WESTERN REGIONAL WATER COMMISSION
AGENDA
Wednesday, March 20, 2013
10:45 a.m.
Sparks Council Chambers, Legislative Building
745 Fourth St., Sparks, Nevada

NOTICE OF POSSIBLE QUORUM OF THE BOARD OF DIRECTORS OF THE TRUCKEE MEADOWS WATER AUTHORITY ("TMWA"), BOARD OF COUNTY COMMISSIONERS OF WASHOE COUNTY ("BCC"), AND BOARD OF TRUSTEES OF THE SOUTH TRUCKEE MEADOWS GENERAL IMPROVEMENT DISTRICT ("STMGID")

(See ‘Notes’)

Notes: Because several of the WRWC Trustees are also members of the Board of Directors of TMWA, it is possible that a quorum of the TMWA Board may be present. Such members will not take action at this meeting as members of the TMWA Board, but may take action solely in their capacity as WRWC Trustees. A quorum of the BCC and STMGID may also be in attendance but will not be taking action.

1. Roll Call and Determination of presence of a Quorum*
2. Pledge of Allegiance*
3. Public comment – limited to no more than three minutes per speaker*
4. Approval of Agenda (For Possible Action)
5. Approval of the minutes of the January 16, 2013, meeting (For Possible Action)
6. Review, discussion, and possible approval of the draft Western Regional Water Commission (“WRWC”) tentative budget for Fiscal Year 2013 - 2014; and, possible direction to staff regarding the time and place for a public hearing on the tentative budget – Jim Smitherman, WRWC Water Resources Program Manager. (For Possible Action)
7. Discussion and possible approval of a scope of work for an analysis of treatment alternatives at the Truckee Meadows Water Reclamation Facility, and funding in an amount not to exceed $50,000 from the Regional Water Management Fund

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, or delayed for discussion at any time. Arrive at the meeting at the posted time to hear item(s) of interest.
4. 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 834-8002 no later than 24 hours prior to the meeting.
5. 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), Sparks Justice Court (1675 East Prater Way), Sun Valley GID (5000 Sun Valley Blvd.), TMWA (1355 Capital Blvd.), Washoe County Administration Building (1001 E. 9th Street), Second Judicial District Court/Courthouse (75 Court Street), Washoe County Central Library (301 South Center St.), Washoe County Department of Water Resources (4930 Energy Way), Galena Market (19990 Thomas Creek Rd.), Galena High School (3600 Butch Cassidy Way), South Valleys Library (15650A Wedge Parkway), and the WRWC website: http://www.wrwc.us
(“RWMF”); and, if approved, authorize the Chairman to execute an Interlocal Agreement with the City of Reno for that purpose – Jim Smitherman, and Terri Svetich, P.E., City of Reno. (For Possible Action)

8. Report on the Truckee Meadows Water Authority (“TMWA”) 2011 and 2012 Water Usage Review Program; discussion and possible approval of funding in the amount of $131,116 from the RWMF for the 2013 and 2014 Water Usage Review Program; and, if approved, authorize the Chairman to execute an Interlocal Agreement with TMWA for that purpose – Jim Smitherman, WRWC and Andy Gebhardt, TMWA. (For Possible Action)

9. Report on the WRWC presentation at the Nevada Legislature's March 5, 2013 Joint meeting of the Senate Committee on Natural Resources and the Assembly Committee on Natural Resources, Agriculture and Mining – Jim Smitherman *

10. Report on legislative activities, including Bill Draft Requests and bills pending in the 2013 session of the Nevada Legislature that may affect or are of interest to the WRWC / NNWPC, and possible approval of recommendations made by the WRWC Legislative Subcommittee – John Rhodes, WRWC Legal Counsel. (For Possible Action)

11. Discussion and possible direction to staff regarding agenda items for the May 16, 2013 meeting and other future meetings (For Possible Action)

12. Commission Comments*

13. Staff Comments*

14. Public comment – limited to no more than three minutes per speaker*

15. Adjournment (For Possible Action)
The regular meeting of the Western Regional Water Commission (WRWC) Board of Trustees was held on Wednesday, January 16, 2013, at Sparks Council Chambers, 431 Prater Way, Sparks, Nevada.

1. **Roll Call and Determination of presence of a Quorum** – Chairman Carrigan called the meeting to order at 10:30 a.m. There was a quorum present.

   **Commissioners Present:**
   - Mike Carrigan, Chair
   - Vaughn Hartung, Vice Chair
   - Neoma Jardon
   - Steve Cohen
   - Geno Martini
   - Margaret Reinhardt
   - Ron Smith

   **Representing:**
   - Truckee Meadows Water Authority (TMWA)
   - Washoe County
   - Truckee Meadows Water Authority
   - South Truckee Meadows General Improvement District (STMGID)
   - Truckee Meadows Water Reclamation Facility (TMWRF)
   - Sun Valley General Improvement District (SVGID)
   - City of Sparks

   **Commissioners Absent:**
   - Bob Cashell
   - Kitty Jung

   **Representing:**
   - City of Reno
   - Truckee Meadows Water Authority

2. **Pledge of Allegiance**

   Chairman Carrigan asked Commissioner Martini to lead the Western Regional Water Commission in the Pledge of Allegiance.

