



NTCD ANNUAL WORKPLAN FY 2022



INTRODUCTION

The Nevada Tahoe Conservation District (NTCD) is part of approximately 3,000 Conservation Districts functioning in all 50 States and U.S. Territories. Conservation Districts are subdivisions of State government and are unique locally-led conservation agencies with our roots dating back to the dust bowl era. Districts provide natural resource and conservation practices management and technical assistance to land occupiers (owners, renters, and producers) as well as work cooperatively with Federal, State, and Local governments in the delivery of conservation programs.

The Nevada Tahoe Conservation District is one of 28 Conservation Districts functioning under the auspices of Nevada Revised Statute, Chapter 548. The District is a Governmental Subdivision of the State of Nevada and a public body corporate created in 1976. The District encompasses all the land in the Lake Tahoe Basin residing in the State of Nevada including portions of Douglas and Washoe Counties and the Carson City Rural Area. In addition, the District has a formal partnering relationship with our California counterpart, the Tahoe Resource Conservation District.

The Nevada Tahoe Conservation District is Nevada Lake Tahoe's local conservation agency and source for technical assistance. The District is a non-regulatory and grant-funded agency that works closely with its Federal, State, and Local partners to deliver conservation programs to the Nevada Lake Tahoe Community. The District is guided by a Board of Supervisors made up of elected and appointed community leaders. The Board of Supervisors provides direction to the District's full-time staff in carrying out the District's mission statement, vision, and guiding principles. As described in our mission statement, the District seeks to provide its constituents with superior technical assistance, educational resources, and conservation leadership with the goal of protecting Lake Tahoe's natural resources.

NTCD OPERATIONS AND ADMINISTRATION

1. Continue community, state, and government awareness of NTCD and its programs by continually updating the NTCD Website and giving public presentations within the community.
2. Continuing review and update of comprehensive District policies and procedures adopted by NTCD Board of Supervisors.
3. Continue a training program with funding to support technical, professional, and human resource training for all District staff.
4. Continue to revise and adapt job descriptions for all current and future positions for the District.
5. Development of a comprehensive finance/funding plan for FY 2023 for review and approval by the NTCD Board of Supervisors.

6. Maintain an operational budget of 12 months and operational reserve one month or more in advance.
7. Update the retention of records and rotate out files and information no longer viable.
8. Coordinate budget responsibilities between the District Manager and the Administrator.
9. Participate in the Tahoe Inter-Agency Executives Steering Committee meetings.
10. Participate in the Lake Tahoe Summit.
11. Coordinate the Annual Audit in compliance with State and Federal statutes.

PROJECT WORK FOCUS

NTCD is actively involved in many conservation programs and projects with our partners in the Lake Tahoe Basin. Several of our projects continue efforts that have been ongoing for many years, while others are just beginning. The following information outlines the district project objectives for NTCD during the upcoming work year.

ENGINEERING PROJECTS

1. Provide technical oversight, design, permitting, and construction contracting of water quality and stream restoration projects funded by various grants.
2. Plan, design, and implement the various projects within the Burke Creek Watershed and Kahle Drive vicinity in collaboration with the USFS, NDOT, NDSL, Oliver Park, Tahoe Transportation District, Tahoe Beach Club, and Douglas County.
3. Plan and design the Marlette Creek SR28 Crossing Realignment and Water Quality Improvement Project in collaboration with the USFS, NDOT, NDSL, Tahoe Transportation District, and Washoe County.
4. Plan and design the Saxon Creek Aquatic Organism Passage Project in collaboration with the USFS and California agencies.
5. Plan and design the Marla Bay Water Quality Improvement Project in collaboration with the NDOT, NDSL, Marla Bay GID, Zephyr Heights GID, PineWild HOA, and Douglas County.
6. Plan various “community-based” area-wide stormwater treatment projects in collaboration with EPA, TRPA, and project area stakeholders.
7. Adaptively manage and enhance the Brautovich SEZ Restoration and Park Rehabilitation Project in collaboration with Douglas County and the TRPA.

8. Assist NDOT with design and permitting of various stormwater outfalls and construct projects using design-build relationship with contractor.
9. Assist Douglas County with various stormwater projects and modeling.
10. Assist Washoe County with various engineering projects in the Lake Tahoe Basin.
11. Assist conservation districts throughout Nevada with various conservation-related engineering projects.
12. Assist the Incline Village General Improvement District with design, permitting, and implementation of the Burnt Cedar Beach Erosion Control Project.
13. Design and assist with permitting for the City of South Lake Tahoe Bijou Park Creek Erosion Control Project In partnership with Wildscape Engineering.
14. Assist the City of South Lake Tahoe, Tahoe Resource Conservation District, and Tahoe Transportation District with various engineering projects.

