

**NORTHERN NEVADA WATER PLANNING COMMISSION
("NNWPC")
AGENDA**

Wednesday, October 4, 2017

1:30 p.m.

Washoe County Commission Chambers
1001 East Ninth Street
Reno, Nevada

Notes:

1. Items on this agenda on which action may be taken are followed by the term "for possible action". Non-action items are followed by an asterisk (*).
2. Public comment is limited to three minutes per speaker and is allowed during the public comment periods, and before action is taken on any action item. Comments are to be directed to the Commission as a whole. Persons may not allocate unused time to other speakers. 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.
3. Items on this agenda may be taken out of order, combined with other agenda items for consideration, removed from the agenda, moved to or from the Consent Items section, or delayed for discussion at any time. Arrive at the meeting at the posted time to hear item(s) of interest.
4. Supporting material provided to the Commission for the items on the agenda is available to members of the public at the NNWPC offices, 1001 E. Ninth St., Reno, NV, from Jennifer Purgitt, (775) 954-4665, and on the NNWPC website at <http://www.nnwpc.us>
5. 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) 954-4665 no later than 24 hours prior to the meeting.
6. In accordance with NRS 241.020, this agenda has been posted at the following locations: Reno City Hall (1 East First Street), Sparks City Hall (431 Prater Way), Sun Valley GID (5000 Sun Valley Blvd.), Truckee Meadows Water Authority (1355 Capital Blvd.), Washoe County Administration Building (1001 E. Ninth Street), South Valleys Library (15650A Wedge Parkway), the NNWPC website: <http://www.nnwpc.us> and the State of Nevada Website: <https://notice.nv.gov>

1. Roll Call and determination of presence of a quorum. *
2. Public Comments. * (Three-minute time limit per person.)
3. Approval of agenda. **(For Possible Action)**
4. Approval of the minutes from the August 2, 2017, meeting. **(For Possible Action)**
5. Request for funding, in an amount not to exceed \$10,000 from the Regional Water Management Fund ("RWMF"), to partially support a proposal by the Truckee Meadows Regional Planning Agency ("TMRPA") for a Regional Sustainability Baseline Study, as part of its update of the Truckee Meadows Regional Plan; and, if approved, authorize the Program Manager to execute an interlocal agreement with TRMPA for that purpose— Jim Smitherman, Water Resources Program Manager. **(For Possible Action)**
6. Report by the Desert Research Institute ("DRI") on last winter's cloud seeding operations for the Truckee River and Lake Tahoe Basins, and alternatives for operations for the upcoming winter; discussion and possible recommendation to the Western Regional Water Commission ("WRWC") for funding in an amount not to exceed \$100,000 from the RWMF to support similar limited operations for the

Northern Nevada Water Planning Commission Agenda for October 4, 2017

upcoming winter – Frank McDonough, DRI and Chris Wessel, NNWPC Water Management Planner. **(For Possible Action)**

7. Report on DRI's Cloud Seeding Precipitation Gauge Monitoring Project – Frank McDonough and Chris Wessel. *
8. Authorize the Program Manager to execute an interlocal agreement with the Truckee Meadows Water Authority ("TMWA"), in an amount not to exceed \$40,000 from the RWMF, for the Bedell Flat Rapid Infiltration Basin ("RIB") Investigation (A State of Nevada grant will reimburse the RWMF.) – Jim Smitherman. **(For Possible Action)**
9. Discussion and possible recommendation to the WRWC to approve an amendment to the Agreement for Legal Services for the WRWC and the NNWPC, to extend the Agreement through June 2020 on the same terms and conditions – Jim Smitherman. **(For Possible Action)**
10. Program Manager's Report – Jim Smitherman. *
 - a. Report on the status of projects and Work Plan supported by the RWMF;
 - b. Financial Report on the RWMF for fiscal year fiscal year 17-18 period 3.
11. Discussion regarding possible agenda items for the November 1, 2017 NNWPC meeting, and other future meetings; and possible direction to staff – Jim Smitherman. **(For Possible Action)**
12. Commission comments. *
13. Staff comments. *
14. Public Comments. * (Three-minute time limit per person.)
15. Adjournment. **(For Possible Action)**

*Indicates a non-action item

DRAFT - MINUTES
NORTHERN NEVADA WATER PLANNING COMMISSION

Wednesday, August 2, 2017

The regular meeting of the Northern Nevada Water Planning Commission ("NNWPC") was held in the Washoe County Commission Chambers, 1001 East Ninth Street, Reno, Nevada and conducted the following business:

The meeting was called to order by Chair Henderson at 1:32 p.m.

1. Roll Call and Determination of Presence of a Quorum

Voting Members Present: Danielle Henderson, Michael DeMartini, Michael Drinkwater, John Enloe, John Flansberg, Bill Hauck, Mickey Hazelwood, Darrin Price, David Solaro, John Zimmerman

Voting Members Absent: John Martini, Mervin Wright

Non-Voting Members Present: Thomas Pyeate, Cindy Turiczek

Non-Voting Members Absent: Harry Fahnstock, My-Linh Nguyen, Ron Penrose

Staff Members Present: Jim Smitherman; Chris Wessel; Donna Fagan; John Rhodes, Legal Counsel; Jennifer Purgitt

2. Public Comment

Cathy Brandhorst spoke on various topics.

3. Approval of Agenda (For Possible Action)

COMMISSIONER DRINKWATER MADE A MOTION TO APPROVE THE AGENDA, SECONDED BY COMMISSIONER PRICE. THE MOTION CARRIED UNANIMOUSLY WITH TEN (10) MEMBERS PRESENT.

4. Approval of Minutes from the June 7, 2017, Meeting (For Possible Action)

COMMISSIONER HAUCK MADE A MOTION TO APPROVE THE JUNE 7, 2017, MINUTES, SECONDED BY COMMISSIONER SOLARO. THE MOTION CARRIED UNANIMOUSLY WITH TEN (10) MEMBERS PRESENT.

5. Report on the Advanced Water Treatment Technologies Demonstration Project being conducted by the University of Nevada, Reno ("UNR") - Jim Smitherman, NNWPC Water Resources Program Manager; Rick Warner, Washoe County Community Services Department; and Dr. Krishna Pagilla, UNR.

Rick Warner, Washoe County Community Services Department, presented a progress report on the Advanced Water Treatment Technologies Demonstration Project. The presentation included information on the following: Reclaimed Water Feasibility Study; Regional Feasibility Phase Activities; UNR Scope of Work; Advanced Water Treatment Technologies Demonstration Project Tasks; Task 1: Project Rationale and Justification for Potable Reuse; Task 1 Findings; Task 2: Treatment Technologies that can meet Nevada DEP Regulations/Requirements; Task 2 Recommendations; Task 3: Basis of Design for the Demonstration Project; Bureau of Reclamation WaterSMART Grant; Next Steps; Nevada Water Innovation Campus Kick Off Reception August 24, 2017.

John Rhodes, Legal Counsel, responded to questions from Commissioner Price about ownership of intellectual property, stating that he does not think the interlocal agreement dealt with the eventuality of a salable product being developed. It was more focused on ways to use existing technology that would be available to all of the public entities who have contributed. That is an issue they can look into in the future when renewing the contract. Mr. Rhodes stated they will follow up on that issue with Dr. Pagilla as well.

Commissioner Solaro absent at 1:58 p.m.

6. Report on the One Truckee River project, a partnership between Keep Truckee Meadows Beautiful (“KTMB”) and the Nevada Land Trust (“NLT”) to coordinate existing efforts, and identify priorities for new efforts, for long-term management and sustainability of the Truckee River - Lynda Nelson, NLT; and Christi Cakiroglu, KTMB.

Christi Cakiroglu and Lynda Nelson gave a presentation highlighting the project’s progress and accomplishments over the past two years, including: Establishment of a broad-based Core Planning Team; involvement of a diverse team of stakeholders; development and implementation of the One Truckee River Management Plan, and its adoption by Reno, Sparks and Washoe County.