3. **Public Comment**

   Chairman Carrigan called for public comments and hearing none, closed the public comment period.

4. **Introduction of and oath of office for newly appointed WRWC Trustees; election of Chairman, Vice-Chairman, Secretary and Treasurer for the 2013 calendar year, Jim Smitherman, WRWC Water Resources Program Manager. (for possible action)**

   Jim Smitherman reported that the current Chairman, Vice-Chairman and Treasurer served on the Legislative Subcommittee of the WRWC. He added that the same process would carry forward; i.e., those appointed to Chair and Vice-Chair would serve on the Legislative Subcommittee.

   Chairman Carrigan invited Amy Harvey, County Clerk, to administer the oath to newly appointed members of the WRWC, which include:

   - Vaughn Hartung
   - Neoma Jardon

   The new members took the oath. Members and guests applauded and congratulated the new members.
Mr. Smitherman reported that on February 10, 2012, the WRWC Board Members elected the following officers:

Mike Carrigan, Chairman
Bob Larkin, Vice-Chairman
Margaret Reinhardt, Secretary
Steve Cohen, Treasurer

Commissioner Martini nominated the following for positions:
  • Mike Carrigan, Chair
  • Vaughn Hartung, Vice-Chair
  • Margaret Reinhardt, Secretary
  • Steve Cohen, Treasurer

Commissioner Smith seconded the motion, which carried unanimously.

5. Approval of Agenda (for possible action)

Commissioner Cohen made a motion to approve the agenda. Commissioner Martini seconded the motion, which carried unanimously.

6. Approval of the minutes of the September 19, 2012 meeting (for possible action)

Commissioner Martini made a motion to approve the minutes as submitted. Commissioner Smith seconded the motion, which carried unanimously. Commissioner Hartung abstained.

7. Report by the Desert Research Institute (“DRI”) on its Cloud Seeding Operations for the Truckee River and Lake Tahoe Basins for the past water year and status of its Cloud Seeding Coalition efforts; discussion and possible approval of funding in an amount not to exceed $100,000 from the Regional Water Management Fund (“RWMF”) to support similar Cloud Seeding Operations for the upcoming water year; and, if approved, authorize the chairman to execute an Interlocal Agreement for that purpose, Mark Green, PhD, DRI (for possible action)

Mr. Smitherman reported that for the last few years the WRWC has funded DRI’s Cloud Seeding Operations in the amount of $100,000 per year. He stated that DRI is requesting funding for the next year to continue operations and added that Dr. Mark Green, DRI, was prepared to give a presentation or answer any questions.

Commissioner Hartung referred to the use of silver iodide and asked if there are any deleterious effects. Dr. Green reported that studies have been conducted and the amounts used are very small and insignificant, especially based on the large volume of silver already present in Nevada. Commissioner Hartung asked what amount of acetone is used to dissolve the silver iodide in order to make it airborne. Dr. Green stated that propane heat is used to spray the solution and the heat vaporizes the solution into tiny particles. Commissioner Hartung expressed his interest in seeing how the process works.

Dr. Green offered to provide his presentation. Chairman Carrigan thanked him but declined because most members have seen the presentation in the past. He asked Dr. Green if DRI has had any success in getting funding from the ski resorts. Dr. Green stated that no commitment has been made to date although efforts are still being made. He added that the State is not contributing money to the program.

Commissioner Smith asked for clarification that this is the third year the WRWC has funded the program, which is correct. Commissioner Smith made a motion to approve the budgeted funding of $100,000 from
the Regional Water Management Fund (RWMF) to continue the cloud seeding program, and authorize the Chairman to execute an Interlocal Agreement with DRI for that purpose. Commissioner Jardon seconded the motion, which carried unanimously.

8. Status and discussion of Truckee Meadows Regional Planning Agency ("TMRPA") population and employment modeling project and possible approval of a one-year time extension of the existing Interlocal Agreement providing funding from the RWMF for the project; and, if approved, authorize the Chairman to execute an Amendment to the Agreement for that purpose, Jim Smitherman, Kim Robinson, Sienna Reid, and Jeremy Smith, TMRPA; (for possible action)

Mr. Smitherman reported that in 2011, TMRPA proposed partnering with the WRWC on a population and employment modeling project. The project has been ongoing since that time with his staff time committed. He reported that the Regional Transportation Commission (RTC) is using the results of the modeling effort in their transportation planning.

Mr. Smitherman stated that his work is focused on water and wastewater service and the development of suitability factors, i.e., for example, factors to determine what the cost would be for new development to connect to the system. He added that the modeling has been a good tool for use in economic development planning.

Mr. Smitherman reported that TMRPA met its deadline for delivery of information to RTC; however, Phase 1 took longer than anticipated due to staff turnover. He explained that he is asking for approval (with a recommendation from the Northern Nevada Water Planning Commission [NNWPC]) of a one-year extension of the timeframe of the contract. He clarified that he is not requesting additional money.