SCIENCE AND CONSERVATION PROJECTS

1. Continue development of a stormwater infrastructure inventory and performance tracking architecture in Nevada-Tahoe in which Washoe County hosts in-house.
2. Continue monitoring the Rosewood Creek Restoration Continuation Project and the Rosewood Creek Area A SEZ Restoration Project.
3. Work closely with the Regional Stormwater Monitoring Programs to establish a robust data inventory and collection/analysis protocol for stormwater quality in the Tahoe basin.
4. Continue to assist Washoe and Douglas Counties and NDOT to implement various aspects of the (Total Maximum Daily Load) TMDL tracking program.
5. Continue partnership with EPA to complete Community Watershed Planning Project in the Lake Tahoe Basin. Focus topics include:
 - a. Stormwater Management
 - b. Public/private joint activities
 - c. Public outreach
 - d. BMP implementation
 - e. BMP Maintenance outreach and program development
 - f. Forest health
 - g. Other conservation elements including: Water Conservation, Noxious Weed Abatement, Defensible Space, Nutrient Management, etc.
6. Work with Washoe, Douglas, and Placer County to treat invasive weed infestations adjacent to US Forest Service lands with grant money secured in 2020 through the Forest

Service. Seek out and secure additional funding to continue invasive weed abatement efforts and outreach for this field season and beyond. The focus will be to assist private property owners and eradication efforts of priority invasive weeds. Continue to work with the Lake Tahoe Basin Weed Coordinating Group and attend quarterly meetings.

7. Continue work on Tahoe Yellow Cress (TYC) outreach and conservation planning to assist lakefront homeowners with the conservation of habitat and protection of TYC populations. Attend the quarterly TYC Adaptive Management Working Group (AMWG) meetings. Work with California Fish and Wildlife Service, Nevada Department of Forestry, and the Tahoe Regional Planning Agency to develop a lake-wide Safe Harbor Agreement. As funding allows.



8. Work on possible funding to allow NTCD to focus on forest health outreach for 2021-2022.
9. Work on possible funding to allow NTCD to focus on water conservation and vegetation selection outreach for 2021-2022.
10. Work on possible funding to continue community-based urban agriculture in Lake Tahoe's south shore.

MONITORING FOCUS

1. Develop proposals to answer Nevada TMDL quality questions and inform future EIP water quality/erosion control projects for Nevada implementers and funders. Submit to appropriate funders including NDEP, NDSL, BOR, and USFS.
2. Monitor the water quality associated with the Rosewood Creek Area A restoration and the Continuation Project downstream.
3. Monitor conductivity in Glenbrook Creek in partnership with NDOT and the USGS.
4. Monitor the relationship between pavement rehabilitation and water quality at Kahle Drive.
5. Work with local jurisdictions to register catchments to gain clarity credits to meet the TMDL.



6. Conduct Nearshore Human Health water quality monitoring for the Tahoe Regional Planning Agency.
7. Assist Nevada Department of Transportation, California Department of Transportation, and Washoe County with BMP and Road RAM (Rapid Assessment Methodologies) to comply with regulations and requirements of their TMDL needs.



PUBLIC OUTREACH FOCUS

Public Outreach is extremely important to the District’s ability to engage and inform our outreach stakeholder constituency in Nevada Lake Tahoe consisting of Regulators, Funders, Implementers, Property Owners, General Improvement Districts (GIDs), and Homeowner Associations (HOAs). All of our staff and programs are responsible for outreach, including the four main functions: Advocacy, Outreach, and Environmental Policy. This year we plan to enhance our outreach efforts using press releases, videos, social media, and project tours.

FUNDERS AND PARTNERS

FEDERAL

USDA Natural Resources Conservation Service
USDA Forest Service
USDOI Bureau of Reclamation
US Army Corps of Engineers
US Environmental Protection Agency
US Geological Survey

STATE

Nevada Division of Environmental Protection
Nevada Department of Transportation
Nevada Division of State Lands
Department of Conservation and Natural Resources Conservation District Program
Nevada Division of Forestry
Nevada Department of Wildlife
Nevada Association of Conservation Districts
Nevada Conservation Commission
University of Nevada, Cooperative Extension
California Department of Transportation

LOCAL

Tahoe Regional Planning Agency
Tahoe Resource Conservation District, California
Washoe County
Douglas County
Placer County, California
El Dorado County, California
City of South Lake Tahoe
Zephyr Cove GID
Marla Bay GID
Skyland GID
Oliver Park GID
Lakeridge GID
Incline Village GID
Kingsbury GID
Roundhill GID
Tahoe Transportation District
PineWild HOA
South Shore Transportation Management Association

PRIVATE

Wildscape Engineering
Tahoe Beach Club
Edgewood Tahoe
Barton Health



PO Box 915, Zephyr Cove, NV 89448
775-586-1610 NTCD.org

PROPOSED BUDGET Fiscal Year 2022

ESTIMATE OF RECEIPTS For the Fiscal Year Ending June 30, 2022

Receipt Source	Amount
State Funds - NvACD	\$4,000
County Funds	\$160,000
Washoe	\$5,000
Douglas	\$25,000
City Funds - Carson City	\$0
Grants for Projects - Federal	\$500,000
Grants for Projects - State	\$400,000
Grants for Projects - Local	\$150,000
Grants for Projects - Private	\$50,000
TOTAL INCOME	\$1,294,000

ESTIMATE OF EXPENDITURES For the Fiscal Year Ending June 30, 2022

Receipt Source	Amount
Employee Salary	\$524,756
Fringe Benefit Expense	\$288,616
Building Expense	\$1,170
Conference & Training-Expense	\$500
Dues and Subscriptions-Expense	
Membership/Dues NvACD	\$800
Membership/Dues NACD	\$200
Membership/Dues Staff	\$400
Membership/Dues District - Other	\$100
Equipment-Expense	
Computer Hardware & Software	\$1,000