7. Report on the analysis of historical precipitation data collected by Washoe County; discussion and possible recommendation to the Western Regional Water Commission (“WRWC”) to approve a proposal from the Desert Research Institute (“DRI”) for continuation of the regional precipitation monitoring project, in an amount not to exceed \$20,000 from the Regional Water Management Fund (“RWMF”); and possible direction to staff - Chris Wessel, NNWPC Water Management Planner. (For Possible Action)

Dr. Dan McEvoy, DRI, presented his findings and answered questions regarding his analysis of the precipitation data and recommendations for the future of the project.

Commissioner Drinkwater asked how knowing how much rain is falling in the Smoke Creek Desert benefits the ratepayers of the Truckee Meadows who fund this body.

Chris Wessel, NNWPC Water Management Planner, discussed the value of this analysis and stated that these projects were started because it was recognized early on that the basins that are being studied have the potential for water importation projects. It will be incumbent on us as a community and Washoe County to ensure that whatever water resources are brought to bear for this community are valid and sustainable. This is filling a data gap that will be useful in the future.

Commissioner Enloe further discussed the value of this analysis in determining where development is approved.

COMMISSIONER ENLOE MADE A MOTION TO RECOMMEND THAT THE WRWC APPROVE DRI’S PROPOSAL FOR CONTINUATION OF THE REGIONAL PRECIPITATION MONITORING PROJECT FOR FISCAL YEAR 2017-2018, IN AN AMOUNT NOT TO EXCEED \$20,000 FROM THE RWMF, SECONDED BY COMMISSIONER HAUCK. THE MOTION CARRIED WITH EIGHT (8) IN FAVOR AND ONE (1) OPPOSITION BY COMMISSIONER DRINKWATER.

Commissioner Price absent at 2:50 p.m.

8. Report on Lemmon Valley flood activities and planning - John Flansberg, City of Reno; and David Solaro, Washoe County.

Commissioner Flansberg reported on the City of Reno's Lemmon Valley flood activities and planning. The elevations of Swan Lake and Silver Lake are being measured on a weekly basis to determine how quickly they are receding through evaporation. There is concern that we will likely see water levels in the next water year up to about where they were at their peak this water year. Washoe County and City of Reno staff have looked at the roadway at Lemmon Drive and are continuing to work on what can be done to improve the situation for transportation on Lemmon Drive. "We are hesitant to remove the barriers knowing we will most likely have to have them back in place based on whatever type of winter we might see."

Commissioner DeMartini asked how the elevation at the lakes is being measured.

Commissioner Flansberg stated they use set locations for consistency and are taking weekly measurements.

Commissioner DeMartini discussed his efforts to measure the elevation of White Lake in Cold Springs and how much more accurate that measurement is when using continuous monitoring gauges rather than measuring manually once a week. There needs to be more of a plan to prevent future flooding than just waiting for evaporation and hoping we don't get much rain.

Commissioner Flansberg stated he is interested in Commissioner DeMartini's thoughts on what the City of Reno could do in terms of removing water from the lakes that flooded.

Commissioner DeMartini asked how he and Commissioner Flansberg can discuss this topic outside of the NNWPC meeting without violating the open meeting law.

Mr. Rhodes will look into that and get back to Commissioner DeMartini.

Staff will check with Commissioner Solaro to see if he has comments on this item to bring back at the October meeting.

9. Program Manager's Report – Jim Smitherman.

- A. Report on the status of projects and Work Plan supported by the RWMF
- B. Financial report on the RWMF for fiscal year 16-17 year to date and fiscal year 17-18 period 1

Mr. Smitherman presented an overview of the staff reports for these items.

10. Discussion regarding possible agenda items for the September 6, 2017, NNWPC meeting, and other future meetings, and possible direction to staff – Jim Smitherman. (For Possible Action)

Possible future agenda items include:

- Report on cloud seeding program from last winter
- Report on non-Regional Water Management Fund funding sources and proposed alternatives for cloud seeding for the coming winter
- Report on the cloud seeding monitoring project
- Report on the Nevada Water Innovations Campus
- Truckee River Information Gateway Maintenance contract

- Report on the Washoe ET Project
- Update on the Stormwater Program

COMMISSIONER FLANSBERG MADE A MOTION TO CANCEL THE SEPTEMBER 6, 2017, MEETING AND INCLUDE THE ABOVE POSSIBLE AGENDA ITEMS ON THE OCTOBER MEETING AGENDA, SECONDED BY COMMISSIONER ENLOE. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) MEMBERS PRESENT.

11. Commission Comments

None

12. Staff Comments

None

13. Public Comment

Ginger Pierce discussed her geothermal plant observations and concerns regarding wells.

Danny Cleous discussed concerns regarding the safety of Lemmon Valley Road and effluent water continuing to be discharged into the lake.

Cherie Shorter discussed concerns regarding road issues in Lemmon Valley.

Cathy Brandhorst spoke on various topics.

14. Adjournment (For Possible Action)

The meeting was adjourned at 3:35 p.m.

Respectfully submitted by Christine Birmingham.

Approved by:

Danielle Henderson, Chairman

APPROVED BY COMMISSION IN SESSION ON _____, 2017.

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: September 28, 2017

TO: Chairman and Members, Northern Nevada Water Planning Commission (“NNWPC”)

FROM: Jim Smitherman, NNWPC Water Resources Program Manager

SUBJECT: Request for funding, in an amount not to exceed \$10,000 from the Regional Water Management Fund (“RWMF”), to partially support a proposal by the Truckee Meadows Regional Planning Agency (“TMRPA”) for a Regional Sustainability Baseline Study, as part of its update of the Truckee Meadows Regional Plan (“TMRP”); and, if approved, authorize the Program Manager to execute an interlocal agreement with TMRPA for that purpose.

SUMMARY

TMRPA is preparing for a comprehensive update of the TMRP. NNWPC staff has been working closely with TMRPA and the Land Use and Transportation Resiliency Committee to prepare a Regional Sustainability Baseline Study that will inform the sustainability-related policies considered for incorporation into the TMRP. As part of the update, TMRPA is considering the development and incorporation of more robust regional sustainability policies. The TMRP is the region’s guiding land use, infrastructure, and natural resources planning document. Master plans of local jurisdictions and affected entities, including the Regional Water Management Plan, must be consistent with or conform to the TMRP.

TMRPA’s Request for Qualifications for consulting services is attached to provide details on the proposed study.

RECOMMENDATION

Staff recommends that the NNWPC authorize the Program Manager to execute an interlocal agreement with TMRPA, in an amount not to exceed \$10,000 from the RWMF, for the Regional Sustainability Baseline Study.

JS:jp

Attachment

Request for Qualifications

Consulting Services for a Regional Sustainability Baseline Study For the Truckee Meadows Region

**Truckee Meadows Regional Planning Agency
1105 Terminal Way, Suite 316
Reno, NV 89502**

**Deadline for Submittal:
Tuesday, August 22, 2017
No later than 4:00 p.m.**

1.0 INTRODUCTION

The Truckee Meadows Regional Planning Agency (TMRPA), on behalf of the Land Use and Transportation Resiliency Committee (LUTRC), is issuing a Request for Qualifications (“RFQ”) for consulting services to create a Regional Sustainability Baseline Study for the Truckee Meadows Region. Accordingly, TMRPA is inviting consultants to respond to this RFQ. Included in this RFQ is a draft scope of potential services and tasks and other information describing this potential opportunity.

All questions pertaining to this RFQ shall be directed to Kimberly H. Robinson, Executive Director of Regional Planning, at 775-321-8385. The due date and time for this RFQ is Tuesday, August 22, 2017, at 4:00 p.m.

2.0 BACKGROUND

In 2016, the Land Use and Transportation Committee was formed as a sub-committee to the Sustainability Partners in Northern Nevada. The committee is focused on promoting sustainability and resiliency in the areas of land use and transportation.

In preparation for a comprehensive update of the Truckee Meadows Regional Plan (Regional Plan), TMRPA, in partnership with the LUTRC, is preparing a Regional Sustainability Baseline Study that will inform the sustainability-related policies considered for incorporation into the Regional Plan. The Regional Plan is the region’s guiding land use, infrastructure, and natural resources planning document to which the master plans of local jurisdictions and affected entities must conform. As part of the update, TMRPA is considering the development and incorporation of more robust regional sustainability policies.