Mr. Smitherman introduced Kim Robinson, Director, and Jeremy Smith from TMRPA. Dr. Smith reported that the project has focused on three tasks:

- The population and employment model – Dr. Smith stated that Mr. Smitherman has done a great job on this component. The purpose was to provide information to RTC for their Regional Transportation Plan update. He reported that RTC refers to the data as socio-economic data and uses it by traffic analysis zone (TAZ) to determine the population and number of jobs per zone. Dr. Smith reported that in 2014, TMRPA will take over the consensus forecast effort. He added that staff is now able to compare what was predicted to what is actually occurring. He stated that one issue has been how to stay up to date with changes made by the Assessor. Dr. Smith stated that TMRPA is also working to be able to provide the modeling information online.

  Dr. Smith summarized that the model analyzes population densities by TAZ, as well as employment data for 2010 to 2035.

- Industrial land needs analysis – Dr. Smith reported that this is a new component that was funded by the WRWC and RTC. He stated that the analysis is being done based on how industrial lands are being used; whether there are enough, whether they are adequate in size, and what infrastructure and services are available. He reported that TMRPA has been working with the Economic Development Authority of Western Nevada (EDAWN). Dr. Smith reported that the analysis is divided into two phases, which includes phase one, which looks at the current supply of industrial land and ensuring that the data is as correct as possible. The second phase will focus more on demands, including employment and national trends. Dr. Smith reported that a very successful workshop was held on November 27, which included agency staff, real estate developers, brokers and others. He added that discussions with real estate developers have
continued. He stated that the continuing meetings will address how to best leverage the data with regard to industrial land.

- Scenario planning – Dr. Smith reported that scenario planning will focus on how different land use patterns might affect different criteria, such as roadways, open space, wastewater treatment facilities and air quality.

Dr. Smith reported that TMRPA won a grant, “Smart Growth America” from the Environmental Protection Agency (EPA) to help implement the scenario planning. He invited any questions or comments.

Commissioner Martini asked who presently prepares the consensus forecast. Dr. Smith stated that through 2012, it was prepared by Washoe County. He explained that the consensus forecast is used by all of the agencies so that long-range planning is based on the same data.

Chairman Carrigan commended TMRPA and added that they are doing really good work.

Commissioner Martini made a motion to approve a First Amendment to the Interlocal Agreement for a one-year extension of the project completion date, and authorize the Chairman to execute the Amendment. Commissioner Cohen seconded the motion, which carried unanimously.

9. Review and possible approval of the 2011-2012 WRWC audit report and financial statement, Ben Hutchins, Washoe County (for possible action)

Mr. Hutchins, Division Director of Finance Administration for Washoe County Community Services Department, presented a brief overview of the financial status and audit report for the Fiscal Year (FY) 2011-2012. He explained that the audit was performed by Schettler, Macy & Silva, LLC, which has prepared the audits for the past five or six years. He reported that the assets for the WRWC as of the end of FY-12 were $4,156,751; liabilities were $506,725; ending in net assets of $3,650,026, which is a ~$200,000 increase from the previous year.

Mr. Hutchins reported that revenues were $1.4 million, which was slightly higher as a result of increased water consumption. He added that the budget includes $110,000 in unrestricted investment earnings, up from $65,000 in FY-11.

Chairman Carrigan explained to the new Commissioners that the WRWC is funded by the Regional Water Management Fund, which collects a 1.5% fee on water bills. Mr. Hartung asked if that fee was only for TMWA customers, to which Chairman Carrigan stated that all water purveyors charge the fee.

Commissioner Martini made a motion to approve the Financial Statements and audit opinion from Schettler, Macy & Silva, LLC for fiscal year 2011-12. Commissioner Cohen seconded the motion, which carried unanimously.

10. Discussion and possible designation of The Bullard Macy Group as the WRWC’s external auditors for the Fiscal year 2012-2013 financial statement audit, and possible direction to staff to file required documents with the State of Nevada, Ben Hutchins, (for possible action)

Mr. Hutchins explained that The Bullard Macy Group was previously called Schettler, Macy & Silva, LLC. He added that the audits have been qualified and the firm has not increased their fee of $8,300 and therefore, he recommended continuing the relationship for the next fiscal year.
Commissioner Cohen made a motion to designate The Bullard Macy Group as the WRWC’s external auditor for the fiscal year ending June 30, 2013 and authorize the Chairman to execute the related engagement letter and direct staff to report the designation to the State by the statutory deadline. Commissioner Smith seconded the motion, which carried unanimously.

11. Report on legislative activities, including Bill Draft Requests for the 2013 session of the Nevada Legislature that may affect the WRWC / NNWPC, John Rhodes, WRWC Legal Counsel. *

John Rhodes reported (for the new Commissioners) that he serves as Legal Counsel for the Western Regional Water Commission and the Northern Nevada Water Planning Commission (NNWPC), which is an advisory body to the WRWC.

