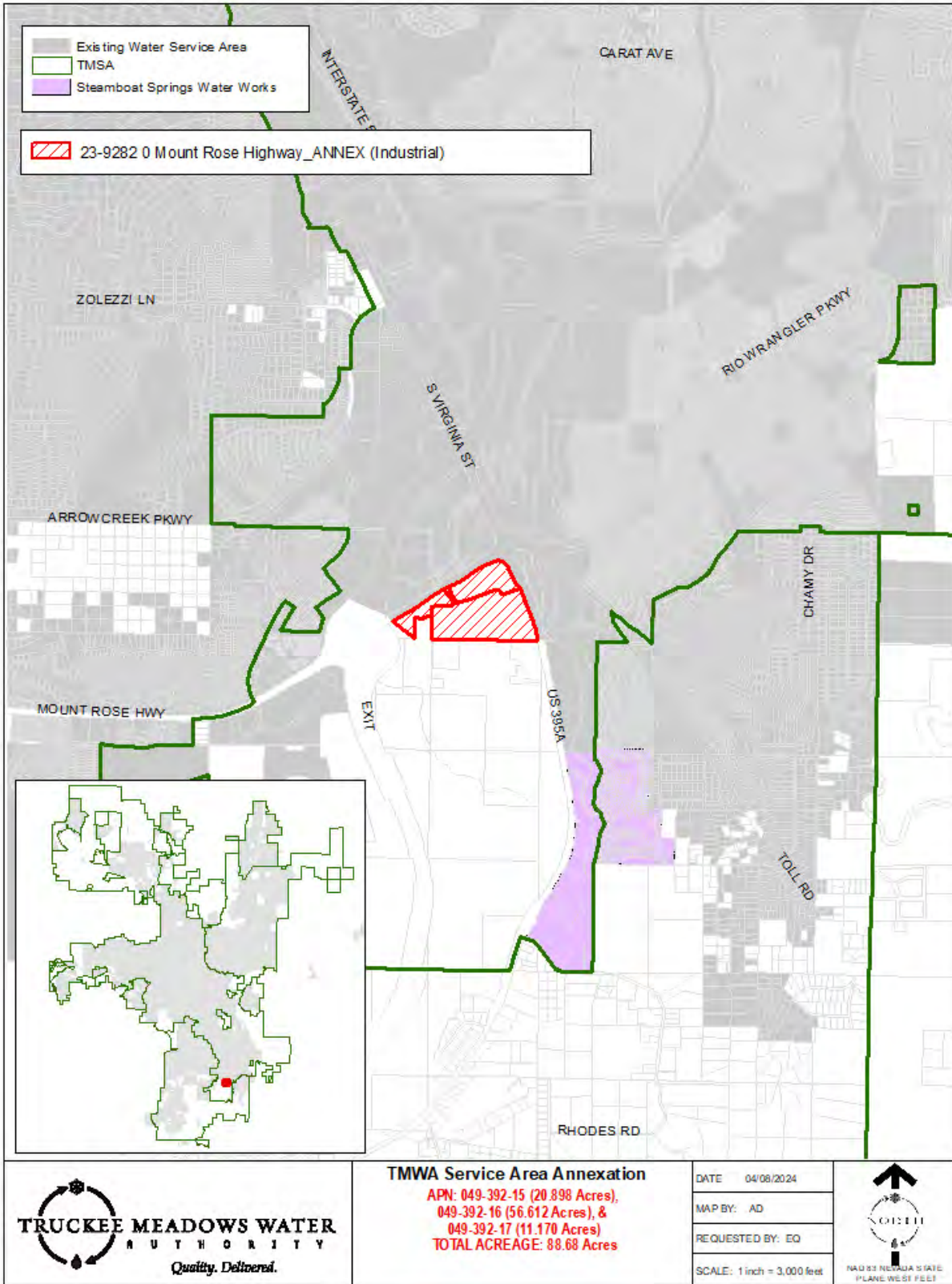
Since the date of the last report, there have been 88.68 acres (Exhibit A) annexed into TMWA's service area.

INTERRUPTIBLE LARGE VOLUME NON-POTABLE SERVICE

No new ILVNPS customers have been added during this reporting period.

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

EXHIBIT "A"



TMWA Service Area Annexation
 APN: 049-392-15 (20.898 Acres),
 049-392-16 (56.612 Acres), &
 049-392-17 (11.170 Acres)
TOTAL ACREAGE: 88.68 Acres

DATE: 04/08/2024
 MAP BY: AD
 REQUESTED BY: EQ
 SCALE: 1 inch = 3,000 feet





STAFF REPORT

TO: Board of Directors
THRU: John R. Zimmerman, General Manager
FROM: Marci Westlake, Manager Customer Service
DATE: April 17, 2024
SUBJECT: **March Customer Service Report**

The following is a summary of Customer Service activity for March 2024

Ombudsman Report – Kim Mazer

- TMWA has been doing construction off-and-on for months. No notice given. They were digging near her truck and had safety concerns. Referred customer to Director of Distribution
- TMWA came out unannounced to fix a leak on water service line. Concerned because they would be digging up her driveway, and when she called the call center the representative was rude and unhelpful. Prior to my return phone call, customer had gone into the office and the representatives in the front office had answered all her questions and allayed all her concerns. She was very appreciative of them.

Communications – Public Outreach – March

- Lydia Teel had a presentation for WaterReuse Association in Denver for One Water Nevada APWF Labor and Supply Chain and 50 people attended.
- Kara Stealand and Nate Allen had a presentation for State of Nevada – Joint Interim Standing Committee on Natural Resources & Public Lands. Presentation topic was Water Resources, TROA, wildfire mitigation and future management strategies and 30 people attended.

Conservation (2024 Calendar year)

- 121 Water Usage Reviews
- 162 Water Watcher Contacts
-

Customer Calls – March

- 5,423 phone calls handled.
- Average handling time 5 minutes 10 seconds per call.
- Average speed of answer :16 seconds per call.

Billing – March

- 137,471 bills issued.
- 58,601 customers (42%) have signed up for paperless billing to date, which equates to an annual savings of \$ 421,927.00.

Remittance – March

- 16,626 Mailed-in payments.
- 22,920 Electronic payments.
- 53,996 Payments via AutoPay (EFT)
- 16,952 One-time bank account payments.
- 8 Store payments.
- 770 Pay by Text
- 4,199 IVR Payments.
- 726 Reno office Payments.
- 32 Kiosk Payments.

Collections – March

- 11,654 accounts received a late charge.
- 3,052 Mailed delinquent notices, 0.02% of accounts.
- 724 accounts eligible for disconnect.
- 482 accounts were disconnected. (Including accounts that had been disconnected-for-non-payment that presented NSF checks for their reconnection)
- 0.18% write-off to revenue.

Meter Statistics – Fiscal Year to Date

- 4,941 Meter exchanges completed.
- 1,274 New business meter sets completed.

Service Line Warranties of America Statistics

- 11,254 Policies
- 9,075 Customers
- 84 Jobs Completed
- \$214,658.40 Customer Savings