



TRUCKEE MEADOWS WATER AUTHORITY
Board of Directors

AGENDA

Wednesday, March 16, 2022 at 10:00 a.m.
Sparks Council Chambers, 745 4th Street, Sparks, NV

Board Members

Chair Vaughn Hartung	Vice Chair Kristopher Dahir
Member Neoma Jardon	Member Alexis Hill
Member Jenny Brekhus	Member Naomi Duerr
Member Paul Anderson	

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. 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.
3. 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).
4. The Board may elect to combine agenda items, consider agenda items out of order, remove agenda items, or delay discussion on agenda items. Arrive at the meeting at the posted time to hear item(s) of interest.
5. Asterisks (*) denote non-action items.
6. Public comment is limited to three minutes and is allowed during the public comment periods. 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 Chairman has the discretion to allow public comment on any agenda item, including any item on which action is to be taken.
7. In the event the Chairman and Vice-Chairman are absent, the remaining Board members may elect a temporary presiding officer to preside over the meeting until the Chairman or Vice-Chairman are present (**Standing Item of Possible Action**).
8. Notice of possible quorum of Western Regional Water Commission: Because several members of the Truckee Meadows Water Authority Board of Directors are also Trustees of the Western Regional Water Commission, it is possible that a quorum of the Western Regional Water Commission may be present, however, such members will not deliberate or take action at this meeting in their capacity as Trustees of the Western Regional Water Commission.

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 February 16, 2022 meeting of the TMWA Board of Directors (**For Possible Action**)

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

7. Update on General Manager recruitment, discussion and direction to staff regarding interview process, interview date, and candidate selection process — Jessica Atkinson (**For Possible Action**)
8. Discussion and action confirming General Manager's Appointment of Matt Bowman as a trustee to fill the remaining term of Michele Sullivan to the §115 Post-Retirement Medical Plan & Trust ending on December 31, 2022 — Jessica Atkinson (**For Possible Action**)
9. Discussion and action confirming General Manager's Appointment of Matt Bowman as a trustee to fill the remaining term of Michele Sullivan to the §501-c-9 Post-Retirement Medical Plan & Trust ending on December 31, 2022 — Jessica Atkinson (**For Possible Action**)
10. Water Supply Update — Bill Hauck*
11. Discussion and possible action on adoption of Resolution No. 301: A resolution to approve funding for one or more of the projects recommended by the Truckee River Fund Advisory Committee and an authorization for the Community Foundation to fund such projects from Fund proceeds (Resolution may reflect action taken in one or more votes on recommended projects) — Sonia Folsom and John Enloe (**For Possible Action**)
12. Discussion and possible action to enter into a funding agreement with the National Forest Foundation for the Lady Bug Project fuels reduction project above Stampede Reservoir — Stefanie Morris and Kara Steeland (**For Possible Action**)
13. Discussion and possible action on the TMWA Tentative Budget for the Fiscal Year ending June 30, 2023 and Draft Capital Improvement Plan for Fiscal Years 2023 through 2027 — Matt Bowman and Danny Rotter (**For Possible Action**)
14. Discussion and possible action on adoption of Resolution No. 302: A resolution approving transfer of ownership of 35,814 sf of surplus land (APN 012-391-02) to the Reno-Sparks Indian Colony for no consideration — Stefanie Morris and Heather Edmunson (**For Possible Action**)
15. Informational Report on OneWater Nevada Palomino Farms Feasibility Study — Lydia Teel and John Enloe*
16. Discussion and possible authorization to enter into First Amendment to Joint Funding Agreement with the State of Nevada, Washoe County, and the Cities of Reno, Sparks, and Fernley to fund Nevada's share of the Federal Water Master's annual Truckee River Operating Agreement expenses for 2022, 2023, and 2024 — Bill Hauck (**For Possible Action**)
17. General Manager's Report*
18. Public comment — limited to no more than three minutes per speaker*
19. Board comments and requests for future agenda items*
20. Adjournment (**For Possible Action**)

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TRUCKEE MEADOWS WATER AUTHORITY
DRAFT MINUTES OF THE FEBRUARY 16, 2022
MEETING OF THE BOARD OF DIRECTORS

The Board of Directors met on Wednesday, February 16, 2022, at Sparks Council Chambers. Chair Hartung called the meeting to order at 10:00 a.m.

1. ROLL CALL

Members Present: Paul Anderson, Jenny Brekhus, Kristopher Dahir, Naomi Duerr, Vaughn Hartung, and Alexis Hill. Member Hill participated via remote technology.

Member Absent: Neoma Jardon

A quorum was present.

2. PLEDGE OF ALLEGIANCE

The pledge of allegiance was led by Michael Pagni, TMWA General Counsel.

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 Member Duerr, second by Member Dahir, which motion duly carried by six to zero of the members present and Member Hill, who participated remotely, did not indicate a vote, the Board approved the agenda.

6. APPROVAL OF THE MINUTES OF THE JANUARY 19, 2022 MEETING

Upon motion by Member Dahir, second by Member Anderson, which motion duly carried by six to zero of the members present and Member Hill, who participated remotely, did not indicate a vote, the Board approved the January 19, 2022 minutes.

Chari Hartung called for a quick recess at 10:05 a.m. to address audio issues.

Chair Hartung reconvened the meeting at 10:05 a.m.

7. WATER SUPPLY UPDATE

Bill Hauck, TMWA Water Supply Supervisor, presented the water supply update: snowpack levels are still at 100% of normal despite the last day the region had any precipitation was on December 29th; we still need some precipitation to reach the median, but the snowpack has been holding due to the colder temperatures; worst case Lake Tahoe will rise about half a foot between now and July with the best case scenario it will rise 1.3 feet; will have full river flows through our peak demand season and very likely through October (and possibly the end of the year); by July we should have about 2.5 feet of storage in Lake Tahoe and all reservoirs in the system should make significant, if not full, recovery; upstream storage is about 48k acre feet (AF) (18% of total Truckee System), which is the most we have ever had this time of year; and will go into the summer with over 60k AF of storage. Mr. Hauck noted the article regarding the mega drought study which focused on the Rocky Mountains and the Colorado River system; it is a good study, but the Truckee River system is completely different and not comparable.

At this time members of the Board inquired if staff has communicated with the media regarding the drought, how much one AF of water can supply, there would be additional conservation and if a slide can be added to present groundwater supplies and conjunctive use. Mr. Hauck replied staff is in constant communication with the media, one AF can supply about two single-family households, TMWA will implement its standard conservations this summer, and the additional slide can be added going forward.

Mr. Hauck referenced Member Duerr's email sent to Mark Foree, TMWA General Manager, regarding the UC Davis climate change study. He pointed out it is the same science and models TMWA staff used to update the 2020-40 Water Resource Plan (2040 WRP) whereby they looked at the very aggressive greenhouse projections and considered how it impacted snowpack coverage over the next 80 years; staff took it three steps further by converting the snowpack to runoff, river flows and hydrology, and routed it through the Truckee River Operations Model. The results were similar, but there are a lot of unknowns projecting that many years out and we are not seeing the impacts here in the Truckee River yet.

8. DISCUSSION AND ACTION, AND POSSIBLE DIRECTION TO STAFF REGARDING THE APPOINTMENT OF FRED ARNDT TO FILL THE RESIDENTIAL REPRESENTATIVE 2 PRIMARY FOR THE REMAINDER OF THE TERM ENDING DECEMBER 31, 2022

Sonia Folsom, TMWA Standing Advisory Committee Liaison, presented the staff report.

Upon motion by Member Duerr, second by Member Anderson, which motion duly carried by unanimous consent of the members present, the Board approved appointment of Fred Arndt to fill the residential representative 2 primary on TMWA's Standing Advisory Committee for the remainder of the term ending December 31, 2022.

9. DISCUSSION AND POSSIBLE ACTION, AND DIRECTION TO STAFF REGARDING SELECTION OF EIDE BAILLY AS TMWA'S EXTERNAL AUDITOR FOR FISCAL YEARS 2022, 2023, AND 2024

Sophie Cardinal, TMWA Principal Accountant, presented the staff report.

Upon motion by Member Anderson, second by Member Dahir, which motion duly carried by unanimous consent of the members present, the Board approved the selection of Eide Bailly as TMWA's external auditor for fiscal years 2022, 2023, and 2024.

10. PRESENTATION OF FISCAL YEAR 2022 Q2 YEAR TO DATE FINANCIAL RESULTS

Michele Sullivan, TMWA Chief Financial Officer, provided an overview of TMWA's financial results year to date: the change in net position was \$5.9m (21%) higher than budget which was driven primarily by higher capital contributions; operating revenue was \$0.3m (<1%) higher than budget (other operating revenue was higher by \$0.9m while water sales and hydroelectric sales were lower by \$0.6m combined); operating expenses were \$2.7m (5%) lower than budget; salaries and wages and employee benefits were lower primarily due to position vacancies; seeing impacts from inflation, most notably in fuel, \$102k (62%) over budget, but other price increases have not yet been significant; nonoperating expenses were \$1.9m (38%) higher than budget primarily due to a net decrease in fair value of investments; capital contributions were \$4.8m (24%) higher than budget due to receiving the FEMA award for the Glendale diversion rebuild following the 2017 flood event; approximately \$13.0m of the \$60.1m budgeted for capital spending has been spent due to the delays in receiving meters (AMI) since there is a chip shortage, but has not affected development; and total cash on hand was \$241.0m, or \$11.0m higher than, at the beginning of the fiscal year, \$181.7m was unrestricted and the remaining \$59.3m was restricted to pay for scheduled bond principal and interest payments as well as maintaining required reserves as stipulated in our bond covenants.

Member Brekhus appreciated Ms. Sullivan review and analyzing developer fees, and calibrating it to capital, which is a sign of a resilient well-managed utility organization; and asked about the sustainability program. Ms. Sullivan replied the meter retrofit fund was repurposed, at a lower rate to developers, into the sustainability fund which is used to fund CIP projects related to sustainability of water resources and TMWA's system, which is different from the rate stabilization fund that is part of a reserve to keep a certain level of cash and any excess can be used to reduce future rate increases.

Vice Chair Dahir expressed concern for rate payers and inflation and to use the rate stabilization fund if needed. Ms. Sullivan replied TMWA has approved 2.5% rate increases over the next two years; TMWA has a lot of cash reserves, and the rate stabilization fund can be used so as not to have a large rate increase over the next five years.

Member Anderson inquired if staff has experienced shipping issues and maintaining inventory. Ms. Sullivan replied they typically do not hold inventory in excess due to lack of warehouse space. Andy Gebhardt, TMWA Director of Distribution, Maintenance & Generation, added staff is taking into

consideration shipping issues to ensure the reliability of the system, and work with local suppliers to ensure they have inventory in stock.

11. INFORMATIONAL REPORT ON WATERSHED PROTECTION PLANNING ACTIVITIES AND PROJECTS

Stefanie Morris, TMWA Water Resources Manager, reported on the projects TMWA has been doing since 2008 working through the Truckee River Fund, spending approximately \$865k on watershed projects, and the partnership building regarding watershed protection planning. Ms. Morris stated approximately 80% of TMWA's water supply originates in California/Nevada upstream reservoirs in forested areas, using natural infrastructure and rivers to transport water; fires above reservoirs can impact runoff and water quality. The Nature Conservancy (TNC) has been a great partner with TMWA mostly working at Independence Lake for thinning and other fire protection projects. There has been a lot of planning and activities in the Tahoe Basin for watershed protection and thinning, there has not been a lot of coordination or activities in the Middle Truckee River watershed. In working with local and regional partners such as TNC, Truckee River Watershed Council (TWRC), National Forest Foundation (NFF), US Forest Service (USFS) and different ranger districts, TMWA staff is conducting a gap analysis to assess where TMWA could plug into planning and additional funding requirements, in order to prioritize projects to protect TMWA's water supply; primarily since TMWA does not own the land and doesn't have jurisdiction to implement projects.

Member Hill thanked Ms. Morris for the report and appreciated staff in looking for other funding opportunities, especially since many times grant opportunities are missed due to lack of match funding from local jurisdictions, and offered any assistance she or Washoe County can provide.

Vice Chair Dahir agreed collaboration is necessary and added that the Nevada League of Cities are in the position to assist, and they are looking at infrastructure to be better prepared for future fire seasons and water supply in the region.

Member Brekhus asked if Ms. Morris will bring forward a white paper or work program, and suggested a map to show the gap analysis, if possible. Ms. Morris replied it is going to take some time to complete the gap analysis and show we can collaborate with other agencies; many times, it is not federal funding that is missing, rather staffing and materials and what to do with the materials after thinning the area. Ms. Morris added they are working with NFF looking to expedite projects that will protect the watershed; strategic of combining resources.

Chair Hartung opened items #12 and #13 simultaneously.

12. DISCUSSION AND POSSIBLE APPROVAL OF AN INTERLOCAL AGREEMENT (ILA) FOR WATER RESOURCE LEASE BETWEEN TMWA AND THE CITY OF RENO

13. DISCUSSION AND POSSIBLE APPROVAL OF A WATER RESOURCE PURCHASE AGREEMENT BETWEEN TMWA AND FISH SPRINGS RANCH, LLC

John Enloe, TMWA Natural Resources Director, recapped the workshop presentation at the January 2021 Board meeting which followed the completion of the 2040WRP which presented the different focus areas and number of issues the resources team was working on with other partners within the community: return flow management agreement, Vidler Water Co. and Fish Springs Ranch project . Mr. Enloe briefed the Board on the ILA (which has already been approved by Reno City Council) between TMWA and City of Reno which would allow TMWA to manage up to 3,000 acre-feet of the Banked Water to support delivery of treated effluent water from the Truckee Meadows Water Reclamation Facility (TMWRF) for irrigation and industrial uses and to manage Truckee River return flow requirements and the water resource purchase agreement between TMWA and Fish Springs Ranch, LLC for TMWA to purchase from Fish Springs Ranch 400 acre-feet of water rights for a total purchase price of ten million dollars (\$10,000,000.00), payable over 10 years as shown in the Agreement. The cost to provide Fish Spring groundwater to customers in the Stead/Lemmon Valley area is about the same cost to treat and pump Truckee River up into the area. The cost of Fish Springs groundwater is approximately \$40k/AF, but was negotiated down to \$25k/AF where TMWA's share would be \$15,360/AF and City of Reno paying the remainder; the total cost to developers is the same as purchasing or dedicating Rule 7 water rights.

Member Hill informed the Board she emailed Mr. Foree about whether the Pyramid Paiute Lake Tribe (the Tribe) had been consulted on this matter and was disappointed when Mr. Foree replied no, they had not. She does not disagree that this agreement is good for the Tribe, but would like for TMWA to consult with its neighbors when making decisions of this magnitude and believes communications with the Tribe and other agencies is essential. Member Hill said she would not be supporting items 12 & 13.

Member Duerr agreed with Member Hill, but the agreement before them will leave more water in the river and asked if the cost of the water right was at the point of delivery. Mr. Enloe replied yes, the table represents the cost developers would pay for water rights and WSF fees.

Member Brekhus noted it appears this agreement adds complexity, and perhaps a sign of stress, to the system in order to serve a larger population. She added the Board consider all options as it pertains to Vidler Water Company, including TMWA buy the system and go through an appraisal much like the purchase of Boomtown, and she supports anything that affects the Truckee River Operating Agreement (TROA) be communicated to the Tribe.

Mr. Enloe stated the agreement indirectly allows Fish Springs water to be available throughout TMWA's entire service area. He added that there is a limit as it relates to Truckee River water rights, and they want to be as efficient as possible in serving future development, but also addressing the resiliency, redundancy and reliability of the system; TMWA's system is very complex and its operators are experts by making it look seamless; the water resources group are trying to be as efficient as we can so that we can stretch the resources available to us, increase drought and climate change resiliency. He added that TMWA staff has ongoing discussions with the Tribe representatives on the return flow management agreement, but TMWA does not make it a practice to consult with parties that are not a direct party to an agreement. Staff relies on satisfying TROA, the State Engineer and Federal Water Master, all three parties are aware of and are involved in these agreements.

Vice Chair Dahir stated there is no question the Tribe is strongly respected, and they work diligently to make sure they are involved. However, it needs to be understood that TMWA does not seek permission to conduct business with all entities. He requested clarification on the agreements before them since City of Reno already approved the ILA. Mr. Enloe replied City of Reno approved the lease agreement, but specifically requested not to be a party to the agreement between TMWA and Vidler.

Member Anderson noted about a year ago, the Board encouraged staff to continue to be innovative in future water projects. He believes this is a perfect example of the direction given and thanked staff for bringing forward a detailed plan, which he supports.

Chair Hartung asked Mr. Enloe to brief the Board on another agreement that included the Tribe and Vidler Water Company. Mr. Enloe replied the Chair was referring to the settlement agreement between Vidler and the Tribe that was ratified by Congress where the Tribe receives a portion of the proceeds of the will serve commitments on top of other payments and land the Tribe received during the settlement.

Member Brekhus said TMWA staff does a good job getting the Board the information to make decisions and requested staff to do a gap analysis regarding the potential purchase of Vidler Water Company as policy and direction; issue of complexity bringing on an importation project.

Member Hill appreciated the background given today, but she is not suggesting the Board seek permission, rather be in communication with our neighbors so as not to surprise them since there is no representation of either Tribes in the area on the Board.

Member Duerr stated she is an avid supporter of the ILA and agreed it would be prudent to have further conversations before we enter into more agreements and suggested to include a 30-day delay in the motion to approve to allow for staff to communicate to the Tribe. Mr. Pagni replied it is a policy question for the Board to decide what the best interest for TMWA is to impose the delay and consider what the effect of the delay would mean, as well as consider if the input was negative would it reverse the decision; the motion needs to be specific regardless of those discussions.

Vice Chair Dahir agreed that committing to having a conversation and collaborating with local entities is beneficial, but we need to make sure we can move forward to do business for TMWA. The Tribe conducts business without notifying TMWA. TMWA has to make decisions and at times it may surprise people unintentionally, and it is important to protect policy-wise TMWA's operations. Mr. Enloe said staff will commit to communicating with the Tribe and will discuss this at their next meeting with Tribal representatives.

Upon motion by Member Duerr, second by Member Dahir, which motion duly carried by five to one of the members present and Member Hill dissenting, the Board approved the Interlocal Agreement for Water Resource Lease between TMWA and the City of Reno .

Upon motion by Member Duerr, second by Member Dahir, which motion duly carried by five to one of the members present and Member Hill dissenting, the Board approved the Water Resource Purchase Agreement between TMWA and Fish Springs Ranch, LLC .

The Board also requested staff to meet with the Pyramid Lake Paiute Tribe as soon as possible to discuss any concerns and return comments to the Board.

14. GENERAL MANAGER'S REPORT

Mr. Foree hoped for more precipitation. Mr. Foree reported the Wisconsin State Lab, which sends out test kits to 40 labs certified to test for waterborne parasites, giardia and cryptosporidium, of which TMWA's water quality lab is one, has asked TMWA to be the quality control lab to ensure the test kits are good prior to being sent out. It is an honor for TMWA and thanked Kelli Burgess, TMWA Water Quality & Environmental Permit Supervisor, and her staff for this great recognition.

15. PUBLIC COMMENT

Mr. Pagni informed the Board he has made the decision to work full-time as in-house counsel for the Di Loreto company starting March 1st. McDonald Carano is the firm that represents TMWA and Lucas Foletta, who is a partner, has utility and regulatory practice, and worked for TMWA over the years, will be taking his place. He thanked the Board and TMWA staff. He stated it was an honor and privilege working for TMWA and staff for the past 21 years, to work with the most dedicated and professional staff, and an exceptional Board who has provided steady leadership over the years.

16. BOARD COMMENTS AND REQUESTS FOR FUTURE AGENDA ITEMS

Vice Chair Dahir congratulated staff for the recognition and thanked Mr. Pagni: it has been an honor it is crucial to have good advice and not receiving it can mislead us.

Member Brekhus requested an update on the return management flow agreement, a Board conversation about attorney representation, to have a discussion regarding Vidler before the fall workshop, and suggested the Board adopt a land acknowledgement statement. She wished Mr. Pagni all the best.

Chair Hartung said he would like to have a conversation about how to contemplate the general counsel agreement going forward and to have staff return with suggestions. He added Mr. Pagni has been an amazing attorney and family friend, who will be missed, and wished him all the best.

Member Duerr shared her thanks to Mr. Pagni knowing his specialty is rare and unique, and he's made a mark in our community.

17. ADJOURNMENT

With no further discussion, Chair Hartung adjourned the meeting at 12:11 p.m.

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

Sonia Folsom, Board Clerk.



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Jessica Atkinson, Human Resources Manager
DATE: March 16, 2022
SUBJECT: **Update on General Manager recruitment, discussion and direction to staff regarding interview process, interview date, and candidate selection procedure.**

Recommendation

Staff is requesting direction from the Board on the following:

1. Accept the recommended interview process.
2. Approve moving forward with an interview date of 04/20/2022.
3. Accept the recommended candidate selection procedure.

Background

General Manager, Mark Foree's retirement will be effective in or about October of 2022. During the January 2022 Board meeting, the Board approved moving forward with a hybrid recruitment approach combining an internal and external staff lead recruitment.

Discussion

RECRUITMENT UPDATE:

- 1/26/2022 – TMWA General Manager position posted (paid and unpaid advertising placed.)¹
- 02/28/2022 Closing date for receipt of applications/resumes

APPLICATION UPDATE:

- 22 Applications received
 - 8 had no prior water or utility experience
 - 2 had utility experience but not at a management level
 - 10 had prior utility management experience (2 applicants from northern Nevada)

¹ Advertising sources included Environment Federation – Ultimate Recruitment Package (Web Posting), American Water Works Association Career Center – Ultimate Recruitment Package + Public Works Job Board Network (Web Posting), WaterDistrictJobs.com Featured Job Ad (Web Posting), Career Builder (Web Posting), Social (LinkedIn), State of Nevada Job Board (DETR) (Web Posting), VeteranJobListing.com (Web Posting)

SELECTION PROCESS:

- TMWA staff reviewed submissions
- Supplemental questionnaires were emailed to the 10 candidates with prior utility management experience.
 - 8 questionnaires were submitted by the requested deadline.
 - Of the 8 candidates who submitted supplemental questionnaires, 3 candidates were not considered further due to overall experience. While their initial application/resume submission indicated they may have the requisite experience, their completed questionnaire confirmed the scope, complexity, breadth and or recency of experience was limited.
 - 5 candidates have been selected and indicated their willingness to move forward to the interview process (2 candidates from northern Nevada, 1 candidate from Colorado, 2 candidates from the east coast).

RECOMMENDED INTERVIEW PROCESS:

- 03/21/2022 Staff will conduct an employee survey (anonymous SurveyMonkey) asking all current TMWA employees to participate in the selection of their next General Manager by identifying the key attributes and/or experience they would like to see their next General Manager possess. Survey results will be included in the interview packets.
- April Board packet will include:
 - Candidate applications, resumes, and supplemental questionnaire responses;
 - General Manager position description;
 - Key leadership competencies;
 - List of recommended questions; and
 - Interview Guide;
 - Results of the anonymous employee survey
- 04/20/2022 (recommended interview date) Candidates will be interviewed by the Board in open session.
 - All candidates will have equal time before the Board to interview.
 - Order of candidate interviews to be selected in advance at a random order. Staff to provide Chairman ordered list prior to the meeting.
 - Chairman to request voluntary sequestration of the candidates until their interview. Following their interview, candidates are welcome to stay for the remainder of the interviews.
 - Chairman to ask each candidate to provide an introduction including background, education, licensure, capabilities and why they are interested in the position (5 minutes).
 - Board members to ask questions and the candidates will be given up to 35 minutes of total time for the question and answer session.
 - After the question and answer session, each candidate will be given 5 minutes for closing comments.

Total interview time not to exceed 45 minutes and time will be kept for each phase by the Board Clerk.

RECOMMENDED SELECTION PROCEDURE

After the interviews are complete, prior to deliberating, the Board members will be provided a ballot to select one candidate to inform the Board discussion. The ballot results are not a vote but rather informational. Legal counsel will collect the ballots, confirm the Director has identified themselves and their top candidate, and read the results out loud. Then the Board will deliberate and may move forward with a motion to nominate and accept a candidate, and if seconded and approved by a majority of voting Board members, direct staff and legal counsel to negotiate an employment contract and complete the background check process.

Attachments

1. DRAFT SuveyMonkey Questionnaire



Key attributes and qualifications for next General Manager: Tell us what you think!

Anonymous Employee Survey

TMWA's Board of Directors will soon be interviewing and selecting a new General Manager who will be responsible for the leadership and management of TMWA. We would really appreciate input from employees to help inform the process.

This survey will take about 5 minutes and results will be shared with Board members prior to the interviews. The survey is anonymous and no identifying information will be gathered or reported.

The survey will be closed on April 4, 2022 at 5:00 pm. Please make some time to provide your thoughts and help participate in this important process.

Identify the key attributes and or experience you would like to see in your next General Manager.

Truckee Meadows Water Authority

General Manager Recruitment

AGENDA ITEM OVERVIEW:

Recruitment Update

Applicant Update

Candidate Selection Process

Recommended Interview Process

Recommended Selection Procedure

RECRUITMENT UPDATE

- Posted 1/26/2022 – 2/28/2022
 - Paid & unpaid advertising
 - Focus on local and industry
- 22 Applications received
 - 10 candidates with requisite education and prior water utility experience sent questionnaire.
 - 8 returned
 - 5 candidates move forward



RECOMMENDED INTERVIEW PROCESS

Board Interviews:

- Order determined randomly prior to interviews
- Request voluntary sequestration of candidates until after their interview
- 3 timed phases
 - Introduction (5 minutes)
 - Q&A (35 minutes)
 - Candidate closing (5 minutes)

RECOMMENDED INTERVIEW DATE

Wednesday, April 20, 2022

- Extended session

April Board packet:

- Candidate applications, resumes, and supplemental questionnaire responses
- General Manager position description
- Key leadership competencies
- List of recommended questions
- Interview guide
- Results of anonymous employee survey

RECOMMENDED SELECTION PROCEDURE

Once all interviews are concluded and prior to deliberation:

- Board members use a ballot to select one candidate to inform discussion
 - Ballot is informational and NOT considered a vote.
- Legal counsel will collect ballots, confirm the member's selection and identity and read the results out loud.
- Board may deliberate and or move forward with a motion.
- If a candidate is selected by a majority of voting board members following a motion and second, Board to direct staff and legal to negotiate an employment contract and complete the background process.



Direction from Board:

- Recommended interview process
 - Interview date (4/20/2022)
 - Candidate selection procedure



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Jessica Atkinson, HR Manager
DATE: March 8, 2022
SUBJECT: **Discussion and action confirming General Manager's Appointment of Matt Bowman as a trustee to fill the remaining term of Michele Sullivan to the §115 Post-Retirement Medical Plan & Trust ending on December 31, 2022**

Recommendation

Staff recommends that the Board of Directors confirm the General Manager's appointment of Chief Financial Officer, Matthew Bowman as a trustee to the §115 Post-Retirement Medical Plan & Trust through December 31, 2022.

Summary

- One of the trustees previously appointed by TMWA has resigned.
- The General Manager has appointed Matthew Bowman as a trustee to the §115 Post-Retirement Medical Plan & Trust through December 31, 2022.
- Trust provisions required a final confirmation of trustee appointments by the Board.

Discussion

The §115 Trust document approved by the Board of Directors requires the General Manager to select and appoint at least (3) three but no more than (5) five Trustees who must include:

1. At least one member who has a combination of education and experience of at least 5 (five) years in finance or economics;
2. A public officer or employee of TMWA who manages its fiscal affairs; and
3. A beneficiary of the Trust.

A vacancy exists due to the resignation of trustee Michele Sullivan who served as a trustee meeting the requirements of item 2 above. Matthew Bowman was appointed as her replacement through the remainder of Ms. Sullivan's two-year term ending on December 31, 2022. Mr. Bowman's appointment fulfills the requirements under item 2 above and has been made by the General Manager consistent with the Trust provisions pending final confirmation by the Board.



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Jessica Atkinson, HR Manager
DATE: March 8, 2022
SUBJECT: **Discussion and action confirming General Manager’s Appointment of Matt Bowman as a trustee to fill the remaining term of Michele Sullivan to the §501-c-9 Post-Retirement Medical Plan & Trust ending on December 31, 2022**

Recommendation

Staff recommends that the Board of Directors confirm the General Manager’s appointment of Chief Financial Officer, Matthew Bowman as a trustee to the §501-c-9 TMWA Post-Retirement Medical Plan and Trust through December 31, 2022.

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- Trust provisions required a final confirmation of trustee appointments by the Board.

Discussion

The §501-c-9 Trust document approved by the Board of Directors requires the Employer to appoint four individuals to serve as Trustees (two from the MPAT classification one of whom must be the Chief Financial Officer and two from IBEW). The two Trustees who are appointed from TMWA management are to be appointed by the Employer at the direction of the General Manager and the two Trustees who are appointed from IBEW are to be appointed by the Employer at the direction of IBEW Local 1245.

A vacancy exists due to the resignation of trustee Michele Sullivan. Matthew Bowman was appointed as her replacement through the remainder of Ms. Sullivan’s two-year term ending on December 31, 2022. Mr. Bowman’s appointment has been made by the General Manager at the consistent with the Trust provisions pending final confirmation by the Board.



Water Supply Update

Board of Directors Meeting

March 16, 2022



Key Takeaways

- Lake Tahoe elevation is currently 0.90' above the rim
- February was the second significantly dry month in a row
- The Sierras have experienced record low levels of ppt since the end of December when snowpack was in excess of 200% of normal
- Snowpack in the Truckee Basin is currently ~80% of Normal
- Despite the decline in the runoff forecast, the most recent model runs are projecting normal Truckee River flows through the first week of November (well beyond TMWA's peak demand season)



2022 NRCS Streamflow Runoff Forecast Summary

	Jan 01	Mid-Jan	Feb-01	Mid-Feb	Mar 01
1. Lake Tahoe (A-H) GCR	160% (1.90')	130% (1.55')	99% (1.30')	84% (1.00')	76% (0.90')
2. Truckee River @ Farad (A-J)	164% 370KAF	133% 300KAF	116% 260KAF	87% 195KAF	80% 180KAF
3. Projected Day of River Shortages	NA	NA	NA	NA	11/07*

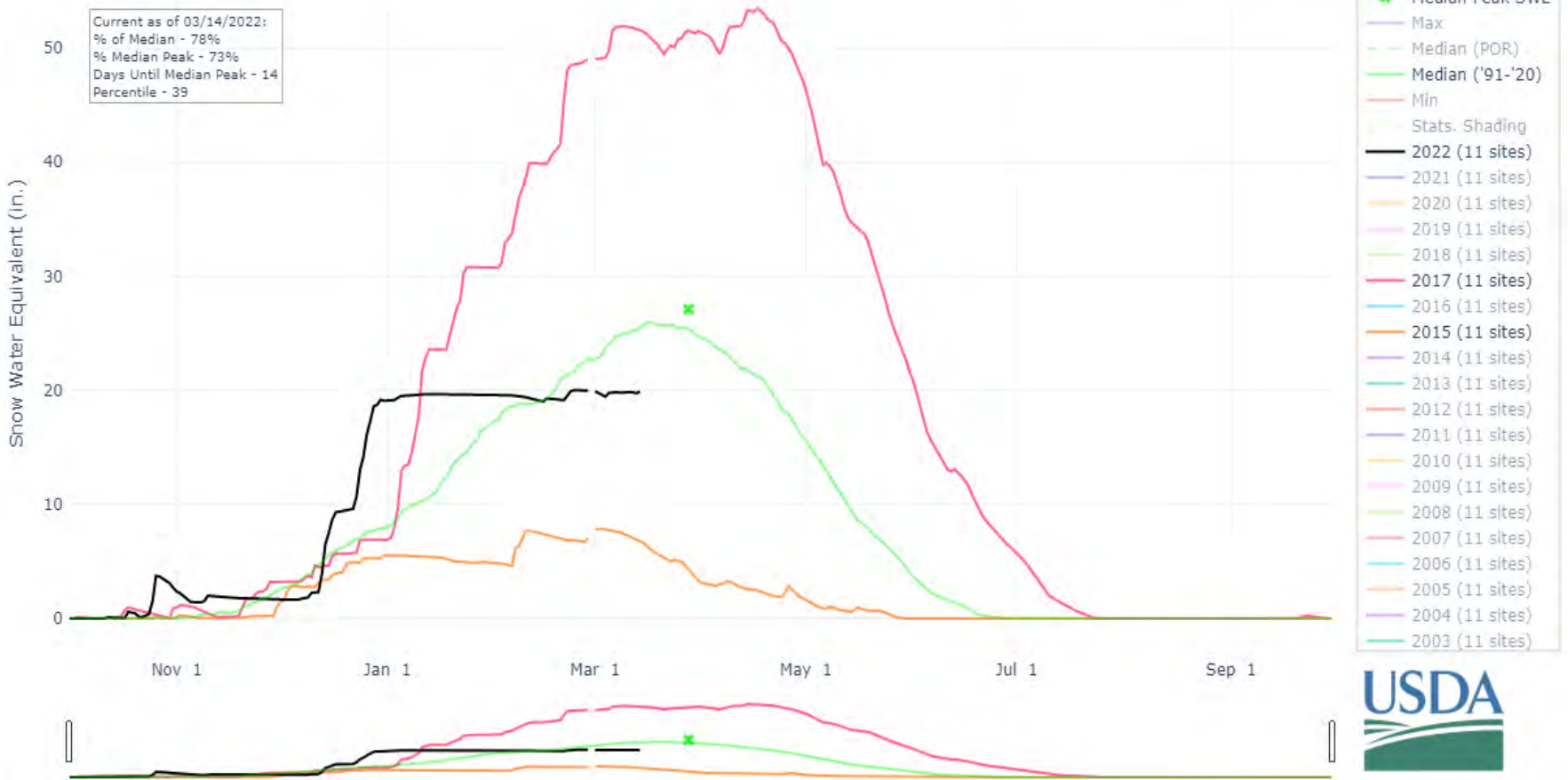
Truckee Basin Snowpack (03/14/2022)

