

# TRUCKEE MEADOWS WATER AUTHORITY Board of Directors

## AGENDA

# Wednesday, September 21, 2022 at 10:00 a.m. Sparks Council Chambers, 745 4<sup>th</sup> Street, Sparks, NV

<b>Board Members</b>					
Chair Vaughn Hartung	Vice Chair Kristopher Dahir				
Member Paul Anderson	Member Alexis Hill				
Member Jenny Brekhus	Member Naomi Duerr				

#### NOTES:

1. The announcement of this meeting has been posted at the following locations: Truckee Meadows Water Authority (1355 Capital Blvd., Reno), Sparks City Hall (431 Prater Way, Sparks), at <u>http://www.tmwa.com, and State of Nevada Public Notice Website</u>, <u>https://notice.nv.gov/</u>.

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 <a href="http://www.tmwa.com/meeting/">http://www.tmwa.com/meeting/</a>. 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 July 26, 2022 meeting of the TMWA Board of Directors (**For Possible Action**)

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

- Recognition of Director Neoma Jardon for her years of service on the TMWA Board of Directors — Vaughn Hartung\*
- 8. Discussion and action on Resolution No. 307: A Resolution to rename Cone Peak to Sue's Peak in memory of Sue Oldham Stefanie Morris (For Possible Action)
- 9. Presentation of preliminary fiscal year 2022 unaudited financial performance Matt Bowman\*
- 10. Discussion and possible direction to staff regarding TMWA ombudsman position, staff recommendation to engage Kim Mazeres to fill the position, and possible direction to staff and authorization for General Manager to enter into a contract to engage Kim Mazeres as TMWA ombudsman on the conditions described in the staff report Matt Bowman and Marci Westlake (For Possible Action)
- Discussion and action on Resolution No. 308: A Resolution to approve funding for the projects recommended by the Truckee River Fund Advisory Committee and an authorization for the Community Foundation to fund such projects from Fund proceeds Sonia Folsom (For Possible Action)
- 12. Presentation of General Manager performance for contract year 2021/2022 Mark Foree\*
- 13. Recognition of Mark Foree for his years of service to TMWA as General Manager Vaughn Hartung\*
- 14. General Manager's Report\*
- 15. Public comment limited to no more than three minutes per speaker\*
- 16. Board comments and requests for future agenda items\*
- 17. Hearing on appeal by St. James's Village, Inc. of decision of Hearing Officer in challenge of Water Authority Discovery involving construction and dedication of water distribution facilities for unimproved lots in the St. James's Village development near Joy Lake Road and located in Area 15 of TMWA's service territory (Annexation 1H- 2C; PLL #21-8275) — Paul Lipparelli Special Counsel to the Board (For Possible Action)
- 18. Adjournment (For Possible Action)

# TRUCKEE MEADOWS WATER AUTHORITY DRAFT MINUTES OF THE JULY 26, 2022 MEETING OF THE BOARD OF DIRECTORS

The Board of Directors met on Tuesday, July 26, 2022, at Sparks Council Chambers. Chair Hartung called the meeting to order at 9:01 a.m.

## 1. ROLL CALL

**Directors Present:** \*\*Paul Anderson, Jenny Brekhus, \*Kristopher Dahir, \*Naomi Duerr, \*Vaughn Hartung, \*Neoma Jardon, and \*Alternate Bob Lucey.

Director Absent: Alexis Hill

A quorum was present.

\*Indicates Directors who attended the meeting virtually.

\*\*Director Anderson attended virtually and arrived at 9:36 a.m.

## 2. PLEDGE OF ALLEGIANCE

The pledge of allegiance was led by Director Brekhus.

## 3. PUBLIC COMMENT

There was no public comment.

## 4. POSSIBLE BOARD COMMENTS OR ACKNOWLEDGEMENTS

There were no Board comments.

## 5. APPROVAL OF THE AGENDA

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

## 6. APPROVAL OF THE MINUTES OF THE JUNE 15, 2022 MEETING

Upon motion by Director Jardon, second by Director Duerr, which motion duly carried by unanimous consent of the Directors present, the Board approved the June 15, 2022 minutes.

# 7. DISCUSSION AND ACTION ON NOMINATION AND ELECTION OF CHAIRMAN AND VICE CHAIRMAN AND REQUEST FOR BOARD ADOPTION OF RESOLUTION NO. 305 APPOINTING A CHAIRMAN AND VICE CHAIRMAN FOR FISCAL YEAR 2023

Mark Foree, TMWA General Manager, presented the staff report.

Director Brekhus pointed out that a Director sitting on the Board from City of Reno has never been Chair, and nominated Director Duerr as Chairperson for FY2023. The motion failed.

Director Duerr thanked Director Brekhus for the nomination.

Upon motion by Director Lucey, second by Director Dahir, which motion duly carried five to one with Director Brekhus dissenting, the Board adopted Resolution No. 305: A resolution appointing Vaughn Hartung as Chairman for Fiscal Year 2023.

Upon motion by Director Hartung, second by Director Jardon, which motion duly carried five to one with Director Brekhus dissenting, the Board adopted Resolution No. 305: A resolution appointing Kristopher Dahir as Vice Chairman for Fiscal Year 2023.

# 8. DISCUSSION AND ACTION REGARDING TERMS FOR AND POSSIBLE APPROVAL OF GENERAL MANAGER EMPLOYMENT AGREEMENT WITH JOHN ZIMMERMAN

Jessica Atkinson, TMWA Director of Human Resources, and Lucas Foletta, TMWA General Counsel, presented the General Manager agreement for John Zimmerman. Ms. Atkinson stated Mark Foree would retain his authority as General Manager until October 15<sup>th</sup>, 2022, ensuring approximately three months overlap for transition.

Members of the Board discussed specifics about the terms of the agreement: length (two years with an auto two-year extension), personal time off (amount and carryover), performance evaluation process, and stipulating at least four months of notice be given, should Zimmerman elect to terminate the agreement for any reason additionally, if the extension is exercised, the parties will meet and confer at least 5 months prior to the expiration of the extension.

Upon motion by Director Dahir, second by Director Duerr, which motion duly carried by unanimous consent of the Directors present, the Board approved the terms for the General Manager employment agreement with John Zimmerman effective July 26, 2022.

# 9. DISCUSSION AND ACTION, AND POSSIBLE AUTHORIZATION FOR THE TMWA GENERAL MANAGER TO ENTER INTO AN AGREEMENT WITH NV ENERGY OBLIGATING TMWA TO PROVIDE UP TO 400 ACRE-FEET OF WATER IN DROUGHT YEARS IN EXCHANGE FOR USE OF 1,400 ACRE-FEET OF WATER RIGHTS IN NON-DROUGHT YEARS AND A RIGHT OF FIRST REFUSAL TO PURCHASE NV ENERGY'S TRUCKEE RIVER WATER RIGHTS

Stefanie Morris, TMWA Director of Legal & Regulatory Affairs, and Bill Hauck, TMWA Water Supply Supervisor, presented the staff report. Ms. Morris introduced Ryan Bellows, Vice President of Government & External Relations at NV Energy, if the Board had any questions.

Ms. Morris thanked the Board for their consideration of this agreement and explained that the agreement is not a permanent commitment to NV Energy's water rights, but allowing for TMWA a right of first refusal to purchase their Truckee River water rights is very reassuring for TMWA customers and the region. She added that she has been in communication with the Pyramid Lake Paiute Tribe (the "Tribe") prior to finalizing the agreement and posting the agenda prior to today's meeting, but there were no questions or concerns raised until yesterday, Monday July 25<sup>th</sup>, afternoon, where staff was asked to pull the agenda item.

At this time, the Board inquired if the agreement would return to the Board before the extension (no, it would not), if there was any potential of violating the Truckee River Operating Agreement (TROA) with this agreement (no, under TROA TMWA is authorized to use its privately owned stored water as it sees fit), and since the Tribe requested a delay in approving the agreement for it to be considered at a later time after discussing, and working, with the Tribe on some of their concerns.

Mr. Bellows confirmed the Tracy plant was natural gas powered and it serves customers throughout the state in particular northern Nevada, but occasionally can transport to southern Nevada, and renewable resources are likely sold to other states and California.

Mr. Bellows echoed Ms. Morris that this is a win-win, for TMWA, NV Energy and community. An agreement that will benefit the community for years to come and grateful to have TMWA as a partner and TMWA staff for their collaboration and urged the Board for their support of this agenda item.

Upon motion by Alternate Lucey, second by Director Jardon, which motion duly carried six to one with Director Brekhus dissenting, the Board authorized the General Manager to enter into an Agreement with NV Energy obligating TMWA to provide up to 400 acre-feet of water in drought years in exchange for use of 1,400 acre-feet of water rights in non-drought years and a right of first refusal to purchase NV Energy's Truckee River water rights.

# 10. DISCUSSION AND ACTION ON RESOLUTION NO. 306: A RESOLUTION TO APPROVE FUNDING FOR THE PROJECTS RECOMMENDED BY THE TRUCKEE RIVER FUND ADVISORY COMMITTEE AND AN AUTHORIZATION FOR THE COMMUNITY FOUNDATION TO FUND SUCH PROJECTS FROM FUND PROCEEDS

Sonia Folsom, TMWA Executive Assistant, and Kara Steeland, TMWA Hydrologist, presented the Truckee River Fund Advisory Committees recommendation for the Board to approve The Nature Conservancy's project for tree thinning and fuel reduction around the outlet channel at Independence Lake.

Upon motion by Director Jardon, second by Director Brekhus, which motion duly carried by unanimous consent of the Directors present, the Board adopted Resolution No. 306: A resolution to approve funding for the projects recommended by the Truckee River Fund Advisory Committee and an authorization for the Community Foundation to fund such projects from Fund proceeds.

## 11. GENERAL MANAGER'S REPORT

Mr. Foree reminded the Board TMWA's annual picnic is on Sat, Aug 20<sup>th</sup> at Verdi Hydro Park, the Mt. Rose Water Treatment Plant Open House was a success (about 125 people attended), and the National Journal recognized TMWA and the Lady Bug project.

## 12. PUBLIC COMMENT

There was no public comment.

# 13. BOARD COMMENTS AND REQUESTS FOR FUTURE AGENDA ITEMS

Director Brekhus expressed frustration, after spending four hours reviewing the appeal brief, with regards to pulling the St. James Appeal Hearing from the July Board meeting agenda, and why it is been pushed to the September meeting and not the August meeting.

Chair Hartung reopened agenda item 11 due to extended discussions about future meetings.

# 11. GENERAL MANAGER'S REPORT

Mr. Foree replied that the August Board meeting is cancelled and that is the reason the St. James Appeal Hearing is scheduled for September.

Director Duerr inquired what other items would be on the September agenda. Ms. Folsom replied the general manager's evaluation and recognition of Mr. Foree's years of service.

## 14. ADJOURNMENT

With no further discussion, Chair Hartung adjourned the meeting at 10:10 a.m.

Approved by the TMWA Board of Directors in session on \_\_\_\_\_\_.

Sonia Folsom, Board Clerk.

\*\*Director Anderson was present for agenda items 9 thru 14 only.

## TRUCKEE MEADOWS WATER AUTHORITY (TMWA)

## **RESOLUTION NO. 307**

## A RESOLUTION RECOGNIZING SUSAN OLDHAM AND SUPPORT THE RENAMING OF CONE PEAK AS SUE'S PEAK

**WHEREAS,** the successful negotiations leading to the adoption of the Truckee River Operating Agreement has provided the Truckee Meadows Water Authority's customers with a secure water supply and provided health and ecological benefits to the Truckee River;

**WHEREAS,** Susan Oldham helped lead the Truckee Meadows Water Authority to a successful completion of the Truckee River Operating Agreement, securing upstream storage for our region and resolving decades of litigation; and

**WHEREAS,** in recognition of Susan Oldham's contributions and critical role in the Truckee River Operating Agreement, her tireless energy, political savvy, and steadfast determination to secure the water supply for the region, the Truckee Meadows Water Authority adopts this resolution.

**Be it Resolved that:** With extreme gratitude, the Truckee Meadows Water Authority supports the renaming of the landmark known as Cone Peak, located in the Humboldt-Toiyabe National Forest at approximately 39.4565 degrees N Latitude and 119.97966 degrees W Longitude, to "Sue's Peak," in recognition of Susan Oldham and her efforts to the successful negotiation of the Truckee River Operating Agreement, which will benefit this region for decades to come.

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

Upon motion of \_\_\_\_\_\_ seconded by \_\_\_\_\_, the foregoing Resolution was passed and adopted on September 21, 2022 by the following vote of the Board:

Ayes: \_\_\_\_\_

Nays: \_\_\_\_\_

Abstain: \_\_\_\_\_

Absent: \_\_\_\_\_

Approved September 21, 2022

Vaughn Hartung, Chairman



TO:	Board of Directors
<b>THRU:</b>	Mark Foree, General Manager
FROM:	Matt Bowman, Chief Financial Officer
DATE:	September 12, 2022
SUBJECT:	Presentation of Fiscal Year 2022 Q4 Financial Results

## **Summary**

Please refer to Attachments A-1 and A-2 for full Statements of Revenues, Expenses and Changes in Net Position for both actual to budget and year-over-year comparisons as discussed in the report below.

Budget to Actual

	Actual	Budget		
	YTD 2022	YTD 2022	Variance \$	Variance %
CHANGE IN NET POSITION	\$ 46,421,218	\$ 37,582,247	\$ 8,838,971	24 %

Change in net position was \$8.8m or 24% higher than budget in 2022. This was driven by higher capital contributions and higher operating income, offset by higher nonoperating expenses.

Year over Year

	Actual	Actual		
	YTD 2022	YTD 2021	Variance \$	Variance %
CHANGE IN NET POSITION	\$ 46,421,218	\$ 44,423,024	\$ 1,998,194	4 %

Change in net position was \$2.0m or 4% higher than the prior year. This was also due to higher capital contributions and operating income, offset by higher nonoperating expenses.

## **Revenue**

## **Budget to Actual**

	Actual	Budget		
	YTD 2022	YTD 2022	Variance \$	Variance %
OPERATING REVENUES				
Charges for Water Sales	107,990,310	108,503,854	(513,544)	— %
Hydroelectric Sales	2,551,333	1,837,239	714,094	39 %
Other Operating Sales	3,850,727	2,219,679	1,631,048	73 %
Total Operating Revenues	114,392,370	112,560,772	1,831,598	2 %

Operating revenue was \$1.8m (2%) higher than budget through Q4 2022. Other operating revenue was higher by \$1.6m while water sales and hydroelectric sales were higher by \$0.2m, combined. Other operating sales were higher than budget in FY 2022 due to higher than expected new business inspection fees, late fees on past due accounts and customer service call out charges. Each of these items had been impacted by the pandemic in both FY 2020 and FY 2021 and the recovery of these amounts in FY 2022 was underestimated in the budget.

## Year over Year

	Actual	Actual		
	YTD 2022	YTD 2021	Variance \$	Variance %
OPERATING REVENUES				
Charges for Water Sales	107,990,310	109,822,836	(1,832,526)	(2)%
Hydroelectric Sales	2,551,333	2,768,274	(216,941)	(8)%
Other Operating Sales	3,850,727	2,803,513	1,047,214	37 %
Total Operating Revenues	114,392,370	115,394,623	(1,002,253)	(1)%

Total operating revenues were \$1.0m lower in 2022 than the prior year. Water sales was \$1.8m lower than prior year due to lower consumption offset by two 2.5% rate increases in June 2021 and 2022. Hydroelectric sales were lower by \$0.2m due to low river flows in the late summer months in FY 2022 which forced the plants to be taken offline. Lastly, other operating sales were higher by \$1.0m due to the reasons stated above.

## **Operating Expenses**

### **Budget to Actual**

	Actual	Budget		
	YTD 2022	YTD 2022	Variance \$	Variance %
OPERATING EXPENSES				
Salaries and Wages	24,735,686	26,634,314	(1,898,628)	(7)%
Employee Benefits	7,461,199	11,622,696	(4,161,497)	(36)%
Services and Supplies	32,281,749	32,188,000	93,749	— %
Total Operating Expenses Before Depreciation	64,478,634	70,445,010	(5,966,376)	(8)%
Depreciation	33,642,537	34,234,118	(591,581)	(2)%
Total Operating Expenses	98,121,171	104,679,128	(6,557,957)	(6)%

Total operating expenses were \$6.6m lower (6%) than budget through Q4 2022. Salaries and wages and employee benefits are both lower due primarily to position vacancies. Services and supplies were essentially even with budget. In the second half of 2022, TMWA began to see increases in services and supplies costs due to inflation. Most significantly, power costs increased due to the quarterly base tariff and deferred accounting adjustments from NV Energy. The adjustments are based on costs incurred by NV Energy and quickly passed through to customers. These adjustments have resulted in rate increases of nearly 12% between January and June 2022.

## Year over Year

	Actual	Actual		
	YTD 2022	YTD 2021	Variance \$	Variance %
OPERATING EXPENSES				
Salaries and Wages	24,735,686	23,101,987	1,633,699	7 %
Employee Benefits	7,461,199	11,282,823	(3,821,624)	(34)%
Services and Supplies	32,281,749	30,562,803	1,718,946	6 %
Total Operating Expenses Before Depreciation	64,478,634	64,947,613	(468,979)	(1)%
Depreciation	33,642,537	33,286,373	356,164	1 %
Total Operating Expenses	98,121,171	98,233,986	(112,815)	— %

Year over year operating expenses were \$0.1m lower (less than 1%) than the prior year. Salaries and wages and benefits are higher than prior year due to Labor Market Index (LMI) increases in July 2021, step increases and increases to headcount. Services and supplies are increased from the prior year due to several items, but primarily, higher electrical costs (as discussed above), more spending on contracted services (security and meter replacements), and higher vehicle fuel costs.

## **Non-Operating Expenses**

#### **Budget to Actual**

	Actual	Budget		
	YTD 2022	YTD 2022	Variance \$	Variance %
NONOPERATING REVENUES (EXPENSES)				
Investment Earnings	2,017,060	2,583,886	(566,826)	(22)%
Net Increase (Decrease) in FV of Investments	(10,605,392)	—	(10,605,392)	— %
Gain (Loss) on Disposal of Assets	(938,661)	(750,000)	(188,661)	25 %
Amortization of Bond/note Issuance Costs	801	(133,000)	133,801	(101)%
Interest Expense	(11,954,097)	(11,880,610)	(73,487)	1 %
Total Nonoperating Revenues (Expenses)	(21,480,289)	(10,179,724)	(11,300,565)	111 %

Nonoperating expenses were \$11.3m higher (111%) than budget in FY 2022. This is primarily due to a net decrease in fair value of investments of \$10.6m. Five and ten year treasury yields have increased significantly since July 2021. Five year treasury yield rate was 0.89% on July 1, 2021 and 3.01% on June 30, 2022. Investment earnings are also lower than budget due the amortization of investment premiums which have not been historically considered in the investment income budget. As rates are rising, maturing securities are reinvested at higher rates, which will lead to higher investment earnings in fiscal year 2023.

#### Year over Year

	Actual	Actual		
	YTD 2022	YTD 2021	Variance \$	Variance %
NONOPERATING REVENUES (EXPENSES)				
Investment Earnings	2,017,060	2,550,864	(533,804)	(21)%
Net Increase (Decrease) in FV of Investments	(10,605,392)	(2,389,723)	(8,215,669)	344 %
Gain (Loss) on Disposal of Assets	(938,661)	(1,755,873)	817,212	(47)%
Amortization of Bond/note Issuance Costs	801	(235,494)	236,295	(100)%
Interest Expense	(11,954,097)	(12,262,581)	308,484	(3)%
Total Nonoperating Revenues (Expenses)	(21,480,289)	(14,092,807)	(7,387,482)	52 %

Nonoperating expenses were higher by \$7.4m or 52% in FY 2022 compared the prior year. This is due primarily to reasons discussed above.

## **Capital Contributions**

## **Budget to Actual**

	Actual	Budget		
	YTD 2022	YTD 2022	Variance \$	Variance %
CAPITAL CONTRIBUTIONS				
Grants	2,199,236	1,350,000	849,236	63 %
Water Resource Sustainability Program	1,409,024	607,168	801,856	132 %
Developer Infrastructure Contributions	18,167,149	18,177,481	(10,332)	— %
Developer Will-serve Contributions (Net of Refunds)	4,436,788	2,884,048	1,552,740	54 %
Developer Capital Contributions - Other	11,835,501	9,360,299	2,475,202	26 %
Developer Facility Charges (Net of Refunds)	12,862,787	7,301,331	5,561,456	76 %
Contributions from Others	719,822	200,000	519,822	260 %
Net Capital Contributions	51,630,308	39,880,327	11,749,981	29 %

Capital contributions were \$11.7m (29%) higher than budget in FY 2022. One of the large variances is grant revenue. In Q2 FY 2022, TMWA received the FEMA award for the Glendale diversion rebuild following the 2017 flood event. The remaining line items in this category reflect new business/growth related collections and the budget overage is reflective of both larger projects and also continued high volume of projects being processed through TMWA. These amounts are materially consistent with the prior year as shown below.

## Year over Year

	Actual	Actual		
	YTD 2022	YTD 2021	Variance \$	Variance %
CAPITAL CONTRIBUTIONS				
Grants	2,199,236	_	2,199,236	— %
Water Resource Sustainability Program	1,409,024	1,708,110	(299,086)	(18)%
Developer Infrastructure Contributions	18,167,149	10,201,446	7,965,703	78 %
Developer Will-serve Contributions (Net of Refunds)	4,436,788	5,632,381	(1,195,593)	(21)%
Developer Capital Contributions - Other	11,835,501	11,461,850	373,651	3 %
Developer Facility Charges (Net of Refunds)	12,862,787	12,218,607	644,180	5 %
Contributions from Others	719,822	132,800	587,022	442 %
Net Capital Contributions	51,630,308	41,355,194	10,275,114	25 %

Year over year, capital contributions are \$10.3m or 25% higher in 2022. This is driven mostly by developer infrastructure contributions and grants which were higher by \$8.4m and \$2.2m, respectively. Developer infrastructure contributions, which do not impact cash flow, can vary quarter to quarter depending on the ability to close out projects. There was no grant revenue recognized in all of FY 2021. Other developer contributions (will serves, facility fees, area fees, etc.) were relatively flat compared to the prior year.

## **Capital Spending**

Cash spent on capital outlays and construction projects in FY 2022 was approximately \$40.8m, compared to a budget of \$60.1m. Spending on the top three projects for the year were-

Disk Drive BPS	\$4.7m
Humboldt-S. Monroe Main Replacement	\$2.7m
Prater Tank Rehabilitation	\$2.6m

## **Cash Position**

At June 30, 2022 total cash on hand was \$228.6m or \$1.0m lower than at the beginning of the fiscal year. Of the total cash on hand, \$169.2m was unrestricted to be used to meet upcoming and future operating and maintenance expenses, principal and interest payments and construction project payments. The remaining \$59.4m was restricted to pay for scheduled bond principal and interest payments as well as maintaining required reserves as stipulated in our bond covenants.