TMRPA was created in 1989 by the Nevada State Legislature to foster coordination among the three local governments: The Cities of Reno and Sparks and Washoe County. Under Nevada Revised Statutes 278.026-278.029 TMRPA is responsible for developing and maintaining a comprehensive Regional Plan for the three jurisdictions.

3.0 ESTIMATED BUDGET RANGE AND TIMELINE

The estimated budget for completion for the 2017 Regional Plan Update is between \$25,000 and \$30,000. The actual amount paid to the consultant will vary depending on the final scope of each task assigned and the amount of money available.

The anticipated completion date for service requested from the selected consultant is estimated to be in October 2017.

4.0 OBJECTIVES AND GOALS

The Regional Baseline Study would assist TMRPA staff, the Regional Planning Commission, and the Regional Planning Governing Board during the update process by establishing the context and rationale

for proposed sustainability policies. If the policies are adopted, the research and best practices in the Regional Sustainability Baseline Study would continue to add value for staff and decision makers as they conduct conformance reviews of regional planning activities.

5.0 POTENTIAL SCOPE OF SERVICES/TASKS

Under the guidance of TMRPA staff and with input from an advisory committee comprised of sustainability experts representing various agencies and organizations in the Truckee Meadows, the study will comprise the following key elements:

- a) Summary of Regional Sustainability Planning Efforts
- b) Sustainable Land Use Best Practices
- c) Sustainability Comparisons of Land Use Scenarios (to be developed by TMRPA and consultant)

6.0 RFQ SUBMITTAL AND REQUESTED INFORMATION

Submittals should include:

- a) Introduction: provide a brief letter of introduction on the consultant's letterhead transmitting all RFQ information.
- b) Professional Qualifications: provide professional qualifications of the consultant.
- c) Capability and Experience: provide a profile of experiences that illustrate the consultant's creative approach to similar projects and the successful completion of similar projects including information pertaining to timeliness, staying within budget, and working with others in a team environment to innovatively meet the client's needs.
- d) Approach: provide a framework or general approach to address the project objectives and goals as well as the potential scope of services/ tasks that does not exceed two (2) pages.
 - TMRPA expects the final scope of work will be developed mutually during the beginning of the engagement, however TMRPA desires an understanding of how the consultant would address the objectives.
- e) References: provide information and a minimum of two references on public sector work relating to the development of policy and plan framework.
- f) Proposed Fees and Costs: provide a listing of fees for members of the consulting team who would be involved in the project, including any support personnel.
- g) A statement of willingness (or unwillingness) to undertake designated tasks for a flat fee for the project, i.e. "all inclusive" fee for all services.

h) Eight (8) copies of your proposal submitted to:

Kimberly H. Robinson
Executive Director of Regional Planning
Truckee Meadows Regional Planning Agency
1105 Terminal Way, Suite 316
Reno, NV 89502

**Deadline for Submittal:
Tuesday, August 22, 2017 at 4:00 p.m.**

The Truckee Meadows Regional Planning Agency will evaluate the responses based on the qualifications, background, experience, proposed approach, and apparent reasonableness of the consultant's fee structure. The Truckee Meadows Regional Planning Agency retains the right to negotiate the final proposed fee schedule, prior to selecting any respondent for a contract award.

7.0 SELECTION PROCESS

TMRPA will conduct a formal selection process to determine the best qualified consulting team for the Agency's needs, as follows:

- a) TMRPA shall call for a RFQ from all interested and qualified consultants.
- b) TMRPA staff shall screen and rate all RFQ's submitted. Ratings shall be based on the following criteria:
 - Professional qualifications of the consultant
 - Capability and experience of the consultant on projects of similar size and scope in terms of creative approach and successful completion
 - Proposed framework or approach to the project not to exceed two (2) pages
 - Reference checks on previous projects
 - Professional fee schedule
- c) TMRPA will select the best rated consultants for an interview.
- d) TMRPA will interview the top rated consultants.
- e) TMRPA will rate the consultants in each category where professional services are desired.

- f) TMRPA will choose the consultant(s) that is/are best fit for the project.
- g) The selected consultant will enter into contract negotiations with TMRPA. If negotiations are not successful, then TMRPA will enter into negotiations with the next rated consultant or consultants until an agreement for services and fees acceptable to TMRPA and consultant are reached.

Awarding of this contract is dependent upon all funds being raised, TMRPA reserves the right to withdraw this RFQ and/or choose not to award based on funding levels.

This RFQ does not commit TMRPA to pay for any direct and/or indirect costs incurred in the preparation and presentation of a response. Interviews for finalists will be conducted either in person or by phone. All finalists shall pay their own costs incurred in preparing for interviews. TMRPA reserves the right to accept or reject any proposal in part, or in its entirety.

It is anticipated that interviews and consultant selection will occur approximately between August 28th and September 8th.

8.0 Principals and Rejection Statement

Consultants are advised that TMRPA will only deal with the principals or their designated agents with regard to this RFQ. Furthermore, it is to be understood by the principals and their agents that TMRPA is not obligated to accept any proposal or to negotiate with any proposers and TMRPA reserves the right to accept the proposal, which in its sole opinion, will best serve the public interest. Additionally, TMRPA reserves the right to negotiate simultaneously with more than one consultant, if in the TMRPA's sole opinion, TMRPA believes that simultaneously negotiating with more than one consultant is in the best interests of TMRPA.

9.0 Ownership of Submitted Materials

All proposals and related materials received by TMRPA become its property and may be returned only at the TMRPA's option.

Northern Nevada Water Planning Commission ("NNWPC")

STAFF REPORT

DATE: September 28, 2017
TO: Chairman and Members,
FROM: Chris Wessel, WRWC Water Management Planner
Frank McDonough, Desert Research Institute, Associate Research Scientist
SUBJECT: Report by the Desert Research Institute ("DRI") on last winter's cloud seeding operations for the Truckee River and Lake Tahoe Basins, and alternatives for operations for the upcoming winter; discussion and possible recommendation to the Western Regional Water Commission ("WRWC") for funding in an amount not to exceed \$100,000 from the RWMF to support similar limited operations for the upcoming winter.

SUMMARY

Since 2009, DRI has conducted its cloud seeding program for the Truckee River and Lake Tahoe Basins using funds provided by either the Truckee Meadows Water Authority ("TMWA") or the Truckee River Fund ("TRF"), and the WRWC. TMWA has indicated that funding will not be available from TMWA or the TRF for cloud seeding operations for the 2017-2018 water year. DRI anticipates that some cloud seeding funding will be available from the State of Nevada for water year 2018-2019. In anticipation of reduced funding for the upcoming winter, DRI has provided a Proposal and Scope of Work, including a budget for \$100,000 (attached) from the RWMF, to support a modified cloud seeding operation for water year 2017-2018. The WRWC budget for FY 2017-2018 includes \$100,000 for the proposed cloud seeding operations.

The cloud seeding program requires permits from both the United States Forest Service and the State of California. The State permit has been 'grandfathered' in through the California Department of Water Resources since the inception of DRI's cloud seeding operations. The permits remain active as long as the project continues, without interruption, for each consecutive water year. In the event that operations were suspended for the upcoming water year, permits would likely be revoked and new permits would be required. In addition to the cost of the permits, DRI anticipates that California Environmental Quality Act and National Environmental Policy Act studies would be required, at a cost well in excess of \$50,000. This year's proposal is intended to bridge the gap to the 2018-2019 water year, at which time the program can be reevaluated based on the availability of State funding.

Mr. Frank McDonough of DRI will provide a presentation about last winter's cloud seeding operations for water year 2016-2017, and the proposed modified operations for the upcoming winter. In addition, Mr. McDonough will provide an update regarding DRI's efforts to secure funding from other cloud seeding beneficiaries and potentially interested parties.