SNOW WATER EQUIVALENT IN TRUCKEE

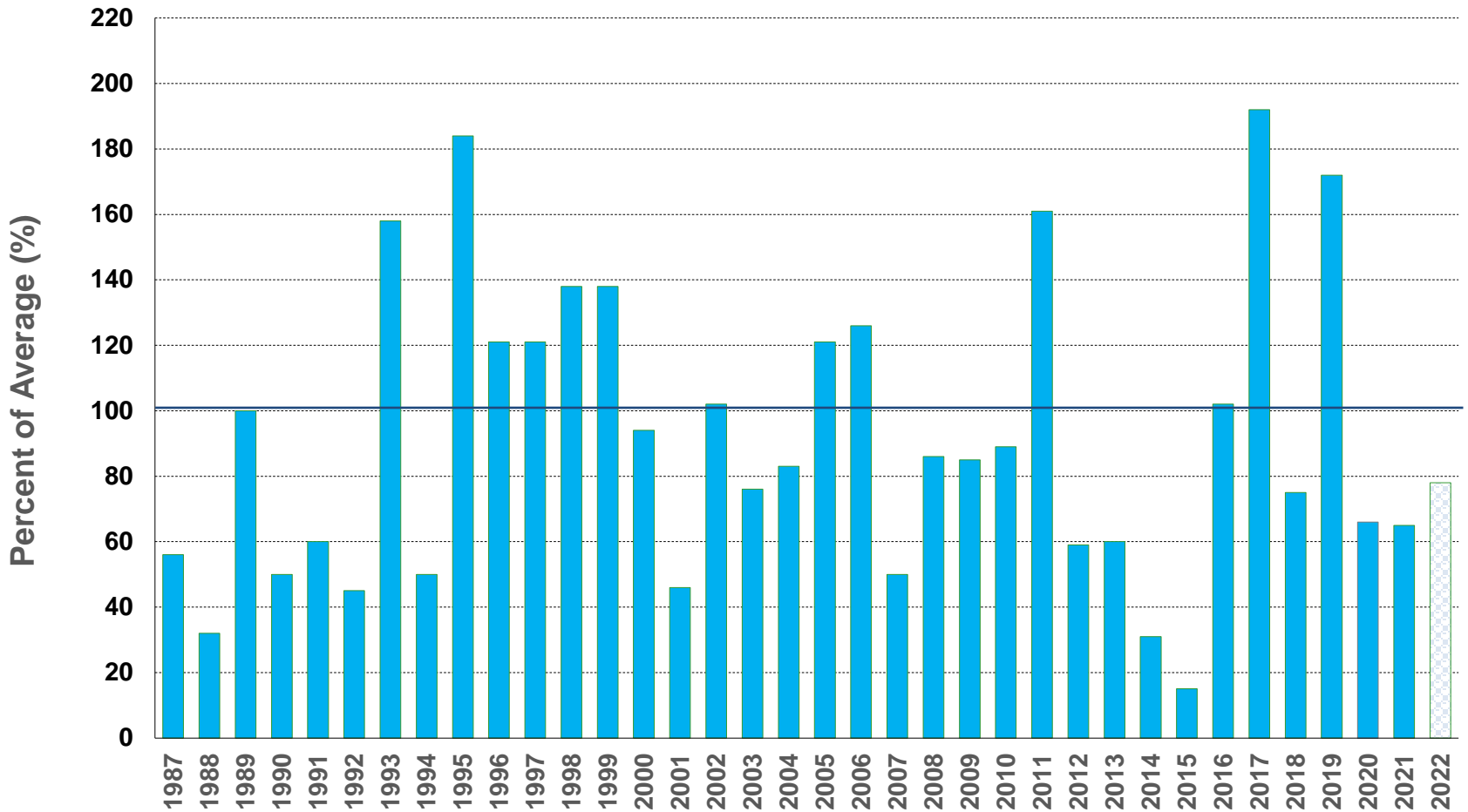
Reset Range

Link to data: CSV / JSON

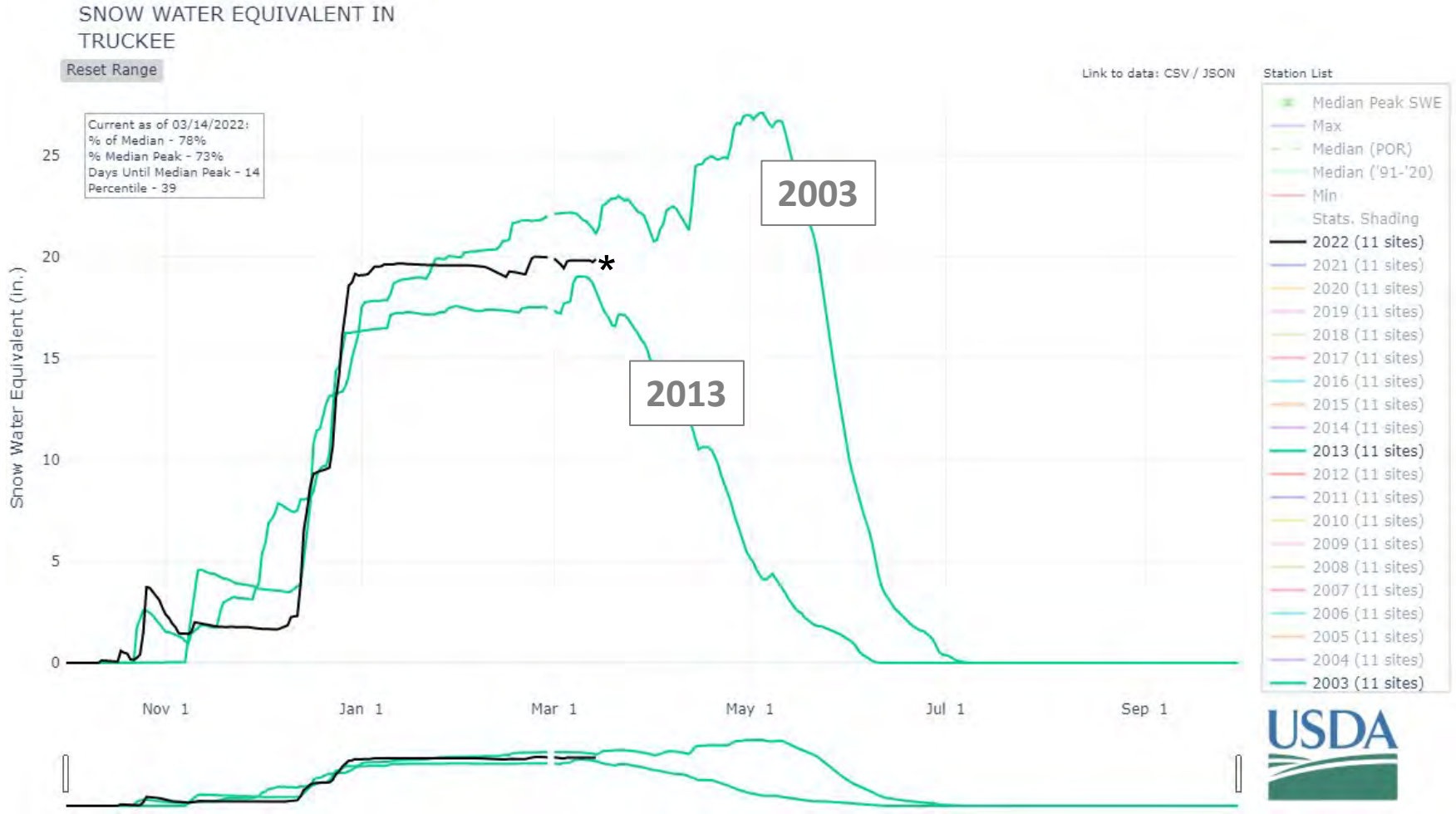
Station List



April 1 Truckee River Basin Snowpack (last 35 years)



Truckee Basin Snowpack (2003 and 2013 comparison)



Mar 01 NRCS-CNRFC Coordinated Streamflow Forecasts

- Lake Tahoe Gates Closed Rise (GCR) - 1.19' median

0.90' (76% normal) - 50% COE (Apr-High)

0.61' (51% normal) - 70% COE (Apr-High)

0.20' (17% normal) - 95% COE (Apr-High)

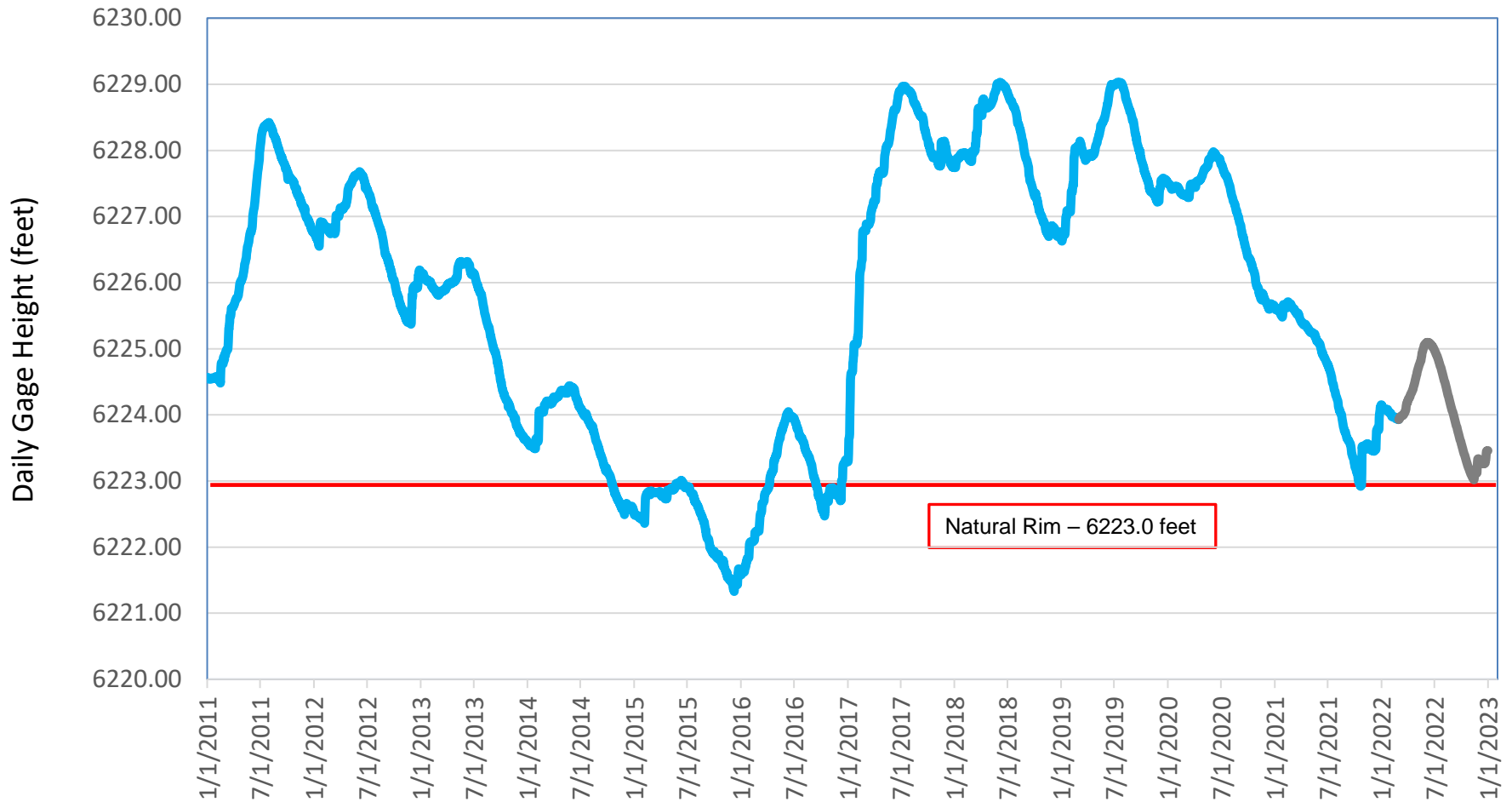
- Truckee River at Farad, CA (A-J) - 225 KAF median

180 KAF (80% normal) - 50% COE (Apr-Jul)

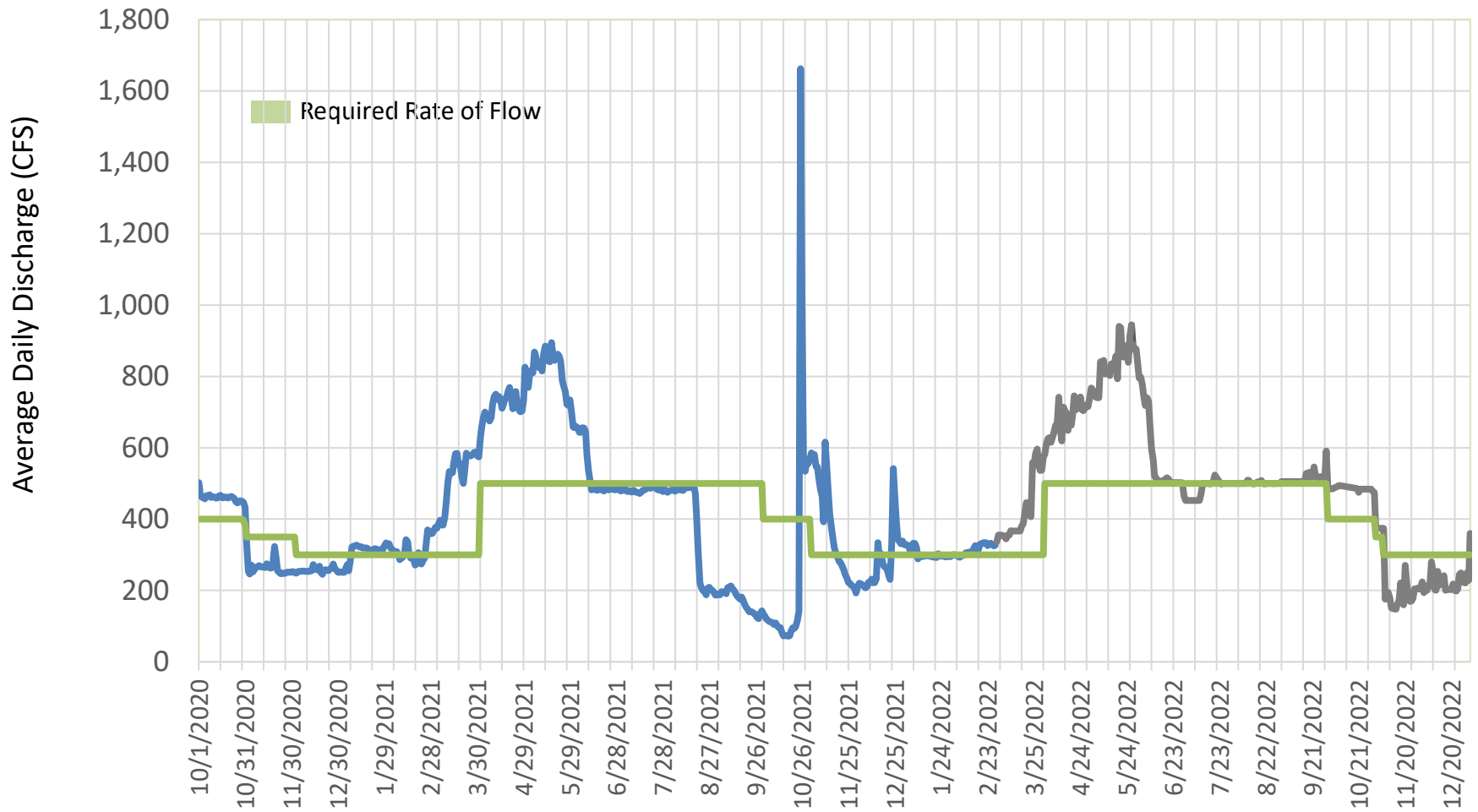
130 KAF (58% normal) - 70% COE (Apr-Jul)

56 KAF (25% normal) - 95% COE (Apr-Jul)

Actual and Projected Lake Tahoe Elevation through 2022



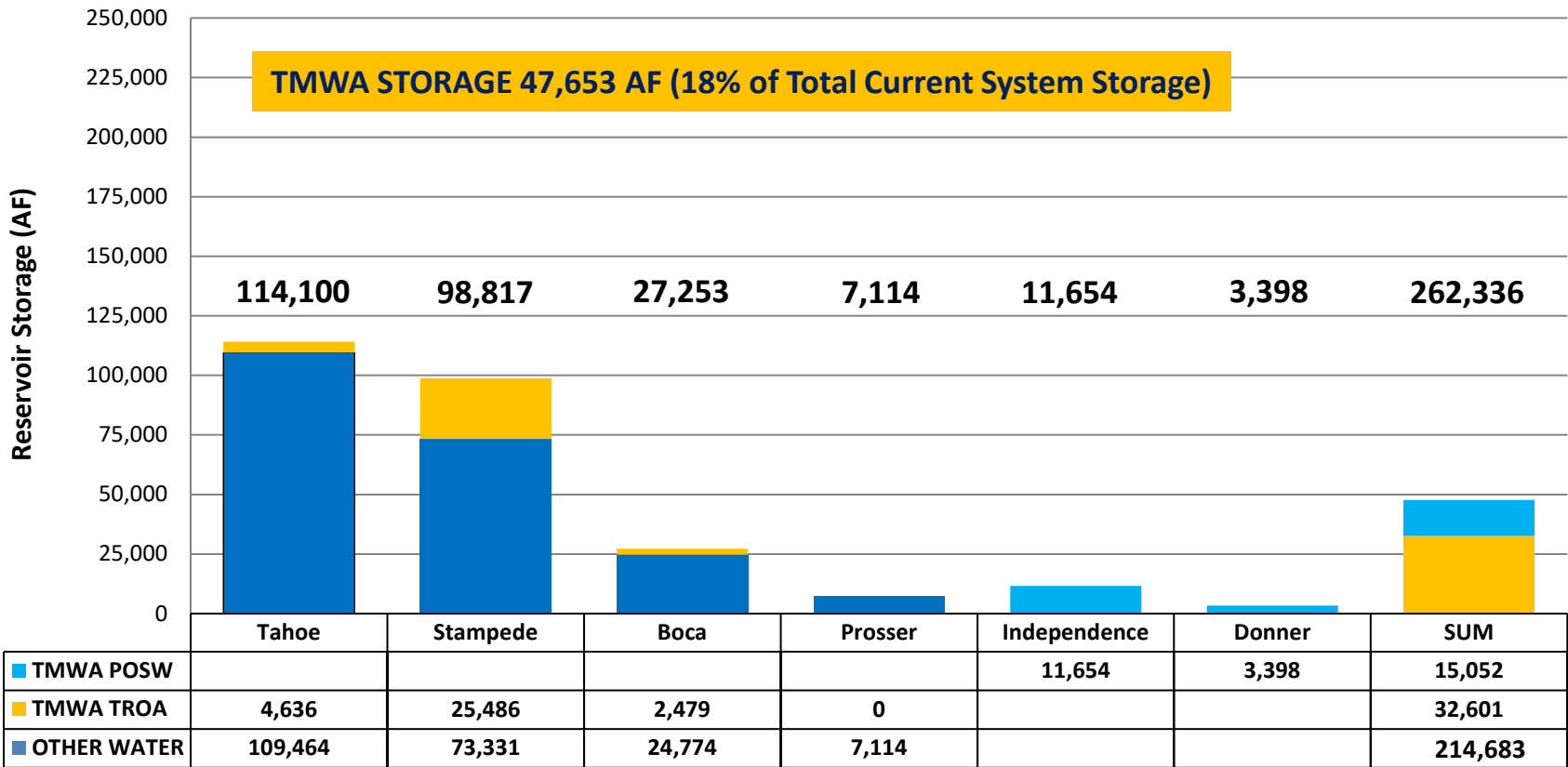
Actual and Projected Truckee River Flow at Farad through 2022



Truckee River System



Truckee River System Storage (3/14/2022)



Capacity (%)

15 %

44 %

67 %

24 %

67 %

36 %

MAX SYSTEM CAPACITY 1,068,270 AF

CURRENT STORAGE 262,336 (25% Capacity)

Regional Groundwater Status and Recharge

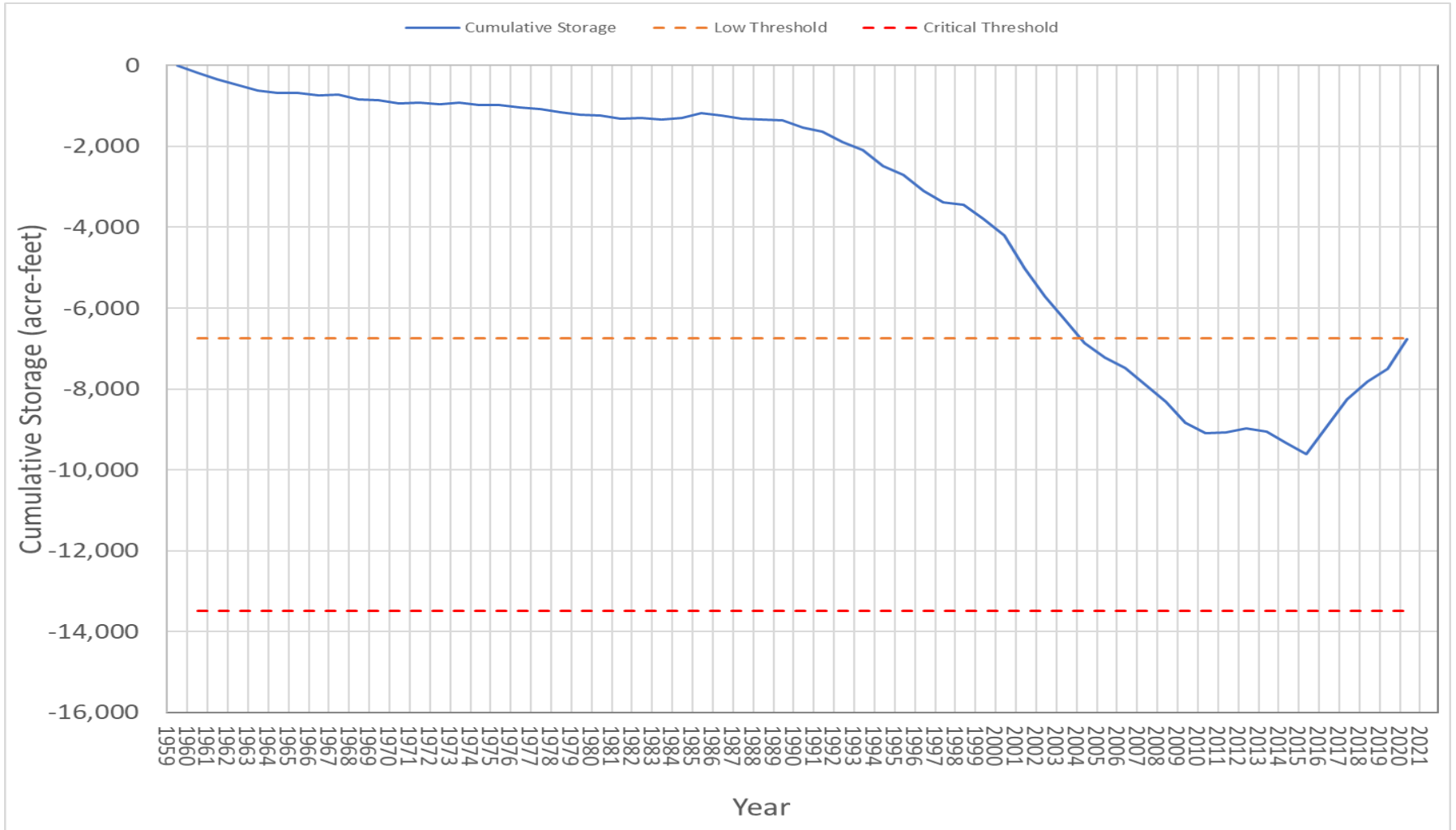
A. Overall Groundwater Status

- Good
- Positive/Upward Trends in water levels
- Most Notably DWR/STMGID Wells Since Merger in 2015
- Conjunctive Management (active and passive recharge)

B. Since 1993 (past 28 years) TMWA has recharged ~40,000 AF

- 2021-2022 Truckee Meadows Wells (LKS, HOL, VSW, SLW)
- 2021-2022 Mt. Rose Fan Wells (AC2, SG11, TS1-East)
- 2021-2022 ~ 4 MGD Combined Rate of Injection

Mt. Rose Fan (Arrowcreek Zone - AC2, AC3, STMGD 6)



Thank you!

Questions?

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



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: John Enloe, Director of Natural Resources & Planning
 Janet Phillips, Chairman, Truckee River Fund Advisory Committee
DATE: March 7, 2022
SUBJECT: **Discussion and possible action on adoption of Resolution No. 301: A resolution to approve funding for one or more of the projects recommended by the Truckee River Fund Advisory Committee and an authorization for the Community Foundation to fund such projects from Fund proceeds (Resolution may reflect action taken in one or more votes on recommended projects)**

Recommendation

The Truckee River Fund (TRF) Advisors recommend that the TMWA Board authorize by resolution the funding of the following projects from the TRF. This recommendation stems from a Fund Advisors' meeting held on February 18, 2022 where five grant proposals from the spring request for proposal (RFP) process were reviewed and discussed. Please refer to the table below to review amount of funding available, description of the RFPs submitted, and projects recommended for funding.

Description	Funding Requested	Funding Approved	TRF Budget
Available Funds			\$153,952.16
5 Requested Projects	\$239,510.50		
4 Projects for Approval		\$135,505.00	
Funds Remaining			\$18,447.16

RFPs Submitted for Consideration

Project #	Grantee	Description	Proposal Amount	Amount Recommended	Monetary Match	In-Kind Match	Match Total
258	Sierra Nevada Journeys	Watershed Education Initiative (WEI) for the Urban Truckee River Corridor	\$30,055.00	\$30,055.00	\$7,513.00	\$ -	\$7,513.00
259	Truckee River Watershed Council	Donner Creek Confluence & Boca Unit Restoration	\$55,700.00	\$55,700.00	\$13,925.00	\$ -	\$13,925.00
260	National Forest Foundation	Carson District Forest Ambassador Project	\$96,681.00	\$0	\$ -	\$24,780.00	\$0
261	Friends of Nevada Wilderness	Mount Rose Noxious Weed Monitoring, Treatment & Reseeding #10	\$25,575.00	\$23,250.00	\$5,000.00	\$5,760.00	\$10,760.00
262	Truckee Donner Land Trust	Caltrout Truckee River Access Improvement and Bank Stabilization	\$31,500.00	\$26,500.00	\$5,800.00	\$1,500.00	\$59,500.00
Amount Totals:			\$239,510.50	\$135,505.00			\$91,698.00

PROJECTS RECOMMENDED FOR FUNDING

Project #258: Watershed Education Initiative for the Urban Truckee River Corridor

Organization: Sierra Nevada Journeys (SNJ)

Project Description:

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

During the past 12 years, Sierra Nevada Journeys' (SNJ) Watershed Education Initiative (WEI) has impacted approximately 13,366 students and 625 educators. This has been made possible thanks to the generous support of the Truckee River Fund. WEI educates students about the local watershed, including human impacts on the watershed, water quality, and watershed protection. While in-class and field-based lessons reach students and educators, WEI's additional outreach components serve to engage families and community volunteers.

A study from The Nature Conservancy reveals that students who have had a personal experience in nature are:

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

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

With this funding, SNJ will serve 750 students in 28 classrooms within 10 miles of the urban corridor of the Truckee River. Conducted over a four-week period, WEI includes two in-class lessons, one field-study experience, pre- and post-assessments, classroom extension lessons for teachers, and family and community engagement. Curriculum developed and delivered by SNJ's team of credentialed teachers aligns to state and national standards and the North American Association for Environmental Education's Guidelines for Excellence.

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 #259: Donner Creek Confluence and Boca Restoration

Organization: Truckee River Watershed Council (TWRC)

Project Description:

The projects share a common goal of reducing erosion and excess sedimentation to the Truckee River and improving water quality. The Truckee River has long been a focal point of development in the region, and historical urban-land uses were concentrated along the river. As a result, much of the historic floodplain and sections of channel were heavily altered or filled. Additionally, both sites experience heavy recreational use, including unauthorized vehicle access, which leads to soil erosion, reduced riparian regeneration, compacted soils, and unmitigated stormwater pollution to the Truckee River. Both projects will establish a balance of environmental restoration and sustainable public access.

TMWA Benefit:

The project addresses:

- **Watershed Improvements:** The projects will decrease sedimentation and support attainment of the TMDL for the Truckee River. They also improve watershed function and habitat by increasing floodplain connectivity and enhancing riparian vegetation.
- **Local Stormwater Improvements:** The projects will mitigate stormwater coming from Highway 80 (Boca Unit) and West River Street (Donner Confluence) by targeting on-site infiltration.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** The Donner Confluence project will restore habitat on a key tributary of the Truckee River and reduce sediment transfer to Donner Creek, as well as to the mainstem of the Truckee River.
- **Meet Multiple Objectives:** The projects meet the objectives listed above, and benefit meadow, riparian, and in-stream habitat, native fish and wildlife species, and carbon sequestration.
- **Leverage Stakeholder Assets and Participation:** The projects leverage significant stakeholder participation and cost share from the Town of Truckee and CDFW.

Project #261: Mount Rose Noxious Weed Monitoring, Treatment, and Re-Seeding #10

Organization: Friends of Nevada Wilderness

Project Description:

Staff will monitor known weed sites during April tracking spread of plants and efficacy of the previous year's treatment and reseeded. During May and June, staff will lead volunteers to noxious weeds sites and remove them with shovels and by hand. If plants have produced flowers, we will clip the seed heads and pack them out to be safely disposed of. In the fall, staff will lead volunteers to previously identified

sites to disperse native seeds by hand. Some snacks, additional water, training, education, and all necessary tools and personal protective equipment will be provided by FNW.

TMWA Benefit:

Our 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), and priority #7 (Meet Multiple Objectives). Noxious weeds, specifically Musk Thistle, pose a significant threat to the health of the Truckee River Watershed. Through volunteer removal projects, we will improve the health of the Truckee River Watershed by removing noxious weeds and replacing them with seeds of native plants. Reducing the number of weeds in the Hunter Creek area (a main tributary to the Truckee River) will improve the water quality, reduce soil erosion, and slow the spread further downstream, as well as enhance the recreation qualities of the Hunter Creek Trail - the most popular trail within the Reno/Sparks urban interface. Our long-standing treatment program actively engages and educates the public on the importance of noxious weed management. After just one project, volunteers have a basic understanding of the negative effects of noxious weeds and the importance of controlling them as related to the habitat and greater watershed. By educating the public on these issues, we can inspire more stewardship and awareness of the entire watershed and our water supply.

Project #262: Caltrout Truckee River Access Improvement and Bank Stabilization

Organization: Truckee Donner Land Trust

Project Description:

The project proposes to stabilize a steep eroding bank along the Truckee River with a series of small terraces comprised of logs and boulders, backfilled with native material generated from on-site. The site is easily accessed from a pullout along eastbound I-80 and the banks have been impacted by heavy recreation use. The terraces will not only stabilize a source of sediment to the Truckee River, but will also provide an access point for a variety of user groups (anglers, raft put-in/put-out, general recreation). Terraces will be comprised of logs and boulders to form a series of long steps down to the river. The side slopes will be graded between 2:1 and 3:1 and revegetated with willow pole plantings. The goals of this project are consistent with goals and objectives of previously-completed studies including: The Truckee River Flood Management project (Truckee River Flood Management Authority), Nevada County's Recreation Master Plan, and although located downstream of the Placer County reach of the Truckee, the Truckee River Corridor Access Plan.

TMWA Benefit:

The proposed project advances TRF's Grant Priority II. Watershed Improvements. Specifically, this project is going to reduce erosion on a popular bank of the Truckee River and stabilize a source of fine sediment of the 303d listed River. The terraces successfully constructed with this funding will concentrate users on a durable surface and improve convenience of entry and exit to the River. This will stop entry from multiple sites and reduce erosion associated with its current use. This erosion, which is currently leading to sedimentation, would otherwise affect water quality and habitat quality for fish and other species.