Mr. Rhodes referred to the staff report, which lists Bill Draft Requests ("BDRs") and Bills pending in the 2013 Nevada Legislature, as of January 9, 2013, that may affect or are of interest to the WRWC and NNWPC. No additional language is available for the BDRs at this time. Pending Bills are noted with an Assembly ("AB") or Senate ("SB") designation, and the complete language of each Bill is available by clicking on the corresponding link contained in the electronic version of the staff report. WRWC staff and the WRWC Legislative Subcommittee will track these BDRs and Bills, recommend positions to be taken, and provide periodic updates to the WRWC/NNWPC.

Mr. Rhodes reported that at this time he is following one Open Meeting bill and two Public Records bills. He reiterated Mr. Smitherman’s comment about the Legislative Subcommittee and stated that the group would be meeting with the TMWA Legislative Subcommittee every Friday at 3:00 p.m. He stated that one focus when the language becomes available will be a Bill regarding the Legislative Committee to Oversee the WRWC, which was to sunset this year; however, that Committee made a bill draft request to continue its existence indefinitely, and expand its authority to study water issues across the State of Nevada.

12. Discussion and possible approval of the Memorandum of Legislative Cooperation Among Local Governments, Affected Government Entities, Service Providers, and other Agencies in the Truckee Meadows Region for the 2013 session of the Nevada Legislature; and, if approved, authorize the Chairman to execute the Memorandum, Jim Smitherman, (for possible action)

The Staff Report states that in anticipation of the upcoming Legislative session, the Regional Planning Governing Board ("RPGB") has invited the Western Regional Water Commission to participate in its Memorandum of Legislative Cooperation for the 2013 Legislative Session. The purpose of the MOU is to present a cooperative and unified effort to achieve desired results in Nevada's Legislature, with the understanding that respective interests may differ on some issues.

The MOU directs signatories to present Bill Draft Requests, identify and discuss differences, disclose positions, provide assistance and information, inform, and actively solicit support.

The Memorandum requires the parties to communicate on all legislative positions, testimony and bill drafts, and work to resolve differences so that the agencies in the region may present a common position at the Legislature to the extent possible.

Commissioner Martini made a motion to approve the Memorandum of Legislative Cooperation for the 2012 – 2013 Legislative Session and authorize the Chairman to execute the Memorandum. Commissioner Smith seconded the motion, which carried unanimously.
13. Discussion and possible direction to staff regarding agenda items for the March 20, 2013, meeting and other future meetings (for possible action)

Mr. Smitherman reported that the next meeting is tentatively scheduled for March 20 to follow the TMWA Board meeting. He stated that the agenda items would include:

- Presentation of the draft budget for FY-13/14
- Proposal for analysis of treatment alternatives for the Truckee Meadows Water Reclamation Facility (TMWRF)
- Report on Legislative Activities

Mr. Smitherman asked if the meeting date works for members. Members agreed the schedule works better by following the TMWA Board meeting, as opposed to the previous schedule of Friday afternoon.

14. Commission Comments

None

15. Staff Comments

None

16. Public Comment

Chairman Carrigan called for public comments and hearing none, closed the public comment period.

17. Adjournment

With no further business, the meeting was adjourned at 11:05 a.m.

Respectfully submitted by,

Niki Linn, Recording Secretary

Approved by Commission in session on________________ 2013.

____________________________________
Mike Carrigan, Chairman

Note: DRAFT Minutes not approved by Board.
Western Regional Water Commission

STAFF REPORT

DATE: March 12, 2013

TO: Chairman and Members, Western Regional Water Commission

FROM: Jim Smitherman, Water Resources Program Manager

SUBJECT: Review, discussion, and possible approval of the draft Western Regional Water Commission (“WRWC”) tentative budget for Fiscal Year 2013-2014; and, possible direction to staff regarding the time and place for a public hearing on the tentative budget

SUMMARY
Staff has developed a draft Fiscal Year 2013-2014 tentative budget for the WRWC including revenues, staff and non-staff professional services, and in-kind services. The attached budget summary and worksheets show details for professional services related to priority projects and routine operating expenses. On March 6, 2013, the Northern Nevada Water Planning Commission (“NNWPC”) reviewed the draft Fiscal Year 2013-2014 tentative budget, and recommended it to the WRWC for approval.

BACKGROUND
The WRWC is required to prepare and submit a tentative budget to the Nevada Department of Taxation on or before April 15, and to hold a public hearing on the tentative budget on the third Thursday or Friday in May. The attached tentative budget is provided for WRWC review, discussion, possible approval and possible direction to staff.

PREVIOUS ACTION
None

FISCAL IMPACT
The draft Fiscal Year 2013-2014 tentative budget projects $1,450,521 in revenue, and $5,025,932 in expenses, with the difference of $3,575,411 coming from cash reserves. Budget expenses include a maximum of $4,442,000 for work plan activities, $480,932 for three full time staff and legal services, and various routine operating expenses in the amount of $103,000.