# **Truckee Meadows Water Authority**

Comparative Statements of Revenues, Expenses and Changes in Net Position For the twelve months ended June 30, 2022

		Actual	Budget	Variance	Marianaa 9/
OPERATING REVENUES		YTD 2022	YTD 2022	Variance \$	Variance %
Charges for Water Sales	\$	107 990 310	\$ 108,503,854	\$ (513,544)	— %
Hydroelectric Sales	Ψ	2,551,333	1,837,239	<sup>(313,344)</sup> 714,094	— % 39 %
Other Operating Sales		3,850,727	2,219,679	1,631,048	73 %
		114,392,370	112,560,772	1,831,598	2 %
Total Operating Revenues OPERATING EXPENSES		114,392,370	112,300,772	1,051,590	2 /0
Salaries and Wages		24,735,686	26,634,314	(1,898,628)	(7)%
Employee Benefits		7,461,199	11,622,696	(4,161,497)	(7)%
Services and Supplies		32,281,749	32,188,000	93,749	· · ·
			· · ·	· · ·	— %
Total Operating Expenses Before Depreciation		64,478,634	70,445,010	(5,966,376)	(8)%
Depreciation		33,642,537	34,234,118	(591,581)	(2)%
Total Operating Expenses		98,121,171	104,679,128	(6,557,957)	(6)%
		16,271,199	7,881,644	8,389,555	106 %
NONOPERATING REVENUES (EXPENSES)		0.047.000	0.500.000	(500.000)	(22)3(
Investment Earnings		2,017,060	2,583,886	(566,826)	(22)%
Net Increase (Decrease) in FV of Investments		(10,605,392)		(10,605,392)	— %
Gain (Loss) on Disposal of Assets		(938,661)	· · · ,	,	25 %
Amortization of Bond/note Issuance Costs		801	(133,000)		(101)%
Interest Expense		(11,954,097)	· · · · ,	· · · ,	1 %
Total Nonoperating Revenues (Expenses)		(21,480,289)	(10,179,724)	(11,300,565)	111 %
Gain (Loss) Before Capital Contributions		(5,209,090)	(2,298,080)	(2,911,010)	127 %
CAPITAL CONTRIBUTIONS					
Grants		2,199,236	1,350,000	849,236	63 %
Water Resource Sustainability Program		1,409,024	607,168	801,856	132 %
Developer Infrastructure Contributions		18,167,149	18,177,481	(10,332)	— %
Developer Will-serve Contributions (Net of Refunds)		4,436,788	2,884,048	1,552,740	54 %
Developer Capital Contributions - Other		11,835,501	9,360,299	2,475,202	26 %
Developer Facility Charges (Net of Refunds)		12,862,787	7,301,331	5,561,456	76 %
Contributions from Others		719,822	200,000	519,822	260 %
Net Capital Contributions		51,630,308	39,880,327	11,749,981	29 %
CHANGE IN NET POSITION	\$	46,421,218	\$ 37,582,247	\$ 8,838,971	24 %

# **Truckee Meadows Water Authority**

Comparative Statements of Revenues, Expenses and Changes in Net Position For the twelve months ended June 30, 2022

		Actual	Actual	Verience	Marian as 0(
OPERATING REVENUES		YTD 2022	YTD 2021	Variance \$	Variance %
	¢	107 000 210	¢ 100.000.000	¢ (1.022.526)	(2)0/
Charges for Water Sales	Ф		\$ 109,822,836	,	(2)%
Hydroelectric Sales		2,551,333	2,768,274	(216,941)	(8)%
Other Operating Sales		3,850,727	2,803,513	1,047,214	37 %
Total Operating Revenues		114,392,370	115,394,623	(1,002,253)	(1)%
OPERATING EXPENSES					
Salaries and Wages	_	24,735,686	23,101,987	1,633,699	7 %
Employee Benefits		7,461,199	11,282,823	(3,821,624)	(34)%
Services and Supplies	_	32,281,749	30,562,803	1,718,946	6 %
Total Operating Expenses Before Depreciation		64,478,634	64,947,613	(468,979)	(1)%
Depreciation		33,642,537	33,286,373	356,164	1 %
Total Operating Expenses		98,121,171	98,233,986	(112,815)	— %
OPERATING INCOME		16,271,199	17,160,637	(889,438)	(5)%
NONOPERATING REVENUES (EXPENSES)					
Investment Earnings		2,017,060	2,550,864	(533,804)	(21)%
Net Increase (Decrease) in FV of Investments		(10,605,392)	(2,389,723)	(8,215,669)	344 %
Gain (Loss) on Disposal of Assets		(938,661)	(1,755,873)	817,212	(47)%
Amortization of Bond/note Issuance Costs		801	(235,494)	236,295	(100)%
Interest Expense		(11,954,097)	(12,262,581)	308,484	(3)%
Total Nonoperating Revenues (Expenses)		(21,480,289)	(14,092,807)	(7,387,482)	52 %
Gain (Loss) Before Capital Contributions		(5,209,090)	3,067,830	(8,276,920)	(270)%
CAPITAL CONTRIBUTIONS					
Grants		2,199,236	_	2,199,236	— %
Water Resource Sustainability Program		1,409,024	1,708,110	(299,086)	(18)%
Developer Infrastructure Contributions		18,167,149	10,201,446	7,965,703	78 %
Developer Will-serve Contributions (Net of Refunds)		4,436,788	5,632,381	(1,195,593)	(21)%
Developer Capital Contributions - Other		11,835,501	11,461,850	373,651	3 %
Developer Facility Charges (Net of Refunds)		12,862,787	12,218,607	644,180	5 %
Contributions from Others		719,822	132,800	587,022	442 %
Net Capital Contributions		51,630,308	41,355,194	10,275,114	25 %
CHANGE IN NET POSITION	\$	46,421,218			4 %



# **STAFF REPORT**

TO:	Board of Directors
<b>THRU:</b>	Mark Foree, General Manager
FROM:	Matt Bowman, Chief Financial Officer
	Marci Westlake, Customer Service Manager
DATE:	September 14, 2022
SUBJECT:	Discussion and possible direction to staff regarding TMWA ombudsman position, staff recommendation to engage Kim Mazeres to fill the position, and possible direction to staff and authorization for General Manager to enter into a contract to engage Kim Mazeres as TMWA ombudsman on the conditions described in the staff report

#### <u>Summary</u>

Staff is seeking direction from the Board on continuing the TMWA ombudsman position. If the Board would like to continue with the position, staff asks the Board to authorize the General Manager to enter into a contract to engage Kim Mazeres as TMWA ombudsman.

#### **Background**

At the April 20, 2005 Board meeting, staff presented a report outlining the purpose of the TMWA ombudsman position. The Board established the position at the July 5, 2005 Board meeting, subsequently selecting the first ombudsman at the September 2005 Board meeting. As presented, the primary purpose is to act as the customer's representative in handling escalated retail water customer complaints that customers prefer to have handled by a Board representative or in assisting customers who desire help in working through normal TMWA processes.

Staff reviewed all ombudsman contacts since 2017. Of 113 contacts, 69 were not applicable (i.e. voicemail left with no return call number, questions not relating to customer service, etc.) and 44 were normal customer service questions or issues that were resolved by TMWA's customer service staff (i.e. questions about how to make payments, questions about their water bill, etc.). While these calls were fielded by the ombudsman, they were resolved by TMWA's customer service staff.

## **Discussion**

TMWA's most recent ombudsman resigned in 2020 and was not immediately replaced due to the pandemic and lack of customers contacting the ombudsman. Staff opened the position in July 2022 and received two applicants, one of which was qualified. If the Board would like to continue with the position, Staff recommends the Board engage Kim Mazeres as TMWA ombudsman (*see attached cover letter and application responses*). Staff recommends the Board authorize the General Manager to negotiate a contract with Ms. Mazeres for ombudsman services, at a rate of \$250.00 per month.

### **Cover Letter**

I am pleased to submit statement of interest for the Ombudsperson position. After retiring from TMWA six years ago, I have remained involved in our Truckee Meadows community through many volunteer organizations, including Rotary and the Tahoe-Pyramid Trail.

The fifteen years I spent at TMWA as the Director of Customer Relations gives me unique qualifications for the position of Ombudsman. I believe I could be helpful in resolving customer issues for both TMWA's customers and TMWA's leadership team.

I did not submit a resume as I do not have an updated one, given my retirement. Should you require one, please let me know.

#### **Ombudsperson**

1. Please describe any special courses, seminars and/or training completed that would facilitate your ability to resolve escalated customer concerns. = The last 20 years of my career was devoted to Customer Service. The 5 years before I came to TMWA, I was the Residential Marketing Manager at Sierra Pacific Power Company for 3 years (now NV Energy), followed by 2 years as Billing and Branch Operations Director.

My initial position at TMWA was Customer Service Manager, where all employees who interacted with our end-use customers reported to me. I built our Customer Service organization from the ground up. I understand utilities. I relate well to customers. And, I enjoy helping people. Not only do I have the qualifications to resolve escalated customer concerns, but I have the unique experience to understand both TMWA's customers and operations.

- 2. Please describe any current or past work experience that would illustrate your ability to effectively handle escalated customer service issues. = During my time at TMWA, I handled countless escalated customer services issues -- from customers outraged at high water bills, to customers despondent that their water had been shut off for non-payment, to customers mad that their neighbors were wasting water. Not only do I have the skills and abilities to listen to customers and help them resolve their issues, but six years into retirement, I am far enough removed from the day-to-day utility operations that I would enjoy these customer interactions.
- 3. Please explain why you are interested in filling an Ombudsperson roll for Truckee Meadows Water Authority. = To help people. Period. Both TMWA customers and TMWA employees.
- 4. Have you ever worked for Truckee Meadows Water Authority? = Yes
- 5. If yes, please provide details (where/when/job title) = **July 2001 July 2016 -- Director** of Customer Relations
- 6. If selected, when would you be able to fill this role? = Immediately



## **STAFF REPORT**

 TO: Board of Directors
 THRU: Mark Foree, General Manager
 FROM: John Enloe, Director of Natural Resources & Planning Janet Phillips, Chairman, Truckee River Fund Advisory Committee
 DATE: September 12, 2022
 SUBJECT: Discussion and possible action on adoption of Resolution No. 308: 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

## **Recommendation**

The Truckee River Fund (the "Fund") Advisors recommend that the TMWA Board authorize by resolution the funding of the following project from the Fund. This recommendation stems from a Fund Advisors' meeting held on August 19, 2022 where five grant proposals from the fall request for proposal (RFP) process was reviewed and discussed. Please refer to the table below to review the amount of funding available, description of the RFP submitted, and recommended, for funding.

Description	<b>Funding Requested</b>	<b>Funding Approved</b>	TRF Budget
Available Funds			\$761,159.55
5 Requested Projects	\$494,818.33		
4 Projects for Approval		\$397,793.00	
Funds Remaining			\$363,366.55

## **RFP** Submitted for Consideration

Project #	Grantee	Description	Proposal Amount	Amount Recommended	Monetary Match	In-Kind Match	Match Total
264	The Truckee River Watershed Council	Lower Hoke Meadow & State of Donner Lake	\$206,000.00	\$206,000.00	\$118,000.00	\$—	\$118,000.00
265	Keep Truckee Meadows Beautiful	2023 Great Community Cleanup, Truckee River Cleanup, Adopt-A-River Program, & Adult and Community Education Program	\$91,585.00	\$81,460.00	\$98,794.00	\$124,720.00	\$223,514.00
267	Sierra Nevada Journeys	Watershed Education Initiative	\$30,542.00	\$30,542.00	\$10,181.00	\$—	\$10,181.00
268	One Truckee River	OTR Broadhead Park Restoration Project: Phase II	\$79,791.00	\$79,791.00	\$20,000.00	\$2,571.74	\$22,571.74
269	Truckee Meadows Parks	Rosewood Nature Study Area: Interpretive Signage Project	\$86,900.00	\$0	\$70,000.00	\$ —	\$70,000.00
Amount T	otals:		\$494,818.00	\$397,793.00			\$444,266.74

## PROJECT RECOMMENDED FOR FUNDING

Project #264: Lower Hoke Meadow and State of Donner Lake

Organization: Truckee River Watershed Council (TRWC)

## **Project Description:**

## Hoke Meadow

Hoke Meadow formerly supported wet meadow habitat but has converted to upland shrub habitat. Riparian and meadow vegetation are confined to the banks of an incised stream channel, down cut approximately 4 - 10 feet below the meadow surface. The existing stream channel through Lower Hoke has been clearly manipulated: it lies on a high spot on the meadow, and several berms and levees have been constructed, likely to confine the stream to the artificial channel. Road construction, pipeline construction, and a buried fiber optic cable have all complicated the current alignment. The Lower Hoke Meadow project was identified through the Boca Watershed Assessment (USDA, 2020), a comprehensive analysis of the Boca sub-basin.

## State of Donner Lake

Donner Lake is a critical resource in the Truckee River watershed, and the Truckee Meadows Water Authority (TMWA) is the primary water rights owner. Donner provides water supply for northern Nevada and is particularly important as drought supply. Yet Donner Lake is listed as impaired by the U.S. EPA. Potential pollutant sources include roads, highways, the railroad, commercial and residential development, increased visitation, recreation, and reservoir management. Aquatic invasive species threaten the ecology, economy, and recreation at Donner Lake. Altered precipitation, fire regime, and excessive soil erosion threaten ecosystem resilience. Donner Lake consistently ranks as a high priority for TRWC and our stakeholders (TRWC, Donner Basin Assessment, 2016).

## TMWA Benefit:

The proposed project advances the Fund's Grant Priorities:

I. <u>Aquatic Invasive Species (AIS)</u>. The project includes an assessment of invasive mysid shrimp, crayfish and Asian clam densities at Donner Lake.

II. <u>Watershed Improvements.</u> The Lower Hoke Meadow project is part of a larger ecosystem restoration effort to improve resiliency against wildfire, improve water quality, and enhance wildlife habitat within the Boca watershed (USDA, 2020). The project will directly reduce erosion. Improved wetland function will help to filter nutrients. The State of Donner Lake will help identify and prioritize future watershed improvement projects.

IV. <u>Re-forestation and re-vegetation</u>. Meadow restoration is an effective tool to prevent impacts from drought. Hydrologically functional meadows stay moist throughout the summer months even during dry years (e.g. Balance, 2021). Additionally, functional meadows can act as a fire break in the event of wildfire.

VI. <u>Stewardship and environmental awareness</u>. Lower Hoke Meadow includes a volunteer component – community members will assist with revegetation during TRWC's annual Truckee River Day in October, 2023. Other project outreach activities include a site tour, project presentation, signage, and newsletter articles. The State of Donner Lake is a vital tool to present current conditions, identify areas of concern, and communicate priority actions to the public, stakeholders, and key decision-makers.

VII. <u>Multiple objectives</u>. This project meets several TRF objectives (1, 2, 4, 6, 7, 8).

VIII. <u>Leverage stakeholder assets and participation</u>. Significant funding and in-kind support have already been provided for both the Lower Hoke Meadow and Donner Lake projects. A portion of the support is reflected in the match component of the budget.

Project #265: KTMB's 2023 Great Community Cleanup, Truckee River Cleanup, Adopt-A-River Program, & Adult and Community Education Program

Organization: Keep Truckee Meadows Beautiful (KTMB)

## **Project Description:**

KTMB supports a clean, invasive-weed-free community by educating residents and visitors about the importance of maintaining a healthy watershed and the efficacy of removing litter and invasive weeds to do so. Local park staff report to KTMB that weed removal is often the most challenging aspect of their job. With current staff shortages, the incorporation of weed removal projects prior to weed seeding in the spring is vital and aligns perfectly with the timing of KTMB's Great Community Cleanup. KTMB's Truckee River Cleanup and Adopt-A-River Cleanups educate and engage the community about the presence of weeds, litter, and nonpoint pollution runoff in our watershed and the underlying causes of these challenges. According to Keep America Beautiful, "About 85% of littering is the result of people's attitudes. Changing individual behaviors is the key to preventing litter — and environmental cues can make a difference." By engaging volunteers and community partners in this effort, and by having consistent outreach and messaging to support behavior change, KTMB is helping to better protect the invaluable water resources of the Truckee River.

## **TMWA Benefit:**

V: Support to Rehabilitation of Local Tributary Creeks and Drainage Courses - KTMB will support water quality improvement of local tributary creeks and drainage courses through the GCC, TRC, and Adopt-A-River cleanup programs. These events will engage hundreds of volunteers to remove many tons of litter and green waste from many locations along the Truckee River Corridor and greater watershed.

VI: Stewardship and Environmental Awareness - This project will raise environmental awareness about water, water quality, and watershed protection by utilizing multi-media resources and educational/community presentations to educate residents and visitors about the importance of maintaining a healthy river; how noxious weeds negatively affect native plant communities; and how litter and pollution are harmful to humans, wildlife, and the local environment and economy.

VII: Meet Multiple Objectives - This project meets multiple TRF objectives because it will remove pollution and invasive weeds from our water through cleanups and beautification projects, increase the community's ecological literacy about water quality and conservation through messaging and education, and promote volunteerism to increase environmental stewardship.

VIII: Leverage Stakeholder Assets and Participation - KTMB will collaborate with numerous municipalities, businesses, community groups, and partners to complete the cleanup and education projects proposed. Project sites and activities along the river will be identified by KTMB and local

experts and completed with planning and day-of support from partners to ensure effective programming. Together, KTMB and partners will create a cleaner community while saving taxpayer dollars.

KTMB's 2022 Great Community Cleanup, Truckee River Cleanup, and Adopt-A-River program will also support the following One Truckee River Management Plan objectives.

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

**Project #267:** Watershed Education Initiative

Organization: Sierra Nevada Journeys (SNJ)

## **Project Description:**

Sierra Nevada Journeys (SNJ) proposes an innovative, culturally relevant program for Washoe County area youth that includes a comprehensive approach to watershed education through the Watershed Education Initiative (WEI). The WEI had been an ongoing component of our programs since 2011, made possible thanks to the generous and ongoing support of the Truckee River Fund.

In Summary, the Watershed Education Initiative includes:

- The school-based component includes two in-class lessons (three) hours of in class instruction. Students participate in hands-on lessons 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 Watershed. 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.
- To encourage family engagement, SNJ provides teachers with a template to email parents with a summary and pictures of their child's experience after each unit along with information for family based discussion of the curriculum.
- The volunteer component of the program builds our capacity to involve the local community and broadens accessibility to our programming for low-income schools by helping to keep costs low.

After two years of virtual and hybrid teaching, we were thrilled to return to more in-person instruction during the 2021-22 school year and anticipate primarily in person programming for Fall 2022. However, Sierra Nevada Journeys remains ready and will offer a suite of flexible formats for WEI in case pandemic restrictions return. These formats include: fully in-person programming with a field trip to a local nature site; a hybrid of virtual and in person instruction with a field experience at their schoolyards; fully online with a virtual field experience; or providing lessons to teachers that they could implement independently.

## **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 #268: One Truckee River Brodhead Park Restoration Project: Phase II

Organization: One Truckee River under the Truckee River Foundation

## **Project Description:**

OTR is proposing to commence Phase II of the Project, which directly complements the effort to develop a Framework Plan for the urban stretch of the Truckee River within the Reno-Sparks, Nevada, urban core. The OTR Vegetation Management Master Planning Steering Committee and the City of Reno selected Brodhead Park to be the Project site because the park is: 1) the first location where a "Portland Loo" was installed as part of the OTR River Restroom Project; 2) an area of focused human services outreach with unsheltered river-users, in partnership with the Washoe County and Karma Box Project (Karma Box) River Steward Program and Built for Zero by-name list; and 3) an area where Karma Box has been able to work with the unsheltered river-users to set expectations of behavior related to increasing the care of the park, Loo, and the Truckee River. Brodhead remains an area of focus for OTR, as the OTR Partnership works to complete its prioritized objectives. The City of Reno has been actively involved in Phase I of the Project, providing feedback on the design elements (during three inperson meetings) and offering its resources for implementation. The City is interested in continuing this process at Brodhead and then continuing Framework Plan implementation at other City of Reno Parks, making this Project the first of many implementation-level plans that complement the Framework Plan.

The Project will be completed in three phases.

- **Phase I** (nearly completed) developed a 30% (conceptual) restoration design and Basis of Design Report, in coordination with OTR and the City of Reno. Agencies provided input on design ideas and permitting needs, and the public was asked to provide input on river access. Phase I also created a preliminary implementation plan identifying potential sources of labor and materials (from OTR's partners) for construction to streamline implementation efforts and costs.
- **Phase II** (current phase) will begin with a topographic survey of the project area and will then develop the 60% restoration design and complete a refined cost estimate to take the project through final design and construction (Phase III). Phase II design will also provide clarity on the agency permits/approvals needed and further refine sources for materials for implementation (in coordination with OTR's partners).

• **Phase III** (future phase) will 1) develop the final restoration design and 2) cover restoration implementation, including site preparation, slope stabilization or bioengineering materials, plant materials, and labor for installation. Project installation will be collaborative, using government, nonprofit, and private resources available in the area. The estimated cost is \$150K to \$200K and depends on design elements, permitting requirements, materials/labor provided through the in-kind support, and the outcomes of Phase II. OTR will apply for remaining funds from the Nevada Department of Environmental Protection (NDEP), Conserve Nevada, and Laird Norton Family Foundation in 2022.

## **TMWA Benefit:**

**II. Watershed Improvements:** The Project will create an implementable restoration plan to address critical water quality issues along the urban stretch of the Truckee River. The final restoration plan for the park will be directly implementable and address impaired water quality (turbidity, temperature). Establishment of riparian vegetation and bank stabilization implemented in this Project will reduce erosion and turbidity. Increased river shading will mitigate elevated water temperature to increase hydrological resiliency.

**III. Local Stormwater Improvements:** The Project will develop a restoration plan to establish riparian vegetation along the urban stretch of the Truckee River. The restoration plan for the park will identify vegetation species and bank stabilization measures that increase infiltration and capture stormwater runoff (and associated non-point source pollution) within the Project area. The restoration plan will also inform future bank stabilization projects.

<u>IV. Re-Forestation and Re-Vegetation Projects:</u> The Project will develop and implement a plan to establish riparian trees and groundcover along the urban stretch of the Truckee River. The proposed restoration plan will enhance riparian forest health along the river, increasing wildfire resilience and improving habitat.

<u>VI. Stewardship and Environmental Awareness</u>: During Phases I and II, OTR will engage with the local community to attract stakeholders in the neighborhood who will support the Project's maintenance after implementation. Phase I solicited input from the local neighborhood on river access. Before development of 90% restoration design begins, another community input meeting will be held to obtain feedback on the 60% restoration design. Future implementation will engage the public through volunteer activities and outreach.

## VII. Meet Multiple Objectives: The Project addresses multiple goals and objectives from the OTR

Management Plan (OTRM Plan) and prioritized action items that align with TRF's funding priorities. This Project addresses OTRM Plan Goal 1: Ensure and protect water quality and ecosystem health in the Truckee River; OTRM Plan Objective 1.4: Create a rich and diverse vegetative ecosystem; OTRM Plan Objective 1.4.b: Create an approved vegetative species list to increase biodiversity and shading on lands along the Truckee River; and OTRM Plan Objective 1.4.c: Develop and implement a coordinated vegetation management plan along the river corridor. The Project will also meet the objectives and regulations of multiple agencies with jurisdiction within the Project area; regular coordination with agencies is critical to continued Project success.

<u>VIII. Leverage Stakeholder Assets and Participation:</u> The proposed restoration plan complements the development of the larger Framework Plan and associated tools. OTR's vision for the Framework Plan (being developed through the BOR WaterSMART grant Project) is to create a document that is a guidebook for creating implementable restoration plans. By developing this pilot

restoration implementation plan and executing that plan, the Project team will be able to put different techniques into practice to ensure the Framework Plan and tools are effective. This planning effort will capitalize on and grow existing partnerships. Through the OTR Framework Plan development effort, OTR has formed a vegetation management technical working group (TWG), which includes federal/local government, agency, non-profit, private industry, and local resident representatives. This TWG has been working to identify opportunities to share resources and seek funding to plan and implement restoration projects along the urban stretch of the Truckee River. The Project's Phase I provided an opportunity to reinforce these partnerships and cultivate strong working relationships that have been indispensable to the Project and OTR's larger Framework Plan thus far. Continuing these collaborations through the construction phase will be critical for OTR's credibility in completing similar projects in the future. This proposed Project will leverage OTR's existing vegetation management planning efforts. As a pilot Project, this effort will allow troubleshooting of restoration planning and implementation challenges, so that land managers can more quickly and cost-effectively execute future projects along the urban stretch of the Truckee River. Completing this Project in tandem with the Framework Plan development has helped ensure the Framework Plan serves as a catalyst for future restoration projects.

# Truckee River Fund

Enhancing and protecting our water resources

## **Grant Priorities**

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

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



necessary)

additional page if



Cover Sheet	Date: July 22, 2022					
Organization Name:	Truckee River Watershed Council (TRWC)					
Type: Non-profit	501(c)(3) EIN	501(c)(3) EIN#91-1818748 Governmental entity? No				
Address:	P.O. Box 856	8, Truckee	e CA	96162		
Project Name:	Lower Hoke	Lower Hoke Meadow and State of Donner Lake				
Amount requested: \$206,	,000 Website: www.truckeeriverwc.org					
This funding will be used t		nis	Imp	orove Water Se	curity in Stampede Reservoir and Donner	
sentence with a max of 2	sentences):		Lak	æ.		
Key People:	Director:					
		Lisa Wal	lace			
	Board	Tony Las	hbro	ok		
	Chair:	-		1		
	Project	Name:		Beth Christm	an	
	Contact:					
		Positio	n:	: Senior Director of Restoration		
		Phone:		530-550-8760 x1		
		<b>Favo</b>				
		Fax:				
		Email:				
		Linan.		hchristman@	ptruckeeriverwc.org	
Organization Mission:	We bring th	e commu	inity		the Truckee to restore, protect, and	
organization mission.	•			0		
Has your organization	enhance the Truckee River watershed.					
Has your organization received other grants	If yes,					
from the Truckee River	Date awarded:     Fall 2021       Project title:     Prosser Basin Sediment Reduction Plan			liment Poduction Plan		
Fund?	Project title Amount of			14,000		
Yes x No (use				-		
additional page if	Date awarded: Spring 2021					

TRUCKEE RIVER FUND

Enhancing and protecting our Water resources.

## DESCRIPTION OF PROJECT UNDER CONSIDERATION

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

\$51,250

\$86,500

September 2020

A. Projects that improve bank or channel stabilization and decrease erosion.  $\boxtimes$ 

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.

Bear Creek Lower Meadow Restoration, Phase 2

Restoration for Coldstream Canyon

C. Projects that remove pollution from the Truckee River.

Project title:

Amount of Award:

Date awarded:

Project title: Amount of Award:

- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.<sup>1</sup>
- $\bowtie$ E. Other projects that meet the evaluation criteria.

<sup>&</sup>lt;sup>1</sup> For proposals related to weed control/eradication, contact Lauren Renda at the Community Foundation of Northern Nevada for additional criteria. Irenda@nevadafund.org; 775-333-5499.



Enhancing and protecting our water resources



### NARRATIVE REQUIREMENTS

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

This proposal includes two projects to assist water security in Stampede Reservoir and Donner Lake: Lower Hoke Meadow Restoration and the 2022 "State of Donner Lake" scientific monitoring. Both projects have secured substantial funding but require additional funds for implementation. A shared goal for the two projects is to increase the resiliency of the Truckee River Watershed; specific goals and outcomes are listed below.

<u>Project Goal: Lower Hoke Meadow Restoration</u>. The goal of the project is to hydrologically restore a 25-acre degraded meadow.

Measurable outcomes, methods for measuring and reporting:

C O M M U N I T Y

of Northern Nevada

- 1. Increase climate resilience. Based on recent research, hydrologically restored meadows uptake carbon at high rates (Reed et al., 2020). We will directly monitor carbon uptake in the meadow pre- and post-restoration.
- Acres of meadow restored. We will quantify changes in both meadow hydrology (groundwater levels) and meadow vegetation through implementation of our project monitoring plan to assess the acres restored (target = 25 acres). We will also document response of wildlife (birds, bumble bees) to the restored meadow.

<u>Project Goal: 2022 "State of Donner Lake"</u>. The goal of the project is to evaluate the ecological health of Donner Lake in order to inform local and regional decision-making.

Measurable outcomes, methods for measuring and reporting:

- 1. Data collected. Collect and analyze data on the physical, chemical, and biological health of Donner Lake. Data collection will help identify trends of healthy versus degrading water quality.
- 2. Reporting. Present key findings and recommendations to Core Team Members of the Donner Lake Interagency Partnership for Stewardship (DIPS) and other stakeholders to inform local and regional decision-making.

#### 2. Project location.

Hoke Meadow: Located in Hoke Valley (Sierra County, CA) which is a direct tributary to Stampede Reservoir. Hoke Meadow is located entirely on U.S. Forest Service – Tahoe National Forest Land.

State of Donner Lake: multiple nearshore and offshore data collection locations throughout Donner Lake, CA.