Grant Priorities

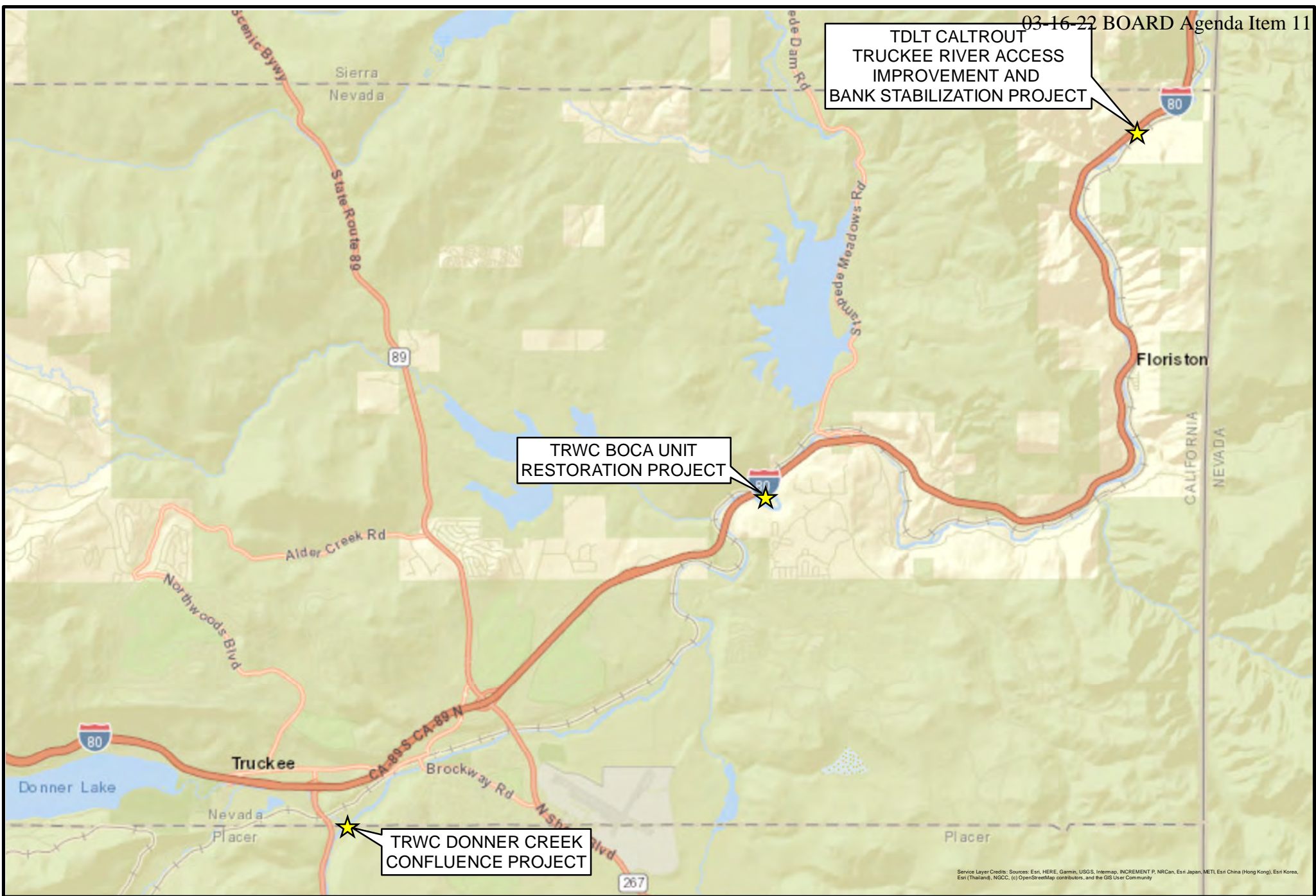
Based upon the aforementioned discussion, TMWA recommends that the Advisors give preference to well-prepared and thought out grant requests for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby treatment and hydroelectric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

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

TDLT CALTROUT
TRUCKEE RIVER ACCESS
IMPROVEMENT AND
BANK STABILIZATION PROJECT

TRWC BOCA UNIT
RESTORATION PROJECT

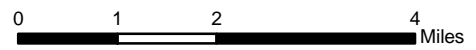
TRWC DONNER CREEK
CONFLUENCE PROJECT



Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



TRUCKEE RIVER FUND RESTORATION PROJECT LOCATIONS MARCH 2022





Cover Sheet

Date: January 20, 2022

Organization Name:		Sierra Nevada Journeys																			
Type:		501(c)(3) EIN# 01-0881587	Governmental entity? N																		
Address:		190 E. Liberty Street, Reno NV 89501																			
Project Name:		Watershed Education Initiative for the Urban Truckee River Corridor																			
Amount requested: \$30,055		Website: www.sierranevadajourneys.org																			
This funding will be used to (complete this sentence with a max of 2 sentences):		Deliver high-quality, experiential watershed education programs based on water quality issues and invasive species along the urban Truckee River corridor to empower youth to take action for the protection and enhancement of the water quality of the Truckee River. To meet schools' needs in case of restrictions, we have several distance learning/hybrid programs in place that will significantly engage students, teachers and parents with watershed education.																			
Key People:	Director:	Eaton Dunkelberger, CEO																			
	Board Chair:	Dan Klaich																			
	Project Contact:	Name:	Alyssa Wagner																		
		Position:	Program Director																		
		Phone:	775-848-6628																		
		Fax:	775-329-1689																		
Email:		alyssaw@sierranevadajourneys.org																			
Organization Mission:	To deliver innovative, outdoor, science-based education programs for youth to develop critical thinking skills and to inspire natural resource stewardship.																				
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary)	If yes, <table border="1"> <tr> <td>Date awarded:</td> <td>September 2021</td> </tr> <tr> <td>Project title:</td> <td>Watershed Education Initiative</td> </tr> <tr> <td>Amount of Award:</td> <td>\$30,055</td> </tr> <tr> <td>Date awarded:</td> <td>March 2021</td> </tr> <tr> <td>Project title:</td> <td>Watershed Education Initiative</td> </tr> <tr> <td>Amount of Award:</td> <td>\$31,035</td> </tr> <tr> <td>Date awarded:</td> <td>September 2020</td> </tr> <tr> <td>Project title:</td> <td>Watershed Education Initiative</td> </tr> <tr> <td>Amount of Award:</td> <td>\$32,041</td> </tr> </table>			Date awarded:	September 2021	Project title:	Watershed Education Initiative	Amount of Award:	\$30,055	Date awarded:	March 2021	Project title:	Watershed Education Initiative	Amount of Award:	\$31,035	Date awarded:	September 2020	Project title:	Watershed Education Initiative	Amount of Award:	\$32,041
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Amount of Award:	\$32,041																				

DESCRIPTION OF PROJECT UNDER CONSIDERATION

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

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

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



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

During the past 13 years, Sierra Nevada Journeys’ (SNJ) Watershed Education Initiative (WEI) has impacted approximately 14,000 students and 650 educators. This has been made possible thanks to the generous support of the Truckee River Fund. WEI educates students about the local watershed, including human impacts on the watershed, water quality, and watershed protection. While in-class and field-based lessons reach students and educators, WEI’s additional outreach components serve to engage families and community volunteers. With the specific focus of impacting the urban Truckee River corridor this Fall 2021 through WEI, we will successfully meet the following objectives:

Outputs	Outcomes
<p>Deliver WEI to 750 K-8th grade students specifically from along the urban Truckee River corridor.</p> <p>All students receive first-hand experience with the local watershed through a field-study on the Truckee River or one of its tributaries, or, in the case of a distance learning model, a virtual field trip or case study of the Truckee River.</p> <p>Provide 28 teachers with WEI extension lessons.</p>	<p>90% of students will be able to draw, describe and discuss the Truckee River Watershed.</p> <p>90% of students will be able to use knowledge of storm drains to describe how individuals and communities can protect watersheds and reduce human impact on them.</p> <p>90% of students participating in “Hands in the River” curriculum will complete a Truckee River issue case study on water quality in the watershed.</p> <p>95% of teachers will report that the program is helping to build critical thinking skills among their students.</p>

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

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

We anticipate doing in-person learning this Spring. However, if Sierra Nevada Journeys WEI has to move to a hybrid and/or virtual platform due the COVID-19 crisis, we still anticipate reaching 28 teachers and 750 students with our Virtual Classrooms Unleashed. To achieve this programming, we continue to design online programs so that teachers can implement STEM and WEI lessons directly into their distance learning curricula, if needed.

Even with hybrid learning restrictions last year requiring great flexibility to serve teachers and students, we reached 500+ teachers and 20,000 students. Early in the year, we provided our programming through live Zoom lessons, pre-recorded videos of demonstrations in the field, interactive slideshow presentations and hands-on activities, ensuring that WEI inspired students to learn about our watershed and non-point source pollution. During the Fall, our educators personally reached out to each school and classroom to determine how SNJ could support them. As a result, we tailored our Watershed Education Initiative, appropriately, to meet their needs. Sierra Nevada Journeys continues to being committed to



filling any unexpected education gaps created by the pandemic. We will deliver a successful education model, whether through traditional or virtual platforms, with the blend of fundraising dollars, program fees and community support, especially with the generous funding of the Truckee River Fund.

2. Project location. During Spring 2022, the two main field sites for this program will be located through and downstream of the urban corridor of the Truckee River; Oxbow Nature Study Area and the McCarran Ranch Preserve. These locations are convenient and close to home for local students, increasing their sense of ownership, awareness and comfort with accessible nature areas, and they highlight regions along the Truckee River that are impacted by urban growth and development. In instances of distance learning programming, students will be guided through a “Virtual Field Trip” to the McCarran Ranch Preserve.

3. Project Description. A study from The Nature Conservancy reveals that students who have had a personal experience in nature are:

- Significantly more likely to express concern about water pollution, air pollution, climate change, and the condition of the environment;
- More than twice as likely to “strongly agree” that protecting the environment is “cool;”
- More than twice as likely to consider themselves a “strong environmentalist;” and
- Substantially more likely to express interest in studying the environment in college, working in a job related to nature, or joining an environmental club at their school. ¹

Also, a study from the North American Association for Environmental Education showed that feelings of connectedness to nature are important predictors of environmental behaviors, and that connectedness for children was significantly enhanced through field trips. As children become increasingly alienated from the outdoors it is imperative to create opportunities for them to connect to nature.²

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

With this funding, SNJ will serve 750 students in 28 classrooms within 10 miles of the urban corridor of the Truckee River. Conducted over a four-week period, WEI includes two in-class lessons, one field-study experience, pre- and post-assessments, classroom extension lessons for teachers, and family and community engagement. Curriculum developed and delivered by SNJ’s team of credentialed teachers aligns to state and national standards and the North American Association for Environmental Education’s Guidelines for Excellence.

SNJ’s Watershed Education Initiative Overview

The **school-based** component includes two in-class lessons (three) hours of engaging instruction. Students participate in hands-on lessons that incorporate 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 approximately one day of outdoor science education as students hike along the Truckee River. Students seek clues related to the health of the watershed and determine water quality by collecting and identifying macro-invertebrates or conducting chemical tests such as pH, dissolved oxygen, or turbidity. Students use evidence to make a conclusion about the health of the Truckee River Watershed.

SNJ provides five ready-to-use classroom **extension lessons for teachers** that help students prepare for and review learning objectives, as well as extend and reinforce each SNJ-directed lesson. By explicitly

¹ The Nature Conservancy, Connecting America’s Youth to Nature, 2012 Retrieved from: <http://www.nature.org/newsfeatures/kids-in-nature/youth-and-nature-poll-results.pdf>

² NAAEE, The Importance of Age and Duration of Exposure in Outdoor Education Programs, 2017 <https://naaee.org/eepr/research/library/connecting-students-nature-%E2%80%93-how>



modeling teaching methods and reinforcing with SNJ’s classroom lessons, we strive to support educators and multiply the effects of our student programming.

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

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

4. Grant priorities. WEI is an education program that addresses water, water quality and watershed protection for K-8th grade students, directly aligning with grant priority VI: *Stewardship and Environmental Awareness*. Students gain first-hand experience determining water quality, explore human impacts on their water source, and obtain skills, knowledge and a field experience to connect them to their local river. The overall long-term program impacts include:

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

5. Permitting. - N/A

6. Future land use. – N/A

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

8. Principals involved:

Credentialed science educators on the SNJ staff will be directly responsible for coordination and delivery of watershed education programs. Alyssa Wagner is a former elementary school teacher and holds a Bachelor of Science in education from the University of Nevada, Reno, and a Masters in Curriculum and Instruction from Concordia University, Portland, Oregon.

9. Number of staff positions involved in project: Fulltime **5** Part-time **1**

10. Number of volunteers involved: If the project runs in-person, approximately **50** volunteers (including field educators and parent volunteers) will donate **time** during WEI’s field-study portion of the program, increasing parents and community member access to watershed education.

11. Time Line of Project.

Deliverables	2022					
	Jan	Feb	Mar	Apr	May	J
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 750 students through school-based and field-based programs.

Evaluation: SNJ staff will compile student assessment data throughout the grant period. These results will inform any changes to the curriculum to ensure effective programming in the future.

Final Report: Submit the final report to the Community Foundation of Western Nevada. This report will include a summary of the work completed, student assessment data, and a budget update.



12. Success.

Outputs	Tracking
<p>Deliver watershed education to 750 K-8th grade students from throughout northern Nevada.</p> <p>All students receive first-hand experience with the local watershed through a field-study on the Truckee River or one of its tributaries, or, in the case of a distance learning model, a virtual field trip or case study of the Truckee River.</p> <p>Provide 28 teachers with WEI extension lessons.</p>	<p>Internal SNJ database – Updated regularly throughout the year</p>
Outcomes	Tracking
<p>90% of students can draw, describe and discuss the Truckee River Watershed.</p> <p>90% of students can use knowledge of storm drains to describe how individuals and communities can protect watersheds and reduce human impact on them.</p> <p>90% of students participating in “Hands in the River” curriculum will complete a Truckee River issue case study on water quality in the watershed.</p> <p>95% of teachers will report that the program is helping to build critical thinking skills among their students.</p>	<p>Pre- and post-assessments – reviewed after the end of each program and presented in report at end of grant period</p> <p>Teacher surveys</p>

13. Grant Match

Match amount to be provided:	\$7,513 (25% of requested funds)				
Match details:	Match is:				
	<table border="1"> <tr> <td>Cash</td> <td>\$7,513</td> </tr> <tr> <td>In-kind</td> <td>Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.</td> </tr> </table>	Cash	\$7,513	In-kind	Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.
	Cash	\$7,513			
In-kind	Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.				
For the cash portion of your match, is the funding already being held by the applicant for this project? Yes __ No <u>X</u>					
Description of matching funds/in-kind donations:	\$7,513 from the Nevada Division of Environmental Protection				



14. Project Budget
Watershed Education Initiative (WEI) Budget

Program Budget for Classrooms Unleashed: Nevada					
Item	Description	Per Student Expense	WEI Spring 2022 Expenses	SNJ Match	TRF Request
Education Personnel	Education Instructors, Program Directors and Coordinators	\$ 40.01	\$ 30,007.50	\$ 5,000.00	\$ 25,007.50
Direct Program Expenses	Direct program expenses, including: program and field day supplies, printing and paper, uniforms, etc.	\$ 6.73	\$ 5,047.50		\$ 5,047.50
Occupancy Expense	Rent and utilities	\$ 2.72	\$ 2,040.00	\$ 2,040.00	
Administration Expense	Marketing, office supplies, postage, outside printing services, internet and telephone	\$ 4.73	\$ 3,547.50	\$ 3,547.50	
	Total Expenses	\$ 54.19	\$ 40,642.50	\$ 10,587.50	\$ 30,055.00

Donner Creek Confluence and Boca Unit Restoration

Organization Name:	Truckee River Watershed Council			
Type: Non-Profit	501(c)(3) EIN# 91-1818748	Governmental entity? No		
Address:	P.O. Box 8568, Truckee, CA 96162			
Project Name:	Donner Creek Confluence and Boca Unit Restoration			
Amount requested: \$55,700	Website: www.truckeeriverwc.org			
This funding will be used to (complete this sentence with a max of 2 sentences):	Fill critical funding gaps in two restoration projects, the Donner Creek Confluence Project and the Boca Unit Restoration Project. Both projects will support the Truckee River TMDL by reducing excess sedimentation and improving hydrologic connectivity and watershed function.			
Key People:	Director:	Lisa Wallace		
	Board Chair:	Jake Hudson		
	Project Contact:	Name:	Michele Prestowitz	
		Position:	Project Director of Restoration	
		Phone:	530-550-8760	
		Fax:	NA	
Email:	mprestowitz@truckeeriverwc.org			
Organization Mission:	We bring the community together for the Truckee to restore, protect, and enhance the Truckee River watershed.			
Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary)	If yes,			
	Date awarded:	September, 2021		
	Project title:	Prosser Basin Sediment Reduction		
	Amount	\$44,000		
	Date awarded:	March, 2021		
	Project title:	Bear Creek Lower Meadow Restoration Project		
	Amount:	\$51,250		
	Date awarded:	September 2020		
	Project title:	Coldstream Canyon Sediment Reductio Project		
	Amount:	\$86,500		
Please see Attachment A for a full list of awarded grants				

DESCRIPTION OF PROJECT UNDER CONSIDERATION

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

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

Donner Creek Confluence and Boca Unit Restoration

1. **Specific project goals and measurable outcomes and how you will measure and report them.** The goal is to reduce erosion and excess sedimentation to the Truckee River by restoring impaired floodplain and aquatic systems along the mainstem of the Truckee River. To that end, this funding request is to close critical funding gaps on two projects: one in the planning phase, the **Boca Unit Restoration Project**, and the other in implementation, the **Donner Creek Confluence Project**.

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

The goal of the **Donner Creek Confluence Project** is to reduce transfer of sediment into the Truckee River and improve water quality by increasing riparian habitat and establishing a buffer zone at the confluence of Donner Creek and the Truckee River. To achieve this, we will implement the following:

- 1) Reintroduce and incorporate riparian and native vegetation within the project site;
- 2) Manage recreational access to prevent continued degradation and erosion; and
- 3) Restore compacted soils to improve infiltration of stormwater runoff.

Specific outcomes of the proposed project will be to implement restoration actions in a heavily impacted site that is contributing high sediment loading to the Truckee River. We will accomplish this through the following work tasks:

- Restore ½ acre of riparian habitat and erosive soils;
- Incorporate riparian and native plantings and seed, and install erosion control blankets to enhance habitat and reduce erosion;
- Reduce direct transfer of stormwater runoff from roadways adjacent to the Truckee River;
- Provide sustainable recreational access to reduce user impacts and prevent erosion

The goal of the **Boca Unit Restoration Project** is to reduce sediment delivery and improve water quality by addressing significant historical impacts on the mainstem of the Truckee River. The following performance outcomes will be measured by a pre- and post-project monitoring program:

- Improve water quality and riparian habitat by creating a ½ acre inset floodplain bench;
- Restore hydrologic function by re-engaging 2,500 feet of original high-flow channels;
- Reduce excess sedimentation by stabilizing the channels as they return to the Truckee River;
- Reconnect natural drainage by removing 3,500 feet of dirt roads and ¾ acre of parking; and
- Reduce stormwater inputs from I-80 by creating a 3,300 sf stormwater basin from a former borrow site.

With the requested grant funding, the project outcomes are completion of resource surveys, preparation of an initial study/mitigated negative declaration (IS/MND) in compliance with the California Environmental Quality Act (CEQA) and submitting project permits. These can easily be reported quarterly to the Truckee River Fund.

2. **Project location.** Both projects are located on the mainstem of the Truckee River. See attached maps.
3. **Project description.** The **Donner Creek Confluence Project** and the **Boca Unit Restoration Project** share a common goal of reducing erosion and excess sedimentation to the Truckee River and improving water quality. The Truckee River has long been a focal point of development in the region, and historical urban-land uses were concentrated along the river. As a result, much of the historic

Donner Creek Confluence and Boca Unit Restoration

floodplain and sections of channel were heavily altered or filled. Additionally, both sites experience heavy recreational use, including unauthorized vehicle access, which leads to soil erosion, reduced riparian regeneration, compacted soils, and unmitigated stormwater pollution to the Truckee River. Both projects will establish a balance of environmental restoration and sustainable public access.

In 2020, the Truckee River Watershed Council (TRWC) completed project design plans for the **Donner Creek Confluence** site. Project design details a process to re-establish riparian habitat and restore compacted soils at the confluence of Donner Creek and the Truckee River.

The Donner Confluence project is being implemented in partnership with the Town of Truckee as part of the Truckee Legacy Trail-Phase 4 planned for construction in 2022. Monies provided by the Truckee River Fund will close a \$32,500 funding gap for the revegetation and soil restoration slated for fall of 2022. If the project is awarded, monies from the Truckee River Fund will leverage \$37,000 from the Town of Truckee for implementation of sustainable recreational access components, establishing designated parking, grading and stormwater management project elements.

The project is designed to restore floodplain function and habitat through planting and incorporating riparian and native vegetation, restoring natural infiltration processes and reducing erosional and stormwater impacts to Donner Creek and to the Truckee River. Management actions will be implemented to ensure that vehicles are restricted from accessing the site, and that recreational use is managed to minimize detrimental impacts. Grading will remove existing gullies and rills and will direct stormwater runoff away from Donner Creek and the Truckee River, minimizing direct transfer of stormwater runoff and sediments into the Truckee River.

The **Boca Unit Restoration Project** will reduce sediment delivery to the mainstem Truckee River by restoring and enhancing 11 acres of floodplain at a heavily degraded site. The site contains an historic railroad spur that disconnected the floodplain and confined the river to a straight channel, exacerbating erosion. Vehicle access compacted soils and intensified erosion. Runoff from I-80 conveys pollutants directly to the Truckee. The project will remove a portion of the railroad spur to reintroduce flows to the floodplain surface, slowing flows and reducing erosion. Unused roads will be decommissioned. A former borrow site will be converted to a stormwater treatment basin.

Hydrologic modeling shows that the restoration will successfully reconnect the river to its historic floodplain in a 2-year or greater precipitation event. This will have positive effects on sediment reduction, flood attenuation, and other floodplain functions. The project will also have significant benefits for riparian habitat acreage, quality, connectivity, and function. All of which promote greater climate change resiliency and adaptive capacity in this headwater system.

This project was identified by the Truckee River Revitalization Assessment (2018) and prioritized by a technical advisory committee for its likelihood to improve water quality, habitat, and hydrologic function. The landowner, the California Department of Fish and Wildlife (CDFW), is an active project partner and formally approves the project.

This request is to fill a critical funding gap of \$23,200 for environmental compliance and permitting. If awarded, these monies will leverage \$309,000 from the California Wildlife Conservation Board for restoration design and planning.

Design documents for both projects are available for review upon request.

Donner Creek Confluence and Boca Unit Restoration

4. **Grant priorities.** The project addresses:
- **Watershed Improvements:** The projects will decrease sedimentation and support attainment of the TMDL for the Truckee River. They also improve watershed function and habitat by increasing floodplain connectivity and enhancing riparian vegetation.
 - **Local Stormwater Improvements:** The projects will mitigate stormwater coming from Highway 80 (Boca Unit) and West River Street (Donner Confluence) by targeting on-site infiltration.
 - **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** The Donner Confluence project will restore habitat on a key tributary of the Truckee River and reduce sediment transfer to Donner Creek, as well as to the mainstem of the Truckee River.
 - **Meet Multiple Objectives:** The projects meet the objectives listed above, and benefit meadow, riparian, and in-stream habitat, native fish and wildlife species, and carbon sequestration.
 - **Leverage Stakeholder Assets and Participation:** The projects leverage significant stakeholder participation and cost share from the Town of Truckee and CDFW.
5. **Permitting.** Work at both sites will require Lahontan Regional Water Quality Control Board Section 401 Certification, California Department of Fish and Wildlife Lake and Streambed Alteration Agreement, and US Army Corps of Engineers Section 404 Nationwide 27 permit. The Town of Truckee has secured all necessary permits for the **Donner Confluence** project. The **Boca Unit** project will also need CEQA and California State Water Resources Control Board Construction General Permit and will be completed through this funding request.
6. **Future Land Uses.** The **Donner Confluence** site is owned by the Town of Truckee. The Town will maintain and manage the land for multiple-use benefits including recreational access, habitat preservation and ecosystem functionality. No additional re-zoning or development plans are anticipated to affect the multi-use management objectives for this site. The **Boca Unit** project is part of the Truckee River Wildlife Area, designated by the California Fish and Game commission in 1996 to preserve the trout fishery and access to the river. CDFW manages the area for compatible uses, and there are no zoning, land use, or development plans that will affect the project.
7. **If future phases of the project will be needed, identify anticipated sources of funding.** Funding is provided by the Town of Truckee to ensure the **Donner Confluence** site is maintained and managed in accordance with applicable land-use management guidelines and requirements. Future project phases for the **Boca Unit** project include construction, post-project monitoring, and adaptive management. TRWC is currently applying for implementation funding from the State of California; however, these funding sources require CEQA to be complete for eligibility.
8. **Principals involved.** Eben Swain, Project Director with TRWC, will be the lead for the **Donner Confluence** project. Michele Prestowitz, Project Director with TRWC, will lead the **Boca Restoration** project. These principals will handle grant administration tasks jointly.
9. **Number of staff positions involved in project:** (Part-time) Eben Swain, Michele Prestowitz, and Lisa Wallace (TRWC) will each 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 components at the **Donner Confluence** including re-seeding and mulching. 10 volunteers will contribute a total of 45 hours of volunteer time.

Donner Creek Confluence and Boca Unit Restoration

11. Time Line.

Task	Start Date	Completion Date
Donner Confluence Restoration		
Stakeholder Coordination	March 2022	December 2022
Contractor Hiring/Bid Documents	July 2022	August 2022
Construction/Restoration	September 2022	November 2022
Boca Unit Restoration		
CEQA	March 2022	July 2022
Permits	March 2022	September 2022
Project Management and Reporting	March 2022	December 2022

12. **Success.** Project success for the **Donner Confluence Project** will be determined by growth, vigor and density of established vegetation, as well as by decreased presence of erosional features including rills and/or gullying that would otherwise convey sediments and stormwater pollutants to the main-stem of the Truckee River and to Donner Creek. Project success for the **Boca Unit** will be confirmed by completion and acceptance of all environmental compliance and permits.

13. Grant match.

Match amount to be provided:		\$13,925	
Match details:	Match is:		
	Cash	\$13,925	
For the cash portion of your match, is the funding already being held by the applicant for this project? Yes			
Description of matching funds/in-kind donations:	<p>The \$8,125 in matching funds for the Donner Confluence project are from the Town of Truckee. Matching funds are allocated for the implementation of recreational access, established parking and stormwater management components.</p> <p>The \$5,800 in matching funds for the Boca Unit project are from the California Wildlife Conservation Board. Matching funds are allocated for restoration design and planning.</p> <p>TRWC will manage all allocated project funds to ensure maximum project efficiency and cost effectiveness.</p>		

ATTACHMENTS

- A. Extended list of past TRWC projects funded by the Truckee River Fund.
- B. Donner Creek Confluence Project Location Map
- C. Boca Unit Restoration Project Location Map

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

Nonprofits submit:

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

Donner Creek Confluence and Boca Unit Restoration**BUDGET**

ITEM	TRF \$	OTHER FUNDING NAME	MATCH \$	TOTAL
Donner Confluence Restoration				
Project Management & Reporting	\$2,800			\$2,800
Project supplies (Plants, seed, amendment, etc)	\$3,400			\$3,400
Construction/Restoration	\$26,300	Town of Truckee	\$8,125	\$34,425
Boca Unit Restoration				
CEQA and permitting	\$23,200	California Wildlife Conservation Board	\$5,800	\$29,000
Totals:	\$55,700		\$13,925	\$69,625

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

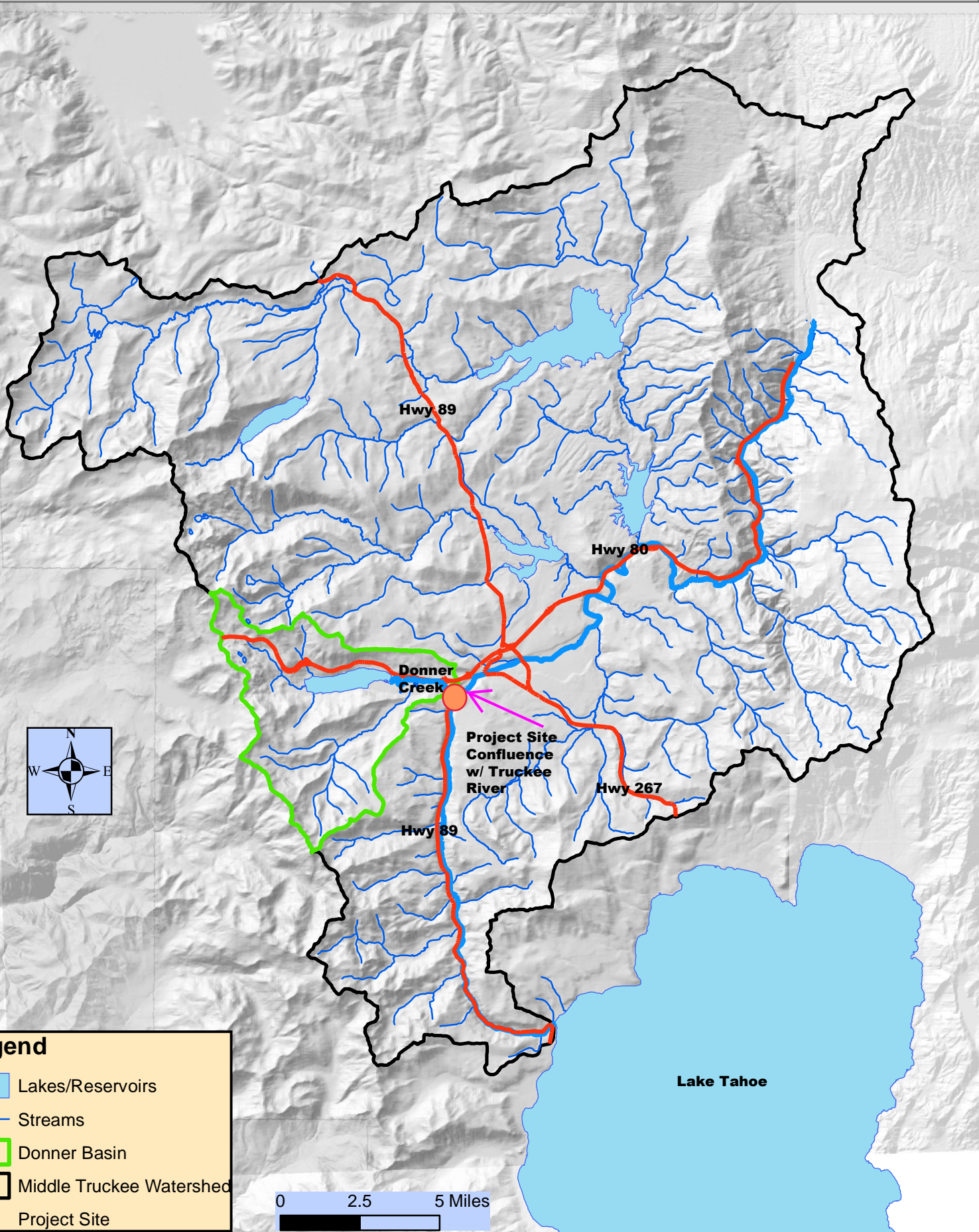
Attachment A
Complete list of grants to TRWC from the Truckee River Fund

Date awarded:	September, 2021
Project title:	Prosser Basin Sediment Reduction
Amount of Award	\$44,000
Date awarded:	March, 2021
Project title:	Bear Creek Lower Meadow Restoration Project
Amount of Award	\$51,250
Date awarded:	September 2020
Project title:	Restoration for Coldstream Canyon
Amount of Award	\$86,500
Date awarded:	October 2019
Project title:	Truckee River Invasive Species Control Project
Amount of Award	\$19,250
Date awarded:	March 2019
Project title:	Mclver 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

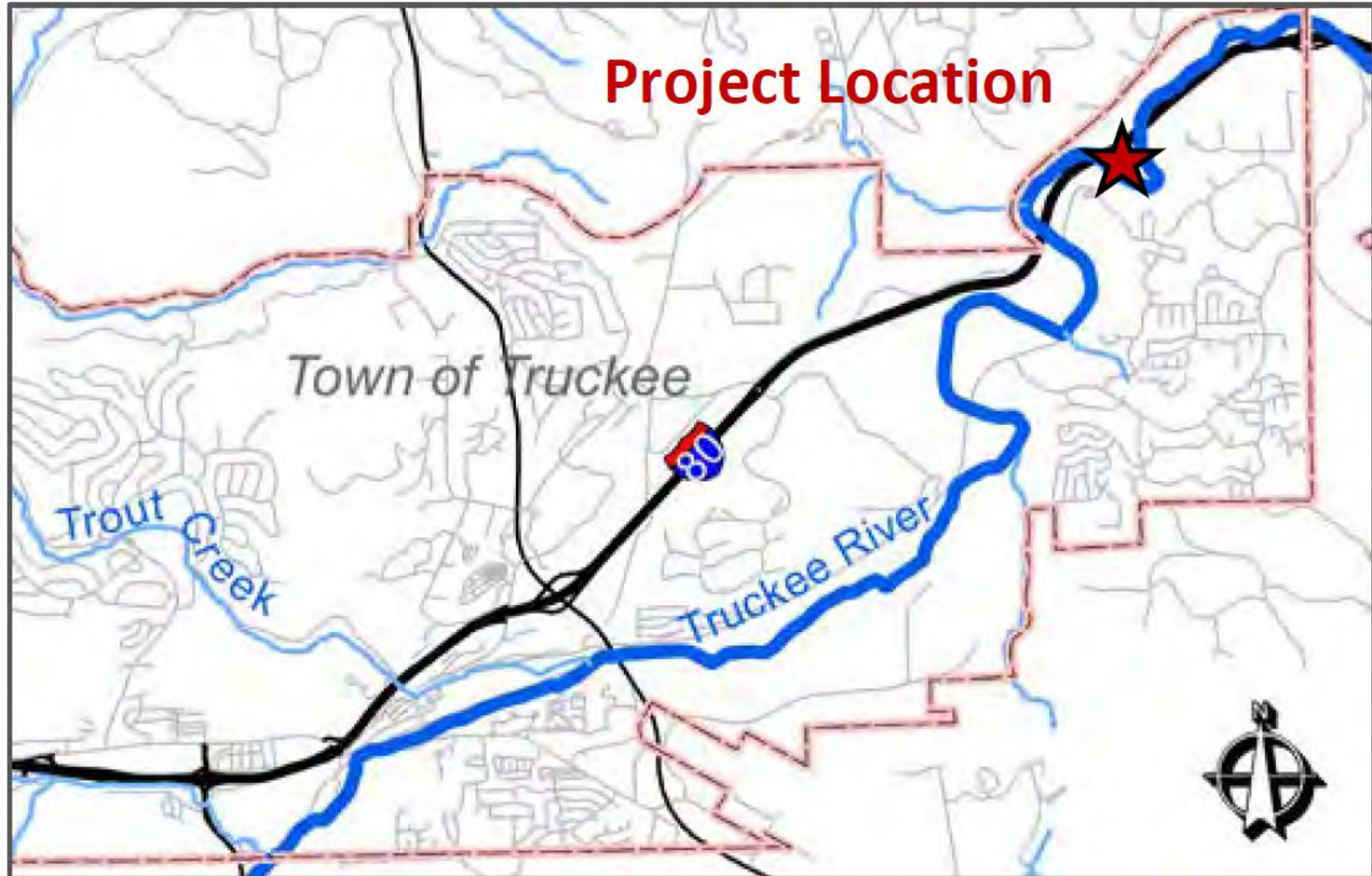
Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council

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

Attachment B: Donner Creek Confluence Project Location Map
Truckee River Fund - Spring 2022



Attachment C
Boca Unit Restoration Project Location Map
Community Foundation of Northern Nevada, Truckee River Fund – Spring 2022 RFP





Cover Sheet

Date: 2/4/2022

Organization Name:	National Forest Foundation			
Type:	501(c)(3) EIN# 52-1786332	Governmental Entity: N		
Address:	National Forest Foundation, Bldg 27, Ste 3, Fort Missoula Rd, Missoula, MT 59804			
Project Name:	Carson District Forest Ambassador Project			
Amount Requested: \$96,680.50	Website: nationalforests.org			
This funding will be used to:	Requested funding will support the hiring of two seasonal forest ambassadors on the Humboldt-Toiyabe National Forest – Carson Ranger District for one field season. These forest ambassadors will address the much needed, recognizable on-the-ground Forest Service capacity and associated land stewardship and educational needs on federal lands that overlap with TMWA watersheds of interest.			
Key People:	President:	Mary Mitsos		
	Board Chair:	Rob Leary		
	Project Contact:	Name:	Trevor Seck	
		Position:	Program Coordinator – Sierra Nevada Program	
		Phone:	530-760-7419	
		Fax:	406-542-2810	
E-mail:	tseck@nationalforests.org			
Organization Mission:	The National Forest Foundation, chartered by Congress, engages Americans in community-based and national programs that promote the health and public enjoyment of the 193-million-acre National Forest System, and administers private gifts of funds and land for the benefit of the National Forests.			
Has your organization received other grants from the Truckee River Fund? Yes No (use additional page if necessary)	No.			

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



Project Narrative:

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

The Forest Ambassador scope of work falls into three distinct program areas: public education and outreach, resource stewardship, and data collection. The primary goal of public education and outreach is to engage with National Forest visitors to provide education related to responsible and sustainable recreational use while visiting the HTNF Carson District. Outreach activities include tabling and roving at high-use areas, trail patrols, resource monitoring, event staffing, and educational events.