RECOMMENDATION
Staff recommends that the WRWC approve the draft WRWC tentative budget for Fiscal Year 2013-2014, direct staff to submit the tentative budget to the Washoe County auditor, file the tentative budget for public inspection with the Washoe County Clerk, and the Nevada Department of Taxation, and establish Thursday, May 16, 2013, at 9:30 a.m. as the date and time for the public hearing on the tentative budget.
POSSIBLE MOTION
Move to approve the draft WRWC tentative budget for fiscal year 2013-2014, direct staff to submit and file the tentative budget as required by statute, and provide notice, as required by law, for the public hearing on the tentative budget on May 16, 2013 at 9:30 a.m.

JS:jd

Attachment: Draft WRWC Fiscal Year 2013–2014 Tentative Budget
# Western Regional Water Commission

**Fiscal Year July 1, 2013 - June 30, 2014**

**Budget Summary Worksheet**

<table>
<thead>
<tr>
<th>Budget Category</th>
<th>1.5% WMF</th>
<th>Washoe County</th>
<th>TMWA</th>
<th>SVGID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NOTE</td>
<td>In-Kind</td>
<td>NOTE</td>
<td>NOTE</td>
</tr>
<tr>
<td>REVENUE</td>
<td></td>
<td>Amount</td>
<td>Amount</td>
<td>Amount</td>
</tr>
<tr>
<td>Estimated Water Surcharge Revenues</td>
<td></td>
<td>1,366,984</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estimated Interest Income</td>
<td></td>
<td>83,537</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Revenue</td>
<td></td>
<td>1,450,521</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROFESSIONAL SERVICES/SUPPLIES</th>
<th></th>
<th>Amount</th>
<th>Amount</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated Professional Services (Page 2)</td>
<td></td>
<td>4,442,000</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Staff Services (Page 3)</td>
<td></td>
<td>480,932</td>
<td>2</td>
<td>62,629</td>
</tr>
<tr>
<td>Non-Staff Services (Page 3)</td>
<td></td>
<td>103,000</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Total Professional Services/Supplies</td>
<td></td>
<td>5,025,932</td>
<td>62,629</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OTHER EXPENSES</th>
<th></th>
<th>Amount</th>
<th>Amount</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated Misc.</td>
<td></td>
<td></td>
<td>97,237</td>
<td>4</td>
</tr>
<tr>
<td>Total Other Expense</td>
<td></td>
<td>97,237</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

| Total Expenses                   |          | 5,025,932     | 159,866 | 0     | 0       |

Net Decrease in Cash Reserves ($3,575,411)

<table>
<thead>
<tr>
<th>Cash Balance as of 7/1/12</th>
<th>$3,833,392</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated 2012/2013 Revenue (Cash Flow)</td>
<td>$1,461,738</td>
</tr>
<tr>
<td>Estimated 2012/2013 expenditure (Page 4)</td>
<td>($1,415,188)</td>
</tr>
<tr>
<td>Estimated cash balance as of 7/1/13</td>
<td>$3,879,942</td>
</tr>
<tr>
<td>Net Decrease in Cash Reserves for FY 2013-14</td>
<td>($3,575,411)</td>
</tr>
<tr>
<td>Estimated cash balance as of 6/30/14</td>
<td>$304,531</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Proposed budget provides legal spending authority for projects yet to be approved by the WRWC upon recommendations provided by the NNWPC. Specific per project scope and cost yet to be developed and approved by the WRWC.

2. Proposed budget provides legal spending authority for contract staff services previously approved by the WRWC.

3. Washoe County estimate for labor overhead: 1.5% fund management, accounting, purchasing, human resources, information technology, routine/administrative and GIS/drafting services.

4. Washoe County estimate for services and supplies overhead: office space, utilities, computer hardware, software, copier, supplies.