#### 3. Project description.

#### Hoke Meadow

<u>Problem addressed</u>: Hoke Meadow formerly supported wet meadow habitat but has converted to upland shrub habitat. Riparian and meadow vegetation are confined to the banks of an incised stream channel, down cut approximately 4 – 10 feet below the meadow surface. The existing stream channel through Lower Hoke has been clearly manipulated: it lies on a high spot on the meadow, and several berms and levees have been constructed, likely to confine the stream to the artificial channel. Road construction, pipeline construction, and a buried fiber optic cable have all complicated the current alignment.

The Lower Hoke Meadow project was identified through the Boca Watershed Assessment (USDA, 2020), a comprehensive analysis of the Boca sub-basin.

<u>Proposed solution</u>: We have clearly identified the cause of degradation in Hoke Meadow, and our restoration design will address these impacts (see attached site plan). The project will re-engage natural stream channels and block off the artificially straightened, incised gully – restoring appropriate hydrology for wet meadow vegetation. We have used similar approaches in multiple locations, with successful results. A few example projects include Dry Creek Meadow restoration (4 sites), Sardine Meadow Restoration, Davies Merril Phase 1 (10 sites).

Benefits attained: Restoring hydrologic function to the degraded Hoke Meadow confers several benefits:

Increased water security for Stampede Reservoir through improved late season stream flow: Under current conditions, the incised stream channel acts as a drain on the surrounding meadow, decreasing the capacity for shallow groundwater storage that would feed the stream channel in the late summer to improve base flow (Hill, 2012 and references therein). At the nearby Perazzo Meadows project implemented by TRWC, USFS, and the Truckee Donner Land Trust, long-term monitoring has shown that as much as 50% of the base stream flow in the late season (August-September) came from groundwater that remained stored in the system throughout the dry summer months (Balance



of Northern Nevada

# FOUNDATION TRUCKEE RIVER FUND

Enhancing and protecting our Water resources



Hydrologics, 2016). Another similar meadow restoration completed by American Rivers (Indian Valley) showed dramatic improvements in late season stream flow, including converting an intermittent stream to a perennial stream. A 73 acrefoot increase in contribution from the meadow to the stream was measured after restoration (American Rivers, 2016).

Resilience against climate change: The eastern Boca sub-basin has been identified as particularly vulnerable to the impacts of climate change and the restoration design explicitly includes several "climate smart" actions identified to increase resiliency against projected future climate conditions (Point Blue, 2018). Recent research has shown that degraded meadows are a significant source of carbon emissions, whereas hydrologically functional meadows uptake carbon at extremely high rates (Reed et al., 2020).

Wildfire mitigation for Reno: Hoke Meadow is located in an area identified as a high-risk fire zone (USDA, 2020; Vibrant Planet and 34North, 2022) and wildfire in this portion of the Truckee River watershed has a high probability of burning into the Verdi and Reno areas. Hoke Meadow restoration is integrated with a landscape level planning effort to mitigate fire risk in the eastern Boca watershed - the 980-acre Ladybug Forest Health project. When restored, Lower Hoke meadow will help reduce the risk of catastrophic wildfire by acting as a potential fuel break due to the higher moisture content of the vegetation as compared to the unrestored condition. The restored meadow will be better adapted to mitigate effects of post-fire flooding and debris flows (Merrill, 2012).

#### State of Donner Lake

Problem addressed: Donner Lake is a critical resource in the Truckee River watershed, and the Truckee Meadows Water Authority (TMWA) is the primary water rights owner. Donner provides water supply for northern Nevada and is particularly important as drought supply. Yet Donner Lake is listed as impaired by the U.S. EPA. Potential pollutant sources include roads, highways, the railroad, commercial and residential development, increased visitation, recreation, and reservoir management. Aquatic invasive species threaten the ecology, economy, and recreation at Donner Lake. Altered precipitation, fire regime, and excessive soil erosion threaten ecosystem resilience. Donner Lake consistently ranks as a high priority for TRWC and our stakeholders (TRWC, Donner Basin Assessment, 2016).

<u>Proposed solution</u>: The Donner Lake Interagency Partnership for Stewardship (DIPS) was founded in 2020 to protect and enhance the long-term ecological and economic health of Donner Lake. It is a cross-jurisdictional collaboration of local and state agencies, special districts, homeowners' association, and community organizations. Core Team members include TMWA, California State Parks, Tahoe Donner Association, Town of Truckee, Truckee Donner Land Trust, Truckee Donner Public Utility District, Truckee Donner Recreation and Parks District, Truckee Sanitary District, Truckee Trails Foundation, and is facilitated by TRWC at the agreement of the Core Team. DIPS is currently developing the first coordinated stewardship plan as a framework for policy and action to address ongoing use, management, and funding.

A foundational piece of the stewardship plan is the State of Donner Lake, an integrated data set of the ecological and community conditions at Donner Lake. In 2021, DIPS collected a baseline of key physical, chemical, and biological data to characterize current conditions compared to historic and similar environments, identify areas for further analysis, and communicate findings with the public and stakeholders. We found that offshore water quality has improved since the 1970s and 1980s, but nearshore water quality is degrading influenced by factors such as invasive species, runoff, and climate change (UNR and DIPS, 2022).

<u>Benefits attained</u>: The findings from 2021 are critical to understanding the ongoing dynamics of healthy versus degrading water quality ad water security at Donner Lake. In 2022, we will continue to build upon this valuable baseline so we can "check the vital signs" of Donner Lake, identify trends over time, inform decision-making at the local and regional level, direct resources, and maximize opportunities for funding to implement priority data-driven actions.

#### Project work tasks include:

#### 1. Lower Hoke

A. Permitting and environmental compliance. CEQA, NEPA, and environmental permits will be secured for the project prior to construction. We are requesting funds to support annual fee payments.

B. Project Monitoring. To document progress against project outcomes, we will collect monitoring data: groundwater, vegetation, bird population, bee population, soil carbon, photographic, and visual assessment. Pre-project data collection is funded through other sources; we are requesting supplemental funding for post-project monitoring.

of Northern Nevada

FOUNDATION TRUCKEE RIVER FUND

Enhancing and protecting our Water resources



C. Project Implementation. Project construction generally includes: 1) site preparation and BMP installation, 2) Final project layout and construction oversight, 3) topsoil and vegetation salvage from existing gully, 4) fill placement in gully, 5) riffle construction in remnant channels to be re-engaged, 6) installation of 4 additional culverts under County Road to accommodate restored flow paths, 7) revegetation and site stabilization. Implementation is partially funded through other sources; we are requesting supplemental implementation funding.

D. Project Management and Stakeholder Coordination. Work with project partner (USFS) to implement and monitor project success. Conduct outreach. Complete grant management including invoicing and reporting.

#### 2. Donner Lake

A. Data collection. Complete data collection on the physical, chemical, and biological health of Donner Lake.

B. Analysis and reporting. Analyze data to characterize current conditions and identify trends over time. Present key findings and recommendations to DIPS Core Team Members and other stakeholders.

4. Grant priorities. The project advances several of TRF's grant priorities:

I. Aquatic Invasive Species (AIS): The project includes an assessment of invasive mysid shrimp, crayfish and Asian clam densities at Donner Lake.

II. Watershed Improvements. The Lower Hoke Meadow project is part of a larger ecosystem restoration effort to improve resiliency against wildfire, improve water quality, and enhance wildlife habitat within the Boca watershed (USDA, 2020). The project will directly reduce erosion. Improved wetland function will help to filter nutrients. The State of Donner Lake will help identify and prioritize future watershed improvement projects.

IV. Re-forestation and re-vegetation. Meadow restoration is an effective tool to prevent impacts from drought. Hydrologically functional meadows stay moist throughout the summer months even during dry years (e.g. Balance, 2021). Additionally, functional meadows can act as a fire break in the event of wildfire.

VI. Stewardship and environmental awareness. Lower Hoke Meadow includes a volunteer component – community members will assist with revegetation during TRWC's annual Truckee River Day in October, 2023. Other project outreach activities include a site tour, project presentation, signage, and newsletter articles. The State of Donner Lake is a vital tool to present current conditions, identify areas of concern, and communicate priority actions to the public, stakeholders, and key decision-makers.

VII. Multiple objectives. This project meets several TRF objectives (1, 2, 4, 6, 7, 8).

VIII. Leverage stakeholder assets and participation. Significant funding and in-kind support have already been provided for both the Lower Hoke Meadow and Donner Lake projects. A portion of the support is reflected in the match component of the budget.

## 5. Permitting.

Lower Hoke: NEPA, CEQA and Permitting is underway and these activities are funded by other sources. Permits will be obtained in sufficient time for construction in July 2023.

Donner Lake: no permits are required.

#### 6. Future land use.

Lower Hoke: the project site is located on U.S. Forest Service land and is surrounded by Forest Service land. The project was identified through the Boca Watershed Assessment (USDA, 2020), an effort integrated with other adjacent ecosystem restoration efforts such as the Upper Hoke Meadow Restoration, Ladybug Forest Health project, and the East Zone Connectivity project.

Donner Lake: The Town of Truckee is currently updating its General Plan for 2025. Discussion has included increasing density at Donner Lake to increase housing and commercial use. This does not change the proposed work, but emphasizes the need for ongoing monitoring.

7. If **future phases** of the project will be needed, identify anticipated sources of funding. Hoke Meadow: Lower Hoke Meadow is the first phase of restoration, Upper Hoke Meadow is identified for restoration in the near future. We are seeking funding for Upper Hoke from the California Wildlife Conservation Board.



#### COMMUNITY FOUNDATION TRUCKEE RIVER FUND

Enhancing and protecting our water resources.



Quality. Delivered

Donner Lake: We will continue the State of Donner Lake annually. TRWC has committed \$15,000/year for the next three years, and we are approaching Core Team members and other stakeholders to commit increasing cost-share each year.

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

Beth Christman, Senior Director of Restoration with TRWC, will lead the Lower Hoke project. Michele Prestowitz, Project Director with TRWC, will lead the Donner Lake project.

#### 9. Number of staff positions involved in project:

of Northern Nevada

(Part-time) Beth Christman, Michele Prestowitz, and Lisa Wallace (Executive Director, 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 work at Hoke Meadow. We anticipate 25 volunteers will contribute a total of 150 hours to the project. Volunteers will be trained on basic data collection methods for the State of Donner Lake. We anticipate 2-4 volunteers for a total of 4-8 hours for the training.

11.	٦	Гime	Line	of Project.	
			-		

Lower Hoke Meadow					
Task	Completion Date				
A. Permitting and Environmental Compliance	December 31, 2022				
B. Project Monitoring	December 31, 2024				
C. Project Implementation	October 31, 2023				
D. Project Management and Stakeholder Coordination	December 31, 2024				
Donner Lake					
A. Data collection	October 31, 2022				
B. Analysis and reporting	March 31, 2023				

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

Lower Hoke: The Lower Hoke restoration project has a formal monitoring plan (available upon request). Data to document progress against project outcomes will be collected, analyzed, and reported according to the monitoring plan.

Donner: The State of Donner Lake will present key findings and recommendations to inform local and regional decisionmaking. We will be successful if the report is accepted by the DIPS Core Team and key stakeholders.

13. **Collaboration**. List partnerships or collaborations with other entities in relation to your proposal, if any. The Lower Hoke Meadow project is a partnership between TRWC and the U.S. Forest Service – Tahoe National Forest. The State of Donner Lake is part of the DIPS Stewardship Plan. Please see the project description above for a list of DIPS Core Team members.

#### 14. Grant match.

Match amount to be provide	vided: \$118,000			
Match details:	Match is:			
	Cash \$118,000			
	For the cash portion of your match, is the funding already being held by the			
	applicant for this project? Yes _x_ No			
Description of matching	National Fish and Wildlife Foundation \$100,000			
funds:	TRWC \$15,000			
	Truckee Sanitary District \$3,000			





Enhancing and protecting our Water resources



**REIMBURSEMENT REPORT** 

#### **ORIGINAL PROJECT BUDGET**

COMMUNITY

FOUNDATION

of Northern Nevada

		COLOT DODOLI	Reiniboroement Rei orti			
Budget Item Description*	TRF \$	Other Funding Name**	Match \$	Total	Expenditures to date TRF	Expenditures to date (other sources)
Lower Hoke: Permitting	\$600			\$600		
Lower Hoke: Monitoring Lower Hoke:	\$38,500	NFWF	\$10,000	\$48,500		
Implementation Lower Hoke: Project Management and Stakeholder	\$134,520	NFWF	\$90,000	\$224,520		
Coordination	\$15,230	Truckee River Watershed Council, Truckee Sanitary		\$15,230		
State of Donner Lake	\$17,150	District	\$18,000	\$35,150		
TOTAL	\$206,000		\$118,000	\$324,000	\$xx.xxx	\$x,xxx

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

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

Date awarded:	March 2019
Project title:	McIver Dairy Meadow Restoration Project
Amount of Award	\$161,000
Date awarded:	October 2018
Project title:	Truckee River Water Quality Monitoring Program
Amount of Award	\$25,000
Date awarded:	October 2018
Project title:	Restoration Projects: Donner Creek and Dry Creek Meadow
Amount of Award	\$92,000
Date awarded:	March 2018
Project title:	Truckee Meadows Restoration Project – Phase 2 Construction
Amount of Award	\$30,000
Date awarded:	October 2017
Project title:	Truckee River Tributaries Sediment Reduction Project
Amount of Award	\$165,000
Date awarded:	March 2017
Project title:	Big Chief, F4M Restoration Culvert Outflows
Amount of Award	\$50,000
Date awarded:	September 2016
Project title:	Donner Creek Bank Stabilization Downstream of Railroad Culvert Final Design
Amount of Award	
Date awarded:	\$90,000 March 2017
	F4M Restoration Culvert Outflow
Project title: Amount of Award	
Date awarded:	\$50,000 September 2016
	September 2016
Project title:	Donner Creek Concept Designs
Amount of Award	\$40,000 September 201(
Date awarded:	September 2016
Project title:	Donner Creek Bank Stabilization
Amount of Award	\$92,000
Date awarded:	April 2016
Project title:	Johnson Canyon West #2
Amount of Award	\$67,000
Date awarded:	October 2015
Project title:	Johnson Canyon West #1
Amount of Award	\$25,000
Date awarded:	September 2014
Project title:	Donner Lake Watershed Assessment
Amount of Award	\$70,000
Date awarded:	March 2014
Project title:	Truckee Wetlands Restoration – Phase 3,4, & 5 – Design
Amount of Award	\$50,000

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

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

# Hoke Valley Meadow Restoration Project

- PHASE 1 -Proposed Restoration Actions

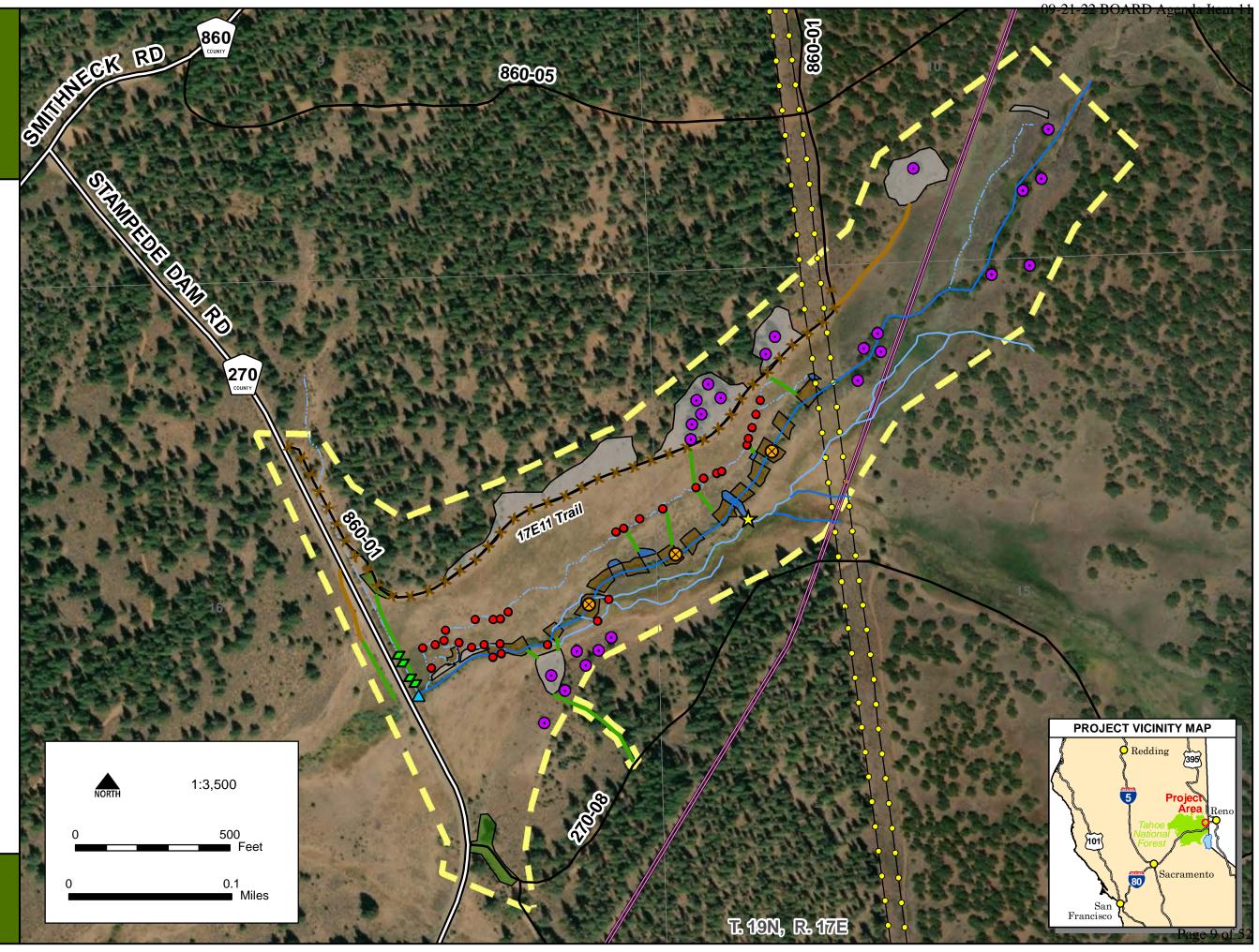
Project Boundary **Restoration Actions** Add Culvert  $\diamond$ Modify Culvert Δ ☆ Pond Exit Construct Riffle • Remove Gabion  $\otimes$ Tree Removal / Thinning  $oldsymbol{\circ}$ Borrow **Existing Staging** Fill Pond Excavation **Route Features / Actions** Access Route Existing Disturbed Route **X X** Decommission County Road ML-2 Road Perennial Stream Intermittent Stream Ephemeral Stream – Petroleum Pipeline

•—• Powerline

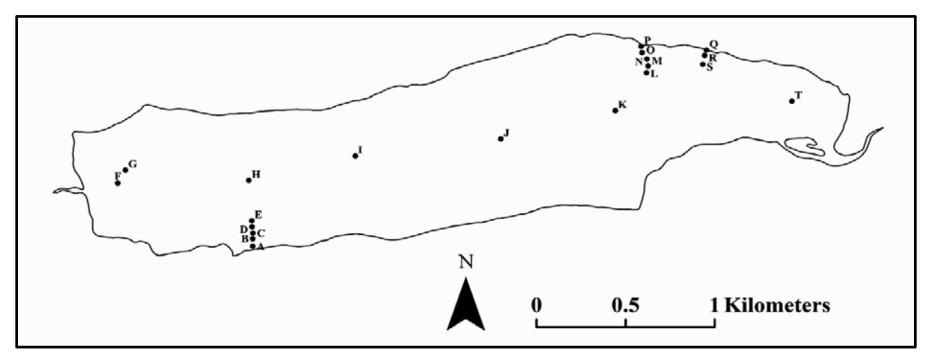


Forest Service Tahoe National Forest Truckee Ranger District

United States Department of Agriculture



# State of Donner Lake Collection Locations



Site	Data Collection Activities	
А	Nearshore temperature, nearshore oxygen, benthic invertebrates (3 meters depths)	
B-E	Benthic invertebrates (10, 20, 30, 40 meters depth)	
F	Gill nets (~20 meters depth)	
G	Gill nets, mysid collections in 1978-1980 and 2021-2022 (~40 meters depth)	
Н	Light profile, secchi depth, nutrient profile, temperature profile, dissolved oxygen profile, chlorophyll a profile (~70 meters depth)	
I-K	Mysid collections in 1978-1980 and 2021-2022 (40, 50, 60 meters depth)	
L	Gill nets, crayfish sampling (30 meters depth)	
M-P	Crayfish sampling (3, 10, 15, 20 meters depth)	
Q	Air particulate concentration (PM <sub>2.5</sub> ), surface radiation	
R	Nearshore temperature, nearshore oxygen (~3 meters depth)	
S	Gill nets (~20 meters depth)	
Т	Mysid collections in 1978-1980 and 2021-2022 (~15 meters depth)	

#265



#### 2022-2023 Fall Proposal to the Truckee River Fund

**Organization Name:** Keep Truckee Meadows Beautiful (KTMB) Type: 501(c)(3) EIN# 88-0254957 Governmental entity? No Address: P.O Box 7412 Reno, NV 89510 **Project Name:** KTMB's 2023 Great Community Cleanup, Truckee River Cleanup, Adopt-A-River Program, & Adult and **Community Education Program** Website: www.ktmb.org Amount requested: \$91,585 This funding will be used to Funds requested in this proposal will support the following efforts in KTMB's 2023 calendar year: removing invasive weeds and trash along the Truckee River corridor tributaries during KTMB's Great Community Cleanup and Truckee River Cleanup; monitoring the impact of KTMB cleanup efforts; engaging year-round cleanup support through KTMB's Adopt-A-River program, and providing community education and outreach to decrease environmental threats to the Truckee River. **Key People: Director:** Mark Cameron, Executive Director **Board Chair:** Aaron Altshuler **Project Contact:** Name: Matt Bruback **Position: Development Manager** Phone: 775-851-5185 Fax: N/A Email: mbruback@ktmb.org Keep Truckee Meadows Beautiful (KTMB) is a 501(c)3 nonprofit dedicated to creating a more sustainable **Organization Mission:** and beautiful region through waste reduction, education, and active community involvement. Has your organization received other grants from the Truckee River Fund? Yes X (Attached in additional page)

#### DESCRIPTION OF PROJECT UNDER CONSIDERATION

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

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

#### NARRATIVE REQUIREMENTS

1. Specific project goals and measurable outcomes and how you will measure and report them: Keep Truckee Meadows Beautiful (KTMB) is a 501(c)3 nonprofit that has been dedicated to creating a more sustainable and beautiful region for 33 years. KTMB believes in improving the quality of life for all who live in and visit the Truckee Meadows and accomplishes this through waste reduction and beautification, adult and youth education, and active community involvement. KTMB respectfully requests continued funding in 2023 to accomplish four specific project goals: remove invasive weeds and trash from the Truckee River Watershed during KTMB's Great Community Cleanup and Truckee River Cleanup; monitor the impacts of KTMB cleanup efforts; engage year-round cleanup support through KTMB's Adopt-A-River program; and provide community education and outreach to decrease environmental threats to the Truckee River. As a result, KTMB will build strategic partnerships that protect and conserve the Truckee River, expand thriving litter and invasive weed removal projects throughout the watershed, and educate residents on steps they can take to protect our water. The measurable outcomes of this project are detailed below.

#### Great Community Cleanup (GCC) – Spring 2023

- Engage a minimum of 700 volunteers to participate in litter clean up and weed removal efforts at the event;
- Of those 700 volunteers, recruit and coordinate a minimum of 125 volunteers to pull invasive weeds at weed sites;
- Remove 15-20 tons of trash, invasive weeds, and green waste from the Truckee River watershed;
- Provide invasive weed, recycling and litter-reduction education to volunteers at Great Community Cleanup sites and the post-cleanup Volunteer Picnic to educate participants on being "Zero Waste." The event should be as close to "Zero Waste" as possible, with a picnic and zero waste efforts still in line with current public health and safety guidelines in place at the time of the event;
- Involve a minimum of 100 youth volunteers through new and existing youth program partnerships;
- Survey volunteers participating in weed-related projects and analyze results to determine the success and impact of the event;



- Work with partners to identify and target a minimum of six invasive weed "hot spots" along Truckee River tributaries for weed removal and native plant restoration;
- Support accurate mapping of invasive weed zones as tracked by the Washoe Storey Cooperative Weed Management Authority (WSCWMA);
- Enhance event marketing and outreach efforts with Adopt-A-River groups to increase their participation in the 2023 Great Community Cleanup;

#### Truckee River Cleanup (TRC) – Fall 2023

- Engage a minimum of 600 volunteers to participate in a river clean up, storm drain stenciling, and weed removal;
- Remove 15-20 tons of trash, green waste, and invasive weeds from the Truckee River corridor and adjacent watershed at cleanup locations from Verdi to Lockwood;
- Involve a minimum of 100 youth volunteers through new and existing youth program partnerships;
- Work with park and natural area staff to identify and wrap trees as needed along the river corridor;
- Provide invasive weed, recycling and litter-reduction education to volunteers at Great Community Cleanup sites and the post-cleanup Volunteer Picnic to educate participants on being "Zero Waste." The event should be as close to "Zero Waste" as possible, with a picnic and zero waste efforts still in line with current public health and safety guidelines in place at the time of the event;
- Maximize resources and community awareness efforts by stenciling a minimum of 100 storm drains in conjunction with the City of Reno (as all drains flow to the river!);
- Survey event participants and compile analyzed results to determine the success and impact of the event;
- Host 20 "on the river" volunteers including kayakers, fly-fishers, and WET team Emergency Response personnel to remove debris from within the river;
- Spread Christmas tree mulch for soil erosion projects and to inhibit weed growth.
- Remove graffiti as needed.