Forest Ambassadors will also work with the HTNF to complete stewardship activities including on-the-ground improvements such as trail maintenance and restoration, signage improvements, habitat protection, fencing, litter patrols, and vegetation rehabilitation. The Ambassadors work both autonomously and alongside project partners to accomplish objectives established by the U.S. Forest Service and NFF. Land stewardship activities will directly benefit TMWA watersheds of interest by promoting watershed health and restoration, reducing litter, and decreasing erosion and subsequent sedimentation into TMWA water supplies within the project area.

While on rounds throughout the TMWA watersheds of interest on HTNF lands, the Forest Ambassadors will conduct tablet data collection of user-related resource impacts. The primary forms this takes includes dispersed campsites, social trails, and trail maintenance locations and needs. Forest Ambassadors will document the location and intensity of these features, identify associated resource impacts, and provide the data needed to improve long-term management of high-use areas. These surveys will provide perspective on the spatial distribution/density of use across a broad region (district, watershed, etc.) and can better refine understanding of locations and intensity of use. This information will guide efforts to better distribute use, direct use away from sensitive areas, increase use in hardened or otherwise appropriate sites, and provide critical prioritization data sets. Additionally, this info may be shared with partners to improve their understanding of visitor use and potential future project needs.

2. Project location.

The HTNF Carson District encompasses 406,292 acres of public land. Overlying this District are important watersheds in the care of the Truckee Meadows Water Authority. The City of Reno – Truckee River and Steamboat Creek Watersheds encompass 307,997 acres, much of which directly overlaps the Carson District (see map). Within this overlap area are 16 recreation sites including two developed CGs, three high-use dispersed camping areas, five trailheads, four OHV staging areas, one interpretive site, one visitor center, 112 miles of National Forest System trails, and numerous undocumented user created trails and dispersed campsites.

The geographic scope of the project will directly align with watersheds that feed into downstream TMWA infrastructure. The intent of the project is to tailor the geographic focus of the project to align with TMWA’s priority watersheds on HTNF lands. Initial drainages identified include Thomas, Whites, Bronco, Grey, and Hunter Creeks, as well as areas in Dog Valley and the Mt. Rose Wilderness. TMWA representatives will be included in HTNF and NFF collaborative efforts to identify and prioritize watersheds of interest throughout the 2022 field season. For specific project location please refer to attached project map.

3. Project description.

Heavy visitation to public lands in the Eastern Sierra occurs during all four seasons of the year and continues to increase significantly, year after year. Of special concern, the Carson District of the Humboldt-Toiyabe National Forest (HTNF) is experiencing extremely high levels of visitor use from the surrounding cities of Reno, Carson City, the Tahoe Area, and visitors from across CA and NV. This sustained, high level of visitation is resulting in unmitigated and detrimental impacts to recreational and natural resources across the District. Notably, recreational impacts pose a risk to TMWA infrastructure and watersheds of concern from erosion and subsequent sedimentation of streams, increased risk of high severity wildfire and following water quality impacts, and litter and waste from irresponsible recreation.

The resulting negative impacts are greatly outpacing the capacity of the local HTNF recreation staff to respond. In addition to the negative impacts of extremely high use in these areas, many visitors lack information and education on



how to recreate responsibly. The NFF requests funding to support the hiring of two seasonal Forest Ambassador positions for one season to steward lands, conduct public outreach and education activities, and collect valuable resource data on HTNF lands that overlap with TMWA watersheds of interest. Forest Ambassadors will be utilized for a range of recreation management tasks (public outreach and education, trail stewardship and maintenance, data collection, waste management, restoration, etc.) that support the HTNF recreation program priorities on the Carson District and improve overall watershed health and sustainability.

The National Forest Foundation (NFF) will partner with local organizations such as American Conservation Experience (ACE) to hire two Forest Ambassadors that will integrate into the HTNF recreation program of work on a daily basis. Forest Ambassadors will be deployed at trailheads, trails, campgrounds, and recreation areas on National Forest System lands that have a direct nexus to TMWA infrastructure and watersheds of interest.

Forest Ambassadors will work independently or in small teams as required by task. The Forest Ambassadors will work full-time (40 hours/week) for one 6-month term. The work schedule will be designed so Forest Ambassadors are on the ground during peak usage - weekends and holidays. The HTNF and NFF will collaborate to develop an annual work plan for Forest Ambassadors, that includes a diversity of high priority recreation projects on National Forest System lands that have a direct nexus to TMWA infrastructure and watersheds of interest. TMWA input is welcomed and encouraged during the development of Forest Ambassador annual work plans.

The goals of the Forest Ambassador program are to:

- I. Provide much-needed, recognizable, on-the-ground USFS capacity,
- II. Perform outreach, education, and interpretation to the public,
- III. Provide resource stewardship and recreation infrastructure maintenance,
- IV. Support long-term forest management through data collection activities,
- V. Provide local employment opportunities related to the public land and recreation management sector.

Funding requested is scalable and may be reduced to meet the funding limitations and interest of TMWA. NFF's initial ask is for funding to support two Forest Ambassadors for one season; HTNF Recreation staff have voiced the need for two employees to increase safety while working within the project area. While preferable to attain funding for two Forest Ambassadors for two seasons, the NFF understands the high cost may be not feasible at this time.

4. Grant priorities.

The proposed project directly addresses grant program priorities II. Watershed Improvements, V. Rehabilitation of Local Tributary Creeks and Drainage Courses, and VI. Stewardship and Environmental Awareness. Position responsibilities will include, but is not limited to, 1. conducting trail maintenance and restoration to reduce erosion and sedimentation into stream courses; 2. conducting public education and outreach for responsible recreation, watershed health, and to increase public awareness of fire risk; 3. conducting watershed clean-up and litter removal activities; and 4. quantifying recreation and watershed impacts via mapping and quantitative and qualitative data collection.

Priorities II and V will be directly targeted by Forest Ambassadors through trail maintenance and restoration efforts. These efforts will include, but may not be limited to, bolstering and improving drainage and runoff structures following Best Management Practices (BMP's), litter and waste removal, and restoration of user created trails and dispersed campsites; trail maintenance activities will decrease trail erosion and subsequent sedimentation of water supplies that feed into downstream TMWA infrastructure. User created trails are numerous in the project area, typically do not exhibit proper drainage structures and align with BMP's, and overall exhibit high levels of erosion, degradation, and overall poor alignment and construction. By restoring these areas, a major contributor to water quality degradation will be mitigated.

Forest ambassadors will also be responsible for collecting trail and recreation site qualitative and quantitative data via geospatial mapping software recently developed by the HTNF through previously awarded other grant sources. Dispersed campsites and social trails are often located near water sources/drainages, including motorized traffic in sensitive riparian areas, that can go unnoticed because dispersed campsites and non-system trails are not officially monitored. Data collection activities will provide land managers and TMWA a resource to both identify and prioritize efforts to enhance watershed health, restore degraded trails and other recreational infrastructure that pose a detriment to water quality, and quantify restoration needs within the TMWA and HTNF watersheds of interest. Data collection efforts by Forest Ambassadors will allow both HTNF and TMWA to fully understand the impacts to these priority watersheds and identify



areas of concern to target and prioritize resource protection efforts, and mitigate major sources of sedimentation into stream courses.

Largely spurred by the pandemic, land managers are witnessing a spike in recreation use and associated resource damage, degradation, and misuse. Forest Ambassadors will address grant program priority VI. Stewardship and Environmental Awareness through targeted public outreach and education efforts. Ambassadors will actively make public contact while on watershed patrols, sharing responsible recreation principles including topics such as fire safe behavior, the importance of protecting water quality, leave no trace principles, and how to minimize negative impacts to resources while recreating. Efforts may also include attending local trail work volunteer events and conducting litter removal activities. The detrimental effects of high severity wildfire on water quality and quantity to downstream users are well documented; Ambassadors will engage with the public to enhance knowledge of detrimental behavior on public lands and act as “boots on the ground” to patrol critical watersheds within the project area. The need for “boots on the ground” staffing has been voiced repeatedly by HTNF District Ranger Matt Zumstein; Ambassadors will directly address this need, increasing public knowledge of best practices on public lands and acting as oversight for public recreation.

5. Permitting.

The NFF and HTNF entered into a Master Challenge Cost Share Agreement on March 17, 2021. This agreement permits the NFF to work on HTNF managed lands for a duration of 5 years, with HTNF intent to renew the agreement at the time of expiration. If awarded funding, the NFF and HTNF will modify our Supplemental Project Agreement (SPA) to include the Forest Ambassador scope of work; modifying the SPA is a straightforward and relatively expedient process. No additional environmental planning, including CEQA or NEPA, is required for this project.

6. Future land use.

There are no foreseeable zoning, land use, or development plans that may affect the proposed project. All lands associated with this project will continue to be managed by the HTNF in perpetuity.

7. Future Phases.

This application may be viewed as a crucial pilot project for the HTNF Forest Ambassador Program. Our vision is to continue this program indefinitely, with intent to fundraise from local organizations, agencies, and corporate partners. The NFF has had success with a similar Forest Ambassador program in our Colorado program; the NFF intends to match tactics and strategies learned from Colorado to support this program in the Eastern Sierra Nevada. Successes from this proposed pilot project may be leveraged to other funding sources and corporate partners, showcasing the needs and benefits of the program. Following success of the pilot project, we envision the program scaling up to target all HTNF – Carson Ranger District lands. Unfortunately, the needed initial investment is difficult to attain with the current focus on hazardous fuels reduction in the Western US. If awarded funding, we envision the program growing on its success, with additional interest and funding opportunities rapidly increasing through targeted communications efforts. The NFF intends to expand this program beyond the TMWA watersheds of focus, to the entirety of the HTNF Sierra Zone to address the dire need for additional recreation staff capacity identified by HTNF-Carson Ranger District leadership.

8. Principals Involved.

Principal organizations involved in leading and coordinating the project include the HTNF-Carson Ranger District and the NFF. If awarded funding, the NFF intends to partner with ACE to hire and manage the administrative needs of the Forest Ambassadors. HTNF Recreation staff will supervise the Forest Ambassadors throughout the season, including outlining specific work plans. The NFF will act primarily in an administrative capacity, managing grant funding and acting as a liaison between project partners. If awarded funding, TMWA will be provided an opportunity to play an active role in outlining priority projects and areas of interest; we view the Forest Ambassador program as a crucial collaborative effort to ensure all partners may attain their specific goals and needs within the identified project area.



9. Number of Staff Positions involved.

Forest Ambassadors (2 Full-time, 6-month positions):

Two Forest Ambassador positions are proposed. These positions will be full-time for a 6-month period (seasonal). Requested funding will directly support staff time for Forest Ambassador positions.

NFF Program Coordinator:

An NFF Program Coordinator will actively manage and coordinate project activities and administrative needs. The NFF Program Coordinator will manage the program as needed in a part time capacity; Program Coordinators are a salaried, year-round position managing multiple projects in their geographic area of focus. No grant funds will be requested to support NFF Program Coordinator project management.

HTNF Recreation Staff:

HTNF Recreation Staff will provide daily supervision and direction to the Forest Ambassadors. HTNF staff time is outlined in the included project budget as in-kind matching contributions to funds requested. HTNF recreation staff involved in the project will include multiple employees at varying levels of leadership; currently the HTNF has numerous vacancies in the process of being hiring. No grant funds will be requested to support HTNF staff time.

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

Currently, the NFF cannot accurately estimate potential volunteer hours associated with this project. However, Forest Ambassadors will have the capacity to host volunteer and public outreach events during throughout the duration of the proposed project.

11. Timeline of Project.

The scope of work is anticipated to occur between May 1 and November 1, 2022 (6 months). We have opted to utilize this timeline due to snowpack and limited access in winter and spring months, and to align with the traditional USFS summer seasonal work timelines. If awarded funding, we anticipate beginning the Forest Ambassador advertisement and hiring process in March 2022. This allows two months for the onboarding process and administrative steps necessary to launch the pilot project. We anticipate finalizing the geospatial and quantitative recreation resource and restoration needs data set by November 2022.

12. Success.

Success will be measured via both subjective and quantitative measures. All education and public outreach scopes of work will be reported in a narrative format. Recreational outreach and engagement is typically measured by number of encounters with the public and events. Quantitative reporting will include number of events attended and hosted, number of encounters on trails and watersheds, and number and type of restoration and maintenance projects completed. Additionally, the aforementioned geospatial resource inventory will be a final marker of season success. Geospatial data collected may include, but is not limited to, linear feet and locations of user created trails, locations and type of trail maintenance needs, dispersed campsites, campfire rings, and other restoration locations and needs. All data collected will include qualitative fields to further catalogue the above data sets. Collected field data will aid in guiding future management decisions and priority areas in need of restoration both for HTNF and TMWA objectives within the project area.

13. Collaboration.

Key entities involved in the proposed Forest Ambassador program include the HTNF, the NFF, and ACE. If awarded funding, TMWA will be included within this collaborative process. The NFF values TMWA's input to help guide project watersheds of focus and priority needs.



Grant Match

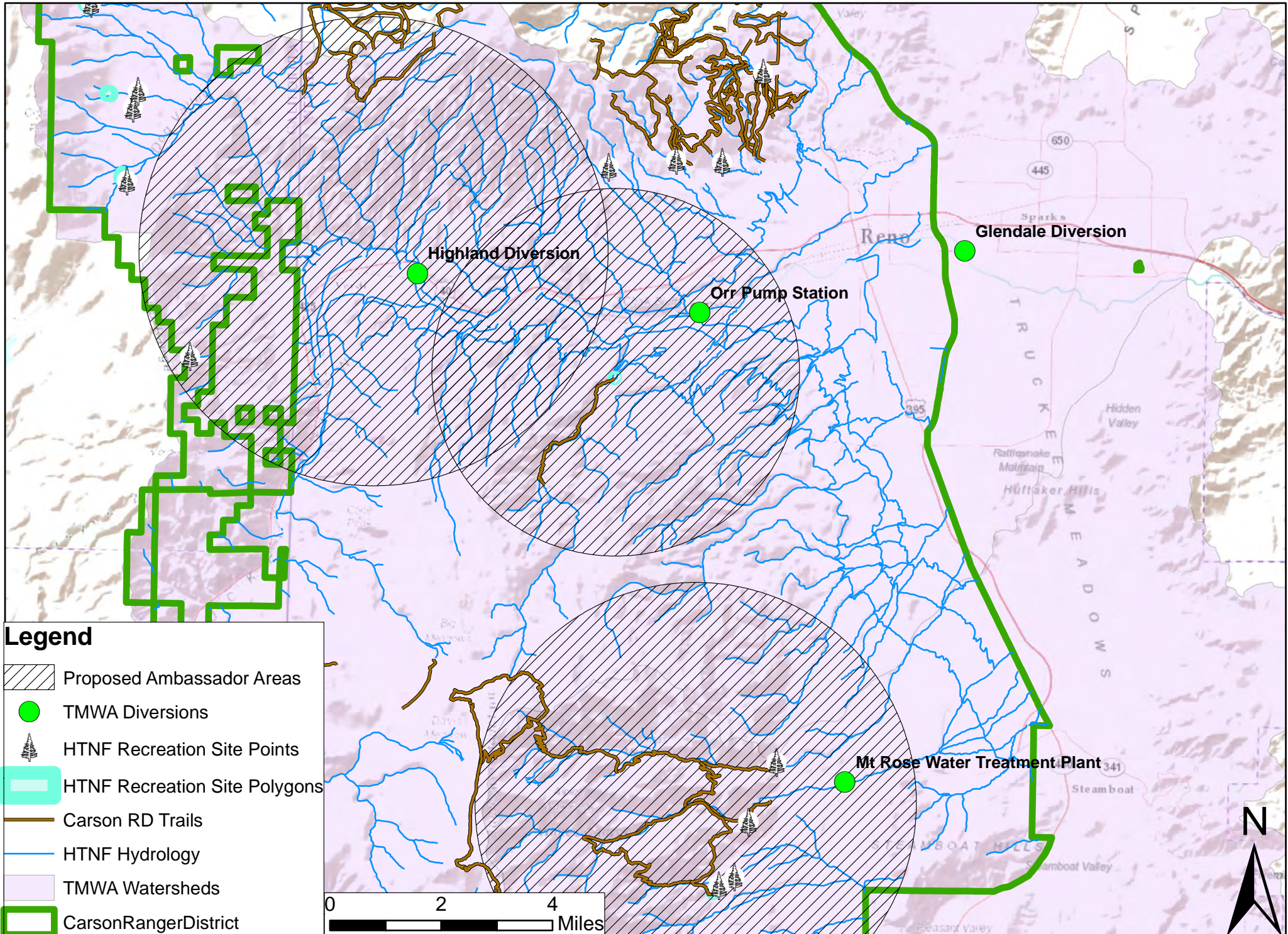
Match Amount to be Provided:	\$24,780.00	
Match Details:	Match is:	
	Cash	\$0.00
	In-kind	\$24,780.00
Description of matching funds/in-kind contributions:	HTNF Recreation Staff will provide daily supervision and direction to the Forest Ambassadors. HTNF staff time is outlined in the included project budget as in-kind matching contributions to funds requested. HTNF recreation staff involved in the project will include multiple employees at varying levels of leadership; currently the HTNF has numerous vacancies in the process of being hiring. No grant funds will be requested to support HTNF staff time.	

NFF 2022 Truckee River Fund Grant Proposal Budget









Budget Item	Expected Subcontractor	TMWA Funding Request	Cost/Day	Match \$	Additional Information
2 x Forest Ambassador - 6 month season	American Conservation Experience	\$ 81,070.00	-	\$ -	Funds will support the hiring of two Forest Ambassadors for one six-month season, likely through ACE.
Supplies	-	\$ 1,000.00	-	\$ -	\$500 for each Ambassador. Funds to support purchasing PPE
Training	-	\$ 2,000.00	-	\$ -	\$1,000 for each Ambassador. Training may include interpretive/sustainable recreation, first aid/medical, trail maintenance skills, etc.
Project Oversight (USFS In-Kind)	HTNF GS-11	-	\$ 450.00	\$ 2,700.00	GS-11 Recreation Officer - 1 day per month
	HTNF GS-9	-	\$ 300.00	\$ 14,400.00	GS-9 Deputy Recreation Officer - 2 days per week
	HTNF GS-5	-	\$ 160.00	\$ 7,680.00	GS-5 Seasonal Recreation Technician - 2 days per week
NFF Indirect (15%)	-	\$ 12,610.50	-	\$ -	
Total:		\$ 96,680.50		\$ 24,780.00	

Total Requested	\$ 96,680.50
Match (25%)	\$ 24,780.00
Match %	26%

NFF - TMWA 2022 Truckee River Fund Grant Program



Legend

-  Proposed Ambassador Areas
-  TMWA Diversions
-  HTNF Recreation Site Points
-  HTNF Recreation Site Polygons
-  Carson RD Trails
-  HTNF Hydrology
-  TMWA Watersheds
-  CarsonRangerDistrict



FRIENDS of NEVADA WILDERNESS

Cover Sheet

Date: 02/04/2022

Organization Name: Friends of Nevada Wilderness	
Type:	501(c)(3) EIN# 88-0211763 Governmental entity? N
Address: 1360 Greg St. #111 Sparks Nevada 89431	
Project Name: Mount Rose Noxious Weed Monitoring, Treatment, and Re-seeding #10	
Amount requested: \$25,575 Website: www.nevadawilderness.org	
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 6 removal projects, 3 reseeded projects, and monitor known weed sites.	
Key People: Nora Richter Chris Cutshaw Meg Tait Darcy Shepard	Director: Shaaron Netherton
	Board Chair: Roger Scholl
	Project Contact:
	Name: Nora Richter
	Position: Grants and Operations Manager
Phone: 775-324-7667	
Fax: 775-324-2677	
Email: nora@nevadawilderness.org	
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.
Has your organization received other grants from the Truckee River Fund? Yes X No _ (use additional page if necessary)	If yes,
	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	



FRIENDS of NEVADA WILDERNESS

	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

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.

NARRATIVE

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

The goal of the 2022 Mount Rose Wilderness Noxious Weed Monitoring, Treatment, and Re-Seeding project is to 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. With the help of volunteers, we will battle the spread of the noxious weed Musk Thistle (*Carduus nutans*), monitor known weeds sites for changes and growth, and identify any new infestations. In 2020, we expanded our weed treatment program to include re-seeding efforts as directed by the U.S. Forest Service (USFS). We look forward to continuing the re-seeding in 2022 and monitoring it's efficacy.

Our methods include monitoring/scouting in the spring, direct removal with significant support from local volunteers, and re-seeding with native seeds in the fall. During the spring, Friends of Nevada Wilderness (FNW) staff will monitor known weed sites to assess outcomes and monitor changes in known populations. We will also monitor for native plants whose seeds we spread in 2020 and 2021 to monitor for the efficacy of our reseeding efforts. Weed removal will take place during May and June before plants have gone to seed. We will use shovels and clippers to pull Musk Thistle which is listed on the state noxious weed list. Mechanical removal is the most appropriate way to treat these weeds in Wilderness. Re-seeding will take place in the fall throughout 10 acres of the affected watershed with a USFS Botanist- approved graminoid mix, purchased by FNW, with pollinator-attracting perennial forbs.

FNW staff and volunteers will treat noxious weeds throughout an area of approximately 75 acres, monitor existing weed sites and surrounding areas, re-seed approximately 10 acres where weeds have been removed, and monitor areas where reseeding have occurred to look for native plants from seeds spread in 2020 and 2021. With funding from the Truckee River Fund we will host six volunteer weed removal events, three monitoring trips, and three re-seeding volunteer projects. Our project sites have been identified from years of monitoring and direction from the Carson Ranger District. We anticipate removing 10-000-15,000 invasive weeds that each have the potential to germinate and create thousands more plants. On each weed removal project, we plan to average 6 volunteers for about 6 hours of on-the-ground work each, and on each re-seeding project we plan to average 4 volunteers for about 6 hours of on-the-ground work each. We will also



FRIENDS of NEVADA WILDERNESS

use matching funds to complete at least two additional weed removal projects with 6 volunteers for 6 hours each, and we anticipate removing at least another 5,000 weeds.

These projects will not only engage and educate volunteers but will give citizens a chance to take part in the stewardship of their watershed. To date we have removed over 225,000 weeds from the Truckee River Watershed, resulting in a decrease in density of noxious weeds, and we hope to continue our momentum by augmenting these weed treatments with the reseeded of native bunch grasses and perennial forbs.

2. **Project location:** Project locations are in or adjacent to the northern section of Mount Rose Wilderness and are located within Hunter Creek and Belli Front drainages of the Wilderness into the Truckee River. All of the identified noxious weed locales are within the Truckee River Watershed and are 1-4 miles from the Truckee River. Most locations are directly adjacent to the heavily used and highly impacted Hunter Creek Trail and Steamboat Ditch Trail. 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 can easily spread downstream so treatment of these locations directly improves water quality downstream.
3. **Project description.**
Staff will monitor known weed sites during April tracking spread of plants and efficacy of the previous year's treatment and reseeded. During May and June, staff will lead volunteers to noxious weeds sites and remove them with shovels and by hand. If plants have produced flowers, we will clip the seed heads and pack them out to be safely disposed of. In the fall, staff will lead volunteers to previously identified sites to disperse native seeds by hand. Some snacks, additional water, training, education, and all necessary tools and personal protective equipment will be provided by FNW. Please see map, included on page 7.
4. **Grant priorities.**
Our 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), and priority #7 (Meet Multiple Objectives). Noxious weeds, specifically Musk Thistle, pose a significant threat to the health of the Truckee River Watershed. Through volunteer removal projects, we will improve the health of the Truckee River Watershed by removing noxious weeds and replacing them with seeds of native plants. Reducing the number of weeds in the Hunter Creek area (a main tributary to the Truckee River) will improve the water quality, reduce soil erosion, and slow the spread further downstream, as well as enhance the recreation qualities of the Hunter Creek Trail - the most popular trail within the Reno/Sparks urban interface. Our long-standing treatment program actively engages and educates the public on the importance of noxious weed management. After just one project, volunteers have a basic understanding of the negative effects of noxious weeds and the importance of controlling them as related to the habitat and greater watershed. By educating the public on these issues, we can inspire more stewardship and awareness of the entire watershed and our water supply.
5. **Permitting.** 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.** Our program sites are all within public land managed by the US Forest Service and the majority of the sites are within the Mt Rose Wilderness. There are no foreseeable zoning or development plans that will affect this project.
7. **Future Phases:** The danger of Musk Thistle is that these plants create dense monocultures, drive out native plants and animals, disrupt the local ecology, degrade the soil, and increase erosion. A single Musk Thistle flower can produce over 1,200 seeds and can stay dormant in the soil for up to 15 years, resulting in a need for continued management. For these reasons, the success of invasive weed management in the Truckee River



FRIENDS of NEVADA WILDERNESS

corridor is dependent upon continued annual removal and monitoring. In 2022, we will work with the Cason Ranger District to continue our removal and reseeding efforts and continue the battle against invasive plants in the Truckee River Watershed.

At sites we have treated for many years, we are seeing a reduction in the annual number of plants and some of these sites now only require annual “maintenance.” We hope to build on this success through continued treatment and re-seeding efforts. Friends of Nevada Wilderness has consistently outperformed our goals, using funding from the Truckee River Fund to effectively leverage volunteers to help control invasive weeds at these sites and slowly reducing numbers. Our institutional knowledge of this portion of the watershed is invaluable to its long-term health. We will continue working with the USFS Carson Ranger District to build upon our successes and move the program forward.

To make our program more sustainable, we have been pursuing matching funds to supplement the Mount Rose Invasive Weed program. These matching funds, included in the overall budget, allow us to increase the impact and sustainability of the program as we continue to leverage funds and volunteer labor to fight invasive weeds in the Wilderness and watershed. 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. **Principals Involved:** Stewardship Coordinators and GIS Mapping Technician. We will be taking direction from the USFS Carson District Botanist, and Rangeland Management/Invasive Weeds Specialist.
9. **Staff Positions Involved:** Fulltime **0** Part-time **4**
10. **Volunteers Involved:** We anticipate involving 48 or more volunteers, who will donate approximately 288 hours of volunteer time. We will host 6 volunteer weed removal projects with an average of 6 volunteers per project, and 3 re-seeding projects with an average of 4 volunteers per project using Truckee River Fund funding. We will host 2 additional weed removal projects with an average of 6 volunteers per project using matching funds. Pre-pandemic, we had great success working with Patagonia Inc. employees, REI employees, and the Midtown Rotary Club. Unfortunately, due to the pandemic we did not work with any of these groups in 2020 or 2021, however, many of our partners have already expressed interest in returning to in-person volunteering in 2022. We will also reach out to other businesses, UNR clubs, local Meetups, the Reno Hiking Group, Keep Truckee Meadows Beautiful, and the Truckee Meadows Weed Coordinating Group during our quarterly meetings. We use a variety of outreach methods to recruit volunteers including our monthly e-newsletter, tabling, flyer placement, social media, and volunteer recruitment websites such as www.volunteermatch.com and www.idealists.org. We also have a large number of dedicated volunteers eager to join these projects already.
11. **Timeline:** Volunteer recruitment and outreach to partner groups will start immediately upon project approval. Scheduling of projects will begin in March and monitoring will begin in April. Our first weed treatment project will be part of the Great Community Clean Up with Keep Truckee Meadows Beautiful on April 30th, 2022. The other weed removal projects will be held May-June. We will host 3 re-seeding projects in October & November. The native seed mix is most effective when spread before a rain or snow with freezing overnight temperatures, so the projects will be scheduled a week or two beforehand when the weather is looking favorable. Any additional monitoring will be completed by December 2022. Final reporting will occur in early 2023.
12. **Success:** 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 consider our program successful if deliverables are completed safely, we reach our target number of weeds removed, and the volunteers finish the projects with an understanding of the importance of invasive weed management and its relation to the Truckee River Watershed. 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.



FRIENDS of NEVADA WILDERNESS

13. **Collaboration:** Each year, we collaborate with Keep Truckee Meadows Beautiful (KTMB) to accomplish 1 to 2 weed removal projects. They assist with volunteer recruitment; provide extra tools, and some management support for these projects. Partners who provide employees or members as volunteers include Patagonia Inc., REI, International Gaming Technologies (IGT), Midtown Rotary, NV Energy, UNR, and TMCC. Imbibe Brewery, Eclipse Pizza, and Nature Valley Bars 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 on-going monitoring.

14.

Grant Match

Match amount to be provided:	\$10,760				
<p>Match details: We have secured a grant from the Charles H Stout Foundation to support and enhance the Mt. Rose Wilderness noxious weed program. We will also contribute \$5,760 in-kind from on-the-ground volunteer labor.</p>	<p>Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.</p> <p>Match is:</p> <table border="1" data-bbox="613 810 1373 1003"> <tr> <td>Cash</td> <td>\$5,000</td> </tr> <tr> <td>In-kind</td> <td>\$5,760</td> </tr> </table> <p>Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.</p> <p>For the cash portion of your match, is the funding already being held by the applicant for this project? Yes <u>X</u> No <u> </u></p>	Cash	\$5,000	In-kind	\$5,760
Cash	\$5,000				
In-kind	\$5,760				
Description of matching funds/in-kind donations:	<p>Cash match from the Charles H Stout Foundation will be used to support and enhance the Mt. Rose Wilderness noxious weed program. This includes planning and volunteer recruitment, staff time, transportation costs, tools, and other volunteer supplies.</p> <p>The in-kind match will be met with volunteer labor donations during on-the-ground weed removal and re-seeding projects.</p>				



FRIENDS of NEVADA WILDERNESS

BUDGET

Budget Item Description	Truckee River Fund	Match Source	Match Amount	Total
Payroll Expenses	\$18,000	Charles H Stout Foundation	\$4,045	\$22,045
Volunteer Labor (288 hrs at \$20/hr)		In-Kind Volunteer Labor	\$5,760	\$5,760
Project Supplies	\$4,500			\$4,500
Training Expenses	\$450	Charles H Stout Foundation	\$500	\$950
Vehicle Travel (170 miles at \$0.585/mile)	\$100			\$100
Volunteer Food	\$200			\$200
Subtotal	\$23,250		\$10,305	\$33,555
Overhead (at 10%)	\$2,325		\$455	\$2,780
		<i>Cash Match Total</i>	<i>\$5,000</i>	
TOTAL	\$25,575	TOTAL	\$10,760	\$36,335

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: 6 volunteer weed removal projects with 6 volunteers each for 6 hours at \$20 in-kind/hr; 3 volunteer re-seeding projects with 4 volunteers each for 6 hours at \$20 in-kind/hr. Total 288 volunteer hours.

Project Supplies: Used to purchase native seed mix from Comstock Seed and help cover costs of routine gear replacement for first aid kits, tool/supply updates and maintenance, etc.

Training Expenses: This will cover relevant classes and conferences, possibly the Weed Warrior class hosted by the University of Nevada, Reno Cooperative Extension, and 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.

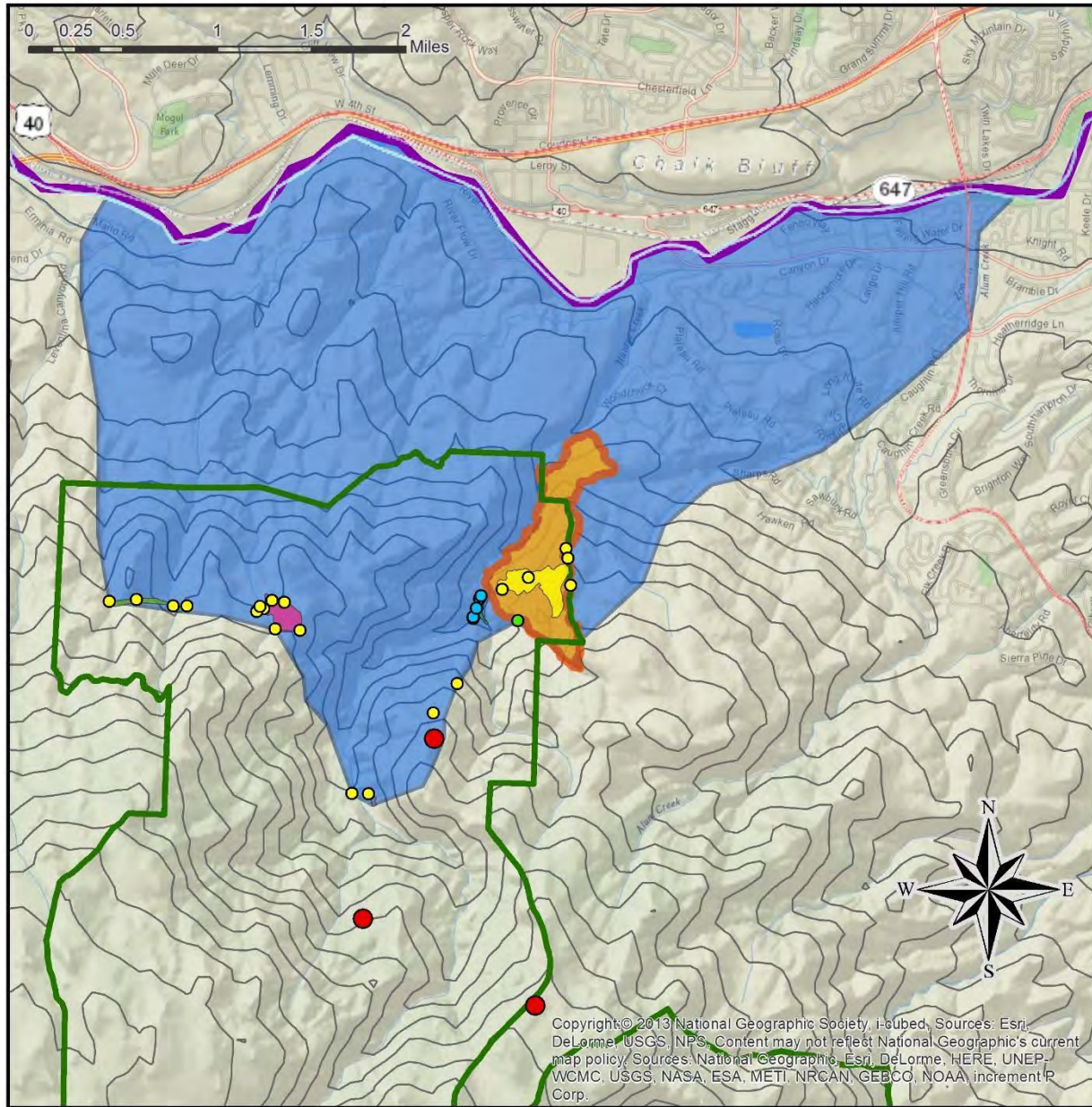
Vehicle Travel: This portion accounts for the use of a company vehicle as well as mileage reimbursement for distances driven with personal vehicles.