5. Budget expenses exceed revenues by $3,575,411 which reduces projected cash balance to approximately $304,531 at 6/30/14.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>consolidation feasibility analysis</td>
<td>$75,000</td>
<td>$75,000</td>
<td>$75,000</td>
<td>$75,000</td>
<td>$300,000</td>
<td>support for TMWA, DWR and STMGID</td>
</tr>
<tr>
<td>TROA 6700 AF Water Rights Requirement</td>
<td>$675,000</td>
<td>$675,000</td>
<td>$675,000</td>
<td>$675,000</td>
<td>$2,700,000</td>
<td>Water rights acquisition and review of street/ROW water rights</td>
</tr>
<tr>
<td>208 Plan Review and Update</td>
<td>$5,000</td>
<td>$5,000</td>
<td>$5,000</td>
<td>$5,000</td>
<td>$20,000</td>
<td></td>
</tr>
<tr>
<td>Regional Water Planning Projects</td>
<td>$755,000</td>
<td>$755,000</td>
<td>$755,000</td>
<td>$755,000</td>
<td>$3,020,000</td>
<td></td>
</tr>
<tr>
<td>Cloud Seeding</td>
<td>$25,000</td>
<td>$25,000</td>
<td>$25,000</td>
<td>$25,000</td>
<td>$100,000</td>
<td>ILA with DRI</td>
</tr>
<tr>
<td>Washoe ET Project</td>
<td>$1,750</td>
<td>$1,750</td>
<td>$1,750</td>
<td>$1,750</td>
<td>$7,000</td>
<td>ILA with DRI</td>
</tr>
<tr>
<td>Water Usage Review Program</td>
<td>$25,000</td>
<td>$25,000</td>
<td>$25,000</td>
<td>$25,000</td>
<td>$100,000</td>
<td>Inclusive of contract for TMWA 75k and SVGID 25k</td>
</tr>
<tr>
<td>Certified Landscape Technician Program</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$12,500</td>
<td>$12,500</td>
<td>ILA with NLA</td>
</tr>
<tr>
<td>Regional Water Conservation</td>
<td>$51,750</td>
<td>$51,750</td>
<td>$51,750</td>
<td>$64,250</td>
<td>$219,500</td>
<td></td>
</tr>
<tr>
<td>Integrated Wastewater and Reclaimed Water System Planning</td>
<td>$12,500</td>
<td>$12,500</td>
<td>$12,500</td>
<td>$12,500</td>
<td>$50,000</td>
<td>Indirect Potable Reuse</td>
</tr>
<tr>
<td>Regional Reclaim Water Planning Projects</td>
<td>$12,500</td>
<td>$12,500</td>
<td>$12,500</td>
<td>$12,500</td>
<td>$50,000</td>
<td></td>
</tr>
<tr>
<td>NPDES Storm Water Quality Management Program</td>
<td>$65,625</td>
<td>$65,625</td>
<td>$65,625</td>
<td>$65,625</td>
<td>$262,500</td>
<td>ILA with City of Reno</td>
</tr>
<tr>
<td>Regional Storm Water Planning Projects</td>
<td>$65,625</td>
<td>$65,625</td>
<td>$65,625</td>
<td>$65,625</td>
<td>$262,500</td>
<td></td>
</tr>
<tr>
<td>Regional Flood Control Planning Projects</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td></td>
</tr>
<tr>
<td>Water Quality Standards and TMDL Review, and compliance</td>
<td>87,500</td>
<td>87,500</td>
<td>87,500</td>
<td>87,500</td>
<td>$350,000</td>
<td>ILA with City of Reno for LTI, Agreement with Somach Simons &amp; Dunn, ILA with City of Reno for Treatment Analysis ($50k)</td>
</tr>
<tr>
<td>Septic System Mitigation Planning</td>
<td>$37,500</td>
<td>$37,500</td>
<td>$37,500</td>
<td>$37,500</td>
<td>$150,000</td>
<td>1. Phase II - Risk assessment data needs</td>
</tr>
<tr>
<td>Regional Wastewater Planning Projects</td>
<td>$125,000</td>
<td>$125,000</td>
<td>$125,000</td>
<td>$125,000</td>
<td>$500,000</td>
<td></td>
</tr>
<tr>
<td>Water Management Plan Update</td>
<td>$10,000</td>
<td>$10,000</td>
<td>$10,000</td>
<td>$10,000</td>
<td>$40,000</td>
<td></td>
</tr>
<tr>
<td>TMRPA GIS Population Model</td>
<td>$87,500</td>
<td>$87,500</td>
<td>$87,500</td>
<td>$87,500</td>
<td>$350,000</td>
<td>ILA with RPGB</td>
</tr>
<tr>
<td>Comprehensive Plan</td>
<td>$97,500</td>
<td>$97,500</td>
<td>$97,500</td>
<td>$97,500</td>
<td>$390,000</td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td>$1,107,375</td>
<td>$1,107,375</td>
<td>$1,107,375</td>
<td>$1,119,875</td>
<td>$4,442,000</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>-----------------------------</td>
<td>-----------------------------</td>
<td>-----------------------------</td>
<td>-----------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>WRWC Employees</td>
<td>$83,633</td>
<td>$83,633</td>
<td>$83,633</td>
<td>$83,633</td>
<td>$334,532</td>
<td>Cost for Support Staff services as defined by employee services contract entered into between Washoe County and WRWC.</td>
</tr>
<tr>
<td>Mileage Expenses</td>
<td>$600</td>
<td>$600</td>
<td>$600</td>
<td>$600</td>
<td>$2,400</td>
<td>Annual routine daily vehicle mileage expenses.</td>
</tr>
<tr>
<td>Legal Services</td>
<td>$36,000</td>
<td>$36,000</td>
<td>$36,000</td>
<td>$36,000</td>
<td>$144,000</td>
<td>Cost for Legal Counsel services as defined by contract as entered into between Rhodes Law Office and WRWC.</td>
</tr>
<tr>
<td>Lobbing Registration</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>Cost for registration for staff members as state lobbyists.</td>
</tr>
<tr>
<td><strong>Staff Services Subtotal</strong></td>
<td><strong>$120,233</strong></td>
<td><strong>$120,233</strong></td>
<td><strong>$120,233</strong></td>
<td><strong>$120,233</strong></td>
<td><strong>$480,932</strong></td>
<td><strong>Annual service contract to provide for recording of meetings, transcription of minutes and document editing.</strong></td>
</tr>
<tr>
<td>Minutes</td>
<td>$5,000</td>
<td>$5,000</td>
<td>$5,000</td>
<td>$5,000</td>
<td>$20,000</td>
<td>Annual Expense for video coverage of WRWC and NNWPC Meetings.</td>
</tr>
<tr>
<td>Website</td>
<td>$5,000</td>
<td>$5,000</td>
<td>$5,000</td>
<td>$5,000</td>
<td>$20,000</td>
<td>Annual Expense for CAFR development and Financial Audit.</td>
</tr>
<tr>
<td>Video Coverage</td>
<td>$2,500</td>
<td>$2,500</td>
<td>$2,500</td>
<td>$2,500</td>
<td>$10,000</td>
<td>Annual Expense for video coverage of WRWC and NNWPC Meetings.</td>
</tr>
<tr>
<td>CAFR &amp; Audit</td>
<td>$23,000</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$23,000</td>
<td>Cost of training for staff members not covered by in-kind services including registration and other miscellaneous cost such as reference materials, field trips, etc.</td>
</tr>
<tr>
<td>Regional Training</td>
<td>$750</td>
<td>$750</td>
<td>$750</td>
<td>$750</td>
<td>$3,000</td>
<td>Cost of training for staff members not covered by in-kind services including registration and other miscellaneous cost such as reference materials, field trips, etc.</td>
</tr>
<tr>
<td>Regional Travel</td>
<td>$1,750</td>
<td>$1,750</td>
<td>$1,750</td>
<td>$1,750</td>
<td>$7,000</td>
<td>Cost of travel and training for staff members not covered by in-kind services including transportation services, mileage reimbursement, lodging, meals, and other miscellaneous cost such as parking, etc.</td>
</tr>
<tr>
<td>Advertising</td>
<td>$1,250</td>
<td>$1,250</td>
<td>$1,250</td>
<td>$1,250</td>
<td>$5,000</td>
<td>Such as Advertising and Legal Notices.</td>
</tr>
<tr>
<td>Misc. Operating</td>
<td>$3,750</td>
<td>$3,750</td>
<td>$3,750</td>
<td>$3,750</td>
<td>$15,000</td>
<td>Such as: printing &amp; reproduction, publications, and public notices, refreshments for volunteer boards/commissions, GIS and other in-house member agency support (not covered by in-kind services), equipment &amp; supplies (i.e. computers, computer related supplies such as CDs, DVDs, etc.), projectors, printers, CD label machine, poster board, reproduction services, software licensing and fees, labels, business cards, periodicals, subscriptions, books, postage &amp; mailing, promotion and public materials, miscellaneous equipment rental, insurances, general overhead expenses.</td>
</tr>
<tr>
<td>Expiration of In-Kind Services (TMWA/DWR/SVGID)</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>Currently all in-kind service costs are covered by member agencies.</td>
</tr>
<tr>
<td><strong>Non-Staff Services Subtotal</strong></td>
<td><strong>$43,000</strong></td>
<td><strong>$20,000</strong></td>
<td><strong>$20,000</strong></td>
<td><strong>$20,000</strong></td>
<td><strong>$103,000</strong></td>
<td>****</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>$163,233</strong></td>
<td><strong>$140,233</strong></td>
<td><strong>$140,233</strong></td>
<td><strong>$140,233</strong></td>
<td><strong>$583,932</strong></td>
<td>****</td>
</tr>
</tbody>
</table>
## Estimated Expenditures Fiscal Year 2012/2013