#### Adopt-A-River 2023

- In response to the changing conditions of the Truckee River associated with our growing community, KTMB will work with municipal partners to update KTMB's annual Litter Index Survey and dedicate a section completely to the Truckee River corridor. Survey results will help KTMB staff identify areas that need adoption;
- The Adopt-A-River program will also include a Litter Survey before each cleanup. Areas are rated based on a scale of 1-4: 1, meaning "virtually no litter"; and 4, indicating "major illegal dump site". These surveys will show the impact of the Adopt-A-River program;
- Recruit and retain adopters and volunteers to be stewards of river corridor and watershed areas;
- Conduct a minimum of 15 river-specific cleanups through the Adopt-A-Spot Program;
- Engage 150 volunteers in river-related cleanup efforts;
- Remove 5 tons of invasive weeds and trash from the Truckee River corridor.

#### Adult and Community Education 2023

- Communicate the negative impacts non-point source pollutants have on our local watershed in order to enhance water quality and conserve water resources;
- KTMB will convey the importance of preserving our natural ecosystem and native plant species, and keeping invasive and noxious weeds from spreading as they can contribute to intense fires in the summer and are a health risk to humans and our wildlife;
- KTMB will coordinate "River Walks" as an educational and outreach effort along the river corridor;
- KTMB will conduct a minimum of 20 Community and Adult education presentations about our watershed, invasive weeds, and litter topics to reach a minimum of 500 community members from local businesses, organizations, community groups, etc.;
- Expand stewardship, environmental awareness, and educator support in Washoe County by conducting at least 3 educator outreach and training events throughout the year;
- Promote ecological literacy and environmental stewardship messaging using digital outreach.
- 2. **Project location:** The Great Community Cleanup (GCC), Truckee River Cleanup (TRC), and Adopt-A-River cleanups are conducted throughout the Truckee River Watershed at locations along the river corridor and tributaries. Educational programs will be conducted at locations throughout the Truckee Meadows. KTMB will work with local municipalities and watershed experts to determine storm drain stenciling locations for the 2023 TRC.



3. Project description: KTMB supports a clean, invasive-weed-free community by educating residents and visitors about the importance of maintaining a healthy watershed and the efficacy of removing litter and invasive weeds to do so. Local park staff report to KTMB that weed removal is often the most challenging aspect of their job. With current staff shortages, the incorporation of weed removal projects prior to weed seeding in the spring is vital and aligns perfectly with the timing of KTMB's Great Community Cleanup. KTMB's Truckee River Cleanup and Adopt-A-River Cleanups educate and engage the community about the presence of weeds, litter, and nonpoint pollution runoff in our watershed and the underlying causes of these challenges. According to Keep America Beautiful, "About 85% of littering is the result of people's attitudes.... Changing individual behaviors is the key to preventing litter — and environmental cues can make a difference." By engaging volunteers and community partners in this effort, and by having consistent outreach and messaging to support behavior change, KTMB is helping to better protect the invaluable water resources of the Truckee River.

#### KTMB's Annual Great Community Cleanup & Truckee River Cleanup will:

- Engage volunteers to remove invasive weeds and litter pollution at several hot spots along the Truckee River and its tributaries, as identified by weed experts at the WSCWMA, municipal partners, and KTMB's Litter Index Survey;
- Provide educational messaging and public service announcements in the community about environmental threats to the Truckee River and responsible river recreation and usage;
- Present Weed, Waste, and Watershed Warriors education with City and County officials, neighborhood and community groups, churches, recreation/outdoor groups, city council and county commissioners, service organizations, business partners, and K-12 students and teachers, as well as provide on-site educational opportunities along the river and in Idlewild Park's Sensory Garden.

#### KTMB's Adult and Community Education program will:

- Present Weed, Waste, and Watershed Warriors education with City and County officials, neighborhood and community groups, churches, recreation/outdoor groups, city council and county commissioners, service organizations, business partners, and K-12 students and teachers, as well as provide on-site educational opportunities along the river and in Idlewild Park's Sensory Garden;
- Coordinate "River Walks" as an educational outreach effort along the river corridor;
- Continue community outreach through social and traditional multi-media outlets with messaging related to the environmental health of the river and individual stewardship opportunities to reduce negative impacts from non-point source pollutants, improve water quality, and enhance water conservation;
- Convey the importance of preserving our natural ecosystem and native plant species and keeping invasive and noxious weeds from spreading as they can contribute to intense fires in the summer and are a health risk to humans and our wildlife.

#### KTMB's Adopt-A-River program will:

- Recruit new volunteers and manage existing volunteers to conduct cleanups along the Truckee River;
- Work with WSCWMA and local municipalities to monitor river invasive weed and litter hotspots;
- Continue to conduct an annual Litter Index Survey to evaluate current river corridor cleanliness.

#### 4. Grant priorities: If funding is awarded, KTMB will support the following TRF Grant Priorities: V, VI, VII, VIII.

*V: Support to Rehabilitation of Local Tributary Creeks and Drainage Courses* - KTMB will support water quality improvement of local tributary creeks and drainage courses through the GCC, TRC, and Adopt-A-River cleanup programs. These events will engage hundreds of volunteers to remove many tons of litter and green waste from many locations along the Truckee River Corridor and greater watershed.

*VI: Stewardship and Environmental Awareness* - This project will raise environmental awareness about water, water quality, and watershed protection by utilizing multi-media resources and educational/community presentations to educate residents and visitors about the importance of maintaining a healthy river; how noxious weeds negatively affect native plant communities; and how litter and pollution are harmful to humans, wildlife, and the local environment and economy.

*VII: Meet Multiple Objectives* - This project meets multiple TRF objectives because it will remove pollution and invasive weeds from our water through cleanups and beautification projects, increase the community's ecological literacy about water quality and conservation through messaging and education, and promote volunteerism to increase environmental stewardship.

*VIII: Leverage Stakeholder Assets and Participation* - KTMB will collaborate with numerous municipalities, businesses, community groups, and partners to complete the cleanup and education projects proposed. Project sites and activities



along the river will be identified by KTMB and local experts and completed with planning and day-of support from partners to ensure effective programming. Together, KTMB and partners will create a cleaner community while saving taxpayer dollars.

KTMB's 2022 Great Community Cleanup, Truckee River Cleanup, and Adopt-A-River program will also support the following One Truckee River Management Plan objectives (see attached document for description): 2.1.b, 2.3.j, 2.5.b, 3.3.h. 3.4.b. 3.4.c. 3.4.e. 3.4.f.

KTMB's Adult and Community Education efforts will also support the following One Truckee River Management Plan objectives (see attached document for description): 1.3.b, 2.1.j, 3.2.d, 3.2.f, 3.3.b, 3.3.e, 3.3.h.

- 5. Permitting: Since 2005, the only permits required for KTMB's Truckee River Cleanup and Great Community Cleanup are health department permits for the post-event volunteer picnic. With support from KTMB partner, Washoe County Health District (WCHD), these permits will be obtained without challenges prior to each event date. No permits are required for educational events or cleanups, though all gatherings will be held in accordance with WCHD health and safety recommendations.
- 6. Future land use. List any known or foreseeable zoning, land use, or development plans that may affect your proposed project: There are no known or foreseeable zoning, land use or development plans that may affect this project.
- 7. If future phases of the project will be needed, identify anticipated sources of funding: The Truckee River Fund's annual support of KTMB's Great Community Cleanup and Truckee River Cleanup assists in maintaining the health of the Truckee River and its greater watershed. It provides opportunities for KTMB to engage partner agencies, municipalities, community groups, foundations, businesses, and local residents in water quality stewardship and education, and to leverage in-kind support and funding from other sources. TRF funding will enhance KTMB's ability to achieve these objectives. KTMB's development team will also continue to pursue new and diverse sources of income to support these programs, while leveraging historic funding sources. Historic funding sources include Sun Valley General Improvement District, UPS Foundation, REI Co-op, Nevada Division of Forestry, and Washoe County Health District.
- **Principals involved in leading or coordinating the project or activity:** KTMB is the principal coordinating agency for 8. managing this project's planning, implementation, and evaluation, as well as volunteer recruitment and coordination.
- 9. Number of staff positions involved in the project: Eight Part-Time Staff
- **10.** Number of volunteers involved in the project and an estimated number of volunteer hours. Great Community Cleanup: 700 - 800 volunteers; 2,100 - 2,400 estimated volunteer hours Truckee River Cleanup: 600 - 700 volunteers; 1,800 - 2,100 estimated volunteer hours Adopt-A-River: 200 - 300 volunteers; 300 - 450 estimated volunteer hours TOTAL: 1,500 - 1,800 VOLUNTEERS; 4,200 - 4,950 ESTIMATED VOLUNTEER HOURS
- **11. Time Line of Project:** Below is a general timeline KTMB staff follows for each program activity detailed in this proposal. This funding will cover the calendar year 2023.

#### GCC 2023 Timeline:

Winter: Meet with project partners to identify GCC locations and plan GCC event logistics. Spring: Survey length of Truckee River on a four-point scale and create data points. Recruit volunteers. Implement GCC in May.

Spring/Summer: Compile survey data from GCC weed pull projects and re-survey. Begin planning for fall TRC.

#### TRC 2023 Timeline:

Spring/Summer: Compile survey data from the spring GCC weed pull and waste removal and re-survey sites for cleanliness. Plan TRC event.

Fall/Winter: Hold Fall TRC and re-survey the length of the river for cleanliness.

#### **Adopt-A-River Timeline:**

Winter: Compile and review information on existing sites and existing volunteer groups. Spring/Summer: Outreach and volunteer recruitment and management to conduct cleanups along the river corridor. Page 4

Keep Truckee Meadows Beautiful Truckee River Fund 2023 Proposal



#### **Community Outreach Timeline:**

<u>Spring/Summer</u>: Create an outreach plan to engage more residents on river-related topics through presentations, river tours, and media outreach. Schedule and conduct presentations and follow the media outreach plan. Host and/or participate in Educator Outreach in the community.

<u>Fall/Winter</u>: Schedule and conduct presentations and river tours. Continue outreach. Host and/or participate in Educator Outreach in the community.

#### 12. Success

The success of KTMB's 2023 Great Community Cleanup will be measured in the following ways:

• 700 community volunteers engaged in trash and invasive weed removal along the Truckee River and its tributaries; minimum of 15 tons of trash and green waste removed from Truckee River Watershed; 100 youth volunteers engaged in watershed stewardship through Truckee River volunteer projects; event participants educated about the Truckee River threats and actions they can take.

The success of KTMB's 2023 Truckee River Cleanup will be measured in the following ways:

 600 community volunteers engaged in trash and invasive weeds removal along the Truckee River and its tributaries; minimum of 15 tons of trash and green waste removed from Truckee River Watershed; 100 youth volunteers engaged in watershed stewardship through Truckee River volunteer projects; 100 storm drains stenciled; event participants educated about the Truckee River threats and actions they can take.

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

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

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

• 20 Community and Adult education events through in-person and virtual presentations on our watershed, invasive weed and, or litter topics; 500 community members educated; 3 educator outreach events participated in and/or hosted by KTMB.

#### 13. Collaboration

KTMB's major cleanup and education efforts collaborate with many local agencies and organizations including: Washoe County Parks, City of Reno Parks, Friends of NV Wilderness, City of Sparks Parks, Nevada Department of Wildlife, The Nature Conservancy, Washoe County Sheriff's office, Bureau of Land Management, Sun Valley General Improvement District, Waste Management, Milne Towing, A-Team Trash Hauling, Les Schwabe Tires, Save Mart, Pepsi, NV Energy, Reno Fire Department Water Entry Team, Truckee Meadows Fire Protection District Water Entry Team, Truckee Meadows Watershed Committee, One Truckee River, Washoe County Health District, Washoe County School District, Truckee Meadows Water Authority, Nevada Division of Environmental Protection, Nevada Division of Forestry, Nevada Department of Agriculture, US Forest Service, Washoe Storey Cooperative Weed Management Authority, Truckee River Fly Fishers, Northern Nevada HOPES, Nevada Land Trust, REI, Patagonia, SWCA, and Down to Earth Composting.

#### 14. Grant match

Match amount t	o be provid	ed:	\$223,514.00				
Match details:	Please prov	vide the form of yo	our matching funds. If match is made up of both cash and in-kind, fill in both sections.				
	Cash: \$98,794 (Combination of secured funds and pending/planned requests)						
	In-kind:	\$124,720					
	For the cash portion of your match, is the funding already being held by the applicant for this project? No						
	<u>_X</u>						
Description of	• Project Partners and in-kind support will provide a minimum of \$40,720 in staff time						
matching	• KTMB is projecting \$84,000 in volunteer time at a rate of \$20/hour per individual and approximately 1,500						
funds/in-kind		eers that will be u					
donations:	Approx	kimately \$98,794 i	in cash support is either secured or being requested from other funding sources.				

Truckee Rive	er Fund - KTMB Project Budget	09-21	-22 BOARD Agend	la Item 11
	l Truckee River Cleanup, Adopt-A-River Program & Adult and Community Education	07-21	-22 DOARD Agend	
Budget Item	Description/Justification	TRF Request	Cash & In-Kind Match	Total Cost
	t Community Cleanup 2023	in noquot		
	t community cleanup 2025			
COORDINATION, IMPLEMENTATION, AND PARTNERSHIPS Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$19,500.00	\$13,000.00	\$32,500.00
	Project, Partner, and Volunteer Management	\$19,500.00	\$13,000.00	\$32,500.00
Project Partners: Washoe County Parks, City of Reno Parks, Friends of NV Wilderness, City of Sparks Parks, Nevada Department of Wildlife, The Nature Conservancy, Washoe County Sherrifs office, Bureau of Land Management, Sun Valley				
General Improvement District, Waste Management, Milne Towing, A-Team Trash Hauling, Les Schwabe Tires, Save Mart,	Staff Time, Materials & Equipment, Labor and Supervision, Tire Recycling,			
Pepsi, NV Energy	Food and Soda Donation, Posters/Signage	\$0.00	\$21,360.00	\$21,360.00
Volunteer Hours	700 volunteers x 3 hours x \$20/hour	\$0.00	\$42,000.00	\$42,000.00
	Sub-Total	\$19,500.00	\$76,360.00	\$95,860.00
EQUIPMENT & SUPPLIES		\$13,500.00	\$7,0,000,00	\$55,666.66
	Dumpsters vary each cleanup, along with discounts. Budget projects need			
Dumpsters	for 15 dumpsters priced at \$700.	\$3,500.00	\$7,000.00	\$10,500.00
	Garbage Bags, Track Pickers, Tools, Buckets, tree wrap, paint, masks, gloves,	<i> </i>	+.,	+
Project Supplies	first aid kits, posters and signage, sanihuts, etc.	\$2,580.00	\$3,997.00	\$6,577.00
KTMB Truck for Site Surveying/Event Implementation	Fuel & Maintenance/Mileage	\$500.00	\$200.00	\$700.00
	Sub-Total	\$6,580.00	\$11,197.00	\$17,777.00
VOLUNTEER COORDINATION		÷ 3,000.00	÷==,==:.00	<i>+,</i>
	For the state of t			
	Event signage, health permit, zero waste supplies (serving ware, utensils,			
	etc.), volunteer provisions for sites (granola bars, water, etc.), Volunteer			
Volunteer Picnic	Appreciation Picnic food and drink	\$1,600.00	\$2,800.00	\$4,400.00
Volunteer Appreciation Items	Approximately 1000 items	\$4,000.00	\$2,400.00	\$6,400.00
Public Education	Radio/TV/PSAs/Post Cards/etc.	\$4,500.00	\$500.00	\$5,000.00
	Sub-Total	\$10,100.00	\$5,700.00	\$15,800.00
TOTAL GCC 2023 Request		\$36,180.00	\$93,257.00	\$129,437.00
Tru	ickee River Cleanup 2023			
COORDINATION & IMPLEMENTATION	•			
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$19,500.00	\$13,000.00	\$32,500.00
		. ,		
Project Partners: Washoe County Parks, City of Reno Parks, Reno Fire Department Water Entry Team, Washoe County				
Sherrif's Office, Friends of NV Wilderness, Waste Management, A-Team Trash Hauling, Truckee Meadows Fire Protection				
District Water Entry Team, Truckee Meadows Watershed Committee, City of Sparks Parks, Milne Towing, Nevada	Staff Time, Materials & Equipment, storm drain stenciling supplies, swiftwater			
Department of Wildlife, The Nature Conservancy, Save Mart, Pepsi, Les Schwabe Tires, NV Energy	rescue technicians and equipment, food and soda for volunteer picnic, Tire			
	Recyling, Posters and Signage	\$0.00	\$20,360.00	\$20,360.00
Volunteer Hours	600 volunteers x 3 hours x \$20hour	\$0.00	\$36,000.00	\$36,000.00
	Sub-Total	\$19,500.00	\$69,360.00	\$88,860.00
EQUIPMENT & SUPPLIES				
	Dumpsters vary each cleanup, along with discounts. Budget projects need			
Dumpsters	for 15 dumpsters priced at \$700.	\$3,000.00	\$7,500.00	\$10,500.00
	Garbage Bags, Track Pickers, Tools, tree wrap, paint, masks, gloves, first aid	. ,	,	. ,
Project Supplies	kits, posters and signage, sanihuts, etc.	\$2,180.00	\$4,097.00	\$6,277.00
KTMB Truck for Site Surveying/Event Implementation	Fuel & Maintenance/Mileage	\$450.00	\$200.00	\$650.00
	Sub-Total	\$5,630.00	\$11,797.00	\$17,427.00
VOLUNTEER COORDINATION		\$5,000.00	<i>v</i> 11,///////////////////////////////////	\$27,127.000
	Event signage, health permit, zero waste supplies (serving ware, utensils,			
	etc.), volunteer provisions for sites (granola bars, water, etc.), Volunteer			
Volunteer Picnic	Appreciation Picnic food and drink	\$1,800.00	\$3,100.00	\$4,900.00
Volunteer Appreciation Items	Appx. 1000 items	\$4,000.00	\$4,000.00	\$8,000.00
Public Education	Radio/TV/PSAs/Post Cards/etc.	\$4,500.00	\$1,500.00	\$6,000.00
	Sub-Total	\$10,300.00	\$8,600.00	\$18,900.00
Total TRC 2023 Request		\$35,430.00	\$89,757.00	\$125,187.00
Adult Fdu	cation and Communty Outreach			
Keep Truckee Meadows Beautiful	Project, Partner, and Volunteer Management	\$8,125.00	\$3,250.00	\$11,375.00
Educator Outreach	Supplies to support educators with training in the community	\$2,000.00	\$2,000.00	\$4,000.00
Total Education and Outreach Reguest		\$10,125.00	\$5,250.00	\$15,375.00
·····	Adopt-A-River	<i><b>~</b>23,123.30</i>	\$3,233.00	÷20,070.00
Manager Thursday & Manager Daniel Mad		60 750 65	600 050 co	620.000.00
Keep Truckee Meadows Beautiful Mileage	Project, Partner, and Volunteer Management	\$9,750.00	\$29,250.00	\$39,000.00
Mileage Volunteer Hours	to and from events 200 volunteers x 1.5 hours x \$20/hour	\$100.00 \$0.00	\$0.00	\$100.00
		\$0.00 \$9,850.00	\$6,099.00 \$35,250.00	$e 16, g_{100,00}$
Total Adopt-A-River Request		\$9,850.00	\$35,250.000 \$223,514.00	\$315,099.00
TOTAL REQUEST		321,282.00	\$223,514.00	\$212,033.00

## KTMB Funding received from the Truckee River Fund

Date Awarded	September 2021
Project title:	KTMB's 2022 Great Community Cleanup, Truckee River Cleanup, Adopt-A-River Program, & Adult
	and Community Education Program
Amount of Award:	\$82,880
Date Awarded	August 2020
Project Title:	TRF #239 2021 Spring Great Community Cleanup, 2021 Fall Truckee River Cleanup, Adopt-A-River & Adult Outreach and Education
Amount of Award:	\$74,245
Date Awarded	August 2019
Project title:	TRF #224 KTMB Cleanup and Weed Removal 2020
Amount of Award:	\$79,245
Date Awarded	February 2019
Project title:	TRF #217 Truckee River Cleanup
Amount of Award:	\$53,000
Date Awarded	August 2018
Project title:	TRF #204 Great Cleanup
Amount of Award:	\$31,640
Date Awarded	August 2017
Project title:	TRF #193 Great Cleanup/River Cleanup
Amount of Award:	\$69,760
Date Awarded	August, 2016
Project title:	TRF #176 Great Cleanup/River Cleanup
Amount of Award:	\$60,625
Date awarded:	October 22, 2016
Project title:	TRF #165 Truckee River Cleanup/Invasive Weed Pull
Amount of Award:	\$48,325
Date awarded:	February, 2015
Project title:	TRF #156 Phase I Truckee River Corridor Management Plan
Amount of Award:	\$90,000
Date awarded:	September, 2014
Project Title:	TRF #154 Invasive Weed Pull & River Cleanup
Amount of Award:	\$46,000
Date awarded:	October 2013
Project Title:	TRF 126: Truckee River Youth Education/Invasive Weed Pull/Cleanup 2014
Amount of Award	\$57,050
Date awarded:	September 2012
Project title:	Truckee River Cleanup 2013
Amount of Award:	\$46,450
Date awarded:	940,450 October 2011
Project title:	TRF #89 Truckee River Cleanup 2012
Amount of Award:	\$44,950
Date awarded:	\$44,950 November 2010
Project title:	#82 Truckee River Cleanup May 2011 Invasive Weed Pull and September 2011 Truckee River Cleanup
,	Day
Amount of Award:	\$42,900
Date awarded:	December 2009
Project title:	Invasive Weed Pull May 2010, River Cleanup Sep 2010
Amount of Award:	\$42,050
Date awarded:	February 2009
Project title:	Truckee River Cleanup Day, September 2009

Amount of Award:	\$26,975
Date awarded:	January 2008
Project title:	Truckee River Cleanup Day, September 2008
Amount of Award:	\$25,604.85
Date awarded:	November 2006
Project title:	Truckee River Cleanup Day, September 2007
Amount of Award:	\$24,730
Date awarded:	July 2006
Project title:	Truckee River Cleanup Day, September 2006
Amount of Award:	\$13,175
Date awarded:	December 2005
Project title:	Truckee River Cleanup Day, September 2006
Amount of Award:	\$9,402.50

## KTMB Funding received from the Truckee River Fund

#### Fall 2022 Proposal Keep Truckee Meadows Beautiful Contributions to the One Truckee River Management Plan

#### KTMB's 2022-23 Great Community Cleanup, Truckee River Cleanup, and Adopt-A-River program will also support the following One Truckee River Management Plan objectives (see attached document for description):

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

#### KTMB's Adult and Community Education efforts will also support the following One Truckee River Management Plan objectives (see attached document for description):

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



Board of Trustees FY 2022-2023

Aaron Altshuler, Chair Patagonia, Store Manager

Craig Chisum, Chair-Elect UPS, Program Manager

Tim Crowley, Past Chair Lithium Nevada Corp., Vice President of Government & Community Relations

Stephen Salaber, Treasurer Retired - NSHE, TMCC, DRI past controller

Angela Clay, Secretary Wells Fargo, Regional District Manager

YeVonne Allen Truckee Meadows Community College, Program Director

Johnny Hargrove Retired – NV Energy Account Executive

Derek Thomas KULA Consulting, Managing Director and Sr. Executive Recruiter

Lauren Garfinkel Panasonic, Recruitment and Branding Specialist

Robert Ulrich Retired - Public Attorney

John Jones Jones Consulting – Provider/Consultant



COMMUNITY FOUNDATION

of Northern Nevada

TRUCKEE RIVER FUND

Enhancing and protecting our water resources



AUTHORLTY

Quality. Delivered.

e: July 28, 2022

#267

Cover Sheet	Date: July 28, 2022						
Organization Name:	Sierra Nevada Journeys						
Туре:	501(c)(3) EIN# 01-0881587 Governmental entity? N						
Address:	Physical Add	lress: 190 E	. Liberty Street Reno, NV 89501				
	Mailing Address: PO Box 1631 Reno, NV 89505						
Project Name:	Watershed Education Initiative						
Amount requested: \$30,5	542		Website: www.sierranevadajourneys.org				
This funding will be used	to (complete t	his:	Deliver high-quality and experiential watershed education				
sentence with a max of 2	sentences):		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 Truckee River water quality.				
			Sierra Nevada Journeys will provide this education program through				
	1		hands-on, experiential lessons and activities.				
Key People:	Director:	Sean Hill,	, CEO				
	Board	Dan Klaic	ch line line line line line line line line				
	Chair:						
	Project	Name:	Alyssa Wagner				
	Contact:						
		Position	n: Program Director				
		-					
		Phone:	775-848-6628				
		- Form	775 220 4600				
		Fax:	775-329-1689				
	Email:		alussau@sierranouadaiournous.org				
		Email:	alyssaw@sierranevadajourneys.org				
Oversisetien Missien	To deliver in		novative, outdoor, science-based education programs for youth to develop				
Organization Mission:			nd to inspire natural resource stewardship.				
Has your organization	If yes,	ang skins a	na to inspire natural resource stewardship.				
received other grants	Date award	امه	March 2022				
from the Truckee River	Project title		Watershed Education Initiative for the Urban Truckee River				
Fund?	i i oject titi		Corridor				
Yes X No (use	Amount of						
additional page if	Date award						
necessary)	Project title						
	Amount of		\$30,055				
	Date award		March 2021				
	Project title		Watershed Education Initiative				
			\$31,035				
		Amount of Award: \$31,035					

#### 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.

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

TRUCKEE RIVER FUND



Enhancing and protecting our water resources



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

Sierra Nevada Journeys (SNJ) proposes an innovative, culturally relevant program for Washoe County area youth that includes a comprehensive approach to watershed education through the Watershed Education Initiative (WEI). The WEI had been an ongoing component of our programs since 2011, made possible thanks to the generous and ongoing support of the Truckee River Fund.

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

Outputs	Outcomes
Deliver WEI to 650 K-8th grade students within the Truckee River Watershed	100% of students participating in "Hands in the River will be able to draw and describe the Truckee River Watershed.
All students receive first-hand experience with the local watershed through a field-study on the Truckee River or one of its tributaries, or, in the case of a distance learning model,	100% of students participating in "Hands in the River" curriculum will complete water quality testing at/on the Truckee River to assess the health of their local watershed.
a virtual field trip or case study of the Truckee River.	90% of students participating in "Hands in the River" will be able to identify the function of storm drains and name three ways they can help reduce the amount of pollution
Provide 24 teachers with WEI extension lessons	entering the storm drain. 80% of students participating in "Hands in the River" will feel more comfortable in nature following their field study 95% of teachers will report that the program is helping to build critical thinking skills among their students.