BACKGROUND

Wintertime cloud seeding is focused on enhancing snowfall in mountainous regions to increase the snowpack, resulting in more spring runoff and water supplies in the surrounding areas. The DRI cloud seeding program has been in operation for more than 25 years. DRI estimates that, for the Truckee River Basin, cloud-seeding has boosted water in the snowpack by an average of 18,000 acre-feet a year over the last 10 years.

DRI funding cuts in 2008 threatened to eliminate its cloud seeding operations such that outside financing was necessary to continue the program. In response, DRI applied to the TRF in 2009 to support the operation of five cloud-seeding generators in the Sierra Nevada. DRI received approval for partial funding from the TRF and the WRWC for the 2009-2010 water year. DRI has applied for and received funding from the TRF, and more recently TMWA, and the WRWC to cover operations in each successive water year.

RECOMMENDATION

Staff recommends that the NNWPC accept the report and recommend that the WRWC approve the proposal from DRI for funding in an amount not to exceed \$100,000 from the RWMF, to support cloud seeding operations for the 2017-2018 water year.

CW:jp

Attachment: Proposal and Scope of Work: Cloud Seeding Project for the Tahoe and Truckee Basins for Water Year 2017-2018.



September 17, 2017

Western Regional Water Commission

1001 E. 9th St

Reno, NV 89502

To: The Western Regional Water Commission (WRWC):

Attached is our proposal and budget for the Water Year 2018 Tahoe-Truckee cloud seeding project. The project represents a smaller-scale continuation of the remote generator operations and will again focus on seeding the Tahoe - Truckee target area, and we plan to use the same seeding sites as last year.

If the revised proposal and budget are found to be satisfactory we request a purchase order be drafted in the amount of the proposed budget in order for DRI to be able to initiate and complete the work in a timely manner. A project start date of October 21, 2017 and project stop date of June 30, 2018 is requested.

Respectively yours,

Frank McDonough

Frank McDonough Research Meteorologist: Project Manager

Frank.McDonough@dri.edu

775.674.7140

720.839.5309 (cell)

Attachments: Proposal and Budget

Cc: Maria Garretson (DRI)

Proposal and Scope of Work

Cloud Seeding Project for the Tahoe and Truckee Basins for WY2018

Submitted to the

Western Regional Water Commission

By

**Desert Research Institute
Division of Atmospheric Sciences
Desert Research Institute
2215 Raggio Parkway
Reno, NV 89512**

September 2017

**Project Contact: Frank McDonough
Project Manager 775-674-7140
Frank.McDonough@dri.edu**

Introduction

Cloud seeding is a long-term water management tool designed to increase snowpack, streamflow, and subsequent water supplies. Since the State of Nevada halted funding the statewide cloud seeding program in 2009, the Tahoe-Truckee portion of the former State project has been funded locally by the Truckee Meadows Water Authority (TMWA) and the Western Regional Water Commission (WRWC). Through their support of the program, these entities have built the project infrastructure to include; 7 high-altitude remote controlled cloud seeding generators, 2 weather stations, a mountain top web camera, 8 precipitation gauges, and cellular and satellite communications systems to operate the equipment, obtain realtime weather and generator performance data.

The Tahoe-Truckee program has added over 14,000 acre-feet of snow water equivalent (SWE), on average, to the watershed for more than 30 years. The project has been operated along and west of the Sierra Crest, delivering snowfall to the east slopes of the Sierra and the Carson Range. Over the past few years funding through the WRWC has allowed DRI to add 8 winter precipitation gauges to Tahoe-Truckee watershed.

Most of the project equipment is located on US Forest Service land. Significant time and resources have been spent to acquire all necessary permits to site and operate this equipment. In addition, the Tahoe-Truckee Cloud Seeding project has been operated under a 'grandfather' permit from the California Department of Water Resources. These permits require operations to be conducted on a continuous yearly basis. If the Tahoe-Truckee program is halted, starting a new project over the region may require new permits to be issued and new environmental impact studies (California Environmental Quality Act and National Environmental Policy Act) to be funded and conducted. While studies in other California watersheds have shown that there are no negative effects from cloud seeding, the studies have cost the projects well over \$50,000.

Although there was well-above normal snowpack this past winter, the past 10-years shows that snowfall and the resulting Sierra snowpack can vary widely. Four of the past six years had well below average snowpack and Lake Tahoe was below its natural rim for 18 straight months between Fall 2014 and Spring 2016 (Fig. 1). The heavy snowfall this past winter caused the suspension the cloud seeding program in early January. As a result the cloud seeding generators remain 75% full of silver iodide solution. This is nearly \$40,000 worth of consumables that are available to the project for the 2018 water year.

A continuation of a smaller scale cloud seeding effort for water year 2018 will help keep the project infrastructure operational, keep all permits current, and potentially add 6,000 to 10,000 acre-feet of SWE snowpack to the watershed at a cost of \$10 to \$16 per acre-foot. It is expected that the State of Nevada will begin to fund a significant portion of the Tahoe-Truckee program beginning in water year 2019.

Project location

The limited WY2018 project proposal focuses on a cloud seeding effort for the Tahoe Basin and the Truckee River Basin. Figure 2 shows the location of the project. The red-shaded region closely approximates the cloud seeding target area for the two basins. The DRI ground-based cloud seeding generator (CSG) sites used in WY2017 are shown as yellow squares.

Project description

The project design and method of operation will be the same as those used for the project conducted in WY2017 and previous years, except the duration will be for 2-months instead of the entire winter. Seeding will be conducted from a line of five ground-based CSG locations (7 CSGs) positioned on, or a few miles upwind of, the main Sierra Nevada crest to the west of Lake Tahoe (Fig. 2). The generators have been positioned to take advantage of the generally southwest wind directions in winter storms in the Tahoe area, and are remotely activated by DRI staff when the proper weather and cloud conditions for seeding have been verified.

Ground-based cloud seeding is based on the following sequence of events. The seeding material is silver iodide (AgI). The seeding “generators” burn a solution containing AgI dissolved in acetone. The burning process produces a “smoke” of microscopic AgI particles (about 0.0001 mm is size) that are transported downwind and dispersed into clouds over the mountains. Vertical dispersion up to at least 3000 feet above the surface is produced by the turbulence created by wind moving over the uneven terrain. In the presence of cloud droplets existing at temperatures below -5° C the silver iodide particles act as ice-forming nuclei and enhance the ice particle concentration in the natural clouds. Once initiated by silver iodide the ice particles grow in size and mass as they move downwind and begin falling to the surface when they have sufficient mass to overcome the upward motion in the clouds. In the time frame of 20 to 30 minutes snowfall within a seeding plume can reach the surface in and around the Tahoe Basin. This “chain-of-events” in the cloud seeding process has been verified by numerous detailed experiments conducted in the Sierra Nevada and other mountainous regions of the western U.S. (Huggins, 2009).

Project Phases

Phase 1 of the project will include preparation of the seeding generators at the locations shown in Figure 2. This will require two weeks of work. The Barker Pass generator, which is always removed in the spring, will be reinstalled per the annual use USFS permit. Phase 1 typically includes refilling the seeding solution tanks, refilling propane tanks, testing all generator components and communications links. The precipitation gauge network will also be prepared for the winter. With the cloud seeding generator tanks about 75% full there will be no additional cloud seeding solution added to the generators. Three generators have ~90 gallons of solution, which allows for about 200 hours of seeding per unit, the two dual-generators are

filled with 110 gallons of solution, which allows for 240 hours of seeding per unit for a grand total of 880 hours of possible seeding this season. This translates to a potential to add 6,000 to 10,000 acre-feet of water stored as snow the mountains in the Tahoe-Truckee basin.

The meteorological forecasts and observations needed to conduct the project are available either through the DRI Western Regional Climate Center or through public web-based weather data links. These data links are combined in a special cloud seeding weather web page (<http://www.dri.edu/weather-information>) that will be revised as needed for the water year 2018 season. Water year snow conditions and the progress of seeding operations for the Tahoe area can also be monitored throughout the winter at the following site: <http://www.dri.edu/current-operations>.