<table>
<thead>
<tr>
<th>Quarter Ending</th>
<th>Total Estimated Fiscal 2012/2013 Expenditure as of 6/30/13</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRWC Employees</td>
<td>302,532</td>
</tr>
<tr>
<td>Mileage Expenses</td>
<td>2,400</td>
</tr>
<tr>
<td>Legal Services</td>
<td>129,600</td>
</tr>
<tr>
<td>Lobbying Services</td>
<td>600</td>
</tr>
<tr>
<td><strong>Service Contract Subtotal</strong></td>
<td><strong>435,132</strong></td>
</tr>
<tr>
<td>Minutes</td>
<td>13,480</td>
</tr>
<tr>
<td>Website</td>
<td>7,500</td>
</tr>
<tr>
<td>Envision/G3</td>
<td>4,000</td>
</tr>
<tr>
<td>CAFR &amp; Audit</td>
<td>8,300</td>
</tr>
<tr>
<td>Regional Training</td>
<td>0</td>
</tr>
<tr>
<td>Regional Travel</td>
<td>0</td>
</tr>
<tr>
<td>Advertising</td>
<td>250</td>
</tr>
<tr>
<td>Misc. Operating</td>
<td>232</td>
</tr>
<tr>
<td>Expiration of In-Kind Services (TMWA/DWR/SVGID)</td>
<td>0</td>
</tr>
<tr>
<td><strong>Non-Service Related Routine Operating Subtotal</strong></td>
<td><strong>33,762</strong></td>
</tr>
<tr>
<td><strong>Routine Operating Expense Subtotals</strong></td>
<td><strong>468,894</strong></td>
</tr>
<tr>
<td>DWR / TMWA Consolidation</td>
<td>300,000</td>
</tr>
<tr>
<td>TROA 6700 AF Water Rights Requirement</td>
<td>0</td>
</tr>
<tr>
<td>208 Plan Review and Update</td>
<td>0</td>
</tr>
<tr>
<td><strong>Regional Water Planning</strong></td>
<td><strong>300,000</strong></td>
</tr>
<tr>
<td>DRI Cloud Seeding</td>
<td>100,000</td>
</tr>
<tr>
<td>Washoe ET Project</td>
<td>6,000</td>
</tr>
<tr>
<td>Water Usage Review Program</td>
<td>64,000</td>
</tr>
<tr>
<td>Certified Landscape Technician Program</td>
<td>12,500</td>
</tr>
<tr>
<td><strong>Conservation, Sustainability, Climate Change</strong></td>
<td><strong>182,500</strong></td>
</tr>
<tr>
<td>North Valleys Initiative (COR)</td>
<td>0</td>
</tr>
<tr>
<td><strong>Regional Reclaimed Water Planning Projects</strong></td>
<td><strong>0</strong></td>
</tr>
<tr>
<td><strong>NPDES Storm Water Quality Management Program</strong></td>
<td><strong>220,553</strong></td>
</tr>
<tr>
<td><strong>Regional Storm Water Planning Projects</strong></td>
<td><strong>220,553</strong></td>
</tr>
<tr>
<td><strong>Regional Flood Control Planning Projects</strong></td>
<td><strong>0</strong></td>
</tr>
<tr>
<td>Water Quality Standard and TMDL Review</td>
<td>143,241</td>
</tr>
<tr>
<td>TMWRF - Corrollo</td>
<td>50,000</td>
</tr>
<tr>
<td>Septic Alternatives Analysis</td>
<td>60,000</td>
</tr>
<tr>
<td>Federal 208 Pass through Gant for Septic Alternatives Analysis</td>
<td>-40,000</td>
</tr>
<tr>
<td><strong>Regional Wastewater Planning Projects</strong></td>
<td><strong>213,241</strong></td>
</tr>
<tr>
<td>Plan Development Services</td>
<td>0</td>
</tr>
<tr>
<td>TMRPA GIS Population Model</td>
<td>30,000</td>
</tr>
<tr>
<td>DWR GIS Services</td>
<td>0</td>
</tr>
<tr>
<td><strong>Water Management Plan</strong></td>
<td><strong>30,000</strong></td>
</tr>
<tr>
<td><strong>Project Subtotal</strong></td>
<td><strong>946,294</strong></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>1,415,188</strong></td>
</tr>
</tbody>
</table>
Western Regional Water Commission