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

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

**2. Project location:** The classrooms component of WEI will take place at schools within the Washoe County School District. The program's field sites are located within and downstream of the urban corridor of the Truckee River like Oxbow Nature Study Area, Galena Creek Regional Park and the McCarran Ranch Preserve. Field site locations are convenient and close to home for local students, increasing their sense of ownership, place, awareness and comfort in these nature areas. The program highlights 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" at the McCarran Ranch Preserve.

**3. Project Description:** Educating our region's youth about our local watershed is important because children are becoming increasingly disconnected from nature. A national survey conducted in May 2020 found that screen time among adolescents was up to nearly 8 hours a day, showing an increased reliance on digital media<sup>1</sup>. This increased time indoors, on screens and lack of exposure to the outdoors

<sup>&</sup>lt;sup>1</sup> Jason M. Nagata, M. M., Catherine A. Cortez, B., Chloe J. Cattle, B., & al, e. (November 1, 2021). Screen Time Use Among US Adolescents During the COVID-19 Pandemic. JAMA Pediatrics.



C O M M U N I T Y

FOUNDATION

of Northern Nevada

TRUCKEE RIVER FUND



negatively impacts our local environment because individuals are left without an understanding of the role they play in nature.

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.<sup>2</sup> Through the Watershed Education Initiative, Sierra Nevada Journeys 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.

Sierra Nevada Journeys' Watershed Education Initiative is a dynamic education program intentionally designed to build understanding of student's local watershed, including human impacts on the watershed, water quality, and issues surrounding watershed protection. Conducted over a four-week period, The program begins with a 30-minute orientation with participating teachers to give an overview of the content and format of the program. After the teacher orientation, our educators go into classrooms and teach two lessons. Each lesson fosters students' interest in science by using hands-on activities like creating a watershed model.

Sierra Nevada Journeys' educators also guide students on a field trip between classrooms lessons to a local nature site to apply what they've learned in a real-world context. For the Watershed Education Initiative, field sites include Oxbow Nature Study Area, Galena Creek Regional Park or the Nature Conservancy's McCarran Ranch Preserve. Students explore, assess, and collect data about the health of the Truckee River Watershed by observing the river, collecting macroinvertebrate species for study, and discussing how we can use the data to make a determination of health. The program also embeds opportunities to build critical thinking skills and social emotional learning.

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

Sierra Nevada Journeys believes that science and nature are for everyone. We prioritize partnerships with schools that primarily serve youth who have historically been denied access to high-quality science education and outdoor learning experiences. With this funding, Sierra Nevada Journeys will serve 650 students in 24 classrooms in the Truckee River Watershed. Students served with this grant will be those who have the highest financial and learning needs, ensuring we address the science and outdoor equity gap.

In Summary, the Watershed Education Initiative includes:

• The **school-based** component includes two in-class lessons (three) hours of in class instruction. Students participate in hands-on lessons that incorporate the Truckee River watershed, point and

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



C O M M U N I T Y

FOUNDATION

of Northern Nevada

TRUCKEE RIVER FUND



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 Watershed. 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.
- To encourage **family engagement**, SNJ provides teachers with a template to email parents with a summary and pictures of their child's experience after each unit along with information for family-based discussion of the curriculum
- The volunteer component of the program builds our capacity to involve the local community and broadens accessibility to our programming for low-income schools by helping to keep costs low.

After two years of virtual and hybrid teaching, we were thrilled to return to more in-person instruction during the 2021-22 school year and anticipate primarily in person programming for Fall 2022. However, Sierra Nevada Journeys remains ready and will offer a suite of flexible formats for WEI in case pandemic restrictions return. These formats include: fully in-person programming with a field trip to a local nature site; a hybrid of virtual and in person instruction with a field experience at their schoolyards; fully online with a virtual field experience; or providing lessons to teachers that they could implement independently.

**4. Grant priorities:** WEI is an education program that addresses water, water quality and watershed protection for K-8<sup>th</sup> 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, Program Director and Project Contact, 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 3





**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					
	Aug	Sept	Oct	Nov	Dec	Jan
<b>Recruitment/Scheduling:</b> 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.				<b>→</b>		
<b>Program Delivery:</b> SNJ instructors will deliver engaging watershed education lessons to 650 students through schoolbased and field-based programs.					<b>→</b>	
<b>Evaluation:</b> 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.						<b>→</b>
Final Report: Submit the final report to the Community						

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

Success will be found through the delivery of the Watershed Education Initiative to 650 students in grades K-8<sup>th</sup>. All students receive first-hand experience with the local watershed through a field-study on the Truckee River or one of its tributaries. Provide 24 teachers with WEI extension lessons. Through the Watershed Education Initiative, students will:

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

# **13**. Collaboration: List partnerships or collaborations with other entities in relations to your proposal if any

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



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

Truckee River Fund

Enhancing and protecting our water resources

#### 14. Grant Match:

Match amount to be provided:		\$10,181 (25% of requested funds)						
Match details:	Match is:							
	Cash	\$10,181						
		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 _X_							
Description of matching								
funds/in-kind donations:	\$10,181 fro	m the Nevada Division of Environmental Protection						



TRUCKEE RIVER FUND Enhancing and protecting our water resources



#### 14. Project Budget

Program Budget for Classrooms Unleashed – Watershed Education Initiative									
Item	Description	Ре	r Student	Т	otal	SNJ Match		T	otal
		E	Expense Exp		se Expense 2		25%	Re	quest
Compensation & Related Expenses	Includes Education Personnel like Instructors, Program Directors and Coordinators	\$	48.86	\$3	1,759	\$	7,940	\$2	3,819
Program Costs	Direct program expenses, such as: magnifying glasses, water containers, field day health supplies, printing and paper, uniforms, etc.	\$	5.71	\$ 3	3,712	\$	928	\$	2,784
Outside Contract Services	External evaluation services, DEI consultant, etc.	\$	1.64	\$ :	1,066	\$	267	\$	800
Occupancy Expenses	Rent and utilities	\$	2.48	\$ :	1,612	\$	403	\$	1,209
	Such as office supplies, postage/shipping, telephone, internet, equipment rental and maint., licenses and								
Operating Expenses	membership dues	\$	2.86	\$ :	1,859	\$	465	\$	1,394
Travel and Meetings	Conferences, travel for educator, professional development, etc.	\$	0.43	\$	280	\$	70	\$	210
	Staff recruitment, advertising/marketing expense, banking fees, merchant proc.	¢	0.67	\$	426	¢	109	\$	207
Other Misc Expenses	fees Total Expenses	\$ \$	62.65		436 <b>0,723</b>	\$ <b>\$</b>	<b>109</b> <b>10,181</b>		327 <b>0,542</b>
	Total Expenses	Φ	02.05	<b>74</b>	0,123	Φ	TO'TOT	<b>Φ</b> 3	0,942

#### ATTACHMENTS

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

#### Nonprofits submit:

- $\hfill\square$  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



TRUCKEE RIVER FUND



#268

Cover Sheet	Date: July 30, 2021 #2						
Organization Name:	One Truckee River under the Truckee River Foundation						
Туре:	501(c)(3) EIN	I# 20-3378838		Governmental entity? N			
Address:	P.O. Box 18153, Reno, Nevada 89511						
Project Name:	One Truckee River Brodhead Park Restoration Project: Phase II						
Amount requested: \$79,791.33	Website: www.onetruckeeriver.org						
This funding will be used to (complete this sentence with a max of 2 sentences):							
Key People:	Director: Board Chair:	oard Lynn Zonge					
	Project	Name:	Iris Jehle-Pep	pard			
	Contact:	Position:	Executive Dir	•			
		Phone:	775-450-5489	)			
		Fax:	775-851-5182				
		Email:	iris@onetruc	kkeeriver.org			
Organization Mission:		n is to ensure a f its community	•	ng, sustainable river connected to	the hearts		
Has your organization	See Attachm	ent C.					
received other grants							
from the Truckee River							
Fund?							
Yes, X No (use							
additional page if							
necessary)							

#### 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.<sup>1</sup>
- E. Other Projects that meet the evaluation criteria.

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



of Northern Nevada





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

One Truckee River's (OTR's) proposed Brodhead Park Restoration Project: Phase II (the Project) will take the engineering design for Brodhead Park (park) to 60% and continue implementation planning work to prepare for Phase III, implementation. OTR will fundraise to ensure project construction can commence in fall 2023. The Project design focuses on erosion control at the park and addresses critical issues facing the Truckee River, including impaired water quality (turbidity and temperature), erosion, wildlife habitat needs, and hydrological resiliency. Goals and outcomes are aimed at addressing specific needs for the park and building momentum to apply OTR's larger Framework Vegetation Management and Restoration Plan (Framework Plan, currently in draft form) through additional restoration activities at locations along the Truckee River between Crystal Peak Park and Vista Narrows. Lessons learned through the proposed Project will have far-reaching benefits for future restoration projects along the mainstem of the Truckee River within Nevada. The Project will improve the natural habitat along the riverbanks at Brodhead Park and created controlled (pedestrian trail) access from the water's edge to the paved Truckee River Path. These improvements will support further built environment improvements such as the new public loo facility at Brodhead Park and the proposed OTR Truckee River Corridor Conservation Project pending with Washoe County Community Reinvestment Grant program.

**Project Goal 1**: Produce a 60% restoration and engineering design for the restoration project at the park.

Goal 1 Measurable Outcomes (future Project phases will accomplish additional outcomes):

**Outcome 1a:** Conduct a topographic land survey for the entire project area at sufficient level of detail to meet engineering and landscape architecture design needs.

**Outcome 1b:** Produce the 60% restoration and engineering design for the park with a focus on vegetation establishment, bank stabilization, and maintaining sightlines.

Outcome 1c: Create an illustrative color rendering of the proposed landscape elements in plan view format.

**Project Goal 2:** Continue the implementation planning process as the restoration planning progresses through 60% design.

Goal 2 Measurable Outcomes (future Project phases will accomplish additional outcomes): Outcome 2a: Create a finalized planting list for the park, taking into consideration constraints such as shade tolerance, flood conveyance, habitat needs, foot traffic, encampments, and preservation of sightlines. Outcome 2b: Begin coordinating with local partners and vendors to cultivate the plants needed for the project to ensure they are ready for planting in late fall 2023.

- 2. Project location. Brodhead Park in Reno, NV
- 3. **Project description**: OTR is proposing to commence Phase II of the Project (*Attachment A*), which directly complements the effort to develop a Framework Plan for the urban stretch of the Truckee River within the Reno-Sparks, Nevada, urban core. The OTR Vegetation Management Master Planning Steering Committee and the City of Reno selected Brodhead Park to be the Project site because the park is: 1) the first location where a "Portland Loo" was installed as part of the OTR River Restroom Project; 2) an area of focused human services outreach with unsheltered river-users, in partnership with the Washoe County and Karma Box Project (Karma Box) River Steward Program and Built for Zero by-name list; and 3) an area where Karma Box has been able to work with the unsheltered river-users to set expectations of behavior related to increasing the care of the park, Loo, and the Truckee River. Brodhead remains an area of focus for OTR, as the OTR Partnership works to complete its prioritized objectives. The City of Reno has been actively involved in Phase I of the Project, providing feedback on the design elements (during three in-person meetings) and offering its resources for implementation. The City is interested in continuing this process at Brodhead and then continuing Framework Plan implementation at other City of Reno Parks, making this Project the first of many implementation-level plans that complement the Framework Plan.

The Project will be completed in three phases. OTR is close to completing Phase I with Truckee River Fund (TRF) support (thank you!) (see Phase I outcomes in Attachment B). Now, OTR is applying for grant funding through the TRF for Phase II and plans to apply to multiple outside funding opportunities for Phase III. The cost for Phase III will be finalized once Phase II defines the final scope of the project; however, the current estimated cost for Phase III is \$150K to \$200K. Details of the Project's phases are the following:

• **Phase I (nearly completed)** developed a 30% (conceptual) restoration design and Basis of Design Report, in coordination with OTR and the City of Reno. Agencies provided input on design ideas and permitting



COMMUNITY

FOUNDATION

of Northern Nevada

TRUCKEE RIVER FUND Enhancing and protecting our water resources



needs, and the public was asked to provide input on river access. Phase I also created a preliminary implementation plan identifying potential sources of labor and materials (from OTR's partners) for construction to streamline implementation efforts and costs (*see outcomes in Attachment B*).

- **Phase II (current phase)** will begin with a topographic survey of the project area and will then develop the 60% restoration design and complete a refined cost estimate to take the project through final design and construction (Phase III). Phase II design will also provide clarity on the agency permits/approvals needed and further refine sources for materials for implementation (in coordination with OTR's partners).
- Phase III (future phase) will 1) develop the final restoration design and 2) cover restoration implementation, including site preparation, slope stabilization or bioengineering materials, plant materials, and labor for installation. Project installation will be collaborative, using government, non-profit, and private resources available in the area. The estimated cost is \$150K to \$200K and depends on design elements, permitting requirements, materials/labor provided through the in-kind support, and the outcomes of Phase II. OTR will apply for remaining funds from the Nevada Department of Environmental Protection (NDEP), Conserve Nevada, and Laird Norton Family Foundation in 2022.

**PHASE II 60% Restoration Design and Agency Coordination:** The primary goal of the Project is to take the restoration plan and engineering design for the park to 60% and continue the close coordination with relevant agency partners used in Phase I. OTR will be in regular contact with the City of Reno and the CTWCD throughout this phase to ensure the planning process is adequately considering regulatory requirements, as well as the needs of OTR and the City of Reno.

**Phase IIa-1. Topographic land survey**: OTR will work with a qualified licensed land surveyor (US Geomatics) to conduct a topographic land survey of the entire project area. The survey will build on the available LiDAR topographic data and will be completed at a sufficient level of detail to meet the engineering and landscape architecture design needs for 60% and final design. Elevation data will be collected to capture all grade breaks, particularly in areas of thick tree canopy where there can be gaps in the LiDAR data. Existing utilities, stormwater outfalls, and 10-inch or greater diameter trees will be mapped. The survey will be used during project implementation to check installations and produce As-Built plans. Wildscape Engineering (Wildscape) staff will meet on-site with US Geomatics to review the survey extents, survey control, and site aspects to be captured.

**Phase IIa-2. Develop 60% restoration plan and engineering design:** The 60% design plans will clarify and illustrate the design elements from the 30% conceptual design. This task will kick off with a site visit to discuss the desired design features and will be attended by all key project staff from OTR, SWCA, and Wildscape. Following the initial site visit, SWCA and Wildscape will develop draft 60% restoration design documents. The 60% design plans will incorporate stakeholder feedback provided during the 30% design review meeting, the topographic land survey, and additional field investigations and team meetings. SWCA staff will identify any proposed site user amenities/furnishings to be incorporated into the site layout/improvement plans. SWCA and Wildscape will update and further develop details of the design in the draft 60% Basis of Design report. This includes but is not limited to detailed descriptions of vegetation species to be planted, vegetation management techniques, and any suggested non-chemical weed treatment. Lynn Zonge of RCI, Inc. (RCI) will provide subject matter expert review of the 60% restoration design. A second design visit will be conducted prior to completion of the Final 60% Restoration Design.

**Phase IIa-3. Plan view rendering:** A stand-alone illustrative color rendering of the proposed landscape elements in plan view format will be created as a supplement to the 60% design. The intent of this component is to create a more digestible format for the proposed restoration design to be presented to the public and thus receive a broader range of feedback. The rendering could also provide a visual hook to fundraise for the project's future phases or be used as part of future interpretive signage at the park.

**Phase IIb. Continue implementation planning with a focus on native plant cultivation:** In fall 2022, SWCA will create a final list with detailed descriptions of vegetation species to be planted as part of the restoration design. This list of species will be shared with City of Reno and CTWCD for approval and to begin strategically planning cultivation efforts to take place over the following year. The plants will be cultivated by a combination of the City of Reno and the Washoe State Tree Nursery, in accordance with feedback received from Phase I of the Project; other sources will be identified if needed.



COMMUNITY

FOUNDATION

of Northern Nevada

TRUCKEE RIVER FUND Enhancing and protecting our water resources



Grant priorities. This proposed Project will address the following TRF grant priorities:

II. <u>Watershed Improvements</u>: The Project will create an implementable restoration plan to address critical water quality issues along the urban stretch of the Truckee River. The final restoration plan for the park will be directly implementable and address impaired water quality (turbidity, temperature). Establishment of riparian vegetation and bank stabilization implemented in this Project will reduce erosion and turbidity. Increased river shading will mitigate elevated water temperature to increase hydrological resiliency.

III. Local Stormwater Improvements: The Project will develop a restoration plan to establish riparian vegetation along the urban stretch of the Truckee River. The restoration plan for the park will identify vegetation species and bank stabilization measures that increase infiltration and capture stormwater runoff (and associated non-point source pollution) within the Project area. The restoration plan will also inform future bank stabilization projects.

IV. <u>Re-Forestation and Re-Vegetation Projects</u>: The Project will develop and implement a plan to establish riparian trees and groundcover along the urban stretch of the Truckee River. The proposed restoration plan will enhance riparian forest health along the river, increasing wildfire resilience and improving habitat.

VI. <u>Stewardship and Environmental Awareness</u>: During Phases I and II, OTR will engage with the local community to attract stakeholders in the neighborhood who will support the Project's maintenance after implementation. Phase I solicited input from the local neighborhood on river access. Before development of 90% restoration design begins, another community input meeting will be held to obtain feedback on the 60% restoration design. Future implementation will engage the public through volunteer activities and outreach.

VII. <u>Meet Multiple Objectives</u>: The Project addresses multiple goals and objectives from the OTR Management Plan (OTRM Plan) and prioritized action items that align with TRF's funding priorities. This Project addresses OTRM Plan Goal 1: Ensure and protect water quality and ecosystem health in the Truckee River; OTRM Plan Objective 1.4: Create a rich and diverse vegetative ecosystem; OTRM Plan Objective 1.4.b: Create an approved vegetative species list to increase biodiversity and shading on lands along the Truckee River; and OTRM Plan Objective 1.4.c: Develop and implement a coordinated vegetation management plan along the river corridor. The Project will also meet the objectives and regulations of multiple agencies with jurisdiction within the Project area; regular coordination with agencies is critical to continued Project success.

VIII. Leverage Stakeholder Assets and Participation: The proposed restoration plan complements the development of the larger Framework Plan and associated tools. OTR's vision for the Framework Plan (being developed through the BOR WaterSMART grant Project) is to create a document that is a guidebook for creating implementable restoration plans. By developing this pilot restoration implementation plan and executing that plan, the Project team will be able to put different techniques into practice to ensure the Framework Plan and tools are effective. This planning effort will capitalize on and grow existing partnerships. Through the OTR Framework Plan development effort, OTR has formed a vegetation management technical working group (TWG), which includes federal/local government, agency, non-profit, private industry, and local resident representatives. This TWG has been working to identify opportunities to share resources and seek funding to plan and implement restoration projects along the urban stretch of the Truckee River. The Project's Phase I provided an opportunity to reinforce these partnerships and cultivate strong working relationships that have been indispensable to the Project and OTR's larger Framework Plan thus far. Continuing these collaborations through the construction phase will be critical for OTR's credibility in completing similar projects in the future. This proposed Project will leverage OTR's existing vegetation management planning efforts. As a pilot Project, this effort will allow troubleshooting of restoration planning and implementation challenges, so that land managers can more quickly and cost-effectively execute future projects along the urban stretch of the Truckee River. Completing this Project in tandem with the Framework Plan development has helped ensure the Framework Plan serves as a catalyst for future restoration projects.

- 5. **Permitting**. No permits will be acquired during this phase of the Project, but identification of and planning for permitting needs will take place. OTR and its contractors will continue to coordinate closely with the CTWCD and other relevant agencies to ensure the proposed restoration design will adhere to permitting restrictions and will work to avoid triggering USACE permitting (such as Clean Water Act 404/408 permits).
- 6. Future land use. No zoning, land use, or development are expected to affect this proposed Project.



TRUCKEE MEADOWS WATER R U T H O R I T Y Quality. Delivered.

- 7. Future phases. Phase III will be initiated in spring 2023 (see #11). Possible sources of support include 1) inkind resources from City of Reno, 2) in-kind resources from non-profit partners such as the Truckee Meadows Parks Foundation and Keep Truckee Meadows Beautiful, 3) competitive grant funding through the CTWCD, NDEP, and Conserve Nevada, 4) in-kind staff hours from SWCA, 5) volunteer hours, and 6) other sources of funding (grant, private, or sponsorships) identified by the OTR Proposal Writing Team.
- 8. **Principals involved. Iris Jehle-Peppard**, OTR Executive Director (ED), under the supervision of the OTR Board Members. **Mandy Bengtson**, SWCA Environmental Consultants, under the supervision of the OTR ED.
- 9. **Number of staff positions involved** in the Project: Fulltime **0**; Part-time **18**. Note: Phase II will involve four contractors (SWCA, Wildscape Engineering, RCI, and US Geomatics) to implement the Project.
- 10. Volunteers involved. No volunteers will be needed at this stage in the Project; however, OTR will work to engage local residents for Project input and volunteer support needed during Phase III.
- 11. Timeline

Timeline for the Project								
Past Funding Cycle								
Milestone	Timeline							
Phase 1: 30% Restoration Plan, Agency Coordination, Early Implementation Planning	To be completed Aug. 2022							
Current Funding Cycle (the Proposed Project)								
Phase 2a. 60% Design and Agency Coordination Sept. 2022 to Apr. 2023								
2.a-1 Topographic Land Survey Nov. 2022								
<b>2a-2</b> Develop 60% restoration plan and engineering designSept. 2022 to Apr. 2023								
2a-3 Plan view rendering Jan. 2023 to Apr. 2023								
Phase 2b. Continue implementation planning with a focus on native plant cultivation Sept. 2022 to Apr. 2023								
Future Funding Cycle (roughly projected)								
Phase 3. Final Design, Permitting, and Restoration Implementation	Mar. 2023 to Apr. 2024							

- 12. **Success**. Short-term success will be evident if OTR meets the measurable outcomes for each goal, as detailed in question #1. When Phase III of the Project has been completed, long-term success will be met if the water quality in the Truckee River is improved through bank stabilization and erosion mitigation.
- 13. **Collaboration**. The Project will directly inform the OTR Framework Plan effort, which includes coordination with the Project's TWG, composed of 17 agencies including *City of Reno, City of Sparks, Washoe County, Nevada Division of Forestry, CTWCD, Truckee River Flood Management Authority, Nevada Division of State Lands, Nevada Division of Wildlife, Nevada Division of Water Resources, Truckee Meadows Parks Foundation, <i>The Nature Conservancy, Great Basin Institute*, and a private citizen representative. This Project will also coordinate in planning efforts with regulatory agencies, including CTWCD, Nevada Division of State Lands, USACE, and others.
- 14. Grant match.

Match amou	nt to be provi	ded:	\$22,571.74					
Match	Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill							
details:	both section	s. Match is:						
	Cash	\$20,000 -	- Carson-Truckee Water Conservancy District (CTWCD)					
	In-kind	\$2,571.74	I – SWCA Labor Rate reductions					
	For the cash Project? <b>Ye</b>	cash portion of your match, is the funding already being held by the applicant for this ? Yes X						
Description of matching funds/in- kind donations:	<ul> <li>OTR received \$20,000 from the CTWCD to complete a baseline conditions assessment to identify priority restoration projects along the urban stretch of the river (including Brodhead Park), which will directly inform selection of future restoration projects to build upon this pilot project.</li> <li>SWCA has reduced its standard labor rates (in-kind support) for this proposed Project at a value of \$2571.74.</li> </ul>							





TRUCKEE MEADOWS WATER

OTR BRODHEAD	REIMBURSEMENT REPORT					
Budget Item Description	TRF \$	Other Funding Name	Match \$	Total	Expenditures to date TRF	Expenditures to date (other)
OTR ED Oversight and Site Visits (9 hrs. @ 75/hour including wages, taxes, and workers' comp.)	\$675.00			\$675.00		
60% Restoration Plan Development (SWCA Environmental Consultants)	\$31,154.20	SWCA Labor Rate reductions	\$2,571.74	\$33,725.94		
60% Restoration Plan Development (Wildscape)	\$18,694.38			\$18,694.38		
60% Restoration Plan Subject Matter Review (RCI)	\$450.00			\$450.00		
Topographic Survey (US Geomatics)	\$12,860.00			\$12,860.00		
CTWCD Conditions Assessment			\$20,000	\$20,000.00		
OTR Indirect Expenses at 25% (include printing and reproductions, postage, office supplies, payroll services, insurance, dues, and subscriptions).	\$15,957.75	N/A		\$15,957.75		
TOTAL	\$79,791.33		\$22,571.74	\$102,363.07		





TRUCKEE RIVER FUND Enhancing and protecting our water resources



#### Attachment A. Project Location Map



50 Washington Street, Suite 300, Reno, NV 89503 Phone 775-333-5499 // Fax 775-333-5487 // nevadafund.org Connecting people who care with causes that matter.