All operational guidelines, safety restrictions and suspension criteria for the project have previously been developed and can also be found on the DRI cloud seeding web site at: <http://cloudseeding.dri.edu/>. These guidelines specify the cloud conditions, wind and temperature conditions in which a seeding operation can be initiated, and also specify certain hazardous weather conditions (such as avalanche, heavy holiday traffic and potential flooding situations) during which no seeding can be done.

Phase 2 of the project will involve the actual cloud seeding operations. In this reduced season's program DRI will conduct 24/7 cloud seeding operations for two months (January and February 2018). In Phase 2 the project manager will begin monitoring the weather and making forecasts for seeding events to be expected within three to five days. The project manager (meteorologist), and an experienced cloud seeding meteorologist/graduate student will ensure that 24/7 operations will be conducted. As a storm begins to affect the Tahoe-Truckee River region cloud and weather conditions will be monitored more frequently to determine when seeding criteria are satisfied. When the shift meteorologist determines that conditions for conducting a seeding operation are satisfied, seeding will commence using the remotely controlled CSG communication network. The Tahoe communication links are internet-based and a generator can be started from any computer with Internet access. Seeding commences when all pre-established seeding criteria are met, and continues until conditions in the storm fail to meet the criteria.

Phase 3 of the project will begin in May 2018 and includes the documentation of weather events to verify that seeding occurred during optimal time periods. Each period will be evaluated and a seedability factor (SF) will be applied to quantify the fraction of time when seeding was potentially effective. The estimates of snow water enhancement will be made and adjusted by the SF. A report on project operations, including the measureable outcome, will be completed during Phase 3. Phase 3 also includes the removal of seeding units as dictated by some of the Forest Service special use permits. Phase 3 will end on June 30, 2018.

Principals involved

The project will be managed by Frank McDonough, he will be assisted by an experienced cloud seeding meteorologist/graduate student. Two experienced technicians that

are jointly supported by this and other DRI cloud seeding projects will provide field operations and maintenance support.

Schedule

Start Phase 1: 21 October 2017. Generator preparations begin.

End Phase 1: 1 November 2017. All seeding generators are installed, upgraded, tested and ready for use. All web-based computer products are prepared for use in Phase 2.

Start Phase 2: 1 January 2018. Cloud seeding occurs as storm conditions dictate. Cloud seeding equipment is monitored and maintained as needed. A log of seeding operations is maintained and the weather data needed to assess operations are archived. The cloud seeding update page is frequently revised throughout the season.

End Phase 2: 28 February 2018 is the approximate end of the operational cloud seeding period.

Start Phase 3: 1 May 2018. Weather data are analyzed to assess the seeding operations. Estimates of water augmentation from seeding operations are made. A report on operations is completed by 30 June 2018.

End Phase 3: 30 June 2018 end of season summer shutdown for the generators, per USFS permits.

Budget discussion:

Budget for the smaller scale WY2018 project is \$100,000. Approximately \$40,000 worth of cloud seeding solution from last year's operation is currently in the generators. The details of the budget are presented in the spreadsheet in Table 1. As indicated the total cost for the WY2018 project is \$100,000. In the event that additional program funding is made available for WY2018, cloud seeding operations may be extended accordingly.

Table 1. Proposed budget for WY2018 DRI Tahoe-Truckee Cloud Seeding Program Budget	Costs (\$)
Field Technician Labor	\$34,000
Meteorological Forecasting/Program Management/Reporting	\$50,000
Truck/Snowmobile/Fuel	\$6,000
Parts and Equipment for generators, weather stations, and precipitation gauges	\$10,000
TOTAL	\$100,000

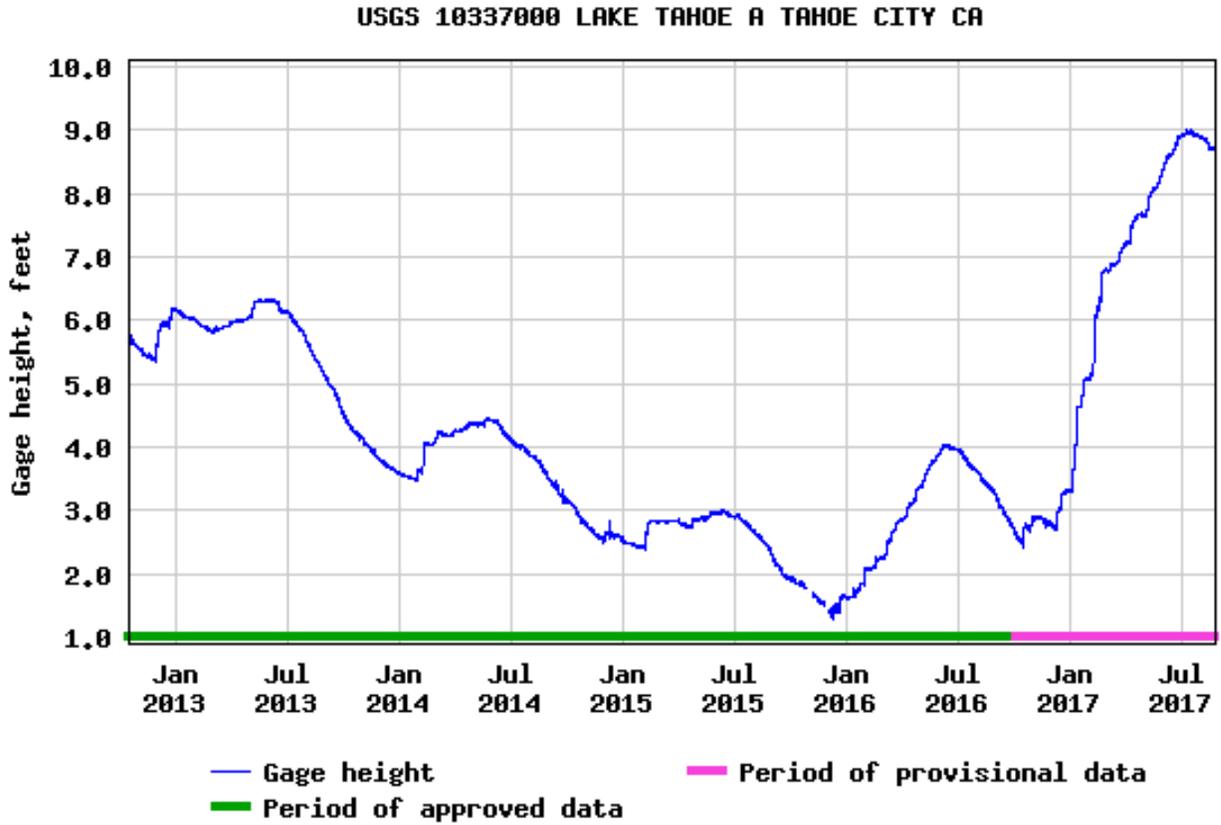


Figure 1. Hydrograph of Lake Tahoe lake level from mid-2013 through mid-2017 from the Tahoe City, CA gage. Gage heights are the lake level minus 6220 feet, thus a value of 5' implies a lake level of 6225'. The natural rim is 6223'.