(INCOME ESTIMATE MUST EQUAL EXPENSE ESTIMATE)
Submit by June 1st to: State Conservation Districts Program



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Computer Maintenance & Repair	\$500
Office Equipment & Furniture	\$300
Rental/Leasing Fees Equipment	\$2,500
Repairs & Maintenance Equipment	\$500
Insurance-Expense	\$5,000
Meeting/meals - Expense	\$150
Professional Fees-Expense	
Accounting	\$700
Audit	\$12,500
Bank fees	\$250
Rents and Leases	\$15,000
Supplies-Expense	
Office Supplies	\$1,000
Photocopies	
Postage and Delivery	\$400
Publication/Printing	\$100
Supplies-Expense - Other	
Telecommunications	
Internet Fees	\$150
Phone Services	\$3,500
Vehicles-Expense	
District Vehicle Use	-\$2,500
Fuel-Expense	\$1,000
License & Maintenance	\$1,400
Mileage Reimbursement Expense	\$100
Subcontractor Fees-Expense	\$433,907
TOTAL EXPENSES	\$1,294,000

(INCOME ESTIMATE MUST EQUAL EXPENSE ESTIMATE)
Submit by June 1st to: State Conservation Districts Program



ANNUAL REPORT

Fiscal Year 2021

**July 1st, 2020
to
June 30th, 2021**

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MISSION STATEMENT

“TO PROMOTE THE CONSERVATION AND IMPROVEMENT OF THE LAKE TAHOE BASIN’S NATURAL RESOURCES BY PROVIDING LEADERSHIP, EDUCATION AND TECHNICAL ASSISTANCE TO ALL BASIN USERS.”

VISION STATEMENTS

Organization

“TO BE A HIGHLY RESPECTED AND EFFECTIVE CONSERVATION ORGANIZATION IN THE LAKE TAHOE BASIN WITH SUFFICIENT AND SUSTAINED FUNDING TO MEET OUR CONSERVATION EFFORTS.”

Natural Resource

“A NEVADA LAKE TAHOE BASIN WHERE NATURAL RESOURCES AND NATURAL BEAUTY ARE PROTECTED AND ENHANCED IN HARMONY WITH THE USE AND ENJOYMENT OF RESIDENTS AND VISITORS.”

DISTRICT SUPERVISORS

SUPERVISORS - EXECUTIVE COMMITTEE

Cary Sarnoff, Chair
Bob Cook, Vice Chair
Bill Kelly, Secretary/Treasurer

SUPERVISORS

Maureen McCarthy, PhD
Barbara Perlman-Whyman
Alexis Hill Representing Washoe County
Danny Tarkanian, Representing Douglas County
Doug Martin, Representing Carson City

DISTRICT STAFF

Meghan Kelly–District Manager/Senior Project Engineer
Dana Olson – Assistant District Manager
Domi Fellers – Environmental Scientist
Patrick Johnson – Staff Engineer
Eamonn Kerley – Project Engineer

*NTCD Board of Supervisors and Staff as of June 30th, 2021

INTRODUCTION

The Nevada Tahoe Conservation District (NTCD) is one of approximately 3,000 Conservation Districts functioning in all 50 States and U.S. Territories. Conservation Districts are sub-divisions of State government and are unique locally led conservation agencies. Districts provide resource management and technical assistance to land occupiers (owners, renters, and producers) as well as work cooperatively with Federal, State, and Local governments in the delivery of conservation programs.

The Nevada Tahoe Conservation District is one of 28 Conservation Districts functioning under the auspices of Nevada Revised Statute, Chapter 548. The District is a Governmental Subdivision of the State of Nevada and a public body corporate created in 1976. Prior to July 1st, 1976 the land area that now makes up the NTCD was part of a larger Conservation District known as the Tahoe Verdi Conservation District. Local leaders realized the unique natural resource issues of the Lake Tahoe Basin and realigned District boundaries to create the NTCD. They believed the realignment would allow for more effective conservation management of Lake Tahoe's natural resources. Now the District encompasses all of the land in the Lake Tahoe Basin residing in the State of Nevada including portions of Douglas and Washoe Counties and the Carson City Rural Area.

The Nevada Tahoe Conservation District is Nevada Lake Tahoe's local conservation agency and source for technical assistance in the areas of erosion and conservation management. The District is a non-regulatory and grant funded agency that works closely with its Federal, State, and Local partners to deliver conservation programs to the Nevada Lake Tahoe Community. The District is guided by a Board of Supervisors made up of elected and appointed community leaders. The Board of Supervisors provides direction to the District's full-time staff in carrying out the District's mission statement, vision statements, and guiding principles. As described in our mission statement, the District seeks to provide its constituents with superior technical assistance, educational resources, and conservation leadership with the goal of protecting Lake Tahoe's natural resources.

DISTRICT ADMINISTRATION AND OPERATIONS

Included in our accomplishments during the past year was the completion of the FY 2020 audit. The audit showed a financial outlook for the District which continues to reflect a financial position of accountability. Internal controls are in place to ensure the solvency of the District's funds.