TRUCKEE RIVER FUND Enhancing and protecting our water resources

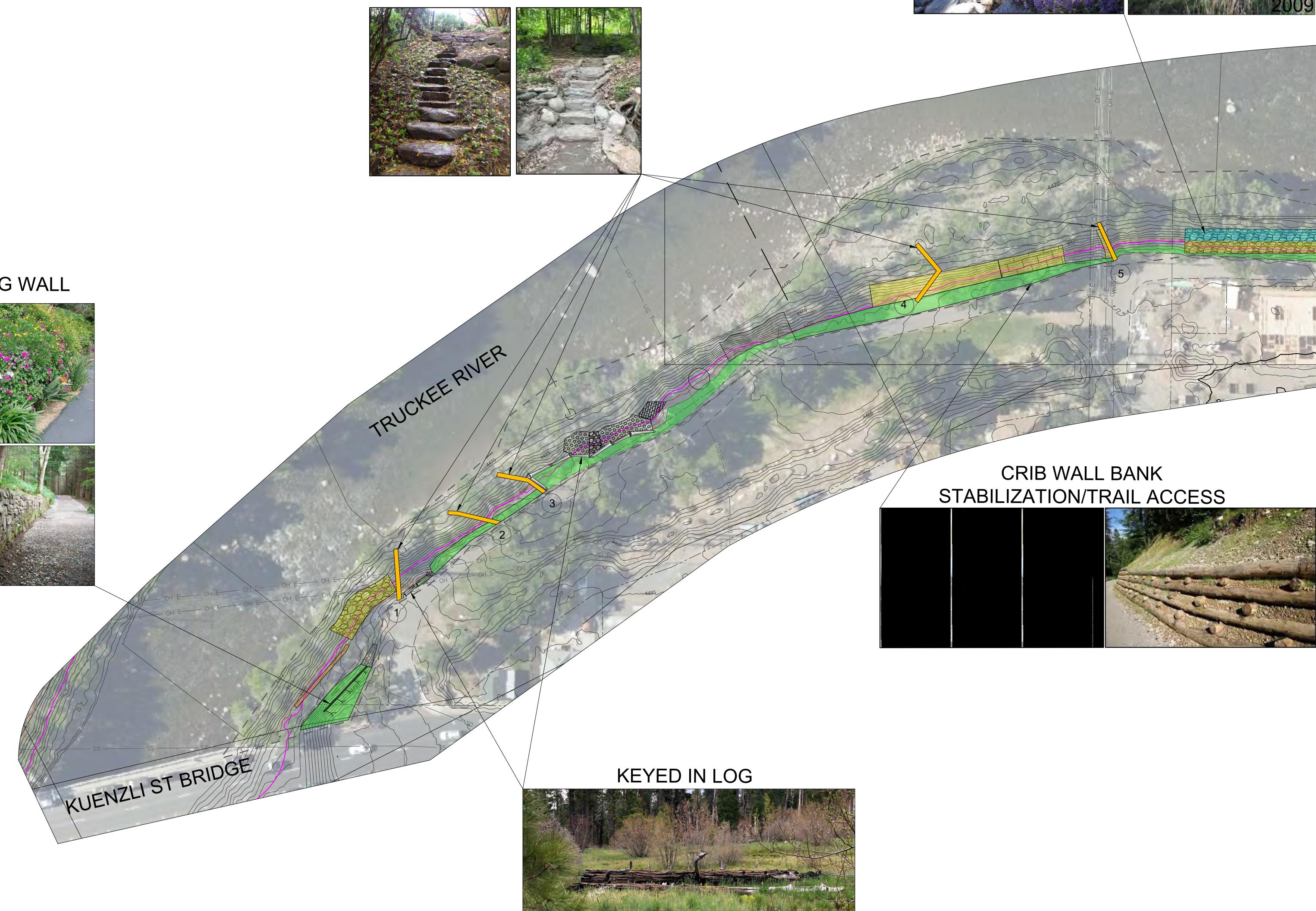


Attachment B. Deliverables from Project Phase:

- Overview of 30% Restoration Design Plan
- Draft Project Implementation Plan

# **RETAINING WALL**

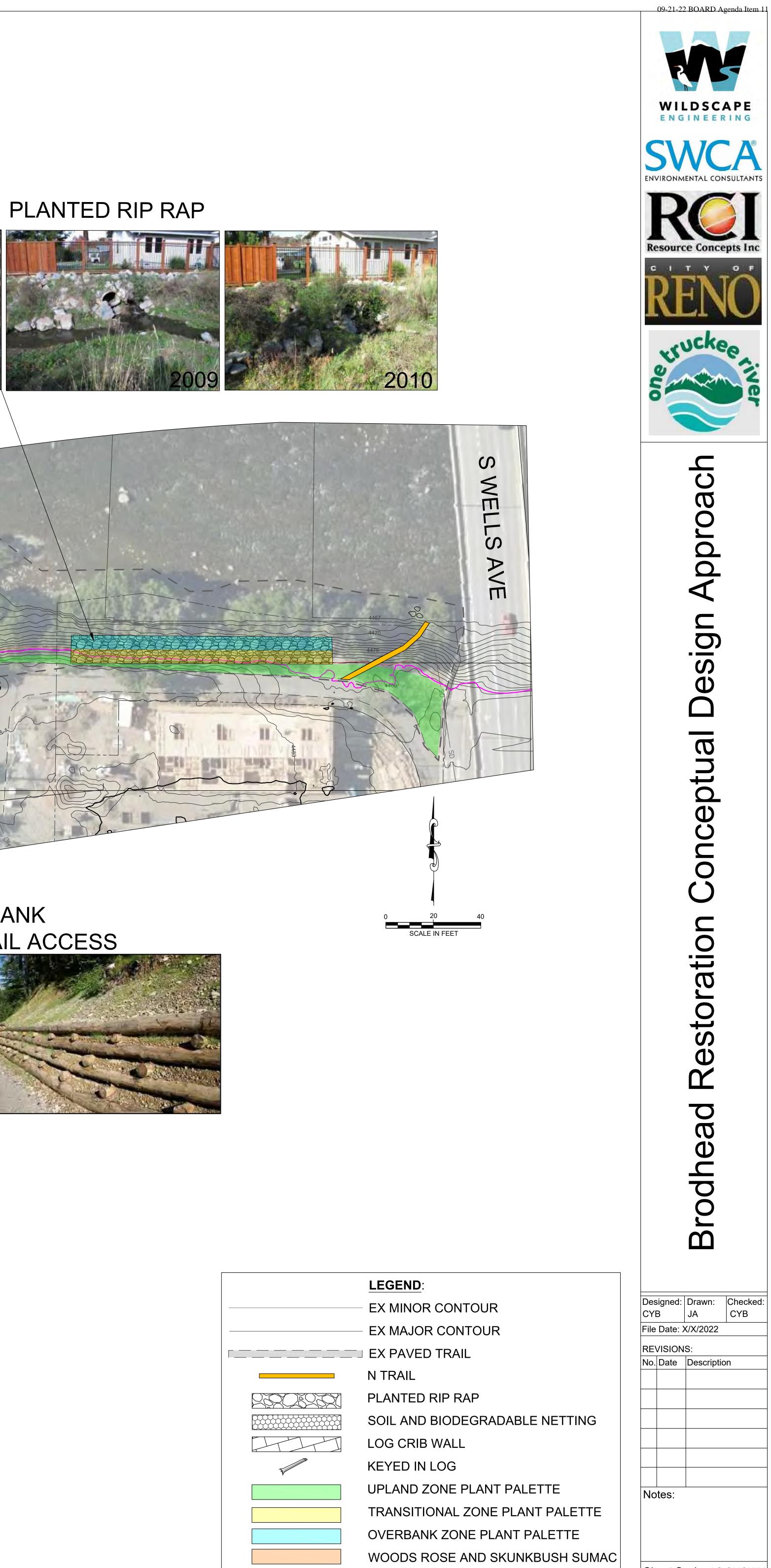


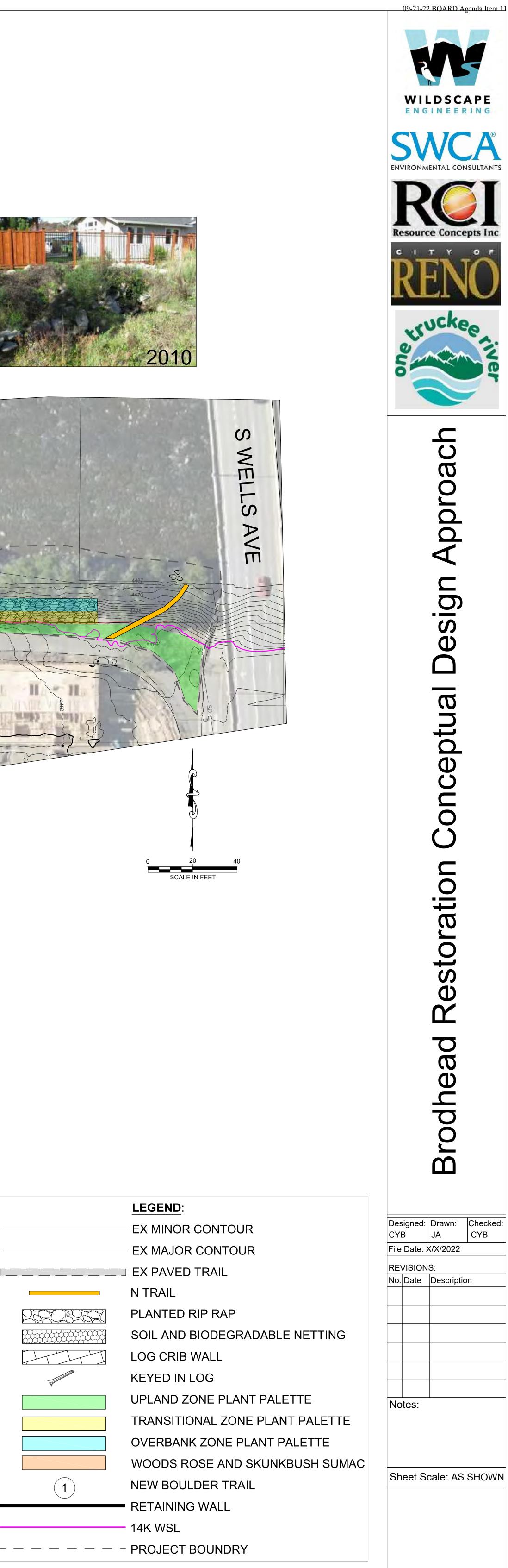


# **BOULDER STEP TRAILS**









### **TECHNICAL MEMORANDUM**

To: Iris Jehle-Peppard One Truckee River 2601 Plumas St. Reno, NV 89509

- From: Sophie Butler, Assistant Project Manager
- Date: Not Finalized

Re: Brodhead Restoration Implementation Planning / SWCA Project No. 68237

#### INTRODUCTION

SWCA Environmental Consultants (SWCA), in partnership with their teaming partners Wildscape Engineering, Inc. (Wildscape) and Resource Concepts, Inc. (RCI), has developed a conceptual engineering design and basis of design report for the Brodhead Memorial Park Pilot Vegetation Management and Restoration project (Project). As a supplement to the design and plans, SWCA has developed the following Draft Implementation Plan to help guide One Truckee River (OTR) towards execution and completion of the Project once final engineering designs have been completed.

This Draft Implementation Plan provides a general overview of the resources required to construct the Project and identifies partners and contractors that may be able to provide these resources. Proper implementation of the Project will require resources for the period of construction and the ongoing maintenance period following construction to optimize project outcomes. The requirements and project timeline for these two phases are described separately.

As final engineering designs are being developed, a more refined final version of this implementation plan will be created with greater detail on the partners and contractors providing their expertise and resources to the Project.

#### **OVERVIEW OF NEEDS FOR RESTORATION IMPLEMENTATION**

The materials and resources required to implement the Project have been separated into four categories. The specifics included within each category currently represent a high-level understanding of what will be needed. In the final version of the implementation plan, the specific needs within each category will be further clarified.

#### **Planting Materials**

#### Native Plants

The engineering and restoration design will include planting of both riparian and upland plants native to Northern Nevada. Examples of plants that may be needed includes but is not limited to showy milkweed (*Asclepias speciosa*), western wheatgrass (*Pascopyrum smithii*), basin big sagebrush (*Artemisia tridentata* ssp. *Tridentata*), and Wood's rose (*Rosa woodsii*). Chosen plant species will need to be cultivated far in advance of construction therefore a finalized plant list will be made prior to completion of the final engineering and restoration design. There will likely be a need to source different plants from different sources.

#### **Tree Saplings**

Trees for planting in the project area will be chosen according to specific needs and constraints within the project area, as will their planting location. Examples of trees that may be needed includes but is not limited to red willow (*Salix laevigata*), redosier dogwood (*Cornus sericea*), Fremont cottonwood (*Populus fremontii*), and chokecherry (*Prunus virginiana*). Chosen tree species will need to be cultivated far in advance of construction therefore a finalized tree list will likely be made prior to completion of the final engineering and restoration design.

#### Soil/Organic Enhancements

Due to current soil conditions within the project area, soil enhancements will be needed in certain sections of the project area. Specific treatments for soil and organic enhancements may include addition of soil substrate, other soil supplements, and inoculation of mycorrhizae. These enhancements may be required to create conditions sufficient for establishments of seedlings or other potted plants. Finalized strategies for soil enhancements will be determined in the final engineering and restoration design.

#### Mulch

Mulch may be required in upland planting areas and around newly established trees. A healthy layer of mulch can prevent establishment of invasive and noxious weeds and protect plants from other forms of damage.

#### **Bioengineering Materials**

#### Riprap

Design plans currently include sections of planted riprap to improve bank stabilization. The choice between sharp or rounded riprap has not been officially made within the draft engineering design, however this choice will determine the potential sources of this material.

#### Rocks/Boulders

Bank stabilization efforts will be supplemented with additional rocks and boulders. The rocks and boulders will also be used to create steps that operate as designated trails to the river and as bank stabilization. Rocks and boulders of varying sizes will be needed. Specifications for size will be determined in the next phase of planning.

#### Logs

Logs are needed to construct the proposed crib wall. This is another method of stabilization for the steepest slopes in the project with some of the most serious erosion concerns. Additional logs will be keyed into the soil to separate pedestrian and non-pedestrian areas along the bank once plantings have been completed.

#### **Manual and Machine Equipment**

Both mechanical equipment and hand tools will be needed to complete the projects installation. Machinery is presumed to be provided by the contractors that will be operating them and may include an excavator, backhoe, or loader.

A wide variety of hand tools will also be needed for activities that do not require heavy equipment.

#### Labor

A mix of both contract labor and volunteer labor is desired for the project. The most technical and consequential work at the site will be completed by contract labor, less technical work that still requires a skilled workforce will be completed by trained volunteers, and any other work could be completed by untrained volunteers from the community. One Truckee River plans to partner with other local businesses and organizations to find these groups.

#### **OVERVIEW OF NEEDS FOR ONGOING SUPPORT**

#### **Planting Materials**

Maintenance activities may require supplemental planting materials depending on how well the initial plantings are able to establish. Advance planning will be required additional plants or trees needed for ongoing maintenance. The types of plants are trees will be the same as described above.

#### Equipment

Equipment needed for ongoing support will be the same as described above. The higher need will for manual equipment but there may be a need for heavy equipment during this stage too.

#### Labor

The labor needs will be similar to above but with a heavier reliance on volunteers. Contract labor would only be needed for work requiring heavy equipment. City of Reno employees may also be involved in maintenance activities.

#### **RESOURCE PROVIDERS**

#### **City of Reno Parks and Recreation**

One Truckee River and its consultants met with an interdepartmental group from the City of Reno on June 29<sup>th</sup>, 2022. During the meeting, the list of resources needed for implementation was shared to solicit feedback from the group. City of Reno Parks and Recreation gave a provisional commitment to help provide mulch, saplings, and potentially other native plants for the project.

Advance coordination will be needed for cultivation of saplings and native plants, a preliminary list of species should be provided in Fall of 2022 for a Winter 2023 construction.

#### Nevada Division of Forestry – Washoe State Tree Nursery

The Washoe State Tree Nursery specializes in producing native and locally adapted plants for use in activities similar to the Project. By using their Custom Growing Service, OTR will be able to work with them to cultivate the plants needed to complete the project. Coordination will begin at least one year in advance to provide adequate time for proper cultivation of plants. A preliminary list of species should be provided in Fall of 2022 for a Winter 2023 start date. Additional planning will need to be completed with both Washoe State Tree Nursery and City of Reno to understand what each entity is capable of producing, then OTR will strategize which entity to work with for specific species.

#### Keep Truckee Meadows Beautiful

OTR and its consultants met with Keep Truckee Meadows Beautiful (KTMB) Executive Director, Mark Cameron, on July 18<sup>th</sup>, 2022. KTMB provided a high-level commitment to assist in the implementation of the Project by coordinating untrained volunteers to help complete the upland planting components. It is expected for there to be between 60 and 80 volunteer hours over 2-3 shifts of volunteers to complete the project. The scale of volunteer needs will be better established in future design phases.

KTMB has also agreed to help supply hand tools for implementation of the project, to be used with or without their volunteers present.

#### **Truckee Meadows Parks Foundation**

One Truckee River and its consultants met with the Elena Larson, Wetland Restoration Program Directors, for the Truckee Meadows Parks Foundation (Parks Foundation) on July 15<sup>th</sup>, 2022. The Parks Foundation provided a high-level commitment to assist in the implementation of the Project by providing trained volunteers in the form of their Wetland Restoration Technician AmeriCorps Members (Wetland Technicians) to help complete the riparian planting components. It's anticipated that four Wetland Technicians will be available to help with riparian planting for the project in late 2023/early 2024. The regularity of this commitment will be better established in future design phases, but the current expectation is 2-3 days a week for 2-3 weeks.

#### Contractors

Contractors for the project have not been identified at this stage. During the development of the 60% restoration design, it will become clearer what restoration activities will require contractors. At this point, identifying the right contractors for the project will become feasible.

#### Attachment C: One Truckee River Fund Grant History

# *Note:* In 2020, One Truckee River transitioned to its long-term home, the 501 (3) nonprofit, Truckee River Foundation from the fiscal agent Nevada Land Trust.

	Funding to Truckee River Foundation DBA One Truckee River						
Date Awarded:	September 16, 2021						
Project Title:	One Truckee River Brodhead Park Restoration Project: Phase 1						
Amount of Award:	\$69,724						
Date Awarded:	September 16, 2021						
Project Title:	OTR's River-Friendly Landscaping Program Expansion						
Amount of Award:	\$48,000						
Date Awarded:	March 17, 2021						
Project Title:	One Truckee River Partnership and engagement with the public						
Amount of Award:	\$196,590						
Fundi	ng to One Truckee River through the fiscal agent Nevada Land Trust						
Date Awarded:	August 13, 2020						
Project Title:	TRF #235 - One Truckee River Overall Support and Restroom Attendant						
Amount of Award:	\$74,293						
Date Awarded:	August 16, 2019						
Project Title:	TRF #221: River Restroom Project						
Amount of Award:	\$124,976						
Date Awarded:	March 22, 2017						
Project Title:	TRF #188: One Truckee River – Phase 1 Action						
Amount of Award:	\$256,220						
Date Awarded:	September 23, 2016						
Project Title:	TRF #180: One Truckee River – Phase 1 Implementation						
Amount of Award:	\$98,534						
Date Awarded:	March 21, 2012						
Project Title:	TRF #104: Washoe Drive Fire Stabilization and Restoration Effort						
Amount of Award:	\$115,000						
Date Awarded:	December 12, 2011						
Project Title:	TRF #99: Caughlin Fire Emergency Watershed Stabilization & Restoration Effort						
Amount of Award:	\$219,856						
Date Awarded:	October 11, 2011						
Project Title:	TRF #90: Weed Treatments & Revegetation, Truckee River & Tributaries						
Amount of Award:	\$127,500						
Date Awarded:	July 21, 2009						
Project Title:	TRF #70: Weed Treatments & Revegetation, Truckee River & Tributaries						
Amount of Award:	\$125,000						
Date Awarded:	July 21, 2009						
Project Title:	TRF #66: Scope of Work for Truckee River Ecosystem Restoration Coordination,						
	Creation of a Five-Year Weed Control and Restoration Plan for the Truckee River						
Amount of Award:	\$10,000						
Date Awarded:	July 17, 2008						
Project Title:	TRF #46: Weed Treatments & Revegetation, Truckee River & Tributaries						
Amount of Award:	\$112,500						



Cover Sheet Date:	July 1, 2022								
Organization Name:	Truckee Meadows Parks Foundation								
Туре:	501(c)(3) EIN# <sup>45-4837735</sup> Governmental entity? Y/N								
Address:	50 Cowan Drive, Reno, NV 89509								
Project Name:	Rosewood Na	ature Study	/ Area:	: Interpretive S	ignage tProject				
Amount requested: \$86,900				Website: https://www.tmparksfoundation.org					
This funding will be used to (complete this sentence with a max of 2 sentences):			Design and install sixteen interpretive/waymarking signs at the Rosewood Nature Study Area to protect and enhance water quality through education and appreciation that leads to action.						
Key People:	Director:	Heidi Anderson							
	Board Chair:	Katie Palani							
	Project	Name: Heidi Anderson		on					
	Contact:	Positi	on:	Executive Director					
		Phone	e:	(775) 453-0278					
		Fax:	N/A						
		Email	:	heidi@tmparksfoundation.org					
Organization Mission:	Truckee Meadows Parks Foundation protects and enhances our communities' livability through public engagement, education, and sustainability of parks, open spaces, and trails. TMPF offers innovative parks-based education and recreation programs designed to empower youth to pursue STEM learning and increase community-wide awareness, appreciation, and stewardship of Truckee Meadows parks.								
Has your organization received other grants from the Truckee River Fund?	If yes, Date awarded: 08/19/2021 Project title: Doggie Waste Awareness Campaign Amount of Award: \$31,075.00								
Yes No (use additional page if necessary)	Date awarded: Project title: Amount of Award	TRF #226 - Truckee Meadows Nature Study Area First-Year Operational Grant							
	Date awarded: Project title: Amount of Award	TRF #213 - Truckee Meadows Nature Study Area First-Year Operational Grant							



### **Rosewood Nature Study Area Interpretive Signage Project**

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

The primary goal of the Rosewood Interpretive Signage Project is to encourage and facilitate the long term safety, conservation, and community stewardship of the local Truckee River watershed. Impactful community wide education and awareness of our watershed is absolutely essential to its protection and enhancement. To achieve this, a network of interpretive signs will be installed at the Rosewood Nature Study Area designed with thoughtful and timeless content outlining the connection of the local watershed to our lives, environment, and water quality. Success and effectiveness of the project will be measured by 1. the ultimate installation of the sign network and 2. park visitor surveys.

Visitors will be presented with a brief survey designed to test whether the visitors attitude towards stewarding our local parks, rivers, and watershed increased after engaging with the signage. Truckee Meadows Parks Foundation (TMPF) anticipates 700 participating visitors in the first year following installation with at least 60% of participants (420) reporting an increased interest. The Rosewood Nature Study Area visitor center host will organize and track surveys and reviews will be held regularly by TMPF staff to evaluate goal progress and strategy. TMPF forecasts increasing that number annually as programming continues to grow with the park's infrastructure, restoration, and popularity.

Before installing the signs, all designs will be vetted by public comment and industry professionals, including scientists from TMWA, to ensure the information's effectiveness through proven methods. Any adjustments or input will be taken into consideration by Parks Foundation staff and participating volunteers. The Parks Foundation will also design the signage plan to help increase the number of local schools and organizations that visit the nature study area for field trips. Our goal is to have at least 500 students visiting the property in the 2023-24 school year, in partnership with the Washoe County School District and outdoor education programs such as Sierra Nevada Journeys and Great Basin Outdoor School.

#### 2. Project location.

The project will take place at the Rosewood Nature Study Area, a 219-acre property on the confluence of the Boynton Slough and Steamboat Creek, the latter of which is the most important tributary of the Truckee River (Horton 1997). While these important waterways and tributaries to the Truckee River will be a part of the signage plan, the plan itself will focus on the watershed as a whole. Additionally, the park is uniquely located on the borders of both Reno and Sparks, and includes Veterans Parkway with its bicycle paths running the full length of the park, making it highly accessible to over 470,000 community members.

#### 3. Project description.

With less than 7.5" of rainfall per year, understanding the vital role the watershed plays in our communities future is critical. Access to community wide watershed education offers our region the opportunity to experience the importance of water. Community members who know where their water comes from and how watersheds are impacted by human and natural activities are more engaged and better environmental stewards. Truckee Meadows Water Authority states that residential consumption is the most significant use of our local waters. Building a watershed conscious community that is



aware and passionate about water conservation and stewarding our local rivers will significantly help sustain this precious resource.

The Rosewood Interpretive Signage Project is one of many steps in making the Rosewood Nature Study Area a thriving environmental asset to communities in the Truckee River watershed. With funding from the Truckee River Fund, TMPF will meaningfully engage students and the community with their local watershed through the design and installation of interpretive and wayfinding signs along with a welcome kiosk. Signs will be strategically placed throughout a 1.5 mile accessible trail at the Nature Study Area. Using best practices for interpretive design, TMPF will demonstrate the importance of the local watershed. Through these signs, community members will not only learn about but experience and witness local watershed restoration first hand at the property. The project will serve as an educational tool to inspire stewardship and watershed awareness in park visitors and students attending field trips and youth programs. The project aims to help develop future generations of environmentally conscious river stewards to protect and conserve our local water resources.

The Rosewood Nature Study Area is a 219-acre property located on the southeastern border of Reno and Sparks. The property provides an expansive wetland ecosystem to the natural space. In 2021, TMPF was granted a 50-year lease by the City of Reno to perform restoration on the former Rosewood Lakes Golf Course and reestablish it to a functional upland and riparian wetland environment. To organize and accomplish remediation efforts, TMPF established the Acres of Innovation capital campaign that outlines numerous phases of completion and fundraising for the restoration plan. Phase I saw the completion of goals such as the establishment of a 1.5-mile loop trail, two-¼ mile pond loops, 55 acres of invasive species treated, and a 22,000 sq. ft. pollinator garden. Phase II will expand significantly on these goals and includes the Rosewood Interpretive Signs. This network of educational signs will inspire community understanding of the role wetlands play in the Truckee Meadows and their relationship to the local watershed. This understanding, gained through the interactive and interpretive opportunities the signs provide, will enhance the overall experience of the Nature Study Area while educating the public and local students on wetland conservation efforts and watershed protection. Fostering stewardship in the community is an essential step to the long-term protection of water resources. Therefore, timeless content design will be a critical step to the project.