Volunteer Food: Accounts for volunteer food such as trail snacks and our end of season volunteer appreciation event.



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: January 31, 2022

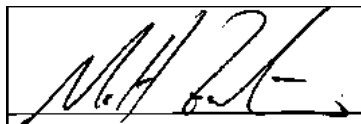
Truckee River Fund
Community Foundation of Western Nevada
50 Washington St Suite #300
Reno, NV 89503

To whom it may concern,

On Behalf of the Carson Ranger District, Humboldt-Toiyabe National Forest, I am expressing my 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 reduction in musk thistle, and they have recently expanded restoration efforts to include broadcast seeding post treatment using pollinator-friendly native species. Their work is of direct benefit to the habitat and ecosystem of the Truckee River Watershed. I highly value our partnership which goes beyond invasive weed treatment and monitoring to include education projects, solitude monitoring, impact monitoring, trail maintenance, and many other projects. FNW has a track record of effectively executing a multitude of grants from a variety of sources. I am confident that FNW will do the same with this funding.

Please accept this letter in support of the proposed projects, and we thank you for your generous consideration and support of these important restoration efforts. If you have additional questions, please contact Brian Hansen, Recreation Officer, at brian.c.hansen@usda.gov or 775-224-9960.

Sincerely,



MATTHEW D. ZUMSTEIN
District Ranger





Cover Sheet

Date: 2/04/2022

Organization Name:		Truckee Donner Land Trust		
Type:		501(c)(3) EIN# 68-0245327	Governmental entity? No	
Address:		11073 Donner Pass Road, Truckee, CA 96161		
Project Name:		Caltrout Truckee River Access Improvement and Bank Stabilization		
Amount requested: \$31,500		Website: www.truckeedonnerlandtrust.org		
This funding will be used to (complete this sentence with a max of 2 sentences):		The funding will be used to construct a sustainable river access poin with a series of log/boulder terraces leading to the Truckee River. The terraces will also stabilize and revegetate an eroding bank and provide an opportunity to connect the public with the river.		
Key People:	Director:	John Svahn		
	Board Chair:	Aparna Reddy		
	Project Contact:	Name:	Dan Joannes	
		Position:	Forest and Restoration Coordinator	
		Phone:	414-731-4177	
		Fax:	530-582-5528	
Email:		Daniel@tdlandtrust.org		
Organization Mission:	To preserve and protect scenic, historic and recreational lands with high natural resource values in the Truckee Donner region and manage recreation activities on these lands in a sustainable manner.			
Has your organization received other grants from the Truckee River Fund? Yes	If yes,			
	Date awarded:	3/30/2018		
	Project title:	Cold Stream Meadow Road Decommissioning and Restoration Project		
	Amount of Award:	\$65,000		
	Date awarded:	9/23/2016		
	Project title:	Webber Lake Little Truckee River Headwaters Management		
	Amount of Award:	\$75,000		
	Date awarded:			
	Project title:			
Amount of Award:				

DESCRIPTION OF PROJECT UNDER CONSIDERATION

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

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



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

The specific goals of this project are twofold:

Goal 1: Stabilize an eroding riverbank on Truckee River (303d listed for fine sediment) at the Truckee River Canyon conservation easement with naturalized terraces, currently managed by Truckee Donner Land Trust. This will improve riparian quality and create a sustainable access point on this heavily impacted section of the Truckee River.

Goal 2: The second goal is to improve ease of public access to the Truckee River at this site for recreational users (boat pull-out access, anglers, and general river access).

With improved access routes there will be less random entry and bank erosion, and the engineered terraces and boat entry point design itself will help stabilize the bank. Overall, this project supports the TRF's Grant Priority II. Watershed Improvements.

The Truckee Donner Land Trust will measure our outcomes in achieving these two goals in multiple ways:

- Restore 85 feet of eroded streambank. This will Reduce sedimentation from the currently eroding streambank.
- Obtain permits for the project through the California Department of Fish and Wildlife (CDFW) Habitat Restoration and Enhancement Act (HREA: §1652 or §1653) program.
- Obtain and place between 60 and 80 boulders, which will be used to build the terraces up to the boat entry/exit point and also create an eddy that will slow water down at this point for easier access (see Fig. 1).
- Obtain and place between 20-30 logs, which will also be used for stair construction and boat access (see Fig. 1).
- Obtain and place between 50-100 willow stakes and/or other native plants from the area which will help strengthen the streambank. Over time, their growth will deter public meandering from the designated stairs. Willows will also further reduce erosion and create habitat for fish, birds, and other species.
- Remove trash and debris from existing site over two (2) volunteer days, each day composed of a 2.5-hour volunteer shift utilizing 10-15 volunteers.
- The project team will qualitatively report on our progress using before and after photos of the site clean-up construction, volunteer days, and eventual recreational use.

2. Project location.

The project is located on the left (north) bank of the Truckee River near a large pullout on eastbound Interstate 80, roughly 1.4 miles east of the Farad exit in Nevada County, California.

3. Project description.

The project proposes to stabilize a steep eroding bank along the Truckee River with a series of small terraces comprised of logs and boulders, backfilled with native material generated from on-site. The site is easily accessed from a pullout along eastbound I-80 and the banks have been impacted by heavy recreation use. The terraces will not only stabilize a source of sediment to the Truckee River, but will also provide an access point for a variety of user groups (anglers, raft put-in/put-out, general recreation). Terraces will be comprised of logs and boulders to form a series of long steps down to the river. The side slopes will be graded between 2:1 and 3:1 and revegetated with willow pole plantings. The goals of this project are consistent with goals and

objectives of previously-completed studies including: The Truckee River Flood Management project (Truckee River Flood Management Authority), Nevada County’s Recreation Master Plan, and although located downstream of the Placer County reach of the Truckee, the Truckee River Corridor Access Plan.

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

The proposed project advances TRF’s Grant Priority II. Watershed Improvements. Specifically, this project is going to reduce erosion on a popular bank of the Truckee River and stabilize a source of fine sediment of the 303d listed River. The terraces successfully constructed with this funding will concentrate users on a durable surface and improve convenience of entry and exit to the River. This will stop entry from multiple sites and reduce erosion associated with its current use. This erosion, which is currently leading to sedimentation, would otherwise affect water quality and habitat quality for fish and other species.

- 5. **Permitting.** Provide a permitting schedule for your project along with your plan for getting the required permits. Be sure to include the cost of permitting as a line item in your budget. Permits for the project will be obtained through the California Department of Fish and Wildlife (CDFW) Habitat Restoration and Enhancement Act (HREA; §1652 or §1653) program. The HREA streamlines the permitting process for small restoration projects that qualify for a categorical exemption under the California Environmental Quality Act (CEQA) and meet the criteria for a §401 Water Quality Certification for Small Habitat Restoration Project.

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

The land is held in Conservation Easement by Truckee Donner Land Trust, therefore land use, development, or zoning is not expected in the foreseeable future.

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

No future phases of this project are planned at this moment. However, we hope this project can be a model for stabilizing future access points on the Truckee River, reducing erosion, improving water quality, or other projects of a similar scope.

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

Peter Kulchawik will be the project lead/Principal. Peter is a civil engineer in Balance Hydrologic’s Truckee office. He works on fixing damaged rivers with cutting-edge engineering materials (dead trees, boulders, and the occasional beaver dam analog). Peter enhanced his engineering education with training in geomorphology, hydrology, and stream ecology. This interdisciplinary background has given him a diverse knowledge base to work on a variety of stream, wetland, and meadow restoration projects.

LinkedIn profile for Peter Kulchawik:
<https://www.linkedin.com/in/peter-kulchawik-p-e-1b347894/>

- 9. Number of **staff positions involved** in project: **Fulltime: 0** **Part-time: 3**

- Michael Wier (Caltrout): Part time, project management
- Peter Kulchawik (Balance Hydrologics): Part time, design and permitting
- Daniel Joannes (Truckee Donner Land Trust): Part time, conservation easement manager

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

A volunteer day before and after the project is planned and will be led by CalTrout. The first volunteer day will be a site trash clean-up lasting 2.5 hours. The second is for a 2.5-hour site clean-up following completion of the construction. Approx. 10-15 volunteers will be utilized for each event, which would result in between 25 and 37.5 volunteer hours for each day of volunteering. Therefore, we anticipate a total of between 50 to 75 volunteer hours completed and up to 30 volunteers participating.

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.

- **Planning:** This stage was completed in early February 2022, therefore we are moving forward with the permitting process.
- **Permitting:** This is underway as of February, and could take time to complete through June 2022.
- **Construction:** We plan to begin our first volunteer day, followed by construction, in Summer 2022, or approx. June/July 2022.
- **Project Completion:** This is dependent on the date that approved grant funds are received. With funds in hand, the current plan is to complete this project by October 2022 (end of season).

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

We will know when we have succeeded in this project when the access terraces, made from logs and boulders, are completely installed, cleaned up, and ready for use by the end of the summer season, i.e., following the second/final volunteer clean-up day. Further, we will immediately begin to see improvements in water quality, reduced erosion and creating sustainable recreational use along the Truckee River.

13. **Collaboration.** List partnership and collaborations with other entities in relation to your proposal, if any.

TDLT is partnering with Caltrout and Balance Hydrologics to complete this project. TDLT has also been in communication with the landowner Bill Black on the project and its details.

14. **Grant Match**

Match amount to be provided:		\$58,000
Match details:	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections. Match is:	
	Cash	\$58,000
	In-kind	\$1,500 Note: This is the maximum in-kind match with up to 75 volunteer hours. Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. Indirect cost may not be counted as match.
For the cash portion of your match, is the funding already being held by the applicant for this project? Yes <input checked="" type="checkbox"/> No		

Description of matching funds/in-kind donations:

Caltrout has \$58,000 procured and allocated for this project with \$13,950 already invested for the project design/engineering and contractor selection.

Fig. 1 Project Plan

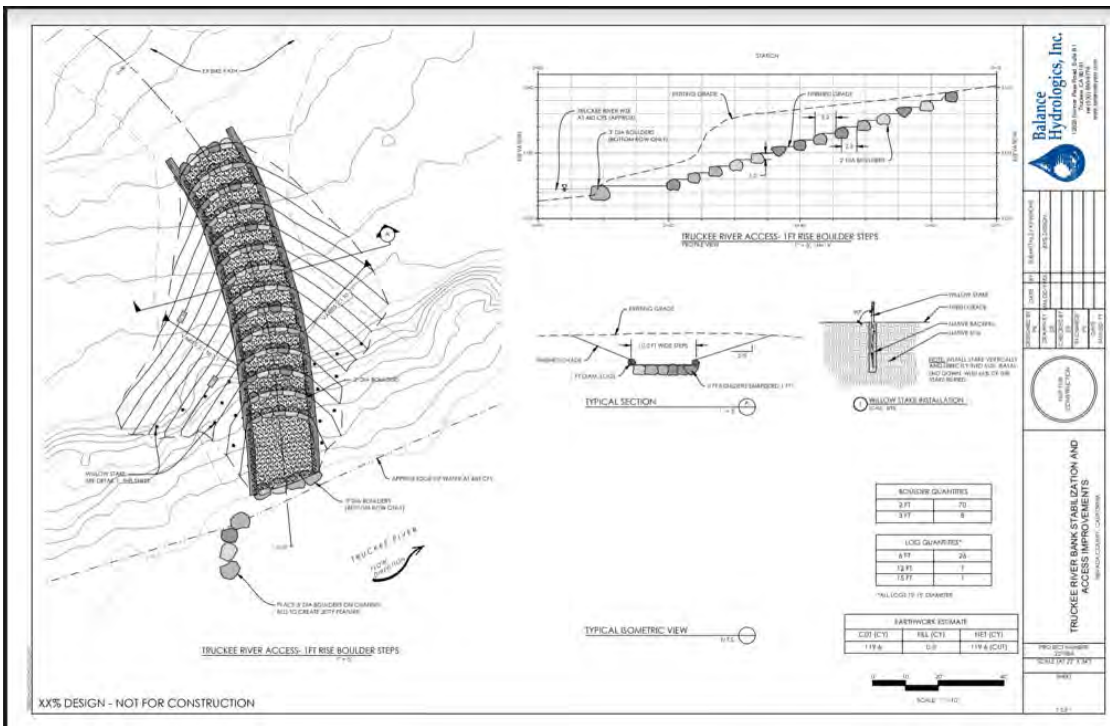
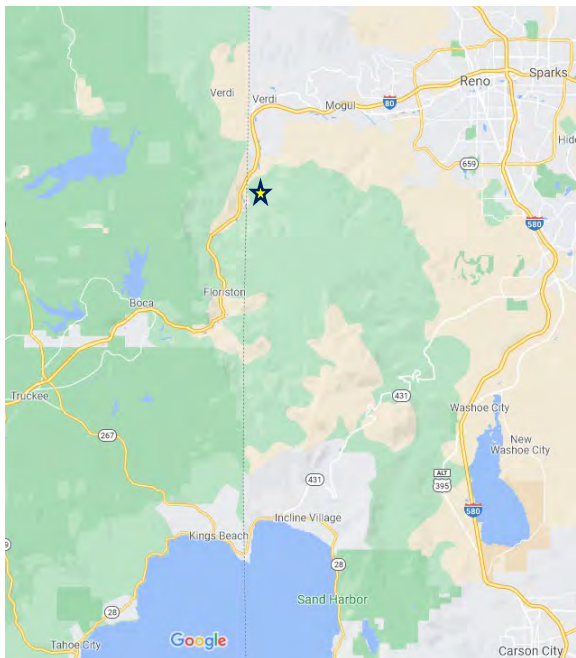


Fig. 2 Project Location





15. Project Budget:

Budget Item	TRF	Caltrout (Match)	TDLT (Match)	TOTAL
Project design and engineering	\$0	\$5,140	\$0	\$5,140
Permitting	\$3,500	\$5,172	\$0	\$8,672
Construction	\$23,000	\$47,424	\$3,720	\$74,144
Overhead	\$5,000	\$264	\$1,000	\$6,264
TOTAL	\$31,500	\$58,000	\$4,720	\$94,220
% TOTAL	33%	62%	5%	100%

TRUCKEE MEADOWS WATER AUTHORITY
(TMWA)

RESOLUTION NO. 301

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

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

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

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

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

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

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

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

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

Truckee Meadows Water Authority
Resolution No. 301 (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 March 16, 2022 by the following vote of the Board:

Ayes: _____

Nays: _____

Abstain: _____ Absent: _____

Approved March 16, 2022

Vaughn Hartung, Chairman

EXHIBIT A

PROJECTS RECOMMENDED FOR FUNDING

Project #	Grantee	Description	Proposal Amount	Amount Recommended	Monetary Match	In-Kind Match	Match Total
258	Sierra Nevada Journeys	Watershed Education Initiative (WEI) for the Urban Truckee River Corridor	\$30,055.00	\$30,055.00	\$7,513.00	\$ -	\$7,513.00
259	Truckee River Watershed Council	Donner Creek Confluence & Boca Unit Restoration	\$55,700.00	\$55,700.00	\$13,925.00	\$ -	\$13,925.00
261	Friends of Nevada Wilderness	Mount Rose Noxious Weed Monitoring, Treatment & Re-Seeding #10	\$25,575.00	\$23,250.00	\$5,000.00	\$5,760.00	\$10,760.00
262	Truckee Donner Land Trust	Caltrout Truckee River Access Improvement and Bank Stabilization	\$31,500.00	\$26,500.00	\$5,800.00	\$1,500.00	\$59,500.00
Amount Totals:			\$239,510.50	\$135,505.00			\$91,698.00

Truckee Meadows Water Authority
Resolution No. 301 (continued)

Project #258: Watershed Education Initiative for the Urban Truckee River Corridor

Organization: Sierra Nevada Journeys (SNJ)

Project Description:

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

During the past 12 years, Sierra Nevada Journeys' (SNJ) Watershed Education Initiative (WEI) has impacted approximately 13,366 students and 625 educators. This has been made possible thanks to the generous support of the Truckee River Fund. WEI educates students about the local watershed, including human impacts on the watershed, water quality, and watershed protection. While in-class and field-based lessons reach students and educators, WEI's additional outreach components serve to engage families and community volunteers.

A study from The Nature Conservancy reveals that students who have had a personal experience in nature are:

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

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

With this funding, SNJ will serve 750 students in 28 classrooms within 10 miles of the urban corridor of the Truckee River. Conducted over a four-week period, WEI includes two in-class lessons, one field-study experience, pre- and post-assessments, classroom extension lessons for teachers, and family and community engagement. Curriculum developed and delivered by SNJ's team of credentialed teachers aligns to state and national standards and the North American Association for Environmental Education's Guidelines for Excellence.

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.

Truckee Meadows Water Authority
Resolution No. 301 (continued)

- 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 #259: Donner Creek Confluence and Boca Restoration

Organization: Truckee River Watershed Council (TWRC)

Project Description:

The projects share a common goal of reducing erosion and excess sedimentation to the Truckee River and improving water quality. The Truckee River has long been a focal point of development in the region, and historical urban-land uses were concentrated along the river. As a result, much of the historic floodplain and sections of channel were heavily altered or filled. Additionally, both sites experience heavy recreational use, including unauthorized vehicle access, which leads to soil erosion, reduced riparian regeneration, compacted soils, and unmitigated stormwater pollution to the Truckee River. Both projects will establish a balance of environmental restoration and sustainable public access.

TMWA Benefit:

The project addresses:

- **Watershed Improvements:** The projects will decrease sedimentation and support attainment of the TMDL for the Truckee River. They also improve watershed function and habitat by increasing floodplain connectivity and enhancing riparian vegetation.
- **Local Stormwater Improvements:** The projects will mitigate stormwater coming from Highway 80 (Boca Unit) and West River Street (Donner Confluence) by targeting on-site infiltration.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** The Donner Confluence project will restore habitat on a key tributary of the Truckee River and reduce sediment transfer to Donner Creek, as well as to the mainstem of the Truckee River.
- **Meet Multiple Objectives:** The projects meet the objectives listed above, and benefit meadow, riparian, and in-stream habitat, native fish and wildlife species, and carbon sequestration.
- **Leverage Stakeholder Assets and Participation:** The projects leverage significant stakeholder participation and cost share from the Town of Truckee and CDFW.

Project #261: Mount Rose Noxious Weed Monitoring, Treatment, and Re-Seeding #10

Organization: Friends of Nevada Wilderness

Project Description:

Staff will monitor known weed sites during April tracking spread of plants and efficacy of the previous year's treatment and reseeding. During May and June, staff will lead volunteers to noxious weeds sites and remove them with shovels and by hand. If plants have produced flowers, we will clip the seed heads and pack them out to be safely disposed of. In the fall, staff will lead volunteers to previously identified

Truckee Meadows Water Authority
Resolution No. 301 (continued)

sites to disperse native seeds by hand. Some snacks, additional water, training, education, and all necessary tools and personal protective equipment will be provided by FNW.

TMWA Benefit:

Our 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), and priority #7 (Meet Multiple Objectives). Noxious weeds, specifically Musk Thistle, pose a significant threat to the health of the Truckee River Watershed. Through volunteer removal projects, we will improve the health of the Truckee River Watershed by removing noxious weeds and replacing them with seeds of native plants. Reducing the number of weeds in the Hunter Creek area (a main tributary to the Truckee River) will improve the water quality, reduce soil erosion, and slow the spread further downstream, as well as enhance the recreation qualities of the Hunter Creek Trail - the most popular trail within the Reno/Sparks urban interface. Our long-standing treatment program actively engages and educates the public on the importance of noxious weed management. After just one project, volunteers have a basic understanding of the negative effects of noxious weeds and the importance of controlling them as related to the habitat and greater watershed. By educating the public on these issues, we can inspire more stewardship and awareness of the entire watershed and our water supply.

Project #262: Caltrout Truckee River Access Improvement and Bank Stabilization

Organization: Truckee Donner Land Trust

Project Description:

The project proposes to stabilize a steep eroding bank along the Truckee River with a series of small terraces comprised of logs and boulders, backfilled with native material generated from on-site. The site is easily accessed from a pullout along eastbound I-80 and the banks have been impacted by heavy recreation use. The terraces will not only stabilize a source of sediment to the Truckee River, but will also provide an access point for a variety of user groups (anglers, raft put-in/put-out, general recreation). Terraces will be comprised of logs and boulders to form a series of long steps down to the river. The side slopes will be graded between 2:1 and 3:1 and revegetated with willow pole plantings. The goals of this project are consistent with goals and objectives of previously-completed studies including: The Truckee River Flood Management project (Truckee River Flood Management Authority), Nevada County's Recreation Master Plan, and although located downstream of the Placer County reach of the Truckee, the Truckee River Corridor Access Plan.

TMWA Benefit:

The proposed project advances TRF's Grant Priority II. Watershed Improvements. Specifically, this project is going to reduce erosion on a popular bank of the Truckee River and stabilize a source of fine sediment of the 303d listed River. The terraces successfully constructed with this funding will concentrate users on a durable surface and improve convenience of entry and exit to the River. This will stop entry from multiple sites and reduce erosion associated with its current use. This erosion, which is currently leading to sedimentation, would otherwise affect water quality and habitat quality for fish and other species.



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Stefanie Morris, Water Resources Manager
DATE: March 7, 2022
SUBJECT: **Discussion and possible action to enter into a funding agreement with the National Forest Foundation for the Lady Bug Project fuels reduction project above Stampede Reservoir**

BACKGROUND

Protecting the upper watershed for TMWA's water supply is critical. With the changes in climate and fire behavior, fuels reduction in the upper watershed is necessary to protect the community's water supply. Importantly, targeted fuels reduction around the Truckee River, local creeks, and upstream reservoirs will help mitigate the risk of serious water quality issues from sediment loading and loss of reservoir capacity. TMWA staff have been exploring opportunities for collaboration, funding, and partnerships. Staff have identified the Lady Bug Fuels Reduction project above Stampede Reservoir as a priority project to protect TMWA's water resources. Staff is requesting a total of \$500,000 (approximately 13 percent of project costs) over the next two fiscal years to fund this pilot project.

DISCUSSION

The Lady Bug Project is located on the ridge directly above and sloping down to Stampede Reservoir. The Project would complement other fuels reduction work completed in the area. The Project is located on federal land and is estimated to cost approximately \$3,800,000. Several funds have already been committed for this project but there is currently a \$650,000 funding gap.

The Lady Bug Project would treat 2,500 acres around Stampede Reservoir. This treatment would occur on the slope and along the ridge where runoff drains directly into the reservoir. The United States Forest Services (USFS) and other federal partners have completed the necessary environmental review and the project is ready for implementation. The project will be implemented by the National Forest Foundation (NFF) through their existing agreement with the USFS and is set to be completed in 2025. The following table shows the existing secured funding by party, including TMWA's proposed contribution. If approved, TMWA would contribute \$250,000 in fiscal year 2022-2023 and an additional \$250,000 in fiscal year 2023-2024 through a funding agreement with NFF.

Funding Source	Amount	Project Percent
USDA Forest Service	\$1,400,000	37%
California Wildlife Conservation Board	\$650,000	17%
The Nature Conservancy	\$1,100,000	29%
Private Donations	\$35,000	1%
Unfunded (excluding indirect and project management expenses)	\$650,000	17%
Total	\$3,835,000	
Proposed TMWA Contribution (over 2 years)	\$500,000 ¹	13%

TMWA's contribution to this project will provide local flexible funding. Unlike state and federal funding, TMWA's funds do not have restrictions. This allows for NFF to manage the project and implement more efficiently. For example, some funding sources do not allow road work. Road work can often be necessary for the project to begin. This kind of restriction could hold up implementation. However, with flexible local funds, the Parties can leverage state and federal funding and efficiently implement the project.

RECOMMENDATION:

Staff recommends funding the Lady Bug Pilot Project. With TMWA's funding the project can move forward while funding for the remaining \$150,000 is pursued. This project protects Stampede Reservoir capacity and water quality and the community's drought supply. As staff continues to work with the USFS, NFF, The Nature Conservancy, and the Truckee River Watershed Council on larger planning efforts in our watershed, this project will have immediate benefit and provide a platform for future planning, gap analysis, and priority projects.

¹ These dollars are included in TMWA's proposed budget.

TAHOE NATIONAL FOREST LADYBUG PROJECT

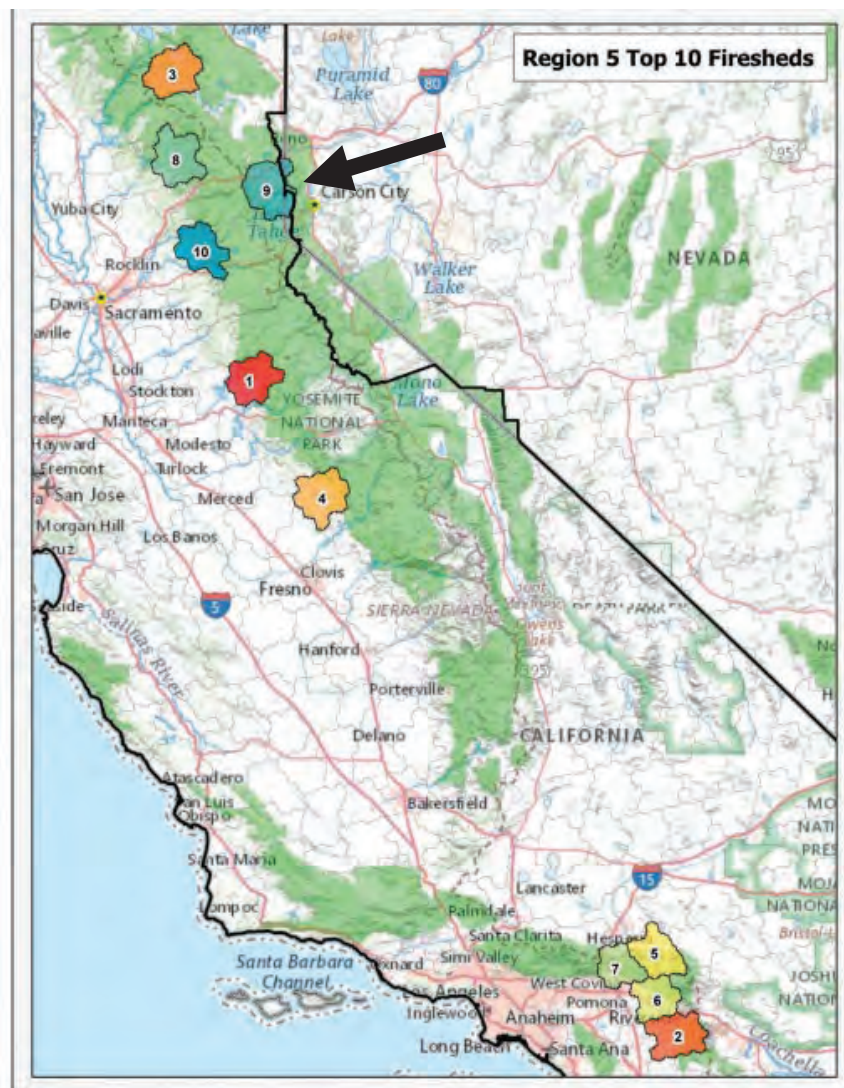
March 2022



PILOT PROJECT FOR COLLABORATIVE PARTNERSHIP: LADYBUG PROJECT

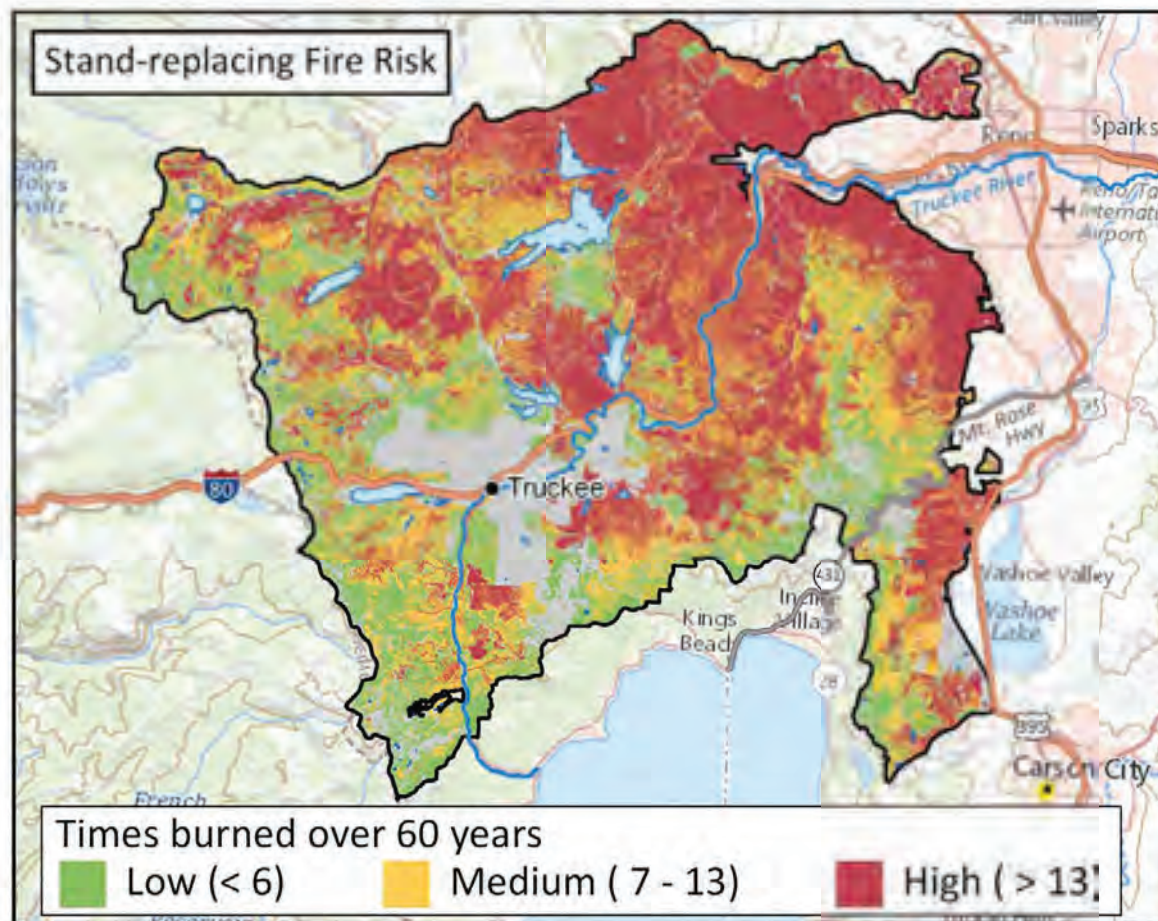
- Future partnership development:
 - USFS – Tahoe National Forest
 - National Forest Foundation
 - The Nature Conservancy – Nevada Chapter
 - Truckee Meadows Water Authority
 - Truckee River Watershed Council
 - Other future partners to be identified

USFS FIRESHED REGISTRY (MAY 2021)

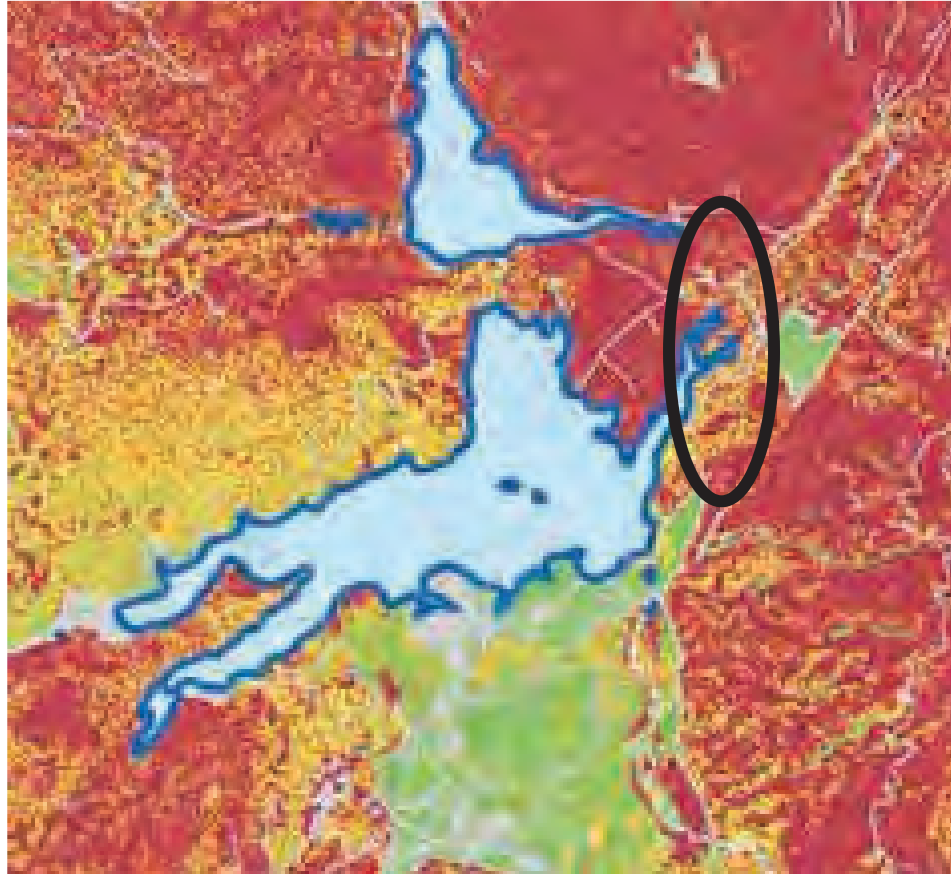


- Part of the Truckee River Watershed was identified as one of the top 10 priority firesheds for the US Forest Service Region 5
- Identified for a multiyear national investment strategy to reduce risk

TNC LCF MODELING: STAND-REPLACING FIRE RISK (FIRE PROBABILITY)



TNC LCF MODELING: STAND-REPLACING FIRE RISK APPROXIMATE LADYBUG PROJECT AREA



POTENTIAL WATER QUALITY IMPACTS

- Study of 2002 Hayman Fire in Colorado:
 - Wildfire impacts on source water quality could last over a decade, especially for dissolved organic carbon
 - Formation of nitrogenous disinfection byproducts (DBPs) precursors increased linearly with wildfire extent
 - DBP formation was highest in streams draining moderately burned catchments



Example of unburned (left) and postfire (right) stream beds (Southern Rockies)

Source: dx.doi.org/10.1021/es500130g | Environ. Sci. Technol. 2014, 48, 8936–8943

RESERVOIR CAPACITY IMPACTS



Large amounts of sediment end up in drainages around Cheesman Reservoir due to the Hayman Fire of 2002.