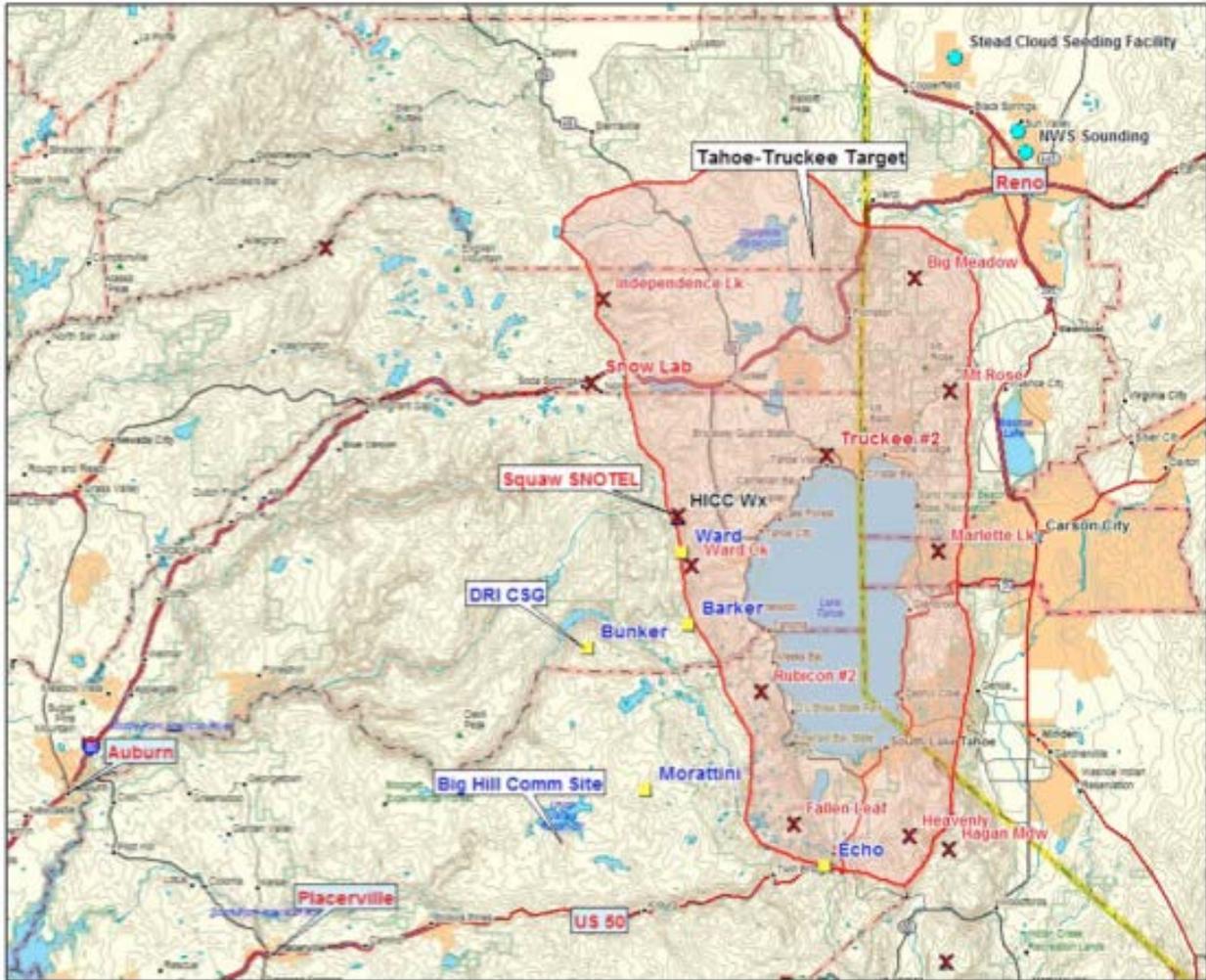


Figure 2. Operations area for WY2017 Tahoe-Truckee cloud seeding project. Red shaded area denotes the target region; Yellow pins with blue labels represent DRI cloud seeding generators; Red X's denote SNOTEL stations and other geographic features are as labeled.

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: September 28, 2017

TO: Chairman and Members, Northern Nevada Water Planning Commission

FROM: Chris Wessel, Water Management Planner
Frank McDonough, Desert Research Institute

SUBJECT: Report on the Desert Research Institute (“DRI”) Cloud Seeding Precipitation Gauge Monitoring Project.

SUMMARY

On November 6, 2013, the Northern Nevada Water Planning Commission (“NNWPC”), during discussion on the DRI Cloud Seeding Program (the “Program”), expressed a desire for DRI to better quantify the benefits of the Program. In the motion to recommend approval for funding for the 2013-2014 cloud seeding operations, the NNWPC included a request for a proposal from DRI to further delineate and improve DRI’s ability to measure increased snowpack resulting from the Program. DRI developed a proposal for the installation of six precipitation gauges over a three year period (the “Monitoring Project”) which the WRWC approved on May 15, 2014.

The installation of all six gauges has been completed and Mr. Frank McDonough of DRI will present a status report on the ongoing Monitoring Project.

BACKGROUND

On April 7, 2014, the NNWPC received a proposal from DRI to better quantify the benefits of the Program by using additional precipitation gauges. The NNWPC directed staff to include \$25,000 for that purpose in the fiscal year 2014-2015 budget, which the WRWC approved on May 15, 2014. The budget amount was the first phase of a three year installation project not to exceed a total of \$75,000. At that time, the NNWPC requested that DRI evaluate the condition of four Washoe County precipitation gauges, which were made available to DRI, and determine if they could be refurbished for use as part of the Monitoring Project.

DRI completed their evaluation of the rain gauges provided by Washoe County and concluded that they could be retrofitted for use in the Monitoring Project. Based on their assessment, DRI provided a revised scope of work at the NNWPC’s November 4, 2015 meeting to complete the installation of the precipitation-gauge monitoring network, including six precipitation gauges, over a two year period at a cost of \$50,000.

Beginning in 2009, the WRWC has helped pay for the Program conducted by DRI and may anticipate continuing to partially fund the Program for the foreseeable future. Wintertime cloud seeding is focused on enhancing snowfall in mountainous regions to increase the

snowpack, resulting in more spring runoff and water supplies in the surrounding areas. The Program has been in operation for more than 25 years. DRI estimates that, for the Truckee River Basin, cloud-seeding has boosted water in the snowpack by an average of 18,000 acre-feet a year over the last 10 years.

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: September 28, 2017
TO: Chairman and Members, Northern Nevada Water Planning Commission (“NNWPC”)
FROM: Jim Smitherman, NNWPC Water Resources Program Manager
SUBJECT: Authorize the Program Manager to execute an interlocal agreement with the Truckee Meadows Water Authority (“TMWA”), in an amount not to exceed \$40,000 from the Regional Water Management Fund (“RWMF”), for the Bedell Flat Rapid Infiltration Basin (“RIB”) Investigation. (A State of Nevada grant will reimburse the RWMF.)

SUMMARY

An interlocal agreement with TMWA is necessary to provide for reimbursement not to exceed \$40,000 in expenses associated with the Bedell Flat RIB Investigation. A State of Nevada Subgrant Agreement is in place and will reimburse the RWMF for up to the same amount.

BACKGROUND

On May 4, 2016, the NNWPC recommended that the Western Regional Water Commission (“WRWC”) apply for and accept a \$40,000 grant from the State to partially fund the Bedell Flat RIB Investigation proposed by TMWA. The WRWC approved the recommendation and the grant was awarded on July 7, 2016. TMWA and its consultants will conduct the project, the WRWC will reimburse TMWA by way of an interlocal agreement, and the State grant will in turn reimburse the RWMF. The investigation includes infiltration testing to determine the potential for use of RIBs as part of an integrated water resource aquifer storage and recovery (“ASR”) program.

RECOMMENDATION

Staff recommends that the NNWPC authorize the Program Manager to execute an interlocal agreement with TMWA, in an amount not to exceed \$40,000 from the RWMF, for the Bedell Flat RIB Investigation.

JS:jp

Attachment

Attachment A - Scope of Work

Bedell Flat RIB Investigation

Introduction

The 2007 Washoe County 208 Water Quality Management Plan contemplates a small number of long term regional alternatives for the management of treated wastewater effluent. Alternatives include new and innovative treatment technology and aquifer recharge using highly treated effluent. A 2010 report entitled "Regional Integrated Wastewater System Planning", funded in part by the Nevada Division of Environmental Protection's ("NDEP") 604(b) Water Quality Planning fund, identifies Bedell Flat as an area for possible aquifer storage or aquifer recharge using highly treated wastewater effluent. This concept also appears in the 2011-2030 Comprehensive Regional Water Management Plan, and more recently in the Truckee Meadows Water Authority's ("TMWA") draft 2016-2035 Water Resource Plan, as a potential site for an integrated water resource aquifer storage and recovery ("ASR") program. The program would provide for the management of treated wastewater effluent from one or more water reclamation facilities and enhance drought and/or emergency water reserves. The Western Regional Water Commission ("WRWC") proposes to partner with the City of Reno, Washoe County and TMWA to accomplish permitting and testing tasks as part of a larger feasibility effort for such a program.