To guarantee engaging and impactful content for the signage, TMPF is researching and cataloging the science and history of the wetlands. With support from Nevada Humanities, TMPF is hosting and documenting panel discussions with local wetland, riparian and landscape ecologists, ethnobotanists, hydrologists, sociologists, geologists, and Washoe Tribe Elders to gather critical information. Paired with extensive research collected during the restoration process, the information gathered will present a full story from pre-European contact to the watershed as seen today. Once signage design and content is finalized, the interpretation will undergo a final vetting process with experts and the public. An additional focus is to guarantee sustainability of the physical signage through proper material selection and long-term maintenance planning. The Parks Foundation retained professional consultants and interpretive signage specialists with experience in installation in the Truckee Meadows and Lake Tahoe region to select materials sustainable for our climate. AmeriCorps wetland technicians will install and maintain the signs with guidance from the Wetland Restoration Director and additional funding for maintenance will be secured through the Acres of Innovation capital campaign.

The Rosewood Nature Study Area offers a unique opportunity to not only educate the community on the impact of wetlands toward water quality, erosion, climate change, and ecology of



the Truckee River watershed, but inspire individuals to act. Through thoughtful content and a professional aesthetic build, this signage plan will effectively communicate these core values to a diverse audience creating lasting positive impact. We aim to contribute to our current and future generation's drive to understand and steward our watershed. Access to engaging educational tools like the Rosewood interpretive signs will spread this watershed awareness and inspire young stewards to protect their environment and local water systems. All visitors will have free access to the nature study area and its amenities year-round. Additionally, TMPF's youth science programs like the Student Stewards Program, Junior Naturalist Program, and Spring and Summer Break Camps will utilize the signage for hands-on and interpretive learning, as well as guide program curriculum on the property.

#### 4. Grant priorities.

The interpretive signage plan at the Rosewood Nature Study Area advances priorities VI (Stewardship and Environmental Awareness) and VIII (Leverage Stakeholder Assets and Participation). The signage plan advances priority VI in that TMPF will implement educational signage and accompanying programs designed to promote awareness and stewardship practices of the Truckee River watershed. This initiative will inspire the community to act, with an educated focus on water conservation ethics. The Parks Foundation will leverage time and expertise from members of Tribal Communities, humanities scholars, Truckee Meadows hydrologists and ecologists further advancing priority VIII.

#### 5. Permitting.

The 219-acre property is owned by the City of Reno and was leased to TMPF in 2021 for 50 years at the price of \$1 per year. The lease is currently in year two of the 50-year term and no further permits are in place or needed.

#### 6. Future land use.

There are no zoning restrictions, land use, or development plans affecting the Rosewood Nature Study Area restoration project and interpretive signage plan.

#### 7. Future phases of the project.

General support provided by the Truckee River Fund will allow TMPF to carry out planning, design, and installation of the interpretive signage plan. Future phases will include design and implementation of educational programming at the property along with maintenance of the signs themselves. Furthermore, the support will increase the organization's competitive advantage when applying for large federal grants or funding opportunities toward the future phasing of the Rosewood Nature Study Area.

#### 8. Principals involved.

Truckee Meadows Parks Foundation Executive Director, Heidi Anderson, Wetland Restoration Program Director, Elena Larsen, M.S., and Development Director, Sarah Holcombe will be the principals involved in the coordination of the project. Additionally, we are currently evaluating bids from Landscape Architecture and Planning firms for their role in the design and construction of the signs. Once selected, these entities will be under the supervision and direction of TMPF Executive Director, Heidi Anderson.

#### 9. Number of staff involved.



Executive Director (45%), Wetland Restoration Director (30%), Development Director (25%)

#### 10. Number of volunteers involved.

Truckee Meadows Parks Foundation seeks to leverage the time and expertise of 10 advisory board members and 5 members of scientific research institutes to provide feedback and finalize designs for interpretive signage. 14 AmeriCorps State and National members serving in wetland restoration technician roles will install and maintain the signs.

#### 11. Project timeline.

<u>August 2022:</u> Design firm selected and design process begins <u>September 2022 - January 2023:</u> Complete design process including: Initial meeting with design firm, stakeholders, and subject matter experts Design options drafted Public charrette process completed Final design selected <u>January 2023:</u> Final product specifications completed <u>February 2023 - May 2023:</u> Production of signs <u>May 2023 - July 2023:</u> Installation of signs

#### 12. Success.

Success for the interpretive signage project will be indicated by 1. the successful installation of the interpretive signs and 2. 60% of visitors surveyed showing an increased interest in stewarding our local watershed after engaging with the interpretive signs. TMPF anticipates reaching 700 community members in the first year following the installation with at least 420 reporting an increased interest in stewardship. Surveys will be administered and tracked by the nature center hosts with quality control conducted by the Executive Director.

#### 13. Collaboration.

TMPF will collaborate with various community stakeholders to enlist muralists, host design workshops, and install interpretive signage at the Rosewood Nature Study Area. These stakeholders include Herman Fillmore, Washoe Tribal Cultural Resource Director; Helen Fillmore, hydrologist; Darla Garey-Sage, ethnobotanist; Carla James, geologist; Rhiana Jones, Washoe Tribal Environmental Director; Cara James, Washoe Tribal Environmental Specialist; Reno Sparks Indian Colony, Washoe Tribal Elders Ramona Heller, Eileen Mazy, and Steven James. Furthermore, TMPF will collaborate with Washoe County School District and local youth education organizations to expand the reach of the interpretive signage project.

#### 14. Grant match.

Please see page 7.

#### 15. Project Budget.

Please see page 6.



# **Rosewood Nature Study Area Interpretive Signs: Budget**

Budget Item Description	Truckee River Fund \$	Other Funding Name	Secured Match \$	Total
Signage Coordination (Staff Time)	\$25,000	AmeriCorps (Secured)	\$3,000	\$28,000
Interpretive Signage Design	\$5,000	Recreation and Trails Program (Secured) and National Fish and Wildlife Foundation (Secured)	\$35,000	\$40,000
Interpretive Sign and Pedestal Materials (\$4000 x 10 signs)	\$40,000			\$40,000
Welcome Entry Kiosk	9,000	NV Energy Charitable Foundation (Secured)	\$16,000	\$25,000
Wayfinding Signs (\$1,500 x 6 signs)		NV Energy Charitable Foundation (Secured)	\$9,000	\$9,000
AmeriCorps Wetland Restoration Technicians Installation		AmeriCorps (Secured)	\$7,000	\$7,000
Administrative	\$7,900			\$7,900
TOTAL	\$86,900		\$70,000	\$156,900



# **Rosewood Nature Study Area Interpretive Signs: Grant Match**

Match amount to be	e provided: \$70,000		
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 \$70,000		
	In-kind		
	For the cash portion of your match, is the funding already being held by the applicant for this project? Yes $No \checkmark$		
Description of	Truckee Meadows Parks Foundation (TMPF) is presenting a 44.6% cash match		
matching	that includes funding from four entities.		
funds/in-kind donations:	Truckee Meadows Parks Foundation receives funding from the Corporation for National and Community Service (AmeriCorps), VISTA and the State and National Program to support community education and stewardship programs. \$10,000 of this support will be used to the fund salaries of the Wetland Restoration Technicians and aid in administrative coordination costs.		
	Truckee Meadows Parks Foundation was awarded an NV Energy Charitable Foundation quarter 2 grant in July of 2022 for \$25,000.		
	The Recreation and Trails Program has awarded \$30,000 to the project to support the interpretive design phase of the signage plan. The Recreation and Trails Program has supported the restoration efforts at the Rosewood Nature Study Area since 2019.		
The National Fish and Wildlife Foundation has awarded \$5,000 to the pro- will be used to support the interpretive design phase of the signage plan.			



# 2022 Application Attachments: Table of Contents

•	Letter of Support: Darrel Cruz, Washoe Tribe of NV & CA9
•	Rosewood Nature Study Area Phase II Restoration Plan Map10
•	Truckee Meadows Parks Foundation: List of Board of Directors11
•	Copy of TMPF IRS 501(c)(3) Tax Determination Letter12-13
•	TMPF Most Recent IRS Form 99014-53
•	TMPF 2020 Audit

Washoe Tribe of Nevada and California Tribal Historic Preservation Office/Cultural Resources Office Protect, Preserve, Promote Washoe Culture



Dear Truckee River Fund Committee:

July 26, 2022

On behalf of Washoe Tribe of Nevada and California, please accept this letter of support regarding Truckee Meadows Parks Foundation's (TMPF) application for the 2022 Truckee River Fund. The fund's mission of protecting water resources within the Truckee River watershed aligns perfectly with TMPF's restoration and education efforts at the Rosewood Lakes Nature Study Area. We believe their interpretive signage project will generate significant impacts on the local community's understanding of watershed importance, stewardship and conservation.

All of Truckee Meadows and the Truckee River from Lake Tahoe to Lockwood is within the ancestral lands of the Washoe Tribe. In 1861 Washoe County was named in honor of the Washoe the original people. As the original people we have a vested interest to support programs that protect, preserve and enhance the natural and cultural environments.

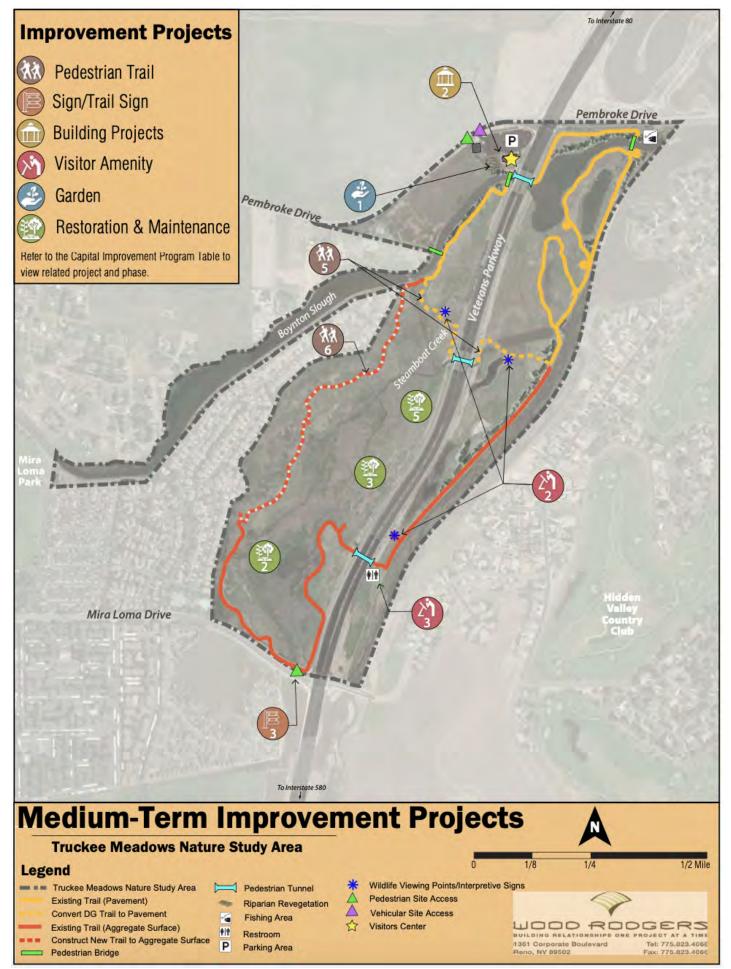
TMPF acquired a 50 year lease for the 219-acre property from the City of Reno in March 2021, and began significant restoration efforts to reestablish a functional wetland ecosystem and public access to the area. Now known as the Rosewood Nature Study Area, 2.5 miles of trails and a visitor center have been reopened to the public, along with the creation of several volunteer and youth educational programs that engage our communities with stewardship of the park's environmental impact, function, and wildlife protection. The addition of the proposed interpretive signage plan will add significant experiential value to the park, greatly enhancing the educational opportunities they are currently developing within the space. The property is located on the border between the cities of Reno and Sparks, providing bountiful outdoor opportunities for the surrounding public, the most immediate of which are made up of a diverse demographic of underserved communities. As a result, this signage plan will help facilitate a well-educated community of stewards and promote watershed awareness, better supporting both the enrichment of our communities and the health of our local water systems.

Truckee Meadows Parks Foundation has repeatedly proven their ability to execute plans regarding the restoration project and much more. Funding from the Truckee River Fund will provide vital support to the preparation, design and installation of this project, ensuring the quality of its impact.

Thank you in advance for your consideration of their application. If you have any questions please feel free to contact me at (775) 265-8600.

Sincerely,

Darrel Cruz, THPO/CRO Washoe Tribe of NV and CA





# List of Board of Directors 2022

Katie Palani, Board Director; Teacher; 2889 Barong Ct, Reno, NV 89523

Dawn Smith, Vice President; Sonographer, 6200 Meadowood Mall Cir. #218, Reno, NV 89502

James Dickey, Treasurer, Board Director; 4950 Turning Leaf Way, Reno, NV 89519-0991

Sophia Kirschenman, Board Director; Park Planner; Washoe County; 1001 E 9th St, Reno, NV 89512

Nate Tippie, Board Director; Principal Product Manager; Intuit; 225 Moran St, Reno, NV89501

Jill Richardson, Board Director; 6737 Arctic Willow Ct, Reno, NV 89511-4383

Laura Fillmore, Board Director; Retired

#### TRUCKEE MEADOWS WATER AUTHORITY (TMWA)

#### **RESOLUTION NO. 308**

#### 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.

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

Upon motion of \_\_\_\_\_\_ seconded by \_\_\_\_\_, the foregoing Resolution was passed and adopted on September 21, 2022 by the following vote of the Board:

Ayes: \_\_\_\_\_

Nays: \_\_\_\_\_

Abstain: \_\_\_\_\_ Absent: \_\_\_\_\_

Approved September 21, 2022

Vaughn Hartung, Chairman

# EXHIBIT A

# PROJECTS RECOMMENDED FOR FUNDING

Project #	Grantee	Description	Proposal Amount	Amount Recommended	Monetary Match	In-Kind Match	Match Total
264	The Truckee River Watershed Council	Lower Hoke Meadow & State of Donner Lake	\$206,000.00	\$206,000.00	\$118,000.00	\$—	\$118,000.00
265	Keep Truckee Meadows Beautiful	2023 Great Community Cleanup, Truckee River Cleanup, Adopt-A-River Program, & Adult and Community Education Program	\$91,585.00	\$81,460.00	\$98,794.00	\$124,720.00	\$223,514.00
267	Sierra Nevada Journeys	Watershed Education Initiative	\$30,542.00	\$30,542.00	\$10,181.00	\$—	\$10,181.00
268	One Truckee River	OTR Broadhead Park Restoration Project: Phase II	\$79,791.00	\$79,791.00	\$20,000.00	\$2,571.74	\$22,571.74
		Amount Totals:	\$407,918.00	\$397,793.00			\$374,266.74

## **Project #264:** Lower Hoke Meadow and State of Donner Lake

## Organization: Truckee River Watershed Council (TRWC)

#### **Project Description:**

#### Hoke Meadow

Hoke Meadow formerly supported wet meadow habitat but has converted to upland shrub habitat. Riparian and meadow vegetation are confined to the banks of an incised stream channel, down cut approximately 4 - 10 feet below the meadow surface. The existing stream channel through Lower Hoke has been clearly manipulated: it lies on a high spot on the meadow, and several berms and levees have been constructed, likely to confine the stream to the artificial channel. Road construction, pipeline construction, and a buried fiber optic cable have all complicated the current alignment. The Lower Hoke Meadow project was identified through the Boca Watershed Assessment (USDA, 2020), a comprehensive analysis of the Boca sub-basin.

#### State of Donner Lake

Donner Lake is a critical resource in the Truckee River watershed, and the Truckee Meadows Water Authority (TMWA) is the primary water rights owner. Donner provides water supply for northern Nevada and is particularly important as drought supply. Yet Donner Lake is listed as impaired by the U.S. EPA. Potential pollutant sources include roads, highways, the railroad, commercial and residential development, increased visitation, recreation, and reservoir management. Aquatic invasive species threaten the ecology, economy, and recreation at Donner Lake. Altered precipitation, fire regime, and excessive soil erosion threaten ecosystem resilience. Donner Lake consistently ranks as a high priority for TRWC and our stakeholders (TRWC, Donner Basin Assessment, 2016).

## **TMWA Benefit:**

The proposed project advances the Fund's Grant Priorities:

I. <u>Aquatic Invasive Species (AIS)</u>. The project includes an assessment of invasive mysid shrimp, crayfish and Asian clam densities at Donner Lake.

II. <u>Watershed Improvements.</u> The Lower Hoke Meadow project is part of a larger ecosystem restoration effort to improve resiliency against wildfire, improve water quality, and enhance wildlife habitat within the Boca watershed (USDA, 2020). The project will directly reduce erosion. Improved wetland function will help to filter nutrients. The State of Donner Lake will help identify and prioritize future watershed improvement projects.

IV. <u>Re-forestation and re-vegetation</u>. Meadow restoration is an effective tool to prevent impacts from drought. Hydrologically functional meadows stay moist throughout the summer months even during dry years (e.g. Balance, 2021). Additionally, functional meadows can act as a fire break in the event of wildfire.

VI. <u>Stewardship and environmental awareness</u>. Lower Hoke Meadow includes a volunteer component – community members will assist with revegetation during TRWC's annual Truckee River Day in October, 2023. Other project outreach activities include a site tour, project presentation, signage, and newsletter articles. The State of Donner Lake is a vital tool to present current conditions, identify areas of concern, and communicate priority actions to the public, stakeholders, and key decision-makers.

VII. <u>Multiple objectives</u>. This project meets several TRF objectives (1, 2, 4, 6, 7, 8).

VIII. <u>Leverage stakeholder assets and participation</u>. Significant funding and in-kind support have already been provided for both the Lower Hoke Meadow and Donner Lake projects. A portion of the support is reflected in the match component of the budget.

Project #265: KTMB's 2023 Great Community Cleanup, Truckee River Cleanup, Adopt-A-River Program, & Adult and Community Education Program

Organization: Keep Truckee Meadows Beautiful (KTMB)

#### **Project Description:**

KTMB supports a clean, invasive-weed-free community by educating residents and visitors about the importance of maintaining a healthy watershed and the efficacy of removing litter and invasive weeds to do so. Local park staff report to KTMB that weed removal is often the most challenging aspect of their job. With current staff shortages, the incorporation of weed removal projects prior to weed seeding in the spring is vital and aligns perfectly with the timing of KTMB's Great Community Cleanup. KTMB's Truckee River Cleanup and Adopt-A-River Cleanups educate and engage the community about the presence of weeds, litter, and nonpoint pollution runoff in our watershed and the underlying causes of these challenges. According to Keep America Beautiful, "About 85% of littering is the result of people's attitudes. Changing individual behaviors is the key to preventing litter — and environmental cues can make a difference." By engaging volunteers and community partners in this effort, and by having consistent outreach and messaging to support behavior change, KTMB is helping to better protect the invaluable water resources of the Truckee River.

# TMWA Benefit:

V: Support to Rehabilitation of Local Tributary Creeks and Drainage Courses - KTMB will support water quality improvement of local tributary creeks and drainage courses through the GCC, TRC, and Adopt-A-River cleanup programs. These events will engage hundreds of volunteers to remove many tons of litter and green waste from many locations along the Truckee River Corridor and greater watershed.

VI: Stewardship and Environmental Awareness - This project will raise environmental awareness about water, water quality, and watershed protection by utilizing multi-media resources and educational/community presentations to educate residents and visitors about the importance of maintaining a healthy river; how noxious weeds negatively affect native plant communities; and how litter and pollution are harmful to humans, wildlife, and the local environment and economy.

VII: Meet Multiple Objectives - This project meets multiple TRF objectives because it will remove pollution and invasive weeds from our water through cleanups and beautification projects, increase the community's ecological literacy about water quality and conservation through messaging and education, and promote volunteerism to increase environmental stewardship.

VIII: Leverage Stakeholder Assets and Participation - KTMB will collaborate with numerous municipalities, businesses, community groups, and partners to complete the cleanup and education projects proposed. Project sites and activities along the river will be identified by KTMB and local

experts and completed with planning and day-of support from partners to ensure effective programming. Together, KTMB and partners will create a cleaner community while saving taxpayer dollars.

KTMB's 2022 Great Community Cleanup, Truckee River Cleanup, and Adopt-A-River program will also support the following One Truckee River Management Plan objectives.

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

-----

**Project #267:** Watershed Education Initiative

**Organization:** Sierra Nevada Journeys (SNJ)

#### **Project Description:**

Sierra Nevada Journeys (SNJ) proposes an innovative, culturally relevant program for Washoe County area youth that includes a comprehensive approach to watershed education through the Watershed Education Initiative (WEI). The WEI had been an ongoing component of our programs since 2011, made possible thanks to the generous and ongoing support of the Truckee River Fund.

In Summary, the Watershed Education Initiative includes:

- The school-based component includes two in-class lessons (three) hours of in class instruction. Students participate in hands-on lessons 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 Watershed. 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.
- To encourage family engagement, SNJ provides teachers with a template to email parents with a summary and pictures of their child's experience after each unit along with information for family based discussion of the curriculum.
- The volunteer component of the program builds our capacity to involve the local community and broadens accessibility to our programming for low-income schools by helping to keep costs low.

After two years of virtual and hybrid teaching, we were thrilled to return to more in-person instruction during the 2021-22 school year and anticipate primarily in person programming for Fall 2022. However, Sierra Nevada Journeys remains ready and will offer a suite of flexible formats for WEI in case pandemic restrictions return. These formats include: fully in-person programming with a field trip to a local nature site; a hybrid of virtual and in person instruction with a field experience at their schoolyards; fully online with a virtual field experience; or providing lessons to teachers that they could implement independently.

### **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 #268: One Truckee River Brodhead Park Restoration Project: Phase II

Organization: One Truckee River under the Truckee River Foundation

#### **Project Description:**

OTR is proposing to commence Phase II of the Project, which directly complements the effort to develop a Framework Plan for the urban stretch of the Truckee River within the Reno-Sparks, Nevada, urban core. The OTR Vegetation Management Master Planning Steering Committee and the City of Reno selected Brodhead Park to be the Project site because the park is: 1) the first location where a "Portland Loo" was installed as part of the OTR River Restroom Project; 2) an area of focused human services outreach with unsheltered river-users, in partnership with the Washoe County and Karma Box Project (Karma Box) River Steward Program and Built for Zero by-name list; and 3) an area where Karma Box has been able to work with the unsheltered river-users to set expectations of behavior related to increasing the care of the park, Loo, and the Truckee River. Brodhead remains an area of focus for OTR, as the OTR Partnership works to complete its prioritized objectives. The City of Reno has been actively involved in Phase I of the Project, providing feedback on the design elements (during three inperson meetings) and offering its resources for implementation. The City is interested in continuing this process at Brodhead and then continuing Framework Plan implementation at other City of Reno Parks, making this Project the first of many implementation-level plans that complement the Framework Plan.

The Project will be completed in three phases.

- Phase I (nearly completed) developed a 30% (conceptual) restoration design and Basis of Design Report, in coordination with OTR and the City of Reno. Agencies provided input on design ideas and permitting needs, and the public was asked to provide input on river access. Phase I also created a preliminary implementation plan identifying potential sources of labor and materials (from OTR's partners) for construction to streamline implementation efforts and costs
- **Phase II** (current phase) will begin with a topographic survey of the project area and will then develop the 60% restoration design and complete a refined cost estimate to take the project through final design and construction (Phase III). Phase II design will also provide clarity on the

agency permits/approvals needed and further refine sources for materials for implementation (in coordination with OTR's partners).

• **Phase III** (future phase) will 1) develop the final restoration design and 2) cover restoration implementation, including site preparation, slope stabilization or bioengineering materials, plant materials, and labor for installation. Project installation will be collaborative, using government, nonprofit, and private resources available in the area. The estimated cost is \$150K to \$200K and depends on design elements, permitting requirements, materials/labor provided through the in-kind support, and the outcomes of Phase II. OTR will apply for remaining funds from the Nevada Department of Environmental Protection (NDEP), Conserve Nevada, and Laird Norton Family Foundation in 2022.

## **TMWA Benefit:**

**II. Watershed Improvements:** The Project will create an implementable restoration plan to address critical water quality issues along the urban stretch of the Truckee River. The final restoration plan for the park will be directly implementable and address impaired water quality (turbidity, temperature). Establishment of riparian vegetation and bank stabilization implemented in this Project will reduce erosion and turbidity. Increased river shading will mitigate elevated water temperature to increase hydrological resiliency.

**III. Local Stormwater Improvements:** The Project will develop a restoration plan to establish riparian vegetation along the urban stretch of the Truckee River. The restoration plan for the park will identify vegetation species and bank stabilization measures that increase infiltration and capture stormwater runoff (and associated non-point source pollution) within the Project area. The restoration plan will also inform future bank stabilization projects.

<u>IV. Re-Forestation and Re-Vegetation Projects:</u> The Project will develop and implement a plan to establish riparian trees and groundcover along the urban stretch of the Truckee River. The proposed restoration plan will enhance riparian forest health along the river, increasing wildfire resilience and improving habitat.

<u>VI. Stewardship and Environmental Awareness</u>: During Phases I and II, OTR will engage with the local community to attract stakeholders in the neighborhood who will support the Project's maintenance after implementation. Phase I solicited input from the local neighborhood on river access. Before development of 90% restoration design begins, another community input meeting will be held to obtain feedback on the 60% restoration design. Future implementation will engage the public through volunteer activities and outreach.

## VII. Meet Multiple Objectives: The Project addresses multiple goals and objectives from the OTR

Management Plan (OTRM Plan) and prioritized action items that align with TRF's funding priorities. This Project addresses OTRM Plan Goal 1: Ensure and protect water quality and ecosystem health in the Truckee River; OTRM Plan Objective 1.4: Create a rich and diverse vegetative ecosystem; OTRM Plan Objective 1.4.b: Create an approved vegetative species list to increase biodiversity and shading on lands along the Truckee River; and OTRM Plan Objective 1.4.c: Develop and implement a coordinated vegetation management plan along the river corridor. The Project will also meet the objectives and regulations of multiple agencies with jurisdiction within the Project area; regular coordination with agencies is critical to continued Project success.