The District submitted its Indirect Cost Rate with the Department of the Interior for the year 2022. The rate was approved in April 2021.

Other administration and operations accomplishments for fiscal year 2021:

- Successfully held nine regular board meetings.
- Participation in national and state conservation programs.
- Successfully met all deliverable requirements of the Conservation Commission.
- District Staff and Supervisors continued to provide support for the NvACD.

PROJECT UPDATES

WATER QUALITY AND EROSION CONTROL PROJECTS

Scientists, researchers, and water quality specialists in the Lake Tahoe Basin have identified untreated storm water runoff, eroding soils, and impaired or disturbed stream environment zones (SEZ) as key threats to the water quality of Lake Tahoe. The District is focused on identifying and correcting areas where point and non-point source pollution from stormwater runoff, eroding soils, and impaired SEZs are negatively impacting the quality of Nevada Lake Tahoe surface and ground waters.

In partnership with the Nevada Division of State Lands (NDSL), Nevada Division of Environmental Protection (NDEP), Tahoe Regional Planning Agency (TRPA), the US Forest Service Lake Tahoe Basin Management Unit (USFS), the US Bureau of Reclamation (USBOR) jurisdictions such as the Nevada Department of Transportation (NDOT) and Douglas and Washoe County, as well as other basin agencies, the District identifies and prioritizes critical areas and projects. Once projects have been identified, the District works diligently to assist project proponents in obtaining funding from federal, state, local and private sources to design and construct the projects. During project design, the District, its grantors, and a project-specific Technical Advisory Committee provide technical oversight to ensure the project meets the natural resource, water quality, and community objectives of for the specific project and the region.

NTCD continues working on several Water Quality and Restoration Projects with NDSL, NDOT, TRPA, Douglas and Washoe County, the US Forest Service, and USBOR. The cooperative effort between these agencies has led to several design and implementation projects including the Rosewood Creek Restoration Project, the Burke Creek/Rabe Meadow Riparian Restoration Project, the Kahle Water Quality Basin Implementation Project, the Brautovich SEZ Restoration and Park Rehabilitation Project, and highway drainage improvement projects throughout the Lake Tahoe Basin.

Rosewood Creek Restoration Project - Continuation

The purpose of the Rosewood Creek Restoration Project - Continuation is to continue to stabilize portions of the Third Creek watershed to reduce sediment loads to Lake Tahoe as well as expand healthy riparian areas. Nearly a half mile of creek was restored as part of a project completed in October 2015. A new project was authorized by the Bureau of Reclamation to address a 400 foot section of creek just downstream from this restored reach. Design started on this reach in May 2017 and construction was completed October 2019. Monitoring is ongoing through FY 2022 to determine the project's contribution to water quality improvements.



New channel, culvert, and floodplain at Rosewood Creek Area A SEZ Restoration continues to undergo monitoring

NDOT Assistance

NTCD engineers assist NDOT Hydraulics with stormwater-related issues on Tahoe Basin highways upon request. NTCD engineers perform site visits, hydrology, conceptual designs, order necessary materials, and coordinate with a construction contractor, permitting agencies, and NDOT to implement the projects. NTCD has also designed a stormwater decant facility to be installed in summer 2022, prepared a training for NDOT Maintenance staff for best practices for TMDL compliance in the Lake Tahoe Basin, and is conducting an outfall inventory to inform future maintenance projects.

Douglas County Assistance

NTCD engineers assist Douglas County Public Works with stormwater-related issues upon request from the Stormwater Program Manager. NTCD engineers perform site visits, hydrology, cost estimates, and conceptual designs and present this work to the County for use. NTCD also provides oversight of the County's Stormwater Maintenance Crew as requested. A portion of this funding assists the District with finding and applying for grants or other funding sources for priority County projects.

Bijou Park Creek Watershed Restoration Project

NTCD teamed up with consultants including Wildscape Engineering, Northwest Hydraulic Consultants, and Catalyst Environmental Solutions to complete this planning project for the City of South Lake Tahoe that will advance stormwater collection and treatment designs in the Bijou Park Creek Watershed. NTCD is assisting the team with TMDL modeling and conceptual engineering design.

Burke Creek/Rabe Meadow Riparian Restoration Project

NTCD is working with US Forest Service, the Tahoe Beach Club, and other stakeholders to address conservation issues in Rabe Meadow and along Burke Creek. The project will result in the full design and implementation of two to three projects over the next three years including the decommissioning of a ditch and realignment of Burke Creek near Nevada Beach and a restoration effort near Jennings Pond.

Brautovich SEZ Restoration and Park Rehabilitation Project

NTCD is working with Douglas County and other stakeholders to complete more than a half of an acre of stream zone restoration and a park rehabilitation at Brautovich Park in Douglas County. The project was designed in Spring and Summer of 2020 and was constructed in late summer and fall of 2020. The restoration portion of the project is complete and the project is undergoing irrigation and monitoring in 2021. NTCD also helped the County design a playground for the reimagined park and bicycle and garbage facilities.