Photo credit: Denver Water

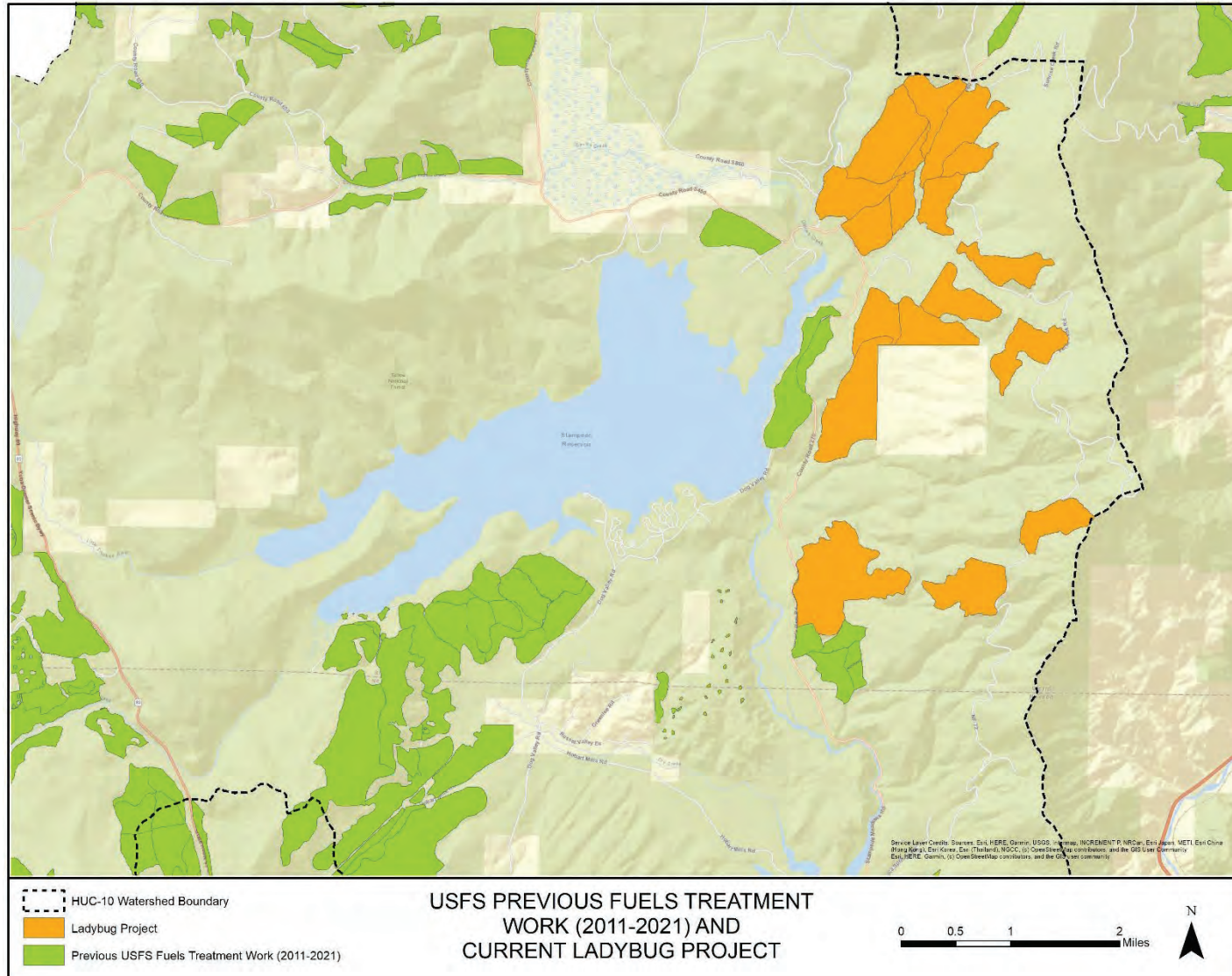
LOCAL IMPACTS FROM THE MARTIS FIRE

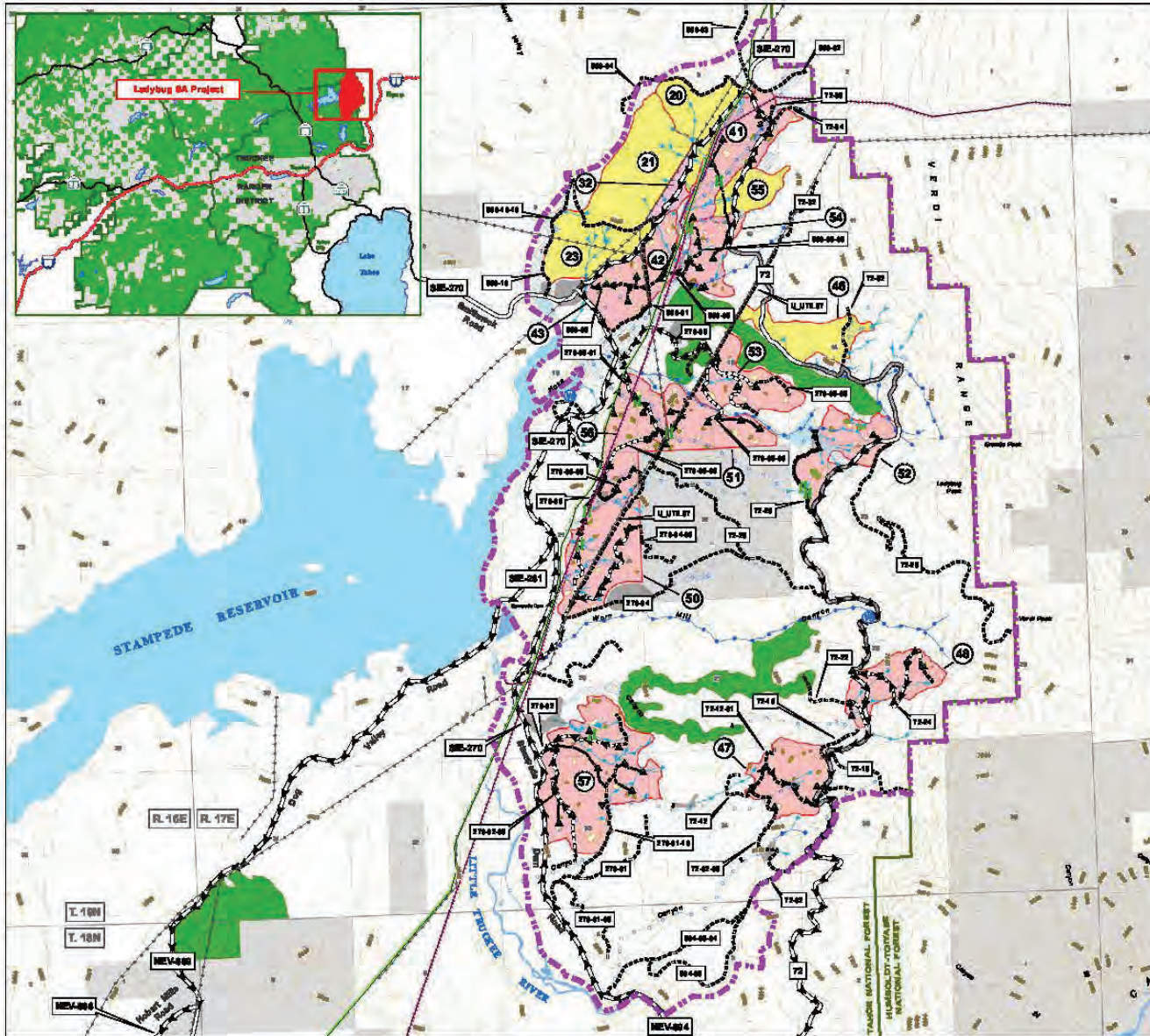
<https://youtu.be/QqtHOIH2yFs>

Lady Bug Project

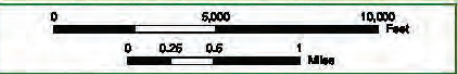
- Protects Stampede Reservoir
- Complements prior work
- Multiple partners
- TMWA contribution provides flexible local share to efficiently complete project

USFS EXISTING FUELS TREATMENT WORK (2011-2021) NEAR STAMPEDE RESERVOIR





**USDA - FOREST SERVICE
TAHOE NATIONAL FOREST
TRUCKEE RANGER DISTRICT
LADYBUG STEWARDSHIP AGREEMENT
Agreement Area and Road Maintenance Map**



Map Legend

- Agreement Area Boundary
- Subdivision Boundary (Mechanical Timber Removal)
- Subdivision Boundary (Mastication)
- Subdivision Boundary (Hand Thin)
- Leave Area
- Crown Opening
- Northern Goshawk PAC
- Subdivision Link Label
- Road Number Label (Keep All Roads Open)
- Existing Transportation Road System
- Haul Direction
- Road Reconstruction
- Temporary Road
- Preferred Landing
- Non-Preferred Landing
- Potential Water Source (Location Approximate)
- Protection of Land Survey Monuments
- Temporary Crossing, Temp Road
- Overhead Transmission Line
- Underground Petroleum Pipeline
- Underground Fiber Optic Line
- Exclusion Area, Other
- Invasive Plant Exclusion Area
- Hydrologic Feature to Protect: Controlled Access Area
- Hydrologic Feature to Protect: Tractor Keep Out, Engine
- Parental Class I Streamcourse to Protect (70 Equipment Exclusion) (Clear cuts opening)
- Intermediate Class II Streamcourse to Protect (50 Equipment Exclusion) (Clear cuts opening)
- Ephemeral Class III Streamcourse to Protect (20 Equipment Exclusion) (Clear cuts opening)
- Other Ownership

1:10,000
 All Feet
 Contour
 Interval

Subdivision	Acres	Treatment
20	111	Mastication
21	216	Mastication
22	32	Hand Thin
23	138	Mastication
41	169	Mechanical Removal
42	60	Mechanical Removal
43	57	Mechanical Removal
46	105	Mastication
47	162	Mechanical Removal
48	113	Mechanical Removal
50	253	Mechanical Removal
51	124	Mechanical Removal
52	129	Mechanical Removal
53	123	Mechanical Removal
54	92	Mechanical Removal
55	65	Mastication
56	102	Mechanical Removal
57	379	Mechanical Removal

USDA

Data Source: Tahoe National Forest Management Plan, 2012. Prepared by: TRM, 2/2022. Contact: TRM@tahoeforest.com or TRM@trmwa.com. Last time any equipment was used for this map was 2022. Forest Service, TRM, and TRMWA logos.

FUELS TREATMENT EXAMPLES



Forest thinning completed in Dog Valley

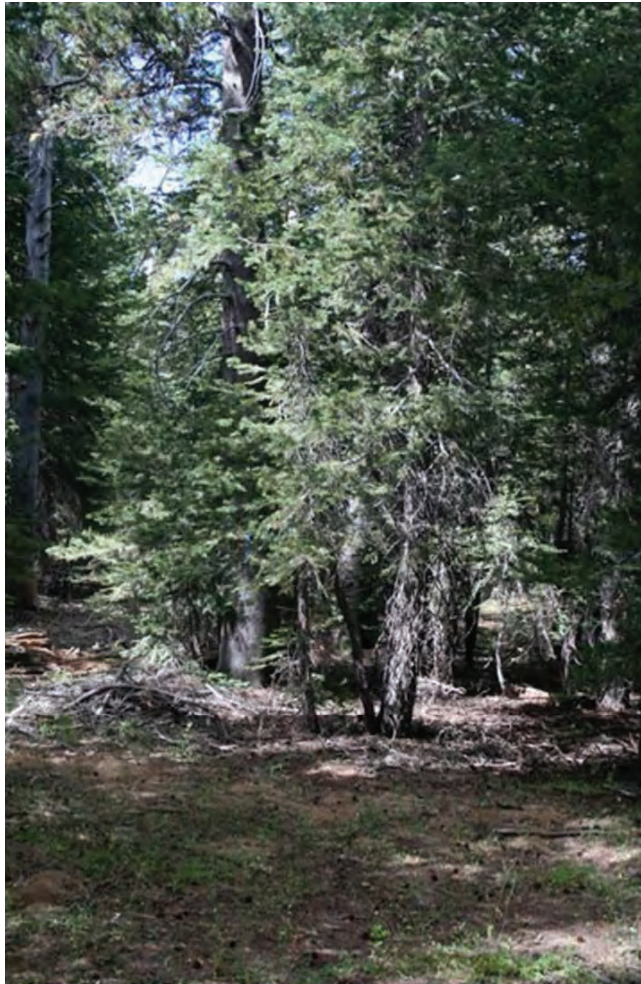
Photo Credit: Mickey Hazelwood, The Nature Conservancy



Forest thinning completed in Dog Valley, no thinning on right side of road

Photo Credit: Mickey Hazelwood, The Nature Conservancy

FUELS TREATMENT EXAMPLES



Forest near Independence Lake before thinning

Photo Credit: Mickey Hazelwood, The Nature Conservancy



Forest near Independence Lake after thinning

BUDGET AND FUNDING SOURCES

Funding Source	Amount	Percent
USDA Forest Service	\$1,400,000	37%
California Wildlife Conservation Board	\$650,000	17%
The Nature Conservancy	\$1,100,000	29%
Private Donations	\$35,000	1%
Unfunded (excluding indirect and project mgmt. expenses)	\$650,000	17%
Total	\$3,835,000	
Proposed TMWA Contribution (over 2 years)	\$500,000	13%

TMWA Funding

- Closes funding gap
- Flexible local cost share to help efficiently implement project
- Funding Agreement with National Forest Foundation
- Protects Stampede Reservoir storage capacity and water supply for the community

Questions?



STAFF REPORT

TO: TMWA Board of Directors
THRU: Mark Foree, General Manager
FROM: Matt Bowman, Chief Financial Officer
 Danny Rotter, Engineering Manager
DATE: March 9, 2022
SUBJECT: Discussion and possible action on the TMWA Tentative Budget for the Fiscal Year ending June 30, 2023 and Draft Capital Improvement Plan for Fiscal Years 2023 through 2027

Recommendation

Staff recommends the TMWA Board and SAC review the tentative budget report for the fiscal year ending June 30, 2023 and preliminary Five-Year Capital Improvement Plan 2023-2027 (CIP). This allows the Board and SAC to provide input and direction to TMWA management in advance of the public hearing on the budget and CIP at the May 2022 Board meeting. The tentative budget will be filed with the Nevada Department of Taxation by April 15, 2022 in compliance with statutory requirements.

Schedule of Revenues, Expenses and Changes in Net Position- See Attachment A

Operating Revenues

Water demands have been projected based on historical average water usage per service type and by service size. This methodology projects water sales revenue at \$113.1 million for FY 2023. This is an increase from the FY 2022 budget of \$4.6 million or 4%. The FY 2023 water sales includes two 2.5% rate increases in May 2022 and May 2023. The increase scheduled for May 2022 was presented to the Board along with the five-year funding plan at the October 2021 Board meeting. The FY 2023 budget anticipates an increase in service connections of approximately 1.5%.

Hydroelectric revenues are expected to be \$3.2 million in FY 2023. This is an increase from the FY 2022 budget of approximately \$1.3 million or 73%. Based on the current snowpack we expect normal river flows during the year, allowing for continuous hydroelectric power generation.

Other operating revenues are estimated at \$3.9 million. This line item primarily consists of late payment fees, turn-on and turn-off fees, construction water sales, cell phone tower lease revenues, and inspection services on new business projects. Depending on the pace of residential/commercial construction there could higher or lower construction water and inspection fees than projected.

The FY 2023 budget is approximately \$1.6 million higher than FY 2022 due to expected increases in new business inspection services, construction water and late fees. Each of these categories were higher in FY 2022 through two quarters than budgeted.

Operating Expenses

Total operating expenses are expected to increase by \$5.9 million or 6% from the FY 2023 budget. This change consists of an increase of \$5.5 million in operating expenses before depreciation, and a \$0.4 million increase in depreciation. Comprising the change from the FY 2022 budget in operating expenses before depreciation, salaries and wages are up \$2.8 million (11%), employee benefits are up \$1.2 million (10%), and services and supplies are up \$1.5 million (5%).

Salaries and wages expense is expected to increase from budget by 11% in FY 2023 compared to FY 2022. Total headcount is increasing by ten from 244 in FY 2022 to 254 in FY 2023. The percentage increase is comprised of approximately 3.5% cost of living increase, 2.75% step increases and 4.75% for additions to headcount.

Below is a listing of headcount increases by position.

Position	Group	Additional Headcount
STAFF ACCOUNTANT	MPAT	1
GIS ANALYST	MPAT	1
IS TECHNICIAN	MPAT	1
SECURITY ANALYST	MPAT	1
HR ANALYST	MPAT	1
SECURITY TECHNICIAN	MPAT	1
SECURITY TECHNICIAN	MPAT	1
SECURITY TECHNICIAN	MPAT	1
SR. DESIGN ENGINEER	MPAT	1
NEW BUSINESS SR. ENGINEER	MPAT	1
		10

Employee benefits are expected to increase by \$1.2 million or 10% from the FY 2022 budget. This increase is in line with the increase in salaries and wages as expected.

Services and supplies are increasing by approximately \$1.5 million or 5% from the FY 2022 budget due to several factors. A summary of costs by expense item is included at ***Attachment C***, where the most notable changes are discussed.

Nonoperating Revenues and Expenses

Investment income is expected to increase by \$0.5 million due to higher returns following the expected rise in interest rates.

Interest expense is expected to decrease by \$0.4 million in FY 2023 due primarily to principal reductions in debt. During FY 2022 TMWA will have reduced outstanding debt principal by \$15.4 million. As shown in ***Attachment B*** we expect to pay down \$16.5 million of DWSRF, other direct

borrowings and Senior Lien debt. TMWA's total debt outstanding as of June 30, 2023 is expected to be \$359.8 million.

Capital Contributions

Grant revenue of \$0.6 million consists of two FEMA projects TMWA expects to receive awards for in FY 2023. One is remaining from the 2017 flood and involves repairs to tank and site access roads and the other is related to COVID-19 costs incurred.

Cash related developer contributions are expected to increase from the FY 2022 budget by \$14.2 million or 70%. These projections are developed based on expected capacity increases in each area as part of TMWA's facility plan. Actuals can vary as development increases or decreases in the service territory. Compared to the last full year of actual contributions, FY 2021, the FY 2023 budget is an increase of 11%.

Contributions from other governments includes City of Reno's contributions towards the expected construction of the American Flat Advanced Purified Water (APW) facility. These contributions may vary depending on timing and progress of construction in FY 2023. The related capital assets are included in TMWA's 2023-2027 Capital Improvement Plan.

Cash Position and Coverage Ratios

TMWA expects to begin FY 2023 with approximately \$216.2 million in total cash and investments and end the fiscal year with \$194.8 million, for an estimated cash decrease of \$21.4 million. These projections can be found in ***Attachment B***.

To begin FY 2023, TMWA's Rate Stabilization Reserve will be \$10.4 million which is fully funded at 3% of three years' expected revenue.

TMWA's senior lien debt coverage ratio (DSC ratio), excluding system development charges, is estimated to be 1.68x by the end of FY 2022. This level of debt service coverage preserves the ability to access senior lien capital markets, if necessary, under favorable terms. TMWA's senior lien bond covenants require a minimum coverage ratio of 1.25x. TMWA's financial goals adopted in August 2003 established a debt coverage goal of approximately 1.50x (excluding developer fees) to maintain mid-level to higher level investment grade credit ratings and pay-as-you-go funding for water system rehabilitation construction projects. TMWA has maintained its credit ratings from Standard and Poor's of AA+, outlook Stable, Moody's Aa2, outlook Stable, and Fitch AA, outlook Positive.

Draft Capital Improvement Plan for Fiscal Years 2023-2027

TMWA plans to spend \$366.2 million over the next five years on a variety of construction projects and capital outlays of which \$92.5 million is expected to be spent in fiscal year 2023 and \$95.4 million in fiscal year 2024. Capital spending funded by customer rates has increased \$11.0 million since the prior funding plan and totals \$198 million over the five years.

Of the total \$92.5 million in capital spending in fiscal year 2023, Raw Water accounts for \$31.1 million (34%) with \$30.0 million for the American Flat APW facility. In accordance with an Interlocal Agreement with City of Reno (approved by the TMWA board in December 2021), it is

expected that the project will move forward in which City of Reno will be contributing 70% of the total project costs. The full cost of the project is included in TMWA's CIP as TMWA will ultimately own most of the assets. Treatment Plant Improvements account for \$16.9 million (18%) with \$12.7 million comprising the construction phase of the Orr Ditch Pump Station Rehab and Hydroelectric facility.

Pressure Improvements account for \$11.1 million (12%) with \$2.2 million and \$1.8 million comprising of Common (Stonegate) Booster Pump Station and Verdi 1 Booster Pump Station, respectively.

Water Main Distribution System Improvements are \$12.6 million (14%), comprising of several distribution system improvements, including 5th, 6th, 7th and G Street Main replacements totaling \$1.2 million to replace approximately 1,600 liner feet of water main; Oddie Wells Main Replacement totaling \$1.6 million to replace approximately 3,500 linear feet of water main; Wright Way, E St, 5th, 6th and 7th Main Replacements totaling \$1.8 million to replace approximately 5,800 linear feet of water main.

Customer Service Outlays account for \$2.8 million (3%) with \$2.3 million for the installation of Automated Meter Infrastructure.

Administrative Outlays account for \$1.5 million (2%) with \$750 thousand for new crew trucks and vehicles.

For fiscal years 2023-2025 capital spending increases significantly from the prior CIP, while capital spending for fiscal years 2026-2027 is reduced.

Fiscal years 2023-2025 increase in capital spend is largely due to \$30 million for the American Flat APW facility. The APW project will be funded as follows, City of Reno will reimburse 70% of the total cost of the project, sustainability fee funds collected by TMWA and developer funds. There is no impact to customer rates as a result of this project.

TRUCKEE MEADOWS WATER AUTHORITY
Comparative Statements of Revenues, Expenses and Changes in Net Position
Tentative Budget

	Tent. Budget FY 2023	Final Budget FY 2022	Variance \$	Variance %
OPERATING REVENUES				
Charges for Water Sales	\$ 113,142,185	\$ 108,503,854	\$ 4,638,331	4%
Hydroelectric Sales	3,177,557	1,837,239	1,340,318	73%
Other Operating Sales	3,861,065	2,219,679	1,641,386	74%
Total Operating Revenues	120,180,807	112,560,772	7,620,035	7%
OPERATING EXPENSES				
Salaries and Wages	29,479,887	26,634,314	2,845,573	11%
Employee Benefits	12,787,228	11,622,696	1,164,532	10%
Services and Supplies	33,719,064	32,188,000	1,531,064	5%
Total Operating Expenses Before Depreciation	75,986,179	70,445,010	5,541,169	8%
Depreciation	34,628,346	34,234,118	394,228	1%
Total Operating Expenses	110,614,525	104,679,128	5,935,397	6%
OPERATING INCOME	9,566,282	7,881,644	1,684,638	21%
NONOPERATING REVENUES (EXPENSES)				
Investment Earnings	3,064,024	2,583,886	480,138	19%
Loss on Disposal of Assets	(1,700,000)	(750,000)	(950,000)	127%
Debt Issuance Costs	-	(133,000)	133,000	-100%
Interest Expense	(11,499,699)	(11,880,610)	380,911	-3%
Total Nonoperating Revenues (Expenses)	(10,135,675)	(10,179,724)	44,049	0%
Gain (Loss) Before Capital Contributions	(569,393)	(2,298,080)	1,728,687	-75%
CAPITAL CONTRIBUTIONS				
Grants	585,635	1,350,000	(764,365)	-57%
Water Resource Sustainability Program	2,840,000	607,168	2,232,832	368%
Developer Infrastructure Contributions	21,903,168	18,177,481	3,725,687	20%
Developer Will-serve Contributions (Net of Refunds)	7,245,700	2,884,048	4,361,652	151%
Developer Capital Contributions - Other	11,044,199	9,360,299	1,683,900	18%
Developer Facility Charges (Net of Refunds)	13,186,258	7,301,331	5,884,927	81%
Contributions from Others	94,924	-	94,924	0%
Contributions from Other Governments	21,100,000	200,000	20,900,000	10450%
Net Capital Contributions	77,999,884	39,880,327	38,119,557	96%
CHANGE IN NET POSITION	77,430,491	37,582,247	39,848,244	106%
NET POSITION, BEGINNING PERIOD	848,515,140			
NET POSITION, END OF PERIOD	\$ 925,945,631			

TRUCKEE MEADOWS WATER AUTHORITY

Statements of Cash Flows

Tentative Budget

	Tent. Budget FY 2023	Final Budget FY 2022	Variance \$	Variance %
OPERATING ACTIVITIES				
Cash Received From Customers	\$ 120,180,807	\$ 112,560,772	\$ 7,620,035	7%
Cash Paid to Employees	(42,267,115)	(38,257,010)	(4,010,105)	10%
Cash Paid to Suppliers	(33,719,064)	(32,188,000)	(1,531,064)	5%
Net Cash From Operating Activities	44,194,628	42,115,762	2,078,866	5%
CAPITAL AND RELATED FINANCING ACTIVITIES				
Acquisition & Construction of Capital Assets	(92,500,000)	(60,125,000)	(32,375,000)	54%
Interest Paid on Financing	(15,829,559)	(16,391,528)	561,969	-3%
Principal Paid on Financing	(16,494,081)	(13,599,193)	(2,894,888)	21%
Redemptions of Commercial Paper Notes	-	(5,500,000)	5,500,000	-100%
Grants	669,308	1,900,000	(1,230,692)	-65%
Contributions for Water Resource Sustainability Program	2,840,000	607,168	2,232,832	368%
Contributions From Developers-Will-Serve Letters	7,245,700	2,884,048	4,361,652	151%
Contributions from Developers - Other	11,044,199	9,360,299	1,683,900	18%
Contributions from Developers - Facility Charges	13,186,258	7,301,331	5,884,927	81%
Contributions from Others	94,924	-	94,924	0%
Contributions from Other Governments	21,100,000	200,000	20,900,000	10450%
Bond/Note Issuance Costs	-	(133,000)	133,000	-100%
Net Cash Used For Capital & Relating Financing Activities	(68,643,251)	(73,495,875)	4,852,624	-7%
INVESTING ACTIVITIES				
Interest Received	3,064,024	2,583,886	480,138	19%
Net Cash From Investing Activities	3,064,024	2,583,886	480,138	19%
NET CHANGE IN CASH AND CASH EQUIVALENTS	(21,384,599)	(28,796,227)	7,411,628	-26%
CASH AND CASH EQUIVALENTS, BEGINNING PERIOD	216,227,461	211,972,331	4,255,130	2%
CASH AND CASH EQUIVALENTS, END OF PERIOD	\$ 194,842,862	\$ 183,176,104	\$ 11,666,758	6%

Truckee Meadows Water Authority

Summary of changes by Expense Element

FY 23 vs FY 22

Expense Element	FY 23	FY 22	Variance \$	Variance %
Supplies/Equipment Rental	\$ 4,003,990	\$ 3,390,160	\$ 613,830	18% A
Contracted Services	7,884,900	7,276,264	608,636	8% B
Chemicals	2,621,999	2,462,701	159,298	6% C
Professional Services	2,939,500	2,808,840	130,660	5% D
Insurance/Claims	1,395,000	1,282,000	113,000	9% E
Land/Leases/Permitting	942,100	841,175	100,925	12%
Postage/Printing	864,100	777,050	87,050	11%
Hardware/Software	2,486,995	2,420,714	66,281	3%
Employee Related/Training	582,600	549,800	32,800	6%
Street Repairs	270,000	255,000	15,000	6%
Property Taxes	752,500	752,400	100	0%
Bank/Investment Fees	50,000	50,000	-	0%
Miscellaneous Expenses	-	2,400	(2,400)	-100%
Resource Fees	1,044,500	1,059,000	(14,500)	-1%
Overhead Allocations	(598,153)	(571,976)	(26,177)	5%
Agency Reimbursements	(267,509)	(227,656)	(39,853)	18%
Internet/Other Utility	795,500	840,600	(45,100)	-5%
Sponsorships/Community	1,116,500	1,166,500	(50,000)	-4%
Electric Power	5,508,542	5,567,028	(58,487)	-1%
Project Related	1,326,000	1,486,000	(160,000)	-11%
	\$ 33,719,064	\$ 32,188,000	\$ 1,531,063	5%

A Variance is due to increased supplies prices due to inflation. Notably, fuel costs are expected to be \$214k (65%) higher in FY 23 compared to FY 22. This is also due to increased miles driven. Additionally, TMWA will rent generators during the months when NV Energy may have PSOM related outages. This additional cost is estimated to be \$186k and was not part of the FY 22 budget.

B Increase in contracted services is due to several factors including increased third party security costs, meter installation services and landscape maintenance. TMWA has added additional security services to improve monitoring and response effectiveness across the service territory. Meter installation services are actually a component of the AMI capital project, but are required to be expensed due to the nature of the work. Finally, TMWA continues to improve landscape maintenance at all sites across the service territory.

C Chemical costs are increasing due to both known and anticipated price increases.

D Professional services are increasing due primarily to increases in public relations costs and consulting related to the Bureau of Reclamation's water management option pilot project.

E Based on preliminary estimates, insurance premiums are expected to increase 9% from FY 2022. Property and General Liability make up approximately 77% of total premiums. The property insurance market has seen large increases in recent years and even with TMWA's good loss history, TMWA is exposed to some levels of increase.

Line	Priority	Funding	TMWA 5 Year Draft Capital Plan Summary	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Five Year CIP Total
Raw Water Supply Improvements									
1	2	CR	Highland Canal-Upgrades-Downstream	225	225	225	225	225	1,125
2	1	CR	Highland Canal-Upgrades-Diversion to Chalk Bluff	500	500	2,500	100	100	3,700
3	1	CR	TROA Drought Storage / Implementation	150	100	100	100	100	550
4	2	CR	Donner Lake Outlet Improvements Phase 2	150	150	250	3,000	3,000	6,550
5	2	DF, SF, R	Advanced Purified Water Facility at American Flat	30,000	40,000	25,000	5,000	-	100,000
6	1	CR	Washoe Lake System Improvements	100	150	250	250	250	1,000
7			Total Raw Water	31,125	41,125	28,325	8,675	3,675	112,925
Ground Water Supply Improvements									
10	1	CR	Well Rehabilitation Improvements	200	200	200	200	200	1,000
11	2	DF	Double Diamond #5 and Equipping	50	450	-	-	60	560
12	2	DF	Callamont Well South Equipping	-	60	1,140	-	-	1,200
13	2	CR	Air Guard Well Replacement Equipping	-	-	-	-	1,100	1,100
14	1	CR	Lemmon Valley Well #8 Replacement	-	250	1,000	-	-	1,250
15	1	CR	Well Fix & Finish	350	350	350	350	350	1,750
16	1	CR	Thomas Creek Well Replacement and Spring Creek 5	1,000	-	-	1,500	-	2,500
17	1	CR & SF	Well Head TTHM Mitigation	500	500	500	500	500	2,500
18	2	DF	Callamont Well North Equipping	-	-	-	60	1,140	1,200
19	1	DF	Spring Creek Well #10 - Donovan	150	1,060	-	-	-	1,210
20	1	CR	Fish Springs Ranch TDS Monitoring Wells	-	250	-	-	-	250
21	1	CR	Geothermal Fluid Monitoring Well	100	-	-	-	-	100
22	1	CR	Spring Creek Well 9 (Spring Creek 4 Replacement)	760	1,000	-	-	-	1,760
23	1	CR	Spring Creek Wells PH Adjustment	750	250	-	-	-	1,000
24	2	CR	STMGID Well #1 Re Drill and Equipping	200	-	-	-	1,000	1,200
25			Total Ground Water	4,060	4,370	3,190	2,610	4,350	18,580
Treatment Plant Improvements									
28	1	CR	Chalk Bluff Plant Improvements	550	365	360	350	525	2,150
29	1	CR	Glendale Treatment Plant Improvements	200	1,000	375	325	405	2,305
30	1	CR	Chalk Bluff Filter Underdrains	800	800	800	-	-	2,400
31	1	CR	Glendale Filter Underdrains	-	500	500	500	500	2,000
32	3	CR	Chalk Bluff Lighting Upgrade	-	350	-	-	-	350
33	3	CR	Glendale Lighting Upgrade	250	-	-	-	-	250
34	2	CR & IS	Orr Ditch Pump Station Rehab and Hydro Facility	12,665	1,000	-	-	-	13,665
35	1	CR	Truckee Canyon Water Treatment Improvements	100	100	20	10	10	240
36	1	CR	Lightning W Treatment Improvements	20	20	150	10	10	210
37	1	CR	SCADA Rehab / Plant Operating Software	1,000	1,000	1,000	1,000	750	4,750
38	2	CR	Longley Plant HV 3 and HV 4 Treatment Improvements	900	550	-	-	-	1,450
39	2	CR	Spanish Springs Nitrate Treatment Facility	250	250	500	-	7,500	8,500
40	1	CR	Chalk Bluff Electrical System Upgrades	150	-	-	-	-	150
41			Total Treatment Plant Improvements	16,885	5,935	3,705	2,195	9,700	38,420
Pressure Improvements									
44	1	CR	Pressure Regulators Rehabilitation	1,000	500	500	500	500	3,000
45	2	CR	Land Acquisitions	250	250	250	250	250	1,250
46	2	CR	Desert Fox Standby Generator	-	150	-	-	-	150
47	1	DF	Longley Booster Pump Station / Double R Capacity Increase	-	250	1,000	-	-	1,250
48	3	CR	Pump Station Oversizing	100	100	100	100	100	500
49	1	CR	Pump Station Rebuilds, Rehabilitations	250	250	250	250	250	1,250
50	2	CR & DF	Sullivan #2 Booster Pump Station Replacement	-	-	-	-	80	80
51	2	CR	Mount Rose Well #3 Pump Station Improvements	-	250	-	-	-	250
52	3	CR	Standby Generator Improvements	150	150	150	150	150	750
53	1	CR	Idlewild Booster Pump Station Improvements	100	1,200	-	-	-	1,300
54	2	DF	Raleigh to Fish Springs Booster Pump Station	-	-	-	-	300	300
55	2	CR & DF	Southwest Pump Zone Consolidation Phase 1	-	-	-	-	330	330
56	2	CR	Spanish Springs #1 Pump Zone Intertie	600	-	-	-	-	600
57	2	DF	STMGID Tank #4 Booster Pump Station / Transmission Line	100	300	1,000	-	250	1,650
58	2	DF	Wildwood 2 Pressure Regulating Station Scada Control	-	100	-	-	-	100
59	2	CR & DF	Southwest Pump Zone Consolidation Phase 2	-	-	-	-	50	50
60	2	CR	Sierra Summit-Kohl's Zone Consolidation	-	-	380	400	-	780
61	2	CR	Wild Mustang Regulated Pressure Zone	-	-	50	380	-	430
62	2	CR	Thomas Creek #4 PRS	-	170	-	-	-	170
63	2	CR	Kings Row 2 Booster Pump Station	-	-	-	150	150	300
64	2	DF	Spring Creek Tanks #3&4 Booster Pump Station Modifications	-	-	-	200	900	1,100
65	1	DF	Lazy 5 Low Head Pump Station & Mains	1,000	1,000	-	-	-	2,000
66	1	R	Common (Stonegate) Booster Pump Station	2,200	-	-	-	-	2,200
67	2	CR	Caughlin 5C Pump and Motor Replacement	150	-	-	-	-	150
68	1	CR	South Hills BPS Replacement	-	-	70	2,750	1,500	4,320
69	2	CR	Sierra Highlands PRS	-	-	210	-	-	210
70	1	CR	Caughlin 2 Tanks	-	-	500	1,000	1,500	3,000
71	1	CR	7th Street High & Low BPS Replacement	1,300	2,000	-	-	-	3,300
72	1	CR	STMGID NAC Deficiencies - Upper Toll	500	600	2,500	-	-	3,600
73	1	R	Verdi 1 BPS	1,750	750	-	-	-	2,500
74	1	R	Santerra Quillici 1 BPS	1,150	450	-	-	-	1,600
75	1	R	Silvers Hills BPS	200	1,000	500	-	-	1,700
76	2	CR	Upper Markridge 1 Pressure Improvements	150	-	-	-	-	150
77	2	CR	Orrcrest PRS	150	-	-	-	-	150
78	2	CR	Tappan 2 PRS	-	250	-	-	-	250
79			Total Pressure Improvements	11,100	9,720	7,460	6,130	6,310	40,720
Water Main-Distribution-Service Line Improvements									
82	1	CR	Street & Highway Main Replacements	5,800	5,000	5,000	5,000	5,000	25,800
83	1	CR	5th, 6th & 7th St. Water Main Replacements	1,170	-	-	-	-	1,170
84	1	CR	Wright Way, E St, 5th, 6th & 7th Replacements	1,820	-	-	-	-	1,820
85	1	CR	Oddie Wells Main Replacement	1,560	-	-	-	-	1,560
86	2	CR	Spring Creek South Zone Conversion	600	200	-	-	-	800
87	2	CR	Booth, Sharon Way, Monroe 24" Main Replacements	-	1,000	2,100	2,000	-	5,100
88	2	CR	North East Sparks Tank Feeder Main Relocation	-	-	975	-	-	975
89	2	DF	Trademark 14" Main Tie	-	-	-	-	350	350
90	2	CR	Mt Rose Tank 1 Fire Flow Improvements	-	400	570	-	-	970
91	2	CR & DF	Stead Golf Course Main Replacement	-	-	170	2,400	-	2,570
92	3	CR	General Waterline Extensions	100	100	100	100	100	500
93	1	DF	North-East Sparks Feeder Main Ph. 8	-	50	2,050	-	-	2,100
94	1	DF	Mount Rose 5 Distribution / Pressure Improvements	50	400	-	-	-	450
95	2	DF	Goldenrod Main	50	1,200	-	-	-	1,250
96	1	DF	Boomtown Water System Improvements	500	1,750	-	-	-	2,250
97	2	CR	Lemmon Valley Sand Yard	530	-	-	-	-	530