Proposal

Integrated water resource management alternatives in Bedell Flat include infiltration of highly treated wastewater effluent through a proposed rapid infiltration basin ("RIB"), infiltration of highly treated wastewater effluent along a natural drainage referred to as Bird Spring Wash, injection of potable water using ASR wells and North Valleys Importation Project ("NVIP") water or a combination of these. Geologic/hydrogeologic feasibility investigations and environmental clearance and permitting work are proposed to gain an understanding of the feasibility, scope and cost of an integrated water resources program in Bedell Flat. This proposal is for infiltration testing and environmental clearance and permitting work to determine the potential for use of RIBs. Subsequent phases may include RIB pilot testing, potential use of dry wells for infiltration (to access more permeable materials beneath less permeable surficial soils), vadose zone and groundwater characterization activities (i.e., borehole drilling to collect samples for geotechnical and geochemical tests) and groundwater monitoring (well installation) and assessing the infiltration capacity of an identified surface water reservoir site within the Bird Spring drainage (adjacent to Bedell Flat). A related objective will be to determine the acreage to be permitted with the Bureau of Land Management ("BLM"), which would be assessed by cultural and ecological resource subcontractors. The infiltration testing method recommended for the Bedell Flat area consists of a larger modified pilot infiltration test ("PIT") procedure, documented by the State of Washington Department of Ecology ("WDOE"). This approach will reduce some of the scale errors associated with relatively small-scale double ring infiltrometer or "stove-pipe" infiltration tests, and will better approximate infiltration rates for potential facility design. This method will use a track-hoe (or backhoe) to excavate to depths of 6 to 8 feet below ground surface, producing a flat

base with an area of approximately 5-10 square feet. Although this is not a standard infiltration test, this approach is a practical field procedure that has been widely used in the western U.S.

The PIT procedure, documented by the WDOE, involves the following steps:

- Excavate the test pit to the depth of the bottom of the proposed infiltration facility. Lay back the slopes sufficiently to avoid caving and erosion during the test.
- Log the excavated soils as a function of depth using the SCS (soil classification system; ASTM D2487).
- Collect soil samples for potential grain size analyses for select or all PIT locations.
- The horizontal surface area of the bottom of the test pit should be approximately 10 square feet.
- Accurately document the size and geometry of the test pit.
- Install a vertical measuring rod (staff gauge) of sufficient length marked in half-inch increments in the center of the pit bottom.
- Use a rigid 6-inch diameter pipe with a splash plate on the bottom (or equivalent system) to convey water to the pit and reduce side-wall erosion or excessive disturbance of the pond bottom (excessive erosion and bottom disturbance will likely yield lower than actual infiltration rates).
- Add water to the pit at a rate that will maintain a water level between 3 and 4 feet above the bottom of the pit, and continuously record water levels and discharge rates during the early testing period to maintain a water level of 3 to 4 feet.
- Add water to the pit until one hour after the flow rate into the pit has stabilized (constant flow rate) while maintaining the same pond water level (this steady-state condition should be maintained for at least one hour).
- After the flow rate has stabilized, turn off the water and record the rate of infiltration in inches per hour from the measuring rod data, until the pit has drained.

After each test pit has drained, the trench will be backfilled with the excavated materials to approximate the surrounding land surface. This proposal assumes that the backfilling would satisfy BLM requirements, but some additional reclamation efforts may be required by the BLM. Reclamation efforts would be determined during the permitting process. Work will be completed by December 31, 2016.

Deliverables

Draft and Final Technical Memoranda will be submitted to the Nevada Division of Environmental Protection as available.

Estimated Project Budget

The total project costs are estimated at \$78,705 for tasks that include: 1) site visit and data review; 2) field testing plan development; 3) BLM permitting; 4) field testing plan implementation; and 5) draft and final technical memoranda. The 604(b) grant funds will cover \$40,000 of the total costs.

The cost estimate assumes 10 infiltration test locations with one location completed per day, 10 acres of BLM land subject to both cultural and ecological resource surveys and 30 laboratory grain-size analyses. The preliminary budget includes sub-consultant costs and the costs associated with a local construction company providing a track-hoe and water truck.

The WRWC proposes to enter into an interlocal agreement with TMWA which will serve as the lead agency for the project. A primary consulting firm retained by TMWA will be responsible for completing the work and submitting invoices to TMWA. TMWA will then submit invoices to WRWC for reimbursement up to \$40,000. Following this, WRWC will submit an invoice and other required documentation to NDEP for reimbursement.

Table 1. Budget Summary

Item	Total Project	604(b) Contribution	Local Contribution
Contractors	\$78,705	\$40,000	\$38,705
TOTAL	\$78,705	\$40,000	\$38,705

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: September 28, 2017
TO: Northern Nevada Water Planning Commission (“NNWPC”)
FROM: Jim Smitherman, Water Resources Program Manager
SUBJECT: Discussion and possible recommendation to the Western Regional Water Commission (“WRWC”) to approve an amendment to the Agreement for Legal Services for the WRWC and the NNWPC, to extend the Agreement through June 2020 on the same terms and conditions.

SUMMARY

Both the WRWC and the NNWPC require legal services on a regular and continuing basis. Since May 1, 2008, the required legal services have been provided on a contractual basis by Rhodes Law Offices, Ltd., a Nevada corporation solely owned by John B. Rhodes, a former Deputy District Attorney for Washoe County. The current Agreement for Legal Services expires on November 1, 2017. Mr. Rhodes is uniquely qualified to represent the WRWC and the NNWPC. He has many years of experience in local governmental law, water law, water resource planning, and the Nevada Open Meeting Law; for the ten-year period prior to his retirement from Washoe County, he served as legal counsel to the Regional Water Planning Commission (“RWPC”), predecessor to the NNWPC; and, he has provided all legal representation required by the WRWC and NNWPC since their formation.

Mr. Rhodes has offered to renew and extend the Agreement for representation of the WRWC and the NNWPC through June 30, 2020, upon the same terms and conditions, including the continuation of a 10% reduction in compensation which became effective November 1, 2011. This fee reduction is comparable to or exceeds previous compensation reductions which applied to Washoe County employees. Those compensation reductions have since been recovered by the County's employees, but will remain effective for all payments due for legal services provided commencing November 1, 2017.

PREVIOUS ACTION

On November 1, 2009, the WRWC approved an Agreement for Legal Services with Rhodes Law Offices, Ltd. (the "Agreement") for the required legal representation for a two-year period beginning November 1, 2009, and ending November 1, 2011. The Agreement included a voluntary 2.5% retroactive and prospective fee reduction in the amount of \$2,700 for the period April 1, 2009 through December 31, 2009, to coincide with compensation reductions in effect for Washoe County employees during that period of time. The retroactive portion of the 2.5% reduction was deducted from the payment due for legal services provided in November 2009.

On September 2, 2010, the WRWC approved an Amendment to the Agreement to accept a 3.0% voluntary reduction in attorney compensation, retroactive to July 1, 2010, to implement an

adjustment comparable to and coinciding with the 2.84% overall reduction in total labor costs adopted by Washoe County for the 2010/2011 fiscal year. (This reduction resulted in a savings of \$5,760 which, together with the prior voluntary reduction in the amount of \$2,700, resulted in a total discount or savings of \$8,460 over the term of the Agreement.)

On November 7, 2011, the WRWC approved a Second Amendment to the Agreement to accept a 10% voluntary reduction in attorney compensation, effective November 1, 2011. (This reduction resulted in a savings of \$39,600 which, together with the prior voluntary reductions in the amounts of \$5,760 and \$2,700, resulted in a total discount or savings of \$48,060 through July 31, 2014.)