Marlette SR28 Crossing and Realignment and Water Quality Improvement Project

The Marlette Creek SR28 Crossing Realignment and Water Quality Improvement Project is a multi-phase project with the goal of improve stream function, water quality, and fish habitat and provide erosion control and stormwater treatment at directly connected outfalls from State Route 28. NTCD will provide planning, engineering, permitting, bidding services, construction oversight, and overall project management. This multi-phase project is slated to be constructed in 2022 and 2023 and is currently in design and permitting. During fiscal year 2021, surveying, modeling, biological assessments, conceptual designs, and preliminary permitting was completed.

This restoration project will coordinate with planned NDOT stormwater improvements on SR28, modify or replace an existing culvert below SR 28, repair channel incision, improve riparian vegetation and reduce conifer encroachment, realign a portion of the creek to reduce road embankment erosion, remove remnant structures within Marlette Creek and the South Fork of Marlette Creek, and reconfigure a culvert crossing on the South Fork of Marlette Creek.

The Project seeks to achieve the following objectives:

1. Improve water quality by eliminating untreated stormwater runoff from SR 28 from entering Marlette Creek
2. Improve in-channel and riparian habitat by stabilizing the bed and banks of both the South Fork and main branch of Marlette Creek.
3. Expand habitat for native fish by providing fish passage under SR 28.
4. Control adjacent erosion and protect vital highway infrastructure on a scenic recreation corridor by stabilizing road shoulders and realigning the creek, if necessary.

Saxon Creek Aquatic Organism Passage Project

The Saxon Creek Aquatic Organism Passage Project, Phase 2, is a follow up project to Phase 1 completed in 2018 which replaced a failing road culvert with a bridge and realigned and restored 140 feet of channel upstream of the Fountain Place Road. Phase 2 will complete the restoration of an additional 360 feet of stream channel to achieve the project goals outlined above. Phase 2 will also perform necessary adaptive management on Phase 1 of the restoration.

The goal is build upon Phase 1 of the Project by restoring the section of channel downstream from the Fountain Place road crossing and performing adaptive management on the upstream section of the channel to achieve hydrologic and geomorphic continuity and provide for suitable passage conditions for the target aquatic species through the entire restored reach. The target aquatic organisms include juvenile salmonids and the Paiute sculpin (*Cottus beldingi*) species.

NTCD will provide planning, engineering, permitting, bidding services, construction oversight, and overall project management. The Project is slated to be constructed in 2022 and is currently in design and permitting. During fiscal year 2021, surveying, modeling, biological assessments, conceptual designs, and preliminary permitting was completed.

Zephyr Cove Elementary School Playground Project

NTCD provided planning, engineering, permitting, bidding services, construction oversight, and overall project management for the regrading, drainage improvements, and play area rehabilitation at a local elementary school. The project designed and permitting in Spring of 2021 and construction was completed September 2021.

Niegel Dam Project

NTCD completed required modeling for the California Division of Safety of Dams for this earthen dam in El Dorado County. The modeling and final report were completed in Spring 2021.

Cave Rock State Park Erosion Control Project

The State of Nevada owns various parcels within the Lake Tahoe Basin. The Nevada Division of State Lands (NDSL) is tasked with managing the protection of resources at these parcels. Cave Rock State Park (CRSP) was established in 1967 as a boat launch and parking area and has since become a popular recreation site on Lake Tahoe's east shore. Due to the construction of US-50 influencing the creation of the State Park, much of the land surrounding the park is designated as US-50 right-of-way. In 2016, the Nevada Department of Transportation (NDOT) completed a retrofit of the Cave Rock Tunnel for US-50 and blocked off some of the street parking that was occurring for pedestrian access into CRSP. Volunteer trails from years of access are prominent on the southeastern edge of the park.

The goal of the the Project is to address, repair, and prevent erosion issues at Cave Rock State Park. The objectives are as follows:

1. Eliminate user-created trails at CRSP by preventing access through fencing, and repairing existing erosion through a mix of slope stabilization and revegetation.
2. Assess the existing Tahoe yellow cress enclosure at CRSP for possible relocation or expansion.

3. Determine and record the CRSP boundary ownership.
4. Coordinate with the Nevada Department of Transportation on permitting, fencing, and erosion repairs at CRSP.

NTCD began working on this project in May 2021 and is acting as the overall project manager, designer, and construction inspector. The erosion control aspects of the construction are planned for Fall 2021 and the fencing, guardrail, and Tahoe yellowcress phase is planned for Spring 2022.

Community Watershed Planning Projects

Through a partnership with the Environmental Protection Agency, NTCD is completing landscape-scale and area-wide conservation planning projects on the Nevada side of the Lake Tahoe Basin. NTCD will develop and plan community-based watershed strategies with private and public landowners in coordination with the public agencies responsible for stormwater and forest health management. Because previous rounds of funding have laid the groundwork for community watershed planning, the project has identified three specific focus areas and targeted goals for each:

1. Develop Community Watershed Plan for Edgewood Creek Watershed.
Goal: Work with commercial private properties adjacent to Edgewood creek to complete their BMPs and obtain certificates of completion from the TRPA.
2. Complete development of community-based watershed strategies for the Burke Creek Watershed.
Goal: Determine appropriate maintenance strategies for the Kahle Drive Complete Street Project that will enhance implementation of the Lake Tahoe TMDL.
3. Work with Lake Tahoe Nevada fire districts to prioritize and plan for forest health practices in and adjacent to Lake Tahoe Nevada streams (SEZs)

Goal: Work with Tahoe Douglas Fire Protection District and/or North Lake Fire Protection District to identify areas near streams that are untreated for forest health, assess at least 5 miles of stream corridor using existing data and field-collected data, and create a stream corridor forest management plan for one or both Districts that includes priority treatment areas, opportunities to use harvested materials on site for channel restoration, permit materials, and partnership opportunities.