Line	Priority	Funding	TMWA 5 Year Draft Capital Plan Summary	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Five Year CIP Total
98	2	CR & DF	Sullivan #1 Main Tie & PRS	-	-	-	100	650	750
99	2	CR	Montreux High Pressure ACP Replacement	-	-	520	1,060	-	1,580
100	2	CR	2nd Galena Creek Main Crossing	-	40	560	-	-	600
101	2	CR	Off-River Supply Improvements - STM	-	-	-	50	1,050	1,100
102	2	CR	Off-River Supply Improvements - NVS Pump Station	-	-	400	-	-	400
103	2	CR	Somerset #6 Main Tie & PRS	-	280	-	-	-	280
104	1	CR	2025 Fire Flow Improvements - Gravity <1,000 GPM	-	-	-	550	-	550
105	1	CR	2025 Fire Flow Improvements - North Valleys <1,000 GPM	-	-	-	940	-	940
106	2	DF	Deluchi to Airway Main Tie	-	-	-	440	-	440
107	1	DF	SE Sparks Feeder Main Phase 1	-	-	-	50	4,450	4,500
108	1	DF	South Truckee Meadows Capacity Improvements	200	800	-	-	-	1,000
109	2	CR	Rock & Capital Main Tie	200	-	-	-	-	200
110			Total Water Main-Distribution-Service Line Improvements	12,580	11,220	12,445	12,690	11,600	60,535
111									
112			Potable Water Storage Improvements						
113	1	CR & DF	Sun Valley #2 Tank	-	-	420	2,980	-	3,400
114	2	DF	Fish Springs Terminal Tank #2	-	-	-	-	40	40
115	1	CR	Storage Tank Recoats; Access; Drainage Improvements	3,500	4,000	4,000	4,000	4,500	20,000
116	2	CR & DF	Highland Reservoir Tank	1,000	2,000	4,700	-	-	7,700
117	1	CR & DF	STMGID Tank East Zone 11 Tank	-	-	-	175	2,900	3,075
118	1	CR, R, DF	US 40 Tank & Feeder Main	2,150	2,530	-	-	-	4,680
119	2	CR & DF	Spanish Springs Altitude Valves (SC6 & DS3)	-	300	-	-	-	300
120	2	CR	Hidden Valley Tank Altitude Valve	-	350	-	-	-	350
121	1	CR	Lemmon Valley Tank #1 Replacement and Patrician PRS	250	750	-	-	-	1,000
122			Total Potable Water Storage Improvements	6,900	9,930	9,120	7,155	7,440	40,545
123									
124			Hydroelectric Improvements						
125	2	CR	Forebay, Diversion, and Canal Improvements	100	100	100	100	100	500
126	3	CR	Flume Rehabilitation	-	-	150	150	-	300
127	3	CR	Hydro Plant Generator Rewinds	-	350	-	500	350	1,200
128	1	CR	Washoe Plant_Turbine Rebuild and Rebuild/Replacement Unit 1	250	2,750	-	-	-	3,000
129	2	CR	Washoe Plant_Turbine Rebuild and Rebuild/Replacement Unit 2	-	-	-	250	2,750	3,000
130			Hydroelectric Improvements	350	3,200	250	1,000	3,200	8,000
131									
132			Customer Service Outlays						
133	3	CR	Meter Reading Equipment	-	75	-	-	-	75
134	2	DF	New Business Meters	100	100	100	100	100	500
135	1	CR	Mueller Pit Replacements former Washoe County	125	125	125	125	125	625
136	2	CR	Galvanized / Poly Service Line Replacements	250	250	250	250	250	1,250
137	1	CR & MR	Automated Meter Infrastructure (AMI)	2,300	5,000	6,000	6,200	-	19,500
138			Total Customer Service Outlays	2,775	5,550	6,475	6,675	475	21,950
139									
140			Administrative Outlays						
141	2	CR	GIS / GPS System Mapping Equipment	45	20	-	-	-	65
142	2	CR	IT Server Hardware	45	30	-	-	-	75
143	2	CR	IT Network Security Upgrades	70	10	-	-	-	80
144	2	CR	IT Physical Access Security Upgrades	60	60	-	-	-	120
145	2	CR	Printer / Scanner Replacement	-	100	-	-	-	100
146	3	CR	Crew Trucks / Vehicles	750	850	950	1,000	1,100	4,650
147	1	CR	Emergency Management Projects	150	150	150	150	150	750
148	1	CR	Emergency Operations Annex Design / Construction	-	250	250	1,500	-	2,000
149	2	CR	System Wide Asphalt Rehabilitation	200	200	200	200	200	1,000
150	1	CR	Physical Site Security Improvements	200	200	-	-	100	500
151			Total Administrative Outlays	1,520	1,870	1,550	2,850	1,550	9,340
152									
153			Total Capital Spending Outlays	87,295	92,920	72,520	49,980	48,300	351,015
154									
155			Special Projects Funded by Development						
156	3	DF	Water Right Purchases	2,500	2,500	2,500	2,500	2,500	12,500
157			Total Special Projects Funded by Development	2,500	2,500	2,500	2,500	2,500	12,500
158									
159			Total Projected Capital Spending Including Projects Funded By Development	89,795	95,420	75,020	52,480	50,800	363,515
160									
161			Former STMGID System Improvements						
162	1	STMGID	STMGID Conjunctive Use Facilities - Arrowcreek BPS	2,700	-	-	-	-	2,700
163			Total Former STMGID Capital Spending - Allocated Funding	2,700	-	-	-	-	2,700
164									
165			Total Projected Capital Spending Including STMGID - Allocated Funding	92,495	95,420	75,020	52,480	50,800	366,215

	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Five Year CIP Total
Customer Rates	40,105	36,843	39,051	42,904	39,116	198,019
Developer Fees	8,640	23,216	16,269	4,626	11,434	64,185
Reimbursements	26,300	30,200	18,000	3,500	-	78,000
STMGID Reserve Funds	2,700	-	-	-	-	2,700
Water Meter Retrofit / Developer Fees	2,500	3,211	-	-	-	5,711
Sustainability	7,250	1,950	1,700	1,450	250	12,600
Farad Insurance Settlement - Applied to Orr Ditch Hydro project	5,000	-	-	-	-	5,000
Grants	-	-	-	-	-	-
Total	92,495	95,420	75,020	52,480	50,800	366,215

TMWA Fiscal Year 2023 (Tentative) Budget

FY 23 Operating Budget and FY 23-27 CIP

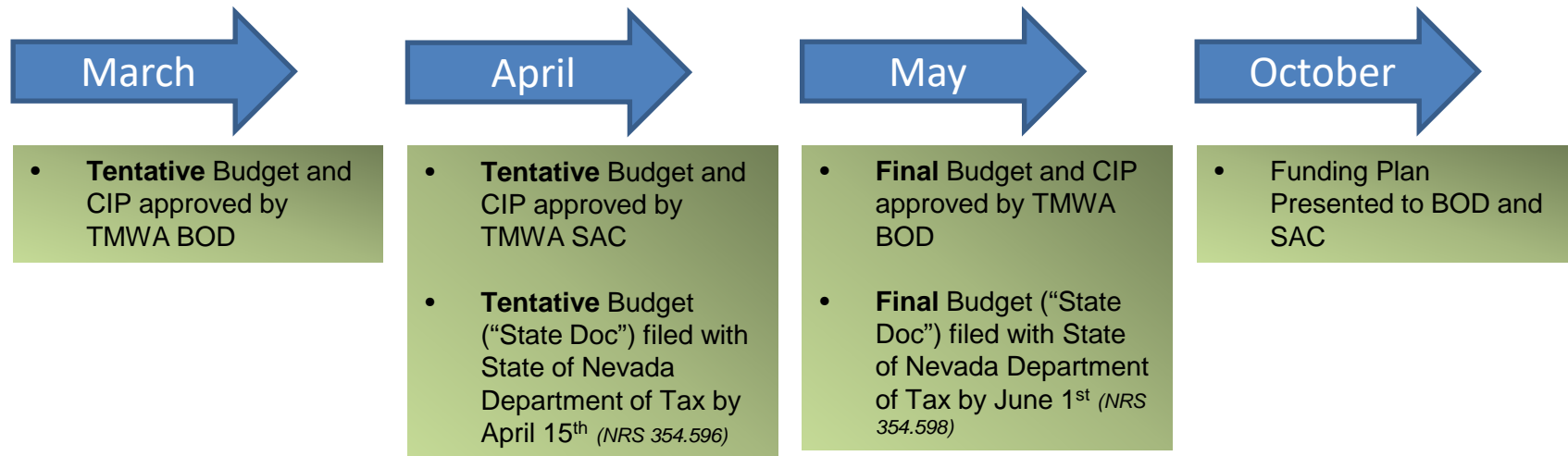
*Presentation by Truckee Meadows Water Authority
March 16, 2022*



Truckee Meadows Water Authority (TMWA)

FY 2023 (Tentative) Budget *(amounts in millions)*

Fiscal Planning Timeline



Truckee Meadows Water Authority (TMWA)

FY 2023 (Tentative) Operating Budget *(amounts in millions)*

Summary – Year over Year Budgets

	FY 2023	FY 2022	Change \$	Change %
Operating Revenue	120.2	112.6	7.6	6.7%
Operating Expense	110.6	104.7	5.9	5.6%
Operating Income	9.6	7.9	1.7	21.5%
Nonoperating Revenues (Expenses)	(10.1)	(10.2)	0.1	-1.0%
Capital Contributions	78.0	39.9	38.1	95.5%
Change in Net Position	77.5	37.6	39.9	106.1%
Net Change in Cash	(21.4)	(28.8)	7.4	-25.7%

- *Change in Net Position expected to be higher than prior year due to contributions from City of Reno for American Flat APW.*
- *Change in Cash likely to be closer to \$0 due to approximately 80% expected capital spend (typical)*

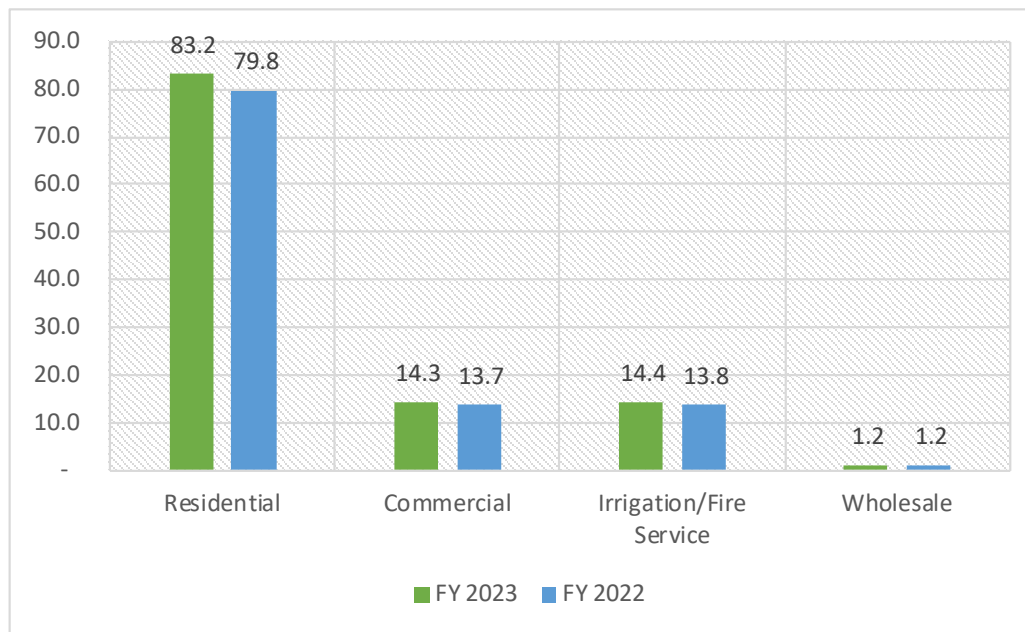
Truckee Meadows Water Authority (TMWA)

FY 2023 (Tentative) Operating Budget *(amounts in millions)*

Operating Revenue

	FY 2023	FY 2022	Change \$	Change %
Charges for Water Sales	113.1	108.5	4.6	4.2%
Hydroelectric Sales	3.2	1.8	1.4	77.8%
Other Operating Sales	3.9	2.3	1.6	69.6%
Total Operating Revenue	120.2	112.6	7.6	6.7%

- Water sales model assumes rate increases in May, 2022 and May, 2023 of 2.5%.
- Water sales model estimates increase in connections of ~1.5%
- Water sales model assumes average weather year with all history/data available



Truckee Meadows Water Authority (TMWA)

FY 2023 (Tentative) Operating Budget *(amounts in millions)*

Operating Expenses

	FY 2023	FY 2022	Change \$	Change %
Salaries and Wages	29.4	26.6	2.8	10.5%
Employee Benefits	12.8	11.6	1.2	10.3%
Services and Supplies	33.7	32.2	1.5	4.7%
Operating Expenses Before Depreciation	75.9	70.4	5.5	7.8%
Depreciation	34.7	34.3	0.4	1.2%
Total Operating Expenses	110.6	104.7	5.9	5.6%

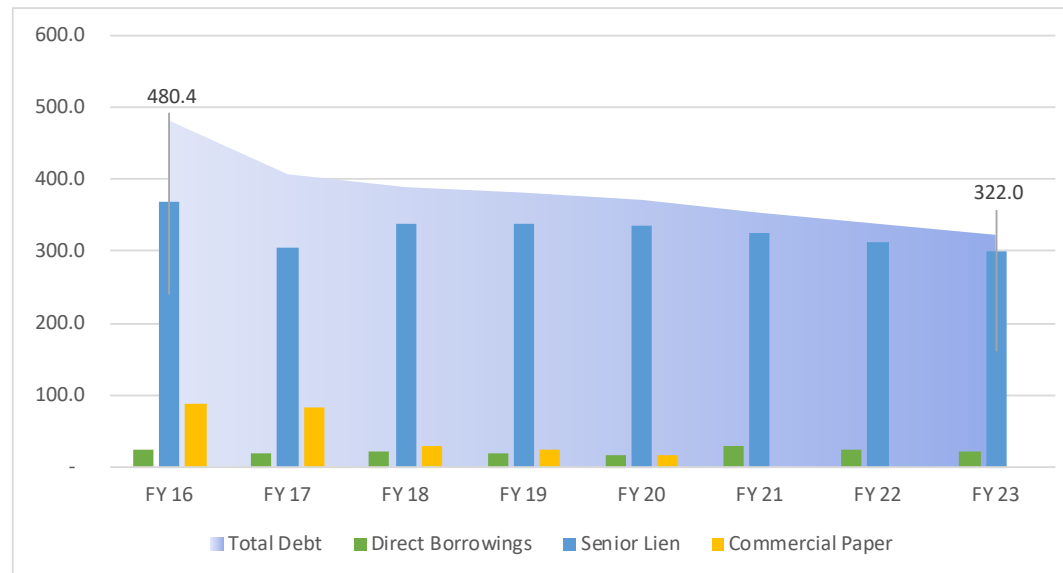
- 4.75% headcount
- 2.75% step increases
- 3.50% Labor Market Index
- Increase in prices of supplies, most notably, fuel (\$0.2m) and chemicals (\$0.2m).
- Increase in contracted services including contracted security, expensed meter installations and landscape maintenance.
- Increase in insurance expense of \$0.1m

Truckee Meadows Water Authority (TMWA)

FY 2023 (Tentative) Operating Budget *(amounts in millions)*

Nonoperating Revenues and Expenses

	FY 2023	FY 2022	Change \$	Change %
Investment Earnings	3.1	2.6	0.5	19.2%
Loss on Disposal of Assets	(1.7)	(0.8)	(0.9)	112.5%
Debt Issuance Costs	-	(0.1)	0.1	-100.0%
Interest Expense	(11.5)	(11.9)	0.4	-3.4%
Nonoperating Expenses	(10.1)	(10.2)	0.1	-1.0%



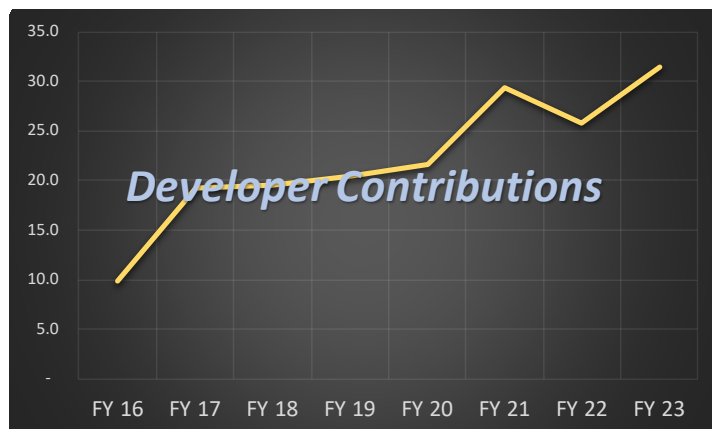
Fitch upgrades
TMWA to AAA
(from AA)

Truckee Meadows Water Authority (TMWA)

FY 2023 (Tentative) Operating Budget *(amounts in millions)*

Capital Contributions

	FY 2023	FY 2022	Change \$	Change %
Grants	0.6	1.4	(0.8)	-57.1%
Water Resource Sustainability Program	2.8	0.6	2.2	366.7%
Developer Infrastructure Contributions	21.9	18.2	3.7	20.3%
Developer Will-serve Contributions	7.2	2.9	4.3	148.3%
Developer Capital Contributions - Other	11.0	9.4	1.6	17.0%
Developer Facility Charges	13.2	7.3	5.9	80.8%
Contributions from Other Governments	21.1	0.2	20.9	10450.0%
Total Capital Contributions	77.8	40.0	37.8	94.5%



Includes contribution from City of Reno for 70% of construction costs expected during FY 23.

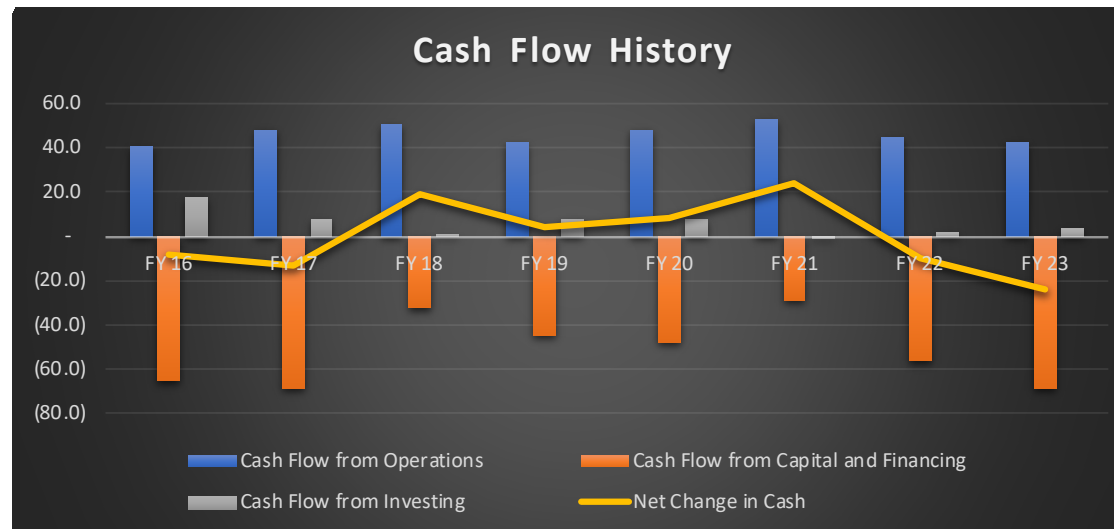
Truckee Meadows Water Authority (TMWA)

FY 2023 (Tentative) Operating Budget *(amounts in millions)*

Cash Flows

	FY 2023	FY 2022	Change \$	Change %
Cash Flow from Operations	44.2	42.1	2.1	5.0%
Cash Flow from Capital and Financing	(68.6)	(73.5)	4.9	-6.7%
Cash Flow from Investing	3.1	2.6	0.5	19.2%
Net Change in Cash	(21.3)	(28.8)	7.5	-26.0%

- *Increase in capital spend of \$37.8m includes American Flat, offset by contribution from City of Reno for \$21m and increased developer contributions of \$14.0m*



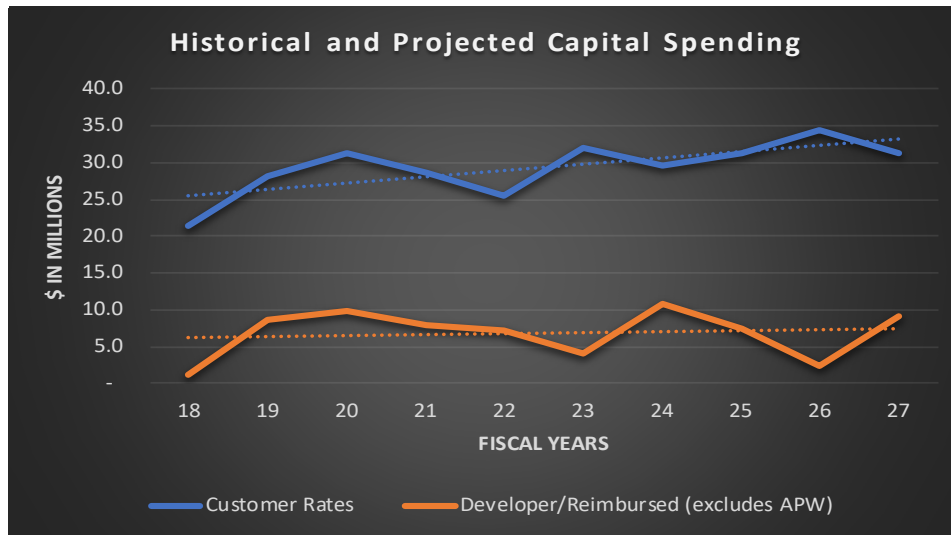
Truckee Meadows Water Authority (TMWA)

Capital Improvement Plan FY 2023 – 2027 (tentative) *(amounts in millions)*

Summary of Funding Sources	2023	2024	2025	2026	2027	Total	CIP Total	PY CIP	CIP Total	Change \$	Change %
Customer Rates	40.1	36.8	39.1	42.9	39.1	198.0	54.1%	187.0	73.5%	11.1	6%
Developer Fees	8.6	23.2	16.3	4.6	11.4	64.2	17.5%	43.8	17.2%	20.4	47%
Reimbursements	26.3	30.2	18.0	3.5	-	78.0	21.3%	3.1	1.2%	74.9	2416%
STMGID Reserve Funds	2.7	-	-	-	-	2.7	0.7%	5.2	2.0%	(2.5)	-48%
Water Meter Retrofit / Developer Fees	2.5	3.2	-	-	-	5.7	1.6%	5.7	2.2%	-	0%
Sustainability	7.3	2.0	1.7	1.5	0.3	12.6	3.4%	4.0	1.6%	8.6	215%
Farad Insurance Settlement (Orr Ditch Hydro)	5.0	-	-	-	-	5.0	1.4%	5.5	2.2%	(0.5)	-9%
Grants	-	-	-	-	-	-	0.0%	-	0.0%	-	0%
Total	92.5	95.4	75.0	52.5	50.8	366.2	100.0%	254.2	100.0%	111.9	44%

-American Flat APW

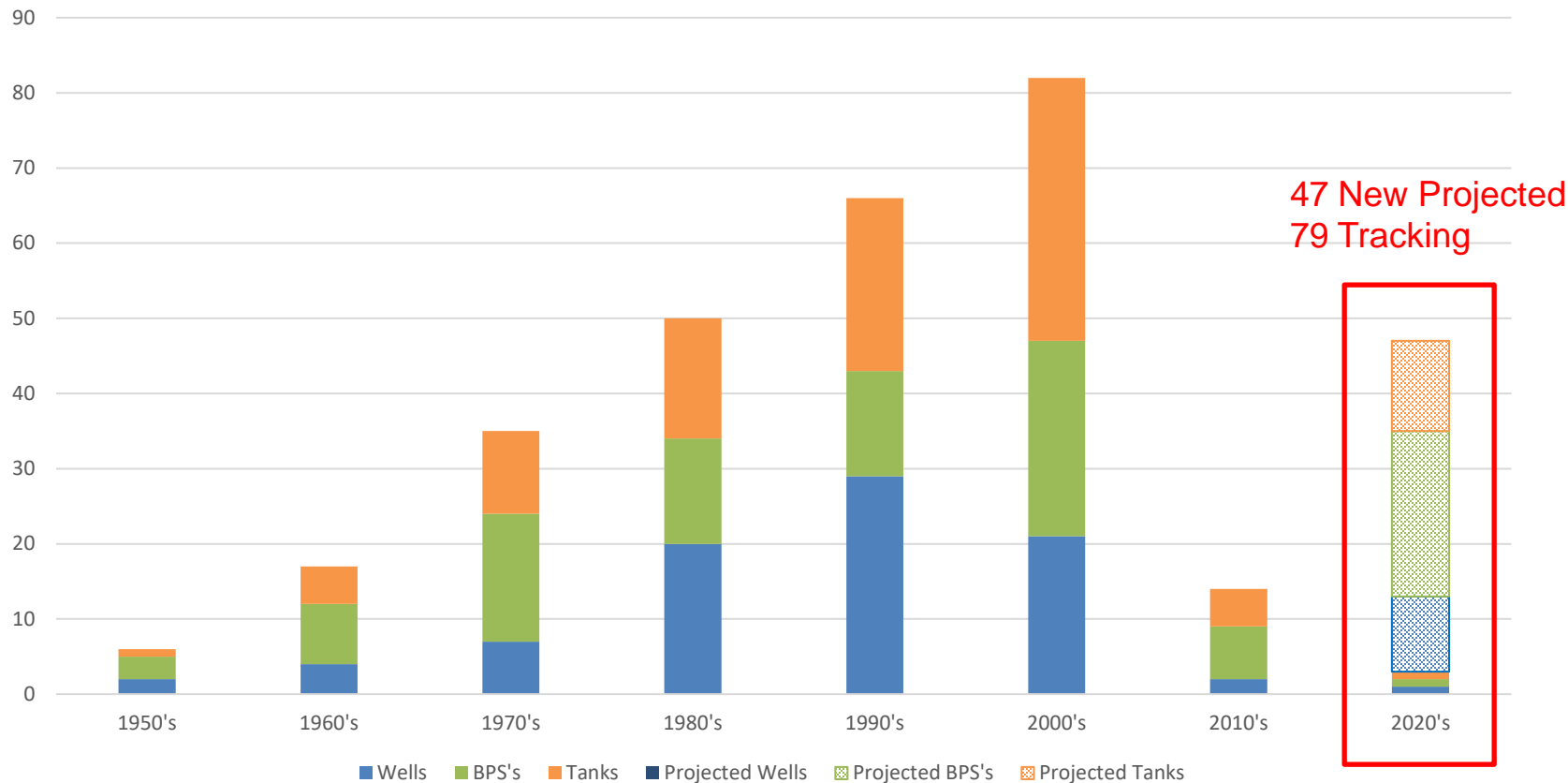
-\$3m received from FY22 Omnibus, approved March 10th. Will be reflected in Final Budget presented in May.



Truckee Meadows Water Authority (TMWA)

Capital Improvement Plan FY 2023 – 2027 (tentative) *(amounts in millions)*







Tanks / Wells / BPS's By Decade



Truckee Meadows Water Authority (TMWA)

FY 2023 (Tentative) Budget *(amounts in millions)*

Summary/Take-aways

- Water Sales 
 - 1.5% increased services
 - 2.5% rate increase
- Operating Expenses 
 - Increase to employee headcount
 - Step increases
 - Some inflationary price increases
- Nonoperating Expenses 
- Capital Contributions 
 - American Flat APW related contributions
 - Continued growth
- Net Change in Cash 
 - Projected, but conservative, likely minimal overall change in cash
- 5 Year Capital Spending 
 - Increased focus on major rehabs, mitigating risk.
 - American Flat APW

Thank you!
Questions?



STAFF REPORT

TO: Chairman and Board Members
THRU: Mark Foree, General Manager
FROM: Stefanie Morris, Water Resources Manager
Heather Edmunson, Lands Administrator
DATE: March 4, 2022
SUBJECT: **Discussion and action on adoption of Resolution No. 302: A resolution approving transfer of ownership of 35,814 sf of surplus land (APN 012-391-02) to the Reno-Sparks Indian Colony for no consideration**

SUMMARY

The property is adjacent to an existing well site. Staff has determined the property is unnecessary for water system operations and maintenance. Furthermore, as described below the property requires significant staff attention to ensure it remains clear of debris. The Regional Transportation Commission of Washoe County (“RTC”), in conjunction with the Reno-Sparks Indian Colony (“RSIC”) and the City of Reno (“COR”), are planning for the construction of a 2,400 foot-long shared use path in the southern portion of the Truckee River from John Champion Memorial Park to the east side of the US 395/IR580 overpass in Reno, Nevada. This shared use path project has been designed to be built across this TMWA parcel.

DISCUSSION

RTC requested a public use easement to construct a shared use path and improvements and a temporary construction easement to construct the improvements within the public use easement area, across the TMWA parcel known as APN: 012-391-02. RTC requested a donation from TMWA of the necessary rights-of-way for the construction of this project and release the RTC from their obligation to appraise the rights-of-way required. An exhibit has been attached to this report showing the future alignment of the path.

After consideration of this request, it was determined that this property is not necessary for TMWA’s operations because the nearby Kietzke Well property is adequate in size and there are no future water facility needs in this area. In addition, the trail project will bisect the parcel and further render it undevelopable for future projects. This property is also encumbered by a 10’ sanitary sewer easement that crosses the river to the north. Historically, this property has been frequently used by the un-housed population which has caused a considerable amount of maintenance and debris clean-up costs. TMWA staff feels that this shared use path project will deter future camping activities and enhance the community’s river corridor.

TMWA staff initially reached out to the COR to inquire about accepting a donation of the property for the shared use path, however, COR declined. RSIC, the current owner of other surrounding parcels along the river corridor, has indicated they will accept the property donation upon presenting the offer to their Tribal Council.

If the Board adopts a resolution that the transfer is in the best interest of TMWA, then no appraisal or bidding process is required because the land is being transferred to another governmental entity.