On September 17, 2014, the WRWC approved a Third Amendment to the Agreement to continue the 10% voluntary reduction in attorney compensation agreed upon in the Second Amendment. (This reduction will result in a savings of \$46,800 from August 1, 2014 through October 31, 2017 which, together with the prior voluntary reductions in the amounts of \$5,760, \$2,700, and \$39,600 will result in a total discount or savings of \$94,860 through the termination date of the current Agreement.)

BACKGROUND

Mr. Rhodes has provided a broad scope of legal services required by the WRWC and the NNWPC, including: working closely with staff to ensure that all meeting agendas and staff reports comply with Nevada Open Meeting law and other legal requirements; providing legal representation at all public meetings of the WRWC, and its subcommittees, and the NNWPC; drafting legal documents such as interlocal agreements and contracts with planning consultants and other service providers; addressing specific Open Meeting Law and other statutory compliance issues; evaluating the propriety of proposed expenditures from the Regional Water Management Fund; coordinating and collaborating with the Truckee Meadows Regional Planning Agency on issues involving both land use and water resource planning; assessing potential liability from a risk management perspective; advising/representing the WRWC and the NNWPC on federal, state, and local legislative issues; and, providing services as a registered lobbyist at the Nevada Legislature.

In November 2011, Mr. Rhodes advised staff that he estimated, based upon his representing the NNWPC and WRWC for the prior three years that future necessary legal services for both entities would average approximately 10 to 20 hours per week and 65 hours monthly, exclusive of any civil litigation. That estimate has continued to be accurate. Over the 33-month period from November 1, 2011 through July 31, 2014, the time required for providing the required legal services ranged from 48 to 82 hours per month, for a monthly average of 66.09 hours, resulting in a corresponding average billing rate of \$163 per hour.

Over the immediately preceding 37-month period from August 1, 2014 through August 31, 2017, the time required for providing the required legal services ranged from 39 to 82 hours per month, for a monthly average of 63.81 hours, resulting in a corresponding average billing rate of \$169 per hour for that period, and an average billing rate of \$166 per hour for all legal services provided pursuant to the terms of the Agreement since August 1, 2014.

FISCAL IMPACT

The fiscal impact to the budget of the WRWC will be \$129,600 for each one-year period, which is \$14,400 less than initially provided for in the original Agreement, and equal to the amount currently budgeted for legal representation on an annual basis.

RECOMMENDATION

Staff recommends that the NNWPC recommend to the WRWC that the WRWC approve an amendment to the Agreement for Legal Services for the WRWC and the NNWPC, with Rhodes Law Offices, Ltd., to extend the Agreement through June 2020 on the same terms and conditions.

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: September 28, 2017
TO: Chairman and Members, Northern Nevada Water Planning Commission
FROM: Jim Smitherman, Water Resources Program Manager
SUBJECT: Program Manager's Report

Attached are updated reports for items (a) and (b) for your review.

- a) Report on the status of Projects and Work Plan supported by the RWMF; and
- b) Financial Report on the RWMF for fiscal year 17-18 period 3.

**Status Report of Projects and Work Plan
Supported by the Regional Water Management Fund**

Funds Ctr/ Project #	Project	Vendor	Orig.PO	Changes	Balance	Percent Complete	Start Date	End Date
WP310111	Certified Landscape Tech FY 2017/18	NEVADA LANDSCAPE ASSOCIATION	12,500.00	0.00	12,500.00	0%	7/1/2017	6/30/2018
WP310205	Regional Effluent Mgmt Strategy FY16/17	STANTEC CONSULTING SERVICES INC	18,111.50	0.00	18,111.50	0%	4/1/2015	12/31/2017
WP310603	RWMP Update - Editing	STANTEC CONSULTING SERVICES INC	8,981.50	0.00	8,981.50	0%	11/3/2016	9/30/2017
WP310002	Acquisition of water rights	TRUCKEE MEADOWS WATER AUTHORITY	99,976.82	0.00	99,976.82	0%	5/16/2013	6/30/2018
WP310101	Water Usage Review Program FY 2017/18	TRUCKEE MEADOWS WATER AUTHORITY	100,000.00	0.00	100,000.00	0%	7/1/2017	9/30/2018
WP310102	Washoe ET Program FY 2017-2018	BOARD OF REGENTS/DESERT RESEARCH	10,000.00	0.00	10,000.00	0%	7/1/2017	9/30/2018
WP310008	Precipitation"Can"Gauge Monit FY17-18	BOARD OF REGENTS/DESERT RESEARCH	20,000.00	0.00	20,000.00	0%	7/1/2017	9/30/2018
WP310203	Advanced Water Treatment Demo FY2017-18	BOARD OF REGENTS, NSHE, obo UNR	203,954.00	26,848.61	177,105.39	13%	7/1/2017	9/30/2018
WP310303	Truckee Meadows Strmwater qual	RENO, CITY OF	262,500.00	0.00	262,500.00	0%	7/1/2016	6/30/2018
WP310305	Watershed Mgmt Plan Update FY2017-2019	RENO, CITY OF	66,466.50	0.00	66,466.50	0%	4/6/2017	10/6/2018
WP310303	TMeadws Storm Water Quality Prog FY17-18	RENO, CITY OF	262,500.00	0.00	262,500.00	0%	7/1/2017	9/30/2018
WP310701	Minutes for FY2017-18	TRUCKEE MEADOWS REG PLAN AGENCY	7,000.00	0.00	7,000.00	0%	7/1/2017	9/30/2018
WP310704	Video Coverage-NNWPC Meetings FY 2017-18	SOSUTV CORP	3,000.00	270.00	2,730.00	9%	7/1/2017	9/30/2018

-- Indicates contracting in progress or project status being updated.

9/28/2017
 Fund 766
 Report 400/ZF15

Fiscal Year 2018; Period 3

**Financial Report on the
 Regional Water Management Fund**

Accounts	Plan Budget	Actual (Revenue & Expenses)	PO Commit (Remaining PO Balance)	Actual + PO	Available (Budget Minus Actual + PO)	Avail%	PreCommit (PO's Requested)	Available (Budget Minus PO Requisitions)	Avail%
State Grants	40,000.00-				40,000.00-	100-		40,000.00-	100-
* INTERGOVERNMENTAL	40,000.00-				40,000.00-	100-		40,000.00-	100-
Interest-Pooled Inv.	25,195.37-	2,966.45-		2,966.45-	22,228.92-	88-		22,228.92-	88-
RGL Pooled Inv.		1,408.78-		1,408.78-	1,408.78			1,408.78	
Water Surcharge 1.5%	1,394,568.00-	346,107.77-		346,107.77-	1,048,460.23-	75-		1,048,460.23-	75-
* MISCELLANEOUS	1,419,763.37-	350,483.00-		350,483.00-	1,069,280.37-	75-		1,069,280.37-	75-
** REVENUE	1,459,763.37-	350,483.00-		350,483.00-	1,109,280.37-	76-		1,109,280.37-	76-
Professional Services	1,574,926.00	222,017.04	808,891.35	1,030,908.39	544,017.61	35	7,000.00	537,017.61	34
WRWC Staff & Legal	521,591.00	67,723.12	21,600.00	89,323.12	432,267.88	154.90		432,267.88	154.90
Fin Consult Services	10,000.00				10,000.00	100		10,000.00	100
Invest Pool Alloc Ex		107.78		107.78	107.78-			107.78-	
Pmts to O Agencies	100,000.00	37,800.00	62,176.82	99,976.82	23.18	0		23.18	0
Seminars and Meetings	1,000.00				1,000.00	100		1,000.00	100
Advertising	1,000.00	336.00		336.00	664.00	66		664.00	66
Undesignated Budget	20,000.00		939.00	939.00	19,061.00	95		20,000.00	95
Combined Utilities	400.00	66.66		66.66	333.34	83		333.34	83
Travel	1,000.00				1,000.00	100		1,000.00	100
Overhead	95,009								
** EXPENDITURES	2,324,926.00	347,078.83	892,668.17	1,239,747.00	1,085,179.00	47	7,000.00	1,078,179.00	46
*** Total	865,162.63	3,404.17-	892,668.17	889,264.00	24,101.37-	3	7,000.00	31,101.37-	4