MONITORING AND MODELING PROJECTS

NTCD's environmental monitoring program is designed to provide answers to the scientific and natural resource questions of Lake Tahoe's resource managers. The program delivers these answers by the following means:

- Evaluation of environmental restoration projects
- Inventory of Basin-wide project accomplishments
- Inventory of Nevada's stormwater assets
- NDEP compliance monitoring
- Stream health and water quality
- Advanced stormwater treatment analysis
- Pollutant Load Reduction Modeling
- Sediment Load Reduction Planning

Lake Clarity Crediting Program Registration & TMDL Implementation

The Lake Clarity Crediting Program Registration and TMDL Implementation project provides support to Washoe County and NDOT to comply with their individual Interlocal Agreements with NDEP. The ILAs document the specific obligations and commitments of attaining the load reduction milestones associated with the Lake Tahoe TMDL using the Lake Clarity Crediting Program (LCCP) Tools. The project will assist Washoe County and NDOT in meeting the annual load reduction targets and attaining the 15-year 2026 milestone by registering pollutant

controls such as stormwater treatment BMPs, private parcel BMPs and road operations. Registrations and credit attainment show commitment to the TMDL goal of improving Lake clarity. The project will review existing and create new PLRM models as needed and refine inputs, perform the required rapid assessment methodology (RAMs), help determine inspection and maintenance frequency for specific treatment BMPs, register the catchments in the Lake Tahoe Stormwater tools and obtain awarded credits. Additionally, NTCD participates in program improvements meetings and program advisory committees since LCCP is based on an adaptive management approach.

Caltrans LCCP Support

NTCD performs the Road RAM for Caltrans on an annual basis and provides Lake Clarity Crediting Program (LCCP) support when needed. To comply with the LCCP, Caltrans must perform Road RAM a minimum of four (4) times annually, with the option to perform additional RAMs if directed by Caltrans or CDM Smith. NTCD collects the field data for entry into the Lake Tahoe Stormwater Tools and provides CDM Smith road condition score updates for annual compliance. With NTCD's extensive knowledge and daily use of the LCCP Stormwater Tools interface, NTCD has been able to assist Caltrans, CDM Smith and Michael Baker International navigate the LCCP registration and declaration process.

Rosewood Creek Water Quality Monitoring

NTCD received additional funding to continue monitoring on Rosewood Creek with the goal of quantifying the restoration's impact on meeting the Tahoe TMDL. The water quality sampling systems above Northwood Blvd. and below SR28 continue to be operational and are monitoring Rosewood Creek flow above and below the Area A restoration. With the new funding, an additional monitoring station above SR28 was installed to separate the impact of SR28 road runoff. Additionally, NTCD will conduct a fish count, macroinvertebrate monitoring, cross-section surveying, photo monitoring, and remote sensing photo comparison to compare flood plain water connectivity before and after the creek restoration. These efforts will continue through FY 2022.

TRCD Implementer's Monitoring/NDOT

A pollutant source analysis conducted by the Lahontan Regional Water Quality Control Board (Water Board) and Nevada Division of Environmental Protection (NDEP) identified the largest source of fine sediment particles to Lake Tahoe as urban stormwater runoff, comprising 72 percent of the total fine sediment particle load. Based on the pollutant source analysis, the seven Lake Tahoe Basin jurisdictions were determined the main Lake Tahoe stormwater dischargers. The California jurisdictions were issued a National Pollutant Discharge Elimination System permit (permit) by the Lahontan Water Board in August 2011. The Nevada jurisdictions including NDOT entered into Inter-local Agreements (ILAs) with NDEP shortly after, that required them to reduce pollutant loads to Lake Tahoe from urbanized areas within their jurisdictions. The permits and ILAs encouraged the jurisdictions to work collaboratively to fulfill the regulatory requirements. The seven (7) jurisdictions have since then partnered together to form the Implementers' Monitoring Program (IMP), a coordinated effort for implementing capital improvement projects and improving management actions to reduce pollutant loads to Lake Tahoe to meet the TMDL standard. The Tahoe Resource Conservation District (Tahoe RCD) was hired by both the IMP and NDOT to establish a coordinated network of long-term monitoring sites for collecting reliable information on urban stormwater runoff to track pollutant load reduction progress under the Lake Tahoe TMDL using RSWMP protocols. These sites provide critical information related to changes in stormwater quality status and trends in response to implementing water quality improvement projects and improved management actions in urban catchments. The Tahoe RCD contracted with NTCD to provide water quality monitoring and lab work assistance to the Tahoe RCD for work contracted by Lake Tahoe jurisdictions. The NTCD/Tahoe RCD contract is renewed on an annual basis.