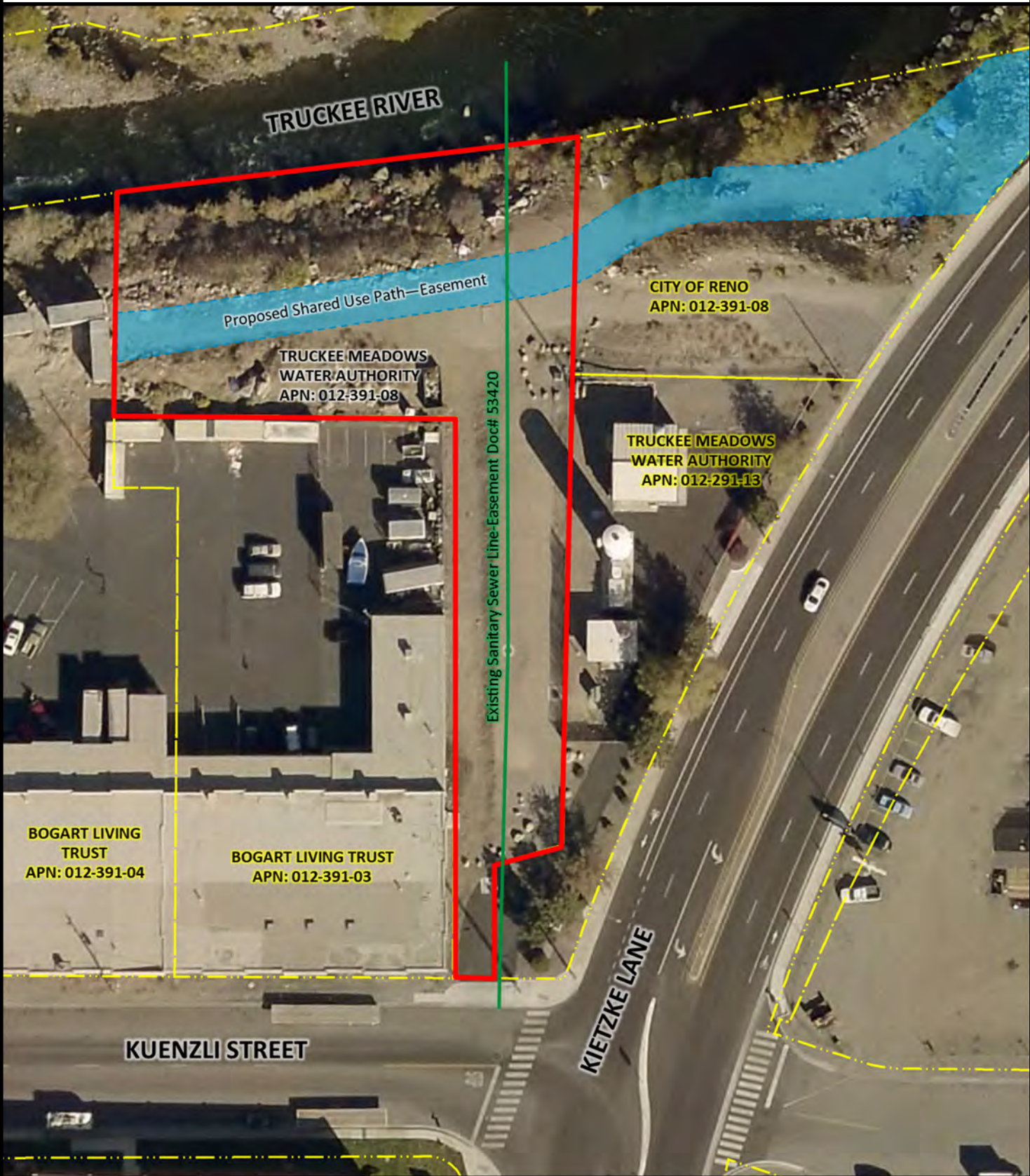
RECOMMENDATION

Staff recommends the Board determine that the transfer is in the best interest of TMWA and adopt Resolution No. 302.

Attachments:

Exhibit Map
GM Certification
Resolution #302

EXHIBIT MAP



SURPLUS PROPERTY EXHIBIT MAP
TMWA SURPLUS PROPERTY-KUENZLI PARCEL
TO RENO SPARKS INDIAN COLONY



STAFF REPORT

TO: Chairman and Board Members
FROM: Mark Foree, General Manager
DATE: March 16, 2022
SUBJECT: **Certification Pursuant to Surplus Property Disposal Policy –
0 Kuenzli Street Property – APN: 012-391-02**

The General Manager hereby certifies to the Board of the Truckee Meadows Water Authority that the real property commonly referred to as the 0 Kuenzli Street Property, which is more-particularly described in the attached Exhibit A, is not useful or necessary for the efficient operation of the water system and may be considered surplus property for purposes of the TMWA disposal policy. This certification is made for the purpose of facilitating a transfer of the subject property in accordance with the foregoing policy to the Reno-Sparks Indian Colony for no consideration.

Dated: March 16, 2022

By: *Mark Foree*
Mark Foree, General Manager

EXHIBIT A

REAL PROPERTY DESCRIPTION

The land referred to herein is situated in the State of Nevada, County of Washoe, described as follows:

All that certain real property situate in the County of Washoe, State of Nevada, described as follows:

PARCEL 1:

A portion of the East one-half of the Northeast one-quarter of Section 12, Township 19 North, Range 19 East, M.D.B. & M. Commencing at the East quarter corner of Section 12, Township 19 North, Range 19 East, M.D.B. & M.; thence North 47° 56' West 48.76 feet; thence South 89° 07' 40" West 750.0 feet to the Eastern line of Giroux Street; thence North 0° 05' West along said East line of Giroux Street 728.00 feet to the Northern line of Kuenzli Street; thence North 89° 07' 40" East along said Northern line of Kuenzli Street 581.41 feet to the true point of beginning; thence North 0° 07' East 353.46 feet to the Truckee River, the Northerly line of the property as described in the Deed of Humphrey-Dean to John F. and Marilouise Kuenzli; thence along the Truckee River North 30° 58' East 208.65 feet more or less, to the Eastern line of said Section 12; thence Southerly along said Eastern line of said Section 12 to the Northern line of Kuenzli Street; thence South 89° 07' 40" West along said Northern line of Kuenzli Street 206 feet more or less, to the true point of beginning.

EXCEPT commencing at the East quarter corner of Section 12, Township 19, North Range 19 East, M.D.B. & M.; thence North 47° 56' West 48.76 feet; thence South 89° 07' 40" West 750.0 feet to the Eastern line of Giroux Street; thence North 0° 05' West along said East line of Giroux Street 728.00 feet to the Northern line of Kuenzli Street; thence North 89° 07' 40" East along said Northern line of Kuenzli Street 581.41 feet to the true point of beginning; thence North 0° 07' East 253 feet; thence North 89° 07' 40" East 156 feet; thence South 0° 07' West 253 feet to the Northerly line of Kuenzli Street; thence South 89° 07' 40" West 156 feet to the true point of beginning.

EXCEPT a portion of that certain real property situate in the East one-half of the Northeast one-quarter (E1/2 NE1/4) of Section 12, T19N R19E MDB & M.

Commencing at the East one-quarter corner of said Section 12;

Thence North 00° 05' 58" West 761.27 feet to the true point of beginning, said point being the Southwest corner of the parcel of land conveyed to Sierra Pacific Power Company by Nevada State Highway Department as shown on the Record of Survey for Sierra Pacific Power Company and filed for record May 9, 1972, File No. 243667, Official Records of Washoe County, Nevada;

Thence continuing North 00° 05' 58" West 60.0 feet;

Thence South 72° 11' 52" West 31.5 feet;

Thence South 00° 05' 58" East 50.0 feet to a point on the North line of Kuenzli Street;

Thence North 89° 05' 45" East 30.0 feet along the North line of said Kuenzli Street to the true point of beginning.

PARCEL 2:

An easement for ingress and egress over a portion of that certain real property situate in the East one-half of the Northeast one-quarter (E1/2 NE1/4) of Section 12, T19N R19E MDB&M described as follows:

Commencing at the East one-quarter corner of said Section 12;

Thence North 00° 05' 58" West 761.27 feet to the Southwest corner of the parcel of land conveyed to Sierra Pacific Power Company by Nevada State Highway Department as shown on the Record of Survey for Sierra Pacific Power Company and filed for record on May 9, 1972, File No. 243667, Official Records of Washoe County, Nevada;

Thence South 89° 05' 45" West 20.0 feet to the true point of beginning;

Thence North 00° 05' 58" West 53.33 feet, more or less.

Thence South 72° 11' 52" West 10.50 feet;

Thence South 00° 05' 58" East 50.0 feet;

Thence North 89° 05' 45" West 10.0 feet to the true point of beginning.

NOTE: The above metes and bounds description appeared previously in that certain document recorded August 20, 1997, in Book 4957, Page 671, as Document No. 2127091 of Official Records.

APN: 012-391-02

TRUCKEE MEADOWS WATER AUTHORITY

RESOLUTION NO. 302

**A RESOLUTION THAT THE TRANSFER OF 35,814 SF OF REAL PROPERTY APN 012-391-02
LOCATED IN RENO, NEVADA IS IN TMWA’S BEST INTEREST**

WHEREAS, Authority owns certain real property located in Reno, Nevada, and which is more-particularly described on the attached Exhibit A (Property). The Authority has determined that this Property is not useful or necessary for the efficient operation of the water system and may be considered surplus property for purposes of the Authority’s disposal policy.

WHEREAS, pursuant to the Authority’s surplus property disposal policy, the General Manager or its designee is authorized to sell, transfer and convey real property that is not otherwise necessary for the operation of the Water System if it is in the best interest of the Authority.

WHEREAS, the General Manager has certified in writing to the Board that the Property is not useful and is not necessary for the efficient operation of the water system.

WHEREAS, the Authority intends to transfer the Property to the Reno-Sparks Indian Colony for the benefit of the community and for no consideration.

**NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE TRUCKEE MEADOWS
WATER AUTHORITY DOES RESOLVE:**

1. The Property is not useful or necessary for the efficient operation of the water system and may be considered surplus property for purposes of the TMWA disposal policy.
2. The transfer of the Property to the Reno-Sparks Indian Colony is in the best interest of Authority and is appropriate and justified;
3. The transfer of the Property to the Reno-Sparks Indian Colony for no consideration is hereby approved.

Upon motion of _____, seconded by _____, the foregoing Resolution was passed and adopted this 16th day of March, 2022, by the following vote of the Board:

Ayes: _____

Nays: _____

Abstain: _____ Absent: _____

Approved this 16th day of March, 2022

Chairman

Truckee Meadows Water Authority
Resolution No. 302 (continued)

EXHIBIT A

REAL PROPERTY DESCRIPTION

The land referred to herein is situated in the State of Nevada, County of Washoe, described as follows:

All that certain real property situate in the County of Washoe, State of Nevada, described as follows:

PARCEL 1:

A portion of the East one-half of the Northeast one-quarter of Section 12, Township 19 North, Range 19 East, M.D.B. & M. Commencing at the East quarter corner of Section 12, Township 19 North, Range 19 East, M.D.B. & M.; thence North 47° 56' West 48.76 feet; thence South 89° 07' 40" West 750.0 feet to the Eastern line of Giroux Street; thence North 0° 05' West along said East line of Giroux Street 728.00 feet to the Northern line of Kuenzli Street; thence North 89° 07' 40" East along said Northern line of Kuenzli Street 581.41 feet to the true point of beginning; thence North 0° 07' East 353.46 feet to the Truckee River, the Northerly line of the property as described in the Deed of Humphrey-Dean to John F. and Marilouise Kuenzli; thence along the Truckee River North 30° 58' East 208.65 feet more or less, to the Eastern line of said Section 12; thence Southerly along said Eastern line of said Section 12 to the Northern line of Kuenzli Street; thence South 89° 07' 40" West along said Northern line of Kuenzli Street 206 feet more or less, to the true point of beginning.

EXCEPT commencing at the East quarter corner of Section 12, Township 19, North Range 19 East, M.D.B. & M.; thence North 47° 56' West 48.76 feet; thence South 89° 07' 40" West 750.0 feet to the Eastern line of Giroux Street; thence North 0° 05' West along said East line of Giroux Street 728.00 feet to the Northern line of Kuenzli Street; thence North 89° 07' 40" East along said Northern line of Kuenzli Street 581.41 feet to the true point of beginning; thence North 0° 07' East 253 feet; thence North 89° 07' 40" East 156 feet; thence South 0° 07' West 253 feet to the Northerly line of Kuenzli Street; thence South 89° 07' 40" West 156 feet to the true point of beginning.

EXCEPT a portion of that certain real property situate in the East one-half of the Northeast one-quarter (E1/2 NE1/4) of Section 12, T19N R19E MDB & M.

Commencing at the East one-quarter corner of said Section 12;

Thence North 00° 05' 58" West 761.27 feet to the true point of beginning, said point being the Southwest corner of the parcel of land conveyed to Sierra Pacific Power Company by Nevada State Highway Department as shown on the Record of Survey for Sierra Pacific Power Company and filed for record May 9, 1972, File No. 243667, Official Records of Washoe County, Nevada;

Thence continuing North 00° 05' 58" West 60.0 feet;

Thence South 72° 11' 52" West 31.5 feet;

Thence South 00° 05' 58" East 50.0 feet to a point on the North line of Kuenzli Street;

Thence North 89° 05' 45" East 30.0 feet along the North line of said Kuenzli Street to the true point of beginning.

PARCEL 2:

An easement for ingress and egress over a portion of that certain real property situate in the East one-half of the Northeast one-quarter (E1/2 NE1/4) of Section 12, T19N R19E MDB&M described as follows:

Commencing at the East one-quarter corner of said Section 12;

Truckee Meadows Water Authority
Resolution No. 302 (continued)

Thence North 00° 05' 58" West 761.27 feet to the Southwest corner of the parcel of land conveyed to Sierra Pacific Power Company by Nevada State Highway Department as shown on the Record of Survey for Sierra Pacific Power Company and filed for record on May 9, 1972, File No. 243667, Official Records of Washoe County, Nevada;

Thence South 89° 05' 45" West 20.0 feet to the true point of beginning;

Thence North 00° 05' 58" West 53.33 feet, more or less.

Thence South 72° 11' 52" West 10.50 feet;

Thence South 00° 05' 58" East 50.0 feet;

Thence North 89° 05' 45" West 10.0 feet to the true point of beginning.

NOTE: The above metes and bounds description appeared previously in that certain document recorded August 20, 1997, in Book 4957, Page 671, as Document No. 2127091 of Official Records.

APN: 012-391-02



TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Lydia Teel, Emerging Resources Program Administrator
 John Enloe, Director of Natural Resources & Planning
DATE: March 16, 2022
SUBJECT: **Informational Report on OneWater Nevada Palomino Farms Feasibility Study**

Background

Palomino Farms, LLC and LW Land Company, LLC (Palomino-LW) collectively own approximately 1,512 acres of farmland and 2,580 acre-feet (AF) of groundwater rights in Palomino Valley, which is an unincorporated area that is part of the larger Warm Springs groundwater basin. In June 2021 TMWA, along with Reno, Sparks, and Washoe County, and in collaboration with OneWater Nevada, authorized the expenditure of \$1.6M (\$400K for each entity) for a feasibility study to explore long-term opportunities to use recycled water for agricultural irrigation in lieu of using the Palomino-LW groundwater rights. TMWA also obtained a Feasibility Study Agreement with Palomino-LW, which allowed TMWA to conduct the study and required Palomino-LW to not sell the land or water rights for a 10-month period. The Feasibility Study Agreement expires April 14, 2022.

Under an Interlocal Agreement (ILA), with Reno, Sparks, and Washoe County, TMWA performed and paid for all work conducted under the study and will obtain reimbursement from Reno, Sparks, and Washoe County for their respective share.

Discussion

Since June 2021 TMWA has conducted an extensive drilling program in Palomino Valley to better understand the characteristics of the aquifer and water quality. Major feasibility study phases include:

1. Project Planning
2. Historical Review
3. Groundwater Flow and Transport Modeling
4. Preliminary Basin Assessment

Prior to June 2021, TMWA had completed work on phases 1 through 3 and determined the site warranted further investigation and investment. Phase 4, Preliminary Basin Assessment, will resolve potential obstacles regarding water storage and recovery potential, and water quality

in the basin. If a sufficient quantity of water cannot be stored and recovered, or if the water quality cannot economically meet drinking water standards, then the project may not be viable. The Preliminary Basin Assessment aims to address this through a detailed evaluation of the following:

- a. Well Inventory
- b. Water Levels
- c. Water Quality Sampling (Drinking Water Concerns)
- d. Geology
- e. Saturated aquifer sediments Geochemical Characterization
- f. Solute Transport Model (based on new info above)
- g. Project Feasibility Variables
 - i. Water Quality
 - ii. Recharge Potential
 - iii. Water Quantity

Staff are currently evaluating the information and data obtained from the drilling program and will use it to evaluate feasibility and direct and indirect benefits of (i) providing another option for regional effluent management, (ii) reducing the volume of treated effluent being discharged into the Truckee River, (iii) the long-term use of recycled water for irrigation of the Palomino-LW land, (iv) increasing the sustainability of the Warm Springs groundwater basin by resting current Palomino-LW irrigation wells, (v) recharging and storing on a long-term basis potable water and potentially advanced purified water in the Warm Springs groundwater basin using Palomino-LW land, and (vi) providing TMWA with a water banking site and an additional source of water for drought protection, water resource sustainability, and operational flexibility.

Staff have also discussed permitting and other regulatory requirements with the Nevada State Engineer, Washoe County planning, Nevada Department of Transportation, and Nevada Division of Environmental Protection. The final feasibility study report will include a detailed summary of those discussions and the necessary permitting and regulatory requirements of implementing the project.

Additionally, staff have conducted three public outreach meetings since summer of 2021. On February 26, 2022, an open house meeting was held to provide a brief project overview and update on current activities. Representatives included numerous TMWA staff, Washoe County, City of Sparks, City of Reno, Truckee Meadows Regional Planning Agency, Western Regional Water Commission, and the Nevada State Engineer. Palomino Valley residents had an opportunity to gather information and ask questions of experts and agencies involved with various aspects of the sustainable water resource project being contemplated by this study.

Subject to favorable results from the Phase 4 assessment outlined above, TMWA, Reno, Sparks, Washoe County, and Palomino-LW would negotiate a five-year option agreement for future TMWA, Reno, Sparks, and Washoe County consideration. As presently contemplated, the option agreement would grant the right to purchase (1) all necessary rights and interests in the Palomino-LW land and (2) the Palomino-LW water rights sufficient to allow TMWA and

Reno, Sparks and Washoe County, subject to obtaining necessary permits, the right to implement the Project. The total purchase price for the above-described interests in the Palomino-LW land and Palomino-LW water rights under the option would be \$34,000,000 and any option payments would be applied toward the purchase price.

Staff expect to finalize a feasibility study report for presentation to the TMWA Board in May 2022 and has been negotiating an extension of the Feasibility Study Agreement. Staff are attempting to extend the Agreement to December 31, 2022 so that all entities have sufficient time to consider the report and determine appropriate next steps regarding a potential option agreement.

Summary

No action is requested at this time. This is an informational report on the status of the feasibility study and staff intend to present the final report to the Board at the May TMWA Board meeting.

FIRST AMENDMENT TO JOINT FUNDING AGREEMENT

This First Amendment to Joint Funding Agreement is made and entered as of January 3, 2022 by and among the State of Nevada, the Department of Conservation and Natural Resources, Division of Water Resources (hereinafter “Nevada”), Truckee Meadows Water Authority (hereinafter “TMWA”), the County of Washoe (hereinafter “Washoe County”), the City of Reno (hereinafter “Reno”), the City of Sparks (hereinafter “Sparks”), and the City of Fernley (hereinafter “Fernley”), and collectively referred to as the “Parties.”

RECITALS

1. On or about August 8, 2019, the Parties entered into a Joint Funding Agreement (the “JFA”) providing for the manner in which the State of Nevada’s share of the expenses of administration of the Truckee River Operating Agreement (the “Nevada Share”) would be apportioned among them and by when and how those payments would be made.
2. The JFA covered payments of the Nevada Share for the fiscal years beginning October 1, 2019, October 1, 2020 and October 1, 2021.
3. The Parties desire to provide for the manner in which the Nevada Share will be apportioned among them for the fiscal years beginning October 1, 2022, October 1, 2023 and October 1, 2024 and to amend the JFA accordingly.
4. Since the JFA was entered into the Washoe County Water Conservation District has taken steps to impose the annual fee allowed by Section 7.A.2(b)(3) of the Operating Agreement, which fee is an expense of administration of the Operating Agreement and is apportioned among the United States, California and Nevada as provided in Section 2.C.2 of the Operating Agreement (the “Conservation District Fee”).

5. It is expected that the Conservation District Fee will be imposed beginning in fiscal year October 1, 2021.

6. The Parties desire to confirm that Nevada's Share of the Conservation District Fee will be apportioned among them as provided herein.

NOW, THEREFORE, the Parties hereto, intending to be legally bound hereby, and in consideration of the mutual covenants and promises herein contained, agree as follows:

1. Article III of the JFA is hereby amended to read as follows:

ARTICLE III

Apportionment of Nevada Share of Operating Agreement Administration Expenses

For the fiscal years beginning October 1, 2021, October 1, 2022, October 1, 2023 and October 1, 2024, Nevada's share of the administration expenses of the Operating Agreement, including the Conservation District Fee, as finally approved in accordance with the Operating Agreement, which approval, includes, ratification by order of the Orr Ditch Court, will be paid 60% by TMWA, 10% by Washoe County, 10% by Reno, 10% by Sparks, and 10% by Fernley. Each party will pay its share of those expenses to Nevada by no later than September 1st prior to the beginning of the next fiscal year. The payments will be made to Nevada by means of an electronic payment as directed by Nevada. Nevada will timely transmit the Nevada Share to the Administrator as required by the Operating Agreement and approved budget.

2. Article IV of the JFA is hereby amended to read as follows:

ARTICLE IV

Apportionment of Nevada Share for Fiscal Years After October 1, 2024

Through their respective representatives, TMWA, Washoe County, Reno, Sparks, and Fernley agree in good faith consider and attempt to reach agreement on how the Nevada Share should be apportioned among them for fiscal years after the year commencing October 1, 2024. Those representatives will complete that consideration on or before June 30, 2025. If an agreement is reached on such apportionment by June 30, 2025, the Parties will memorialize that agreement by an amendment to this Agreement. Until such time as TMWA, Washoe County, Reno, Sparks, and Fernley reach a different agreement concerning such apportionment, they will apportion and pay the Nevada Share as provided in Article III. If an agreement on apportionment of the Nevada Share is not reached by June 30, 2025, the apportionment shall be resolved as provided in Article V.

3. Article V of the JFA is hereby amended to read as follows:

ARTICLE V

Resolution of Apportionment of Nevada Share After October 1, 2024

If TMWA, Washoe County, Reno, Sparks, and Fernley are unable to agree on apportionment of the Nevada Share among them by June 30, 2025, then upon notice by any party to the others, the apportionment shall be finally resolved by binding arbitration by the Truckee River Special Hearing Officer acting as the selected arbitrator. The rules and procedures of the Truckee River Special Hearing Officer shall be the rules for the arbitration. The decision of the Truckee River Special Hearing Officer shall be final. The costs and fees associated with the arbitration shall be determined and assessed by the Truckee River Special Hearing Officer as provided in Section 2.C.4 of the Truckee River Operating Agreement. If the Truckee River Special Hearing Officer cannot or will not serve as the selected arbitrator, representatives of TMWA, Washoe County, Reno, Sparks and Fernley will select an alternate arbitrator approved by all of them. TMWA, Washoe County, Reno, Sparks and Fernley shall adjust payments made by them under this Agreement between October 1, 2025 and the final decision of the arbitrator to conform to that decision.

4. This First Amendment to Joint Funding Agreement may be executed in counterparts, all of which will constitute one and the same agreement.
5. Except as expressly modified herein, the JFA shall remain in full force and effect and the Parties shall be bound by all the terms and conditions thereof.

IN WITNESS WHEREOF, the Parties hereto have executed and delivered this First Amendment to Joint Funding Agreement as of the date and year first above written.

STATE OF NEVADA

TRUCKEE MEADOWS WATER
AUTHORITY

By: _____
State Engineer, Division of Water Resources

By: _____
Chairman, Board of Directors

Date: _____

Date: _____

Approved as to Form:

Deputy Attorney General

CITY OF RENO

By: _____
Mayor

Date: _____

Approved as to Form:

Deputy City Attorney

Attest: _____
City Clerk

CITY OF SPARKS

By: _____
Mayor

Date: _____

Approved as to Form:

Deputy City Attorney

Attest: _____
City Clerk

COUNTY OF WASHOE

By: _____
Chairman, Board of County Commissioners

Date: _____

Approved as to Form:

Deputy District Attorney

Attest: _____
County Clerk

CITY OF FERNLEY

By: _____
Mayor

Date: _____

Approved as to Form:

Deputy City Attorney

Attest: _____
City Clerk



STAFF REPORT

TO: Board of Directors
FROM: Mark Foree, General Manager
DATE: March 9, 2022
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*).

Included in your agenda packet are press clippings from February 11, 2022 through March 11, 2022.

In a press release Wednesday, March 9th, Fitch announced the credit decision to upgrade TMWA's rating on the refunding bond series 2015A from AA to AAA. Among many factors, Fitch cited a strong local economy, affordable water rates, and continued improvement of debt leverage. The rating increase offers continued financial flexibility for TMWA into the future.



STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Scott Estes, Director of Engineering
BY: Bill Hauck, Water Supply Supervisor
DATE: March 08, 2022
SUBJECT: **March 2022 Operations Report**

SUMMARY

- February was our second significantly dry month in a row
- Since the start of the new year snowpack levels have fallen off dramatically. Snow water equivalent is now 80% of normal in the Truckee River Basin
- The water supply outlook remains positive however, with most upstream reservoirs projected to make a noticeable recovery, and normal river flows projected into the second week of November (well beyond TMWA's peak demand season)
- Lake Tahoe storage is at 15% of capacity, and the elevation is 0.94' above the rim
- Combined total upstream reservoir storage is about 25% of maximum capacity
- Customer demand averaged 40 MGD over the first week of March
- Hydroelectric revenue for February was \$197,640

(A) Water Supply

- **River Flows** - Truckee River flow at the CA/NV state line was approximately 395 cubic feet per second (CFS) this morning. This is below normal as the 113-year median flow for this day at Farad is 494 CFS.
- **Snowpack** - Truckee Basin snowpack is currently 80% of normal. This is a significant decline from the start of the new year when snowpack was well over 200% of normal. While the region did experience several smaller inside slider type storms over the last several weeks, mountain snowpack hasn't seen any meaningful accumulation in over two months. The Snow water equivalent (water content of the snowpack) has been basically flatlined since the end of December.
- **Outlook** - Despite the dramatic downgrade in the overall water supply outlook due to an exceptionally dry January and February, projections for streamflow runoff this spring are better than expected due to the great start to the water year. Most upstream reservoirs are still expected to make a noticeable recovery, meaning that normal river flows are projected through the end of October and into November, which is well-beyond

TMWA's peak demand season. While the window of opportunity is beginning to close and the chances of ending the season with a normal snowpack are looking less and less likely, there is still an opportunity to improve the water supply outlook as we still have the remainder of March and April ahead of us where anything can happen weather-wise.

- **Reservoir Storage** - Overall Truckee River reservoir storage is ~25% of capacity. The elevation of Lake Tahoe is 6223.94 feet. Storage values for each reservoir as of March 8th are as follows:

Reservoir	Current Storage (Acre-Feet)	% Capacity (Percent)
Tahoe	114,100	15%
Boca	27,253	67%
Stampede	98,817	44%
Prosser	7,114	24%
Donner	3,398	36%
Independence	11,654	67%

In addition to approximately 15,052 acre-feet of storage in Donner and Independence reservoirs, TMWA has about 32,601 acre-feet of water stored between Lake Tahoe, and Boca and Stampede reservoirs under the terms of TROA. TMWA's total combined upstream reservoir storage is approximately 47,653 acre-feet (as of March 8th).

(B) Water Production

- **Demand** - TMWA's customer demand averaged 40 million gallons per day (MGD) through the first full week of March. Overall, surface water made up ~95% of our supply and groundwater the other 5%. Approximately 3 MGD is being recharged currently.

(C) Hydro Production

Generation - Truckee River flows at Farad (CA/NV state line) for the month of February averaged 313 CFS. TMWA kept river flows steady (@ ~300 CFS) throughout the month which allowed for once again, modest generation from all three plants. The Washoe plant was on-line all 28 days and 100% available. The Fleish plant was also on-line for 28 days and 100% available, while the Verdi plant was on-line for 13 days (46% available) during the month. Note: generation and revenue at all three plants has been estimated for the month

Statistics for the month are as follows:

Plant	Generation Days	% Availability	Generation (Megawatt Hours)	Revenue (Dollars)	Revenue (Dollars/Day)
Fleish	28	100%	1,443	\$108,825	\$3,887
Verdi	13	46%	505	\$37,717	\$1,347
Washoe	28	100%	676	\$51,098	\$1,825
Totals	69	-	2,624	\$197,640	-



STAFF REPORT

TO: Chairman and Board Members
THRU: Mark Foree, General Manager
FROM: Stefanie Morris, Manager, Water Resources
DATE: March 7, 2022
SUBJECT: Report Water Resources and Annexation Activity

RULE 7

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

Beginning Balance		3,258.29 AF
Purchases of water rights	0.00 AF	
Refunds	0.00 AF	
Sales	- 82.86 AF	
Adjustments	0.00 AF	
Ending Balance		3,175.43 AF

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

FISH SPRINGS RANCH, LLC GROUNDWATER RESOURCES

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

Beginning Balance		7,628.16 AF
Committed water rights	- 16.71 AF	
Ending Balance		7,611.45 AF

Price per acre foot at report date: \$43,575 (for SFR and MFR); \$37,800 (for all other services)¹

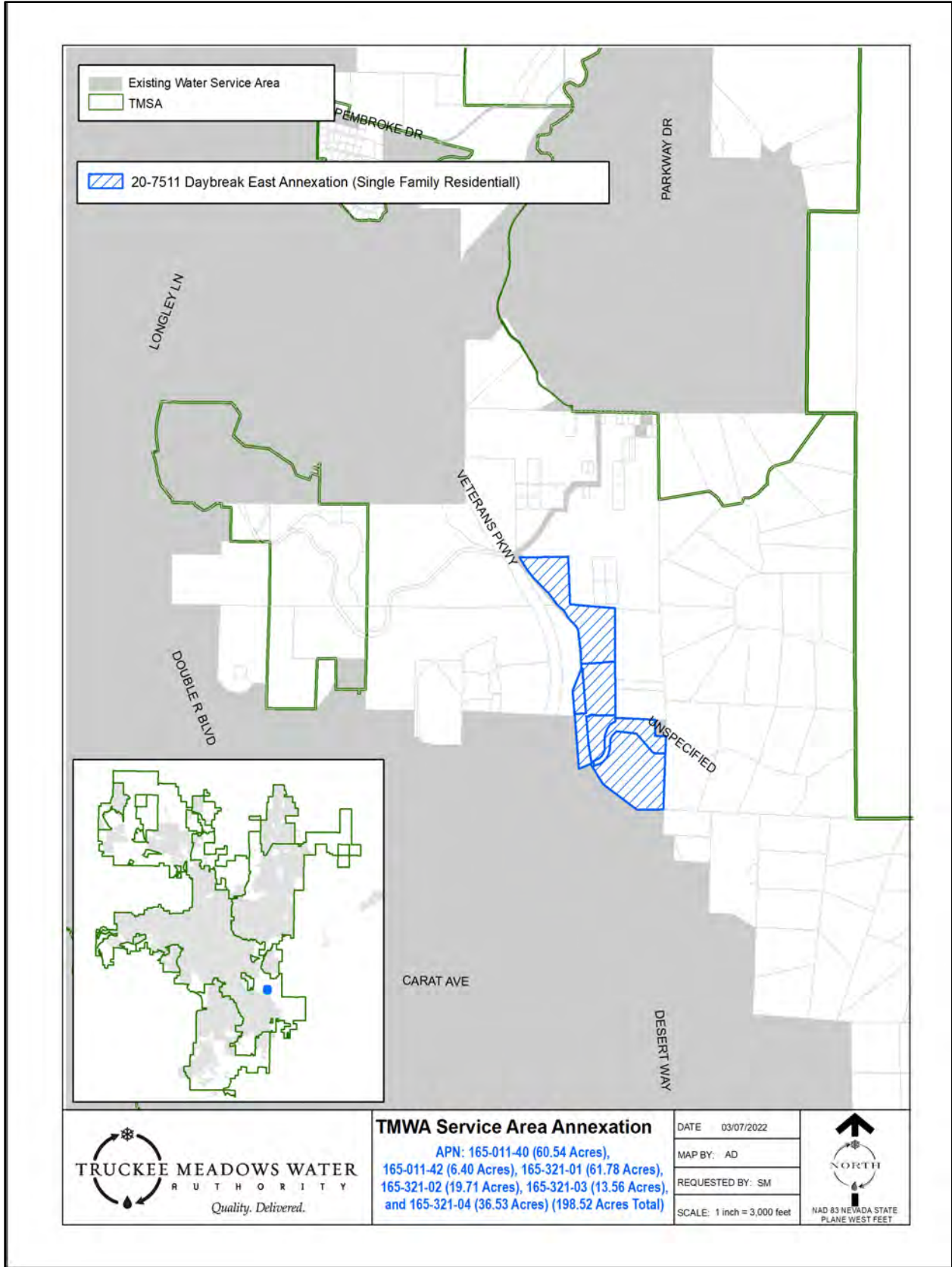
¹ Price reflects avoided cost of Truckee River water right related fees and TMWA Supply & Treatment WSF charge.

WATER SERVICE AREA ANNEXATIONS

Since the date of the last report, 198.52 acres have been annexed into TMWA's service area. (See attachment.)

INTERRUPTIBLE LARGE VOLUME NON-POTABLE SERVICE

No new ILVNPS customers have been added during this reporting period.





STAFF REPORT

TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: Marci Westlake, Manager Customer Service
DATE: March 4, 2022
SUBJECT: February Customer Service Report

The following is a summary of Customer Service activity for February 2022.

Ombudsman

- No calls for February

Communications

- Lydia Teel had a presentation for Northern Nevada Water Reuse for the City of Henderson and 30 people attended.
- Danny Rotter had a presentation for TMWA's Resiliency in our Climate Future for American Public Works Association and 40 people attended.
- John Enloe and Amanda Duncan had a presentation for an offer to purchase an HOA parcel for future water treatment plant for Spanish Springs HOA and 15 people attended.

Conservation (2021 Calendar year)

- 47 Water Watcher Contacts
- 221 Water Usage Reviews

Customer Calls –February

- 6,382 phone calls handled
- Average handling time 4 minutes, 29 seconds per call.
- Average speed of answer – 1:03 seconds per call.

Billing – February

- 134,006 bills issued.
- N/A (0.00%) corrected bills.
- 16,546 customers (12%) have signed up for paperless billing to date.

Remittance – February

- 16,548 Mailed-in payments
- 23,003 Electronic payments
- 42,766 Payments via AutoPay (EFT)
- 18,386 One-time bank account payments
- 112 Store payments
- 338 Pay by Text
- 4,416 IVR Payments
- 688 Reno office Payments
- 31 Kiosk Payments

Collections – February

- 11,642 accounts received a late charge
- 2,219 Mailed delinquent notices, 0.01% of accounts
- 771 accounts eligible for disconnect
- 627 accounts were disconnected (including accounts that had been disconnected-for-non-payment that presented NSF checks for their reconnection)
- .58 % write-off to revenue

Meter Statistics – Fiscal Year to Date

- 0 Meter retrofits completed
- 5,468 Meter exchanges completed
- 1,356 New business meter sets completed
- 126,809 Meters currently installed