VIII. Leverage Stakeholder Assets and Participation: The proposed restoration plan complements the development of the larger Framework Plan and associated tools. OTR's vision for the Framework Plan (being developed through the BOR WaterSMART grant Project) is to create a document that is a guidebook for creating implementable restoration plans. By developing this pilot restoration implementation plan and executing that plan, the Project team will be able to put different techniques into practice to ensure the Framework Plan and tools are effective. This planning effort will capitalize on and grow existing partnerships. Through the OTR Framework Plan development effort, OTR has formed a vegetation management technical working group (TWG), which includes federal/local government, agency, non-profit, private industry, and local resident representatives. This TWG has been working to identify opportunities to share resources and seek funding to plan and implement restoration projects along the urban stretch of the Truckee River. The Project's Phase I provided an opportunity to reinforce these partnerships and cultivate strong working relationships that have been indispensable to the Project and OTR's larger Framework Plan thus far. Continuing these collaborations through the construction phase will be critical for OTR's credibility in completing similar projects in the future. This proposed Project will leverage OTR's existing vegetation management planning efforts. As a pilot Project, this effort will allow troubleshooting of restoration planning and implementation challenges, so that land managers can more quickly and cost-effectively execute future projects along the urban stretch of the Truckee River. Completing this Project in tandem with the Framework Plan development has helped ensure the Framework Plan serves as a catalyst for future restoration projects.



TO:Chairman and Board MembersFROM:Mark Foree, General ManagerDATE:September 12, 2022SUBJECT:General Manager's report related to performance on goals adopted by the<br/>Board for contract year 2021/2022

#### **RECOMMENDATION**

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

#### DISCUSSION

In September 2021, the Board adopted the following specific objectives that the General Manager would be working to accomplish during the contract year and that the Board would use to evaluate the performance of the General Manager. The following is a brief summary of results.

	GENERAL OBJECTIVES	RESULTS
A	Direct the preparation of and propose financial plans, investment strategies, funding plans and adjustments to rates and charges that will continue to keep TMWA in long term financial stability; including preparation of budgets and Capital Improvement Plans and financial reporting that comply with Nevada Revised Statutes and the Securities and Exchange Commission (SEC).	Fiscal budgets including the Capital Improvement Plan were prepared and presented to the Board for preliminary and final approval. Regular updates regarding financial picture and investments were presented. In June, 2022 TMWA implemented the fourth of five scheduled rate increases. The final rate increase is scheduled for June, 2023.
В	Develop proactive communications plans to address upcoming issues (e.g., topics affecting water supply, drought planning, regional water issues, utility water system consolidation and rate changes) and to keep all stakeholders including the Board, the employees, and the customers informed through a variety of mediums. Respond to media inquiries and provide informational interviews.	Communications were delivered through multiple media including newsprint, a myriad of broadcast interviews, various presentations before local groups and legislative sub- committees, bill print messages, bill inserts, TMWA's e- newsletter, workshops and special events booths. Focus this year was on water supply, conservation, drought, and water quality. TMWA maintained communications around its response related to the coronavirus (COVID-19) pandemic and its operations, water quality, community outreach and employee safety.

G	<b>ENERAL OBJECTIVES (continued)</b> Continue having and improve on a community presence for TMWA through the Water Leadership program and participation in community committees, boards, and networking organizations and by providing presentations and information to these groups; offer Truckee River, Chalk Bluff Plant and/or other informational tours to the community.	<b>RESULTS</b> TMWA staff continues to participate in a multitude of organizations including Rotary, The Chamber, WaterStart, EDAWN, WIN, Nevada Water Innovation Institute (NWII), and participated in multiple community events. Staff continued with virtual presentations to schools and organizations like Rotary, the Builders Association of Northern Nevada (BANN), and homeowner's associations (HOA's) and have touched on many topics including water supply and resources, drought planning, conservation, development/growth and more. TMWA held its first Smart About Water (SAW) Day since the onset of the pandemic and participated in other community events such as Earth Day. TMWA staff held an open house at the Mt. Rose Water Treatment Plant on June 29 <sup>th</sup> where approximately 125 people attended and participated in a tour of the new plant. TMWA partnered with the National Forest Foundation and the United States Forest Service to fund a pilot program to train and employ an ambassador who monitored the watershed in the Galena Forest area and educated the community about responsible recreation to protect water quality and mitigate fire risk. This funding allowed the pilot program to begin and since then REI has agreed to fund an additional year.
D	Continue to create a highly productive work environment and a highly motivated employee team by developing, training, retaining and recruiting the highest quality employees.	TMWA again achieved favorable rating of over 90% in our annual third party administered Customer Satisfaction Survey – this outstanding result is a tribute to TMWA's talented and highly motivated employees. TMWA continues to maintain high certification levels for staff and provides both internal and external training opportunities. Despite the pandemic, TMWA maintained public access to the front lobby and offices, and normal operations throughout FY2022.
E	Strive for continuous improvements in processes and operations targeting initiatives that will enhance revenues and/or reduce operating costs thus keeping customer rates as low as possible.	TMWA's Operating Margin (Operating Revenue minus Expenses) ended up \$9.9 million more favorable than budget, while capital spend was approximately \$19.4m (32%) under budget (these numbers may change slightly following year-end

	ONGOING OPERATIONAL OBJECTIVES	RESULTS
a	Monitor federal legislation for opportunities to obtain funding for a variety of TMWA projects.	Staff worked with our federal lobbyists to meet with federal legislative staff to describe TMWA's priorities and to seek federal funding. TMWA was successful in receiving an earmark for three million dollars for the American Flat Project. Staff has also submitted several applications for various federal funding. Staff met with federal legislative staff during the AWWA Fly In water week.
b	Carefully analyze opportunities to acquire water rights and resources in the market in consideration of current inventory and financial constraints. Ensure adequate resources are available through TMWA's Rule 7 as directed by the Board.	Staff had the opportunity to increase Rule 7 inventory by approximately 100 acre feet . Staff negotiated and the Board approved a contract with NV Energy that allows a right of refusal for 3,457 acre feet of NV Energy water rights. Additionally, TMWA staff is developing a strategy to continue aggressively pursuing water rights purchases.
c	Provide staff support to the SAC, Truckee Meadows Community Forestry Coalition and the Truckee River Fund (TRF) Advisors and ensure communications regarding TRF projects.	This was done.
d	Manage and direct activities relative to legal issues, keeping the Board informed on all such matters.	This was done.
e	Update TMWA Administrative Instructions as required to ensure they are compliant with applicable laws and current practices. Deliver updates to the Board and employees, and implement the changes.	Substantially Complete. Staff completed review of all Administrative Instructions (AIs) and provided comments and feedback for recommended changes. These were provided to TMWA's employment counsel for a comprehensive review in 2021. TMWA's employment counsel completed their review with recommended changes in late August 2022. Staff is in the process of evaluating organizational impacts of recommended changes and will next work with IBEW as some of the changed items are subjects of mandatory bargaining. After providing IBEW an opportunity to meet on any of the changed items, a final redline version will be provided to the board as part of a future agenda item. It should be noted, Staff has made individual updates/changes on an as needed basis. Examples include, the addition of the Open Communication and Complaint Resolution AI and changes to the Prohibited Harassment AI.
f	Minimize cost impacts to customers by maximizing investment and hydroelectric income, pursuing revenue enhancement and collection opportunities, pursuing process improvements and projects that drive savings in TMWA expenses, and actively pursuing grant/low-interest loan funding for projects.	TMWA generated over \$2.5 million in hydroelectric revenue this year and plant availability was at 100%. TMWA meets regularly with investment managers to optimize investment returns while ensuring compliance with TMWA's investment policy. These items along with recurring operating cost reviewed by management will keep TMWA's rates as low as possible. Staff implemented a program to increase the number of paperless bills, which doubled the number of customers going paperless and reduced the cost of paper billing by roughly \$136,000 annually.

1	<b>SPECIFIC OBJECTIVES</b> Develop customer conservation communications plan for the 2022 irrigation season, including water supply planning, and detailed public/customer communications/outreach plan - present to the SAC for their recommendation and Board for approval no later than the April Board Meeting.	<b>RESULTS</b> The communication plan was developed prior to the irrigation season and presented to the Board at their April meeting. The messaging for this summer was focused on the fact that despite being in the third year of drought, normal river flows are projected through October (well beyond TMWA's peak demand season), and drought reserves will not be necessary to meet customer demand. Standard water conservation protocols are in place and have been enforced this summer, the most important of which is assigned day watering. Through a variety of public outreach methods, this summer's campaign reinforced the importance of only taking what you need, watering responsibly, not wasting water, and following your assigned day schedule. The region will go into this upcoming winter with plenty of drought reserves in place, but otherwise
		dependent on the outcome of this winter's snowpack for Truckee River flows this next Fiscal Year (2023). The campaign has been well received by our customers in FY 2022. TMWA staff has continued to work extensively with the cities and
2	Continue working with city and county staff regarding regional water issues (including wastewater, effluent management stormwater, etc.), regional economic development initiatives, etc. including the OneWater Nevada initiative that includes pilot testing and analysis related to infiltrating or injecting highly treated wastewater into the ground for later use, assistance with TMWRF return flow obligations, etc.	Takwa staff has continued to work extensively with the cities and Takoe Reno Industrial General Improvement District (TRIGID), regarding the planned delivery of reclaimed water to the TRIGID system for industrial use, with a focus on water rights and the return flow management agreement. TMWA continues in a leadership role along with OneWater Nevada and UNR to investigate the feasibility of groundwater augmentation using Category A+ advanced purified water. Staff successfully negotiated an ILA with the City of Reno for the design and cost sharing of a 2 MGD \$100 million+ advanced purified water treatment facility at American Flat. Assessments of the hydrogeologic feasibility of irrigating with recycled water and recharging potable water in Palomino Valley continues. TMWA staff continues to provide technical support to the Regional Effluent Management Team (made up of representatives from the Cities of Reno, Sparks, Washoe County, UNR and WRWC) in evaluating various effluent management strategies.
3	Continue analyzing water supply options related to fringe area development where private systems exist, make recommendations to Board and follow Board direction regarding same.	Staff engages in ongoing coordination with Great Basin Water Company in Cold Springs and Spanish Springs Valley. Staff continues to analyze water supply options related to fringe area development where private systems exist and will bring any recommendations to the Board when they arise.
4	Monitor and participate in Legislative activities during the 2022 Interim Legislative Session, prepare and deliver presentations to Legislative Committee as requested, schedule meetings with staff, Board legislative committee members, lobbyists and legislators, keep the Board updated and informed regarding legislative matters, and pursue Board direction regarding Legislative issues. Facilitate open communications between legislators and the TMWA Board.	Staff monitored interim legislative activities and worked closely with TMWA legal counsel and lobbyists, to update TMWA's Legislative Subcommittee. TMWA staff and lobbyist met with legislators regarding TMWA's priorities, infrastructure funding, water supply, and watershed protection. Staff also was involved in the State Engineer proposed regulation regarding applications for extension of time, and Nevada Division of Environmental Protection (NDEP) regulations pertaining to antidegradation and ecological and aesthetic waters. TMWA continues to monitor regulatory actions and continues to meet with NDEP to address analyzing improvements to the Central Truckee Meadows Remediation District program and the review process with Washoe County Health District for water projects.

	SPECIFIC OBJECTIVES (contin	ued) RESULTS
5	Update the 5-year Funding Plan and present to the SAC and the Board. Propose Board actions based on the results of the planning cycle updates. Implement Board direction with regard to funding plan outcomes.	This was done at the Board Strategic Planning Workshop in October 2021.
6	Analyze the need for any necessary rule changes, water facility charge adjustments, etc. and report results of analysis to the SAC and Board of Directors and follow Board direction regarding same.	Phase 4 rate adjustment of 2.5% went into effect May 2022. Staff analyzed and presented proposed adjustments to Rate Schedules BSF & WSF to the Board which were subsequently approved with an effective date of January 31, 2022.
7	Continue to develop/refine strategies to optimize conjunctive use of surface water and groundwater resources; further develop/refine drought supply operational strategies; and implement plans.	TMWA continues to recharge groundwater to support water quality improvement goals. TMWA is working with the Nevada Division of Water Resources and the Nevada Division of Environmental Protection for permit coverage on 27 additional wells. Three existing production wells on the Mt. Rose Fan area were equipped and began recharging last year. Through conjunctive use, groundwater pumping was reduced by about 2,900acre-feet between the Mt. Rose, Spanish Springs, Lemmon Valley and former STMGID areas, and 1,018 acre- feet was recharged system-wide during FY 2022. TMWA will contribute \$500,000 toward the Ladybug fuels reduction project, which will treat 2,500 acres around Stampede Reservoir. Staff continues to work with other partners on developing a fuels reduction plan for the Middle Truckee River watershed.
8	Continue to develop, refine and implement strategies to mitigate pre- merger groundwater conditions on the Mt. Rose fan including completion of construction and starting up the Mt. Rose Water Treatment Plant.	TMWA has continued to rest groundwater wells on the Mt. Rose fan in areas where other resources are available. Water levels are continuing to respond favorably to these passive recharge efforts. TMWA completed the Mt. Rose Water Treatment Plant (in spring 2022), which will allow for expansion of the active recharge program on the Mt. Rose fan and for delivery of White's Creek water in the area to reduce groundwater pumping. This passive and active groundwater recharge will assist in the sustainable groundwater management for the Mt. Rose fan area. As stated above, TMWA staff held an open house on June 29 <sup>th</sup> where approximately 125 people attended and participated in a tour of the new water treatment plant.
9	Continue to implement the succession/staffing plan to address and fill vacancies created by senior leadership retirements (General Manager, Director Engineering and Director Distribution) scheduled to occur in 2022. Continue staff development in support of TMWA's succession plan (as reviewed with the Board at the August 2021 meeting) with a focus on leadership and critical position succession.	TMWA has continued to exercise its succession plan as presented to the Board in August in 2019. The vacancies created by senior leadership retirements (General Manager, Director of Engineering and Director of Distribution) have been filled and TMWA leadership continues staff development in support of TMWA's succession plan.

	SPECIFIC OBJECTIVES (contin	ued) RESULTS
10	Continue working under the terms of the MOU with Carson City and Storey County, to determine surplus water availability to TMWA from the Marlette Lake Water System.	Both Carson City and Storey County updated their future water demand needs. TMWA and the State are discussing options of purchasing water to be released from Marlette Lake to facilitate a planned dam rehabilitation project.
11	<b>NEW:</b> Complete negotiation of ILA between TMWA and City of Reno regarding cost sharing, design, construction management, operations and related responsibilities for the Advanced Purified Water Demonstration Project at American Flat. Provide periodic updates to the Board at appropriate milestones.	TMWA staff presented the ILA between TMWA and City of Reno to the Board in December 2021 and cost sharing ILA in May 2022, both of which were approved. The City of Reno approved an initial design contract with AECOM and TMWA will be leading the final design effort over the next 18 months using a CMAR project delivery process.
12	<b>NEW:</b> Provide an update on the results of the feasibility study of Palomino Farms, and recommend whether or not to move forward with an option agreement involving Palomino Farms, Reno, Sparks and Washoe County.	The feasibility study was completed and presented to the Board. The feasibility study noted that additional work is required to address issues such as, return flow, interbasin transfer, permitting and cost sharing opportunities. The Board directed staff to continue pursuing the additional required information.
13	<b>NEW:</b> Analyze opportunities to increase water conservation for drought resiliency, use best available science to evaluate global climate change models applicable to this region, and advise the Board.	Staff continues to evaluate hydrological trends in the Truckee River Basin, and stays current with the latest publications and peer reviewed journal articles related to climate science, as well as any new developments in climate change modeling and/or ways to improve upon the scenario based methods utilized in the 2020-2040 water resource plan.



TO:Board of DirectorsFROM:Mark Foree, General ManagerDATE:September 12, 2022SUBJECT: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 July 22, 2022 through September 14, 2022.

Since TMWA's last board meeting, TMWA has issued three emergency procurements under NRS 332.112. These emergency procurements totaled \$94,232.64 and were to repair a booster pump station failure at Mt. Rose Tank, a well failure at Arrowcreek Well 1, and the Glendale low lift pump 1.



TO: Board of Directors
THRU: Mark Foree, General Manager
FROM: John Enloe, Director Natural Resources
BY: Bill Hauck, Water Supply Supervisor
DATE: September 13, 2022
SUBJECT: September 2022 Operations Report

#### **SUMMARY**

- Lake Tahoe storage is at 8% of capacity, and is projected to be at or below its natural rim by mid-October
- The overall water supply outlook for the region is still good enough however, to ensure normal river flows through at least the third week of October
- This is beyond TMWA's peak water demand season, and no drought reserves will be required this year (like they were in 2021)
- TMWA's upstream reserve storage is in very good shape, with more water in place than ever before between Donner and Independence reservoirs, and water stored under the terms of TROA (~67,000 AF)
- Combined, total upstream Truckee River reservoir storage is ~22% of capacity
- Customer demand averaged 128 MGD over the first full week of September
- Hydroelectric generation in August was 4,241 MWh with revenue of \$318,873

(A) Water Supply

- River Flows Truckee River discharge at the CA/NV state line was 500 cubic feet per second (CFS) this morning. This is normal for this time of the year, as the 113-year median flow for this day at Farad is 502 CFS.
- Outlook Despite overall upstream reservoir storage at 22% of capacity, and Lake Tahoe projected to go below the rim by the end of October, the water supply outlook for the remainder of the year is good. Normal river flows are projected through at least the third week of October, getting us beyond our peak customer demand season. As such, no drought reserves will be required to meet customer demand in 2022, unlike last year. Unfortunately, there isn't going to be much (if any) carry over storage in the Truckee River system (besides TMWA's reserve storage) as we head into the winter months. This

is going to leave the region once again completely dependent upon this upcoming winter for the following year's water supplies.

• **Reservoir Storage** - Overall Truckee River reservoir storage is ~22% of capacity. The elevation of Lake Tahoe is 6223.51 feet. Storage values for each reservoir as of September 13<sup>th</sup> are as follows:

Reservoir	Current Storage (Acre-Feet)	% Capacity (Percent)
Tahoe	61,910	8%
Boca	24,972	61%
Stampede	113,645	50%
Prosser	13,741	46%
Donner	8,287	87%
Independence	16,231	93%

In addition to the 24,518 acre-feet of storage between Donner and Independence, TMWA also has 42,368 acre-feet of water stored between Boca and Stampede reservoirs under the terms of TROA. TMWA's total combined upstream reservoir storage as of this writing is 66,886 acre-feet.

## **(B) Water Production**

• **Demand** - TMWA's customer demand averaged 128 million gallons per day (MGD) over the first full week of September. Overall, surface water made up ~84% of our supply and groundwater the other ~16%.

## (C) Hydro Production

**Generation** - Truckee River flows at Farad (CA/NV state line) for the month of August averaged 501 CFS. All plants were on-line for 31 days and 100% available.

Statistics for the month are as follows:

Plant	Generation	%	Generation	Revenue	Revenue
	Days	Availability	(Megawatt Hours)	(Dollars)	(Dollars/Day)
Fleish	31	100%	1,829	\$137,950	\$ 4,450
Verdi	31	100%	1,644	\$122,940	\$ 3,966
Washoe	31	100%	768	\$ 57,983	\$ 1,870
Totals	93	-	4,241	\$318,873	\$ 10,286



TO: Chairman and Board Members
THRU: Mark Foree, General Manager
FROM: Stefanie Morris, Director, Legal and Regulatory Affairs
DATE: September 13, 2022
SUBJECT: Report Water Resources and Annexation Activity

#### <u>RULE 7</u>

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

Beginning Balance		3,061.56 AF
Purchases of water rights	3.42 AF	
Refunds	0.00 AF	
Sales	- 245.07 AF	
Adjustments	16.02 AF	
Ending Balance		2,835.93 AF

Price per acre foot at report date: \$7,800

#### 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		7,569.51 AF
Committed water rights	- 39.88 AF	
Ending Balance		7,529.63 AF

Price per acre foot at report date: \$45,753.75 (SFR and MFR); \$39,690 (for all other services)<sup>1</sup>

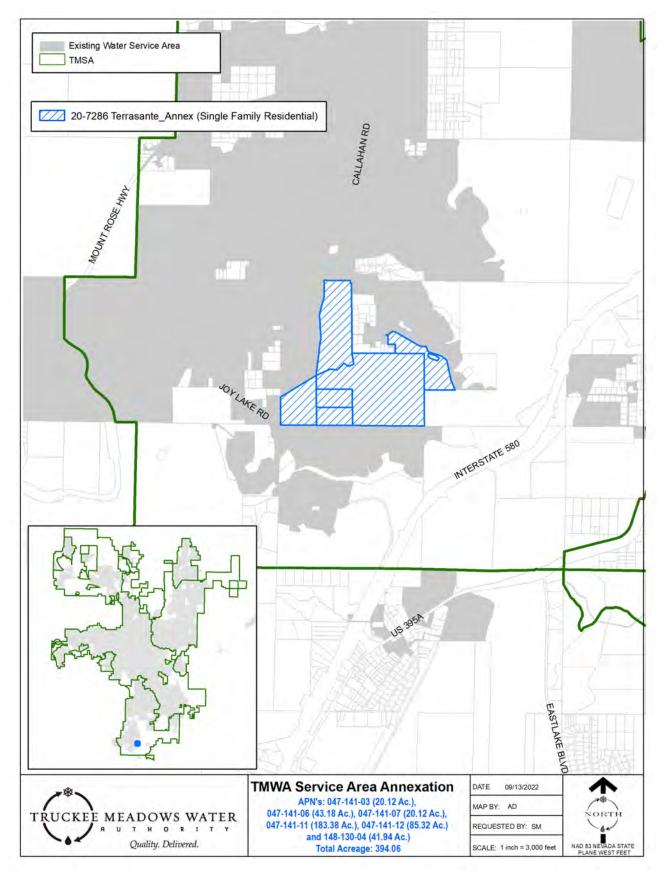
<sup>&</sup>lt;sup>1</sup> Price reflects avoided cost of Truckee River water right related fees and TMWA Supply & Treatment WSF charge.

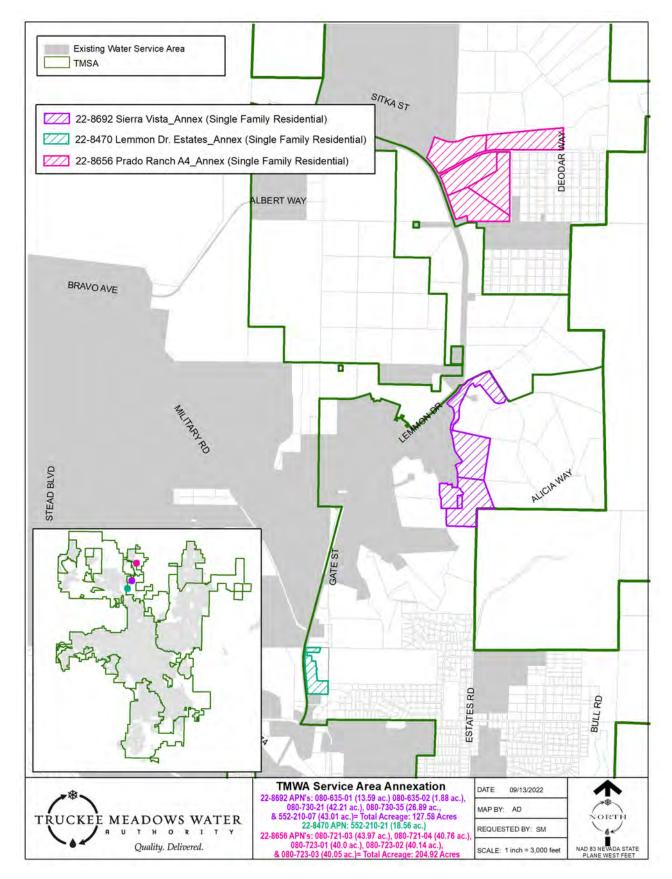
# WATER SERVICE AREA ANNEXATIONS

Since the date of the last report, 745.12 acres have been annexed into TMWA's service area. (See attachments.)

### **INTERRUPTIBLE LARGE VOLUME NON-POTABLE SERVICE**

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







TO:Board of DirectorsTHRU:Mark Foree, General ManagerFROM:Marci Westlake, Manager Customer ServiceDATE:September 21, 2022SUBJECT:July and August Customer Service Report

The following is a summary of Customer Service activity for July and August 2022.

#### <u>Ombudsman</u>

• No calls for July and August.

#### **Communications**

- Chuck Swegles, Jordan Thomas, Dan Dourte, Amanda Filut, Mike Link & TMWA crew, held a training/mentor day with Juvenile Services Youth Employment Program on July 27<sup>th</sup> and 9 people attended.
- John Enloe had a virtual presentation for Truckee Meadows Tomorrow on August 15<sup>th</sup>.

#### **Conservation (2022 Calendar year)**

- 1,100 Water Usage Reviews
- 6,198 Water Watcher Contacts

#### **Customer Calls – July and August**

- 16,731 phone calls handled
- Average handling time 5 minutes, 00 seconds per call.
- Average speed of answer :34seconds per call.

#### **Billing – July and August**

- 269,766 bills issued.
- N/A (0.00%) corrected bills.
- 38,293 customers (28%) have signed up for paperless billing to date.

#### **<u>Remittance – July and August</u>**

- 38,046 Mailed-in payments
- 50,332 Electronic payments
- 100,205 Payments via AutoPay (EFT)
- 35,397 One-time bank account payments
- 280 Store payments
- 1,007 Pay by Text
- 10,910 IVR Payments
- 1,645 Reno office Payments
- 76 Kiosk Payments

#### **Collections – July and August**

- 30,355 accounts received a late charge
- 7,295 Mailed delinquent notices, 0.02% of accounts
- 1,903 accounts eligible for disconnect
- 1,309 accounts were disconnected (including accounts that had been disconnected-for-non-payment that presented NSF checks for their reconnection)
- .10 % write-off to revenue

## Meter Statistics – Fiscal Year to Date

- 0 Meter retrofits completed
- 1,613 Meter exchanges completed
- 465 New business meter sets completed
- 134,234 Meters currently installed