Lower Wood Creek Water Quality Monitoring

NTCD is the lead Pollutant Load Reduction Model (PLRM) modeler for the Lower Wood Creek (LWC) Phase I Water Quality Improvement Project. NTCD completed both the Baseline and Existing Conditions Technical

Memo documenting all PLRM and GIS shapefile refinements and the Alternatives Technical Memo documenting all PLRM and GIS shapefile refinements for the design treatment BMPs alternatives. Washoe County is currently constructing Phase I of the project with Phase II scheduled for next summer 2022. Because both Phase I and II design was complete to 90% design, NTCD's PLRM results should be mostly complete for both phases with minimal changes to the PLRM results once registration occurs. NTCD is assisting Washoe County with permit compliance on Phase I and will continue play a key role in Phase II as PLRM support, a TAC member and permit compliance for Phase II summer 2022. Washoe County anticipates a full LWC Water Quality Improvement Project registration for Water Year 2023.

2021 Nearshore Human Health Assessment

The Tahoe Regional Planning Agency (TRPA) and Lahontan Regional Water Quality Control Board (Lahontan) collaborated again in 2021 to execute a Nearshore Human Health Assessment for Lake Tahoe. The 2021 assessment included total coliform and *Escherichia coli* (*E. coli*) bacteria monitoring. The Nevada Tahoe Conservation District (NTCD), in partnership with the Tahoe Resource Conservation District (Tahoe RCD), monitored 8 beach locations over a 10-week period. The monitoring provides an assessment of human health risks associated with lake-water contact during recreational activities. Additionally, NTCD partnered with the Lahontan Water Board to collaborate sampling efforts and compare field sampling methods and laboratory analysis methods. The data can be found in the California Environmental Data Exchange Network (CEDEN). The monitoring was completed on September 14, 2021 and the project will wrap up by December 2021.

Washoe County 10-year Lake Clarity Credit Program Projects and Credit Plan

NTCD prepared a plan outlining Lake Clarity Crediting Program projects and credits for the next 10-years for Washoe County. The plan outlines the projects to register utilizing treatment BMPs, private parcel BMP and improved road operations. The plan ensures Washoe County attains the 15-year milestone and will help the County plan for the 20-year goal (water year 2031). NTCD identified the high potential credit areas using the 2016 Baseline Report and current knowledge of registrations, performed GIS and field assessments to locate potential treatment options, and performed Pollutant Load Reduction Model (PLRM) analysis to determine potential credits. Washoe County will rely heavily on road operations, which are relatively less expensive credits than new water quality improvement or erosion control projects.

Invasive Weeds

The District continues to be involved with the Lake Tahoe Basin Weed Coordinating Group (LTBWCG) by attending to quarterly meetings.

Through a grant with the United States Forest Service, NTCD has been able to start working with Placer and Douglas County on treating priority weed populations. This funding is also being used for community outreach including printing 1000 copies of the Invasive Weeds of the Tahoe Basin booklet that is used extensively by field staff and the general public.

Tahoe Yellow Cress

The NTCD attended quarterly Tahoe yellow cress Adaptive Management Working Group meetings. This fiscal year, the District had limited funding for outreach and education efforts to inform lake front homeowners about Tahoe Yellow Cress. It did continue to work with partners on a Safe Harbor Agreement application in hopes to develop a program to improved conservation of Tahoe yellow cress on private properties.



Tahoe Yellow Cress

COMMUNITY PARTNERSHIPS

Funding by our community partners has been essential to NTCD operations. The general fund funding provided by Douglas and Washoe County enables NTCD to leverage a small amount of funding into larger projects. General fund assistance is critical for activities like grant writing and project planning and a consistent long term commitment is desired.

Douglas County Board Of Commissioners

NTCD received \$25,000 in general financial assistance this fiscal year. Douglas County also provides NTCD with legal support through its District Attorney's office.

Carson City Board Of Supervisors

Although there are very few developed areas within the Carson City Rural Area, the Board of Supervisors has recognized the benefits of protecting Lake Tahoe Basin natural resources, for the thousands of residents and visitors who vacation and recreate in the basin.

Washoe County Board Of Commissioners

NTCD received \$10,000 of engineering funds to support the District's conservation efforts. Washoe County continues to partner with NTCD on various projects in the Lake Tahoe Basin including the Catchment Registration Projects.

Other Partners

NTCD is involved in several other partnerships in addition to our Community Partnerships. During FY 2020, NTCD has Memorandums of Understanding or contracts with the USDA Natural Resources Conservation Service, the Nevada Division of Environmental Protection, the Nevada Division of State Lands, Tahoe Resource Conservation District, Nevada Department of Transportation, and the Tahoe Regional Planning Agency. We are fortunate to have such a diverse and engaged group of partners who are dedicated to natural resource issues at Lake Tahoe.

Working groups are also an important partnership NTCD is actively involved with. Our current participation includes:

- Lake Tahoe Interagency Monitoring Program
- South Tahoe Environmental Education Coalition
- Lake Tahoe Basin Weed Coordinating Group
- Stormwater Quality Improvement Committee

- Nevada Tahoe Water Suppliers Association
- TRPA Pathway Technical Working Groups
- TRPA Pathway Forum
- Lake Tahoe Federal Advisory Committee
- Nevada Stormwater Association
- Tahoe Interagency Executive Committee
- Washoe Tribe of Nevada
- University of Nevada Cooperative Extension
- Parasol Foundation
- Tahoe Yellow Cress Adaptive Management Working Group and Executive Committee
- Lake Tahoe Basin Weed Coordinating Group

FUNDING

Nevada Tahoe Conservation District funding during FY 2021 was provided by Local, State and Federal partners including:

LOCAL

Washoe County
 Douglas County
 Tahoe Resource Conservation District
 Tahoe Regional Planning Agency
 City of South Lake Tahoe
 Tahoe Transportation District

STATE

NV Division of Conservation Districts
 NV Division of Environmental Protection
 NV Department of Transportation
 California Department of Transportation

FEDERAL

USDA Bureau of Reclamation
 USDA Forest Service
 US Environmental Protection Agency

PRIVATE

National Association of Conservation Districts
 Tahoe Beach Club
 BNY Mellon Trust of Delaware
 Sustainable Community Advocates
 Zephyr Cove Elementary School Parents' Club

A comprehensive overview of the District's finances is available in our FY 2020 annual audit. A copy of which is available at the district.

YEAR-END FINANCIAL REPORT
NEVADA TAHOE CONSERVATION DISTRICT
SUMMARY OF RECEIPTS

For the Fiscal Year Ending June 30, 2021

RECEIPT SOURCE	AMOUNT
State Funds	4,000
County Funds	25,000
City Funds	
Other Government Funds (specify)	
Administrative Income (specify)	202,786
Interest – CD, Savings and Checking	
Grants for projects (specify)	1,042,930
Rental Income (equipment, etc.)	
Contributions	
Building/Property Rental Fees	
Other Sources of Income	450
TOTAL INCOME	1,275,166

FINAL FINANCIAL REPORT DUE SEPT. 30TH
TO: STATE CONSERVATION COMMISSION
CONSERVATION DISTRICTS PROGRAM
901 S. STEWART STREET #101, CARSON CITY, NV 89701
PHONE (775) 684-8600 FAX- (775) 684-2715

YEAR-END FINANCIAL REPORT

**NEVADA TAHOE CONSERVATION DISTRICT
SUMMARY OF EXPENDITURES**

For the Fiscal Year Ending June 30, 2021

<u>EXPENDITURE</u>	<u>AMOUNT</u>
State Funds	4,000
County Funds	25,000
City Funds	
Other Government Funds (specify)	
Administrative Income (specify)	202,786
Interest – CD, Savings and Checking	
Grants for projects (specify)	1,042,930
Rental Income (equipment, etc.)	
Contributions	
Building/Property Rental Fees	
Other Sources of Income	450
TOTAL INCOME	1,275,166

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NEVADA TAHOE CONSERVATION DISTRICT
FINANCIAL SUMMARY
For the Fiscal Year Ending June 30, 2021

1. BEGINNING OF YEAR FUND BALANCE:

(Must Equal Funds Reported From End of Previous Fiscal Year)

a.	List all bank accounts:	
	Certificate of Deposit.....	\$ _____
	Checking Account.....	\$ <u>275,591</u>
	Savings Account.....	\$ _____
b.	Cash on hand	\$ _____
c.	Total fund balance.....	\$ <u>275,591</u>
d.	Accounts receivable grants	\$ <u>135,387</u>
e.	Accounts payable	\$ <u>34,954</u>
f.	Total funds available	\$ <u>376,024</u>

2. END OF YEAR FUND BALANCE:

a.	List all bank accounts:	
	Checking Account.....	\$ <u>116,737</u>
	Savings Account.....	\$ _____
b.	Cash on hand	\$ _____
c.	Total fund balance.....	\$ <u>116,737*</u>
d.	Accounts receivable grants	\$ <u>153,972</u>
	i. Grant #1 <u>See attached</u> - \$ _____	
	ii. Grant #2 _____ - \$ _____	
e.	Accounts payable	\$ <u>18,744</u>
	i. Item #1 <u>See attached</u> - \$ _____	
	ii. Item #2 _____ = \$ _____	
f.	Total funds available	\$ <u>251,965</u>

3. SUMMARY:

a.	Beginning of year fund balance (1.c. above)	\$ <u>275,591</u>
b.	Plus total receipts (from Receipt Summary).....	\$ <u>1,275,166</u>
c.	Less total expenditures (from Expense Summary)	\$ <u>1,251,070</u>
d.	Must equal end-of-year fund balance (2.c. above)	\$ <u>299,687*</u>

*(3d. will not equal 2c. The revenue reported at 6/30/21 is not fully received.)

4. ASSETS: List all assets (equipment, land, buildings, etc.) and estimate their value:

a.	Vehicles.....	\$ <u>10,000</u>
b.	Equipment.....	\$ <u>20,000</u>
c.	\$ _____

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NEVADA TAHOE CONSERVATION DISTRICT

For the Fiscal Year Ending June 30, 2021

USE OF STATE APPROPRIATED MONEY

Amount of State Appropriated Money: \$ 4,000

Money Spent:

Category (specify) Administrative \$ 4,000

Matching Funds Spent:

Category (specify) \$ 0.00

Balance Remaining: \$ 0.00

Authorized Signature:

Name and Title: Dana Olson, Assistant District Manager Date: 9-28-2021

NEVADA TAHOE CONSERVATION DISTRICT

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