STAFF REPORT

DATE: March 13, 2013

TO: Chairman and Members, Western Regional Water Commission

FROM: Jim Smitherman, Water Resources Program Manager
Terri Svetich, P.E. City of Reno

SUBJECT: Discussion and possible approval of a scope of work for an analysis of treatment alternatives at the Truckee Meadows Water Reclamation Facility (“TMWRF”), and funding in an amount not to exceed $50,000 from the Regional Water Management Fund (“RWMF”); and, if approved, authorize the Chairman to execute an Interlocal Agreement with the City of Reno for that purpose.

SUMMARY
Wastewater flows to TMWRF are more concentrated in recent years due to water conservation efforts, low flow fixtures and other factors. Consequently, there are higher nitrogen levels in the influent flows into the plant. The existing treatment processes at TMWRF are sufficiently removing nitrogen to meet discharge requirements; however, projecting future flows and loadings, the existing processes may need to be augmented to continue to meet limits. The Cities of Reno and Sparks would like to perform a high level assessment of commonly considered tertiary treatment processes that could be employed to enhance nitrogen removal at TMWRF. This assessment would provide a sense of the magnitude of costs to implement, footprint requirements, long term operation considerations, possible by-products and disposal, permitting considerations and time to implement.

On March 6, 2013, the Northern Nevada Water Planning Commission reviewed the $50,000 funding request and the attached scope of work, and made a recommendation to the WRWC for approval.

BACKGROUND
The National Pollutant Discharge Elimination System (NPDES) permit for TMWRF regulates final effluent discharges to the Truckee River based upon the Total Maximum Daily Loads (TMDL). TMWRF’s current total nitrogen (TN) final effluent load is limited to 500 pounds per day (ppd) on both a calendar year average basis and monthly average basis from May through October.

PREVIOUS ACTION
No previous action.

FISCAL IMPACT
The fiscal impact to the RWMF, should this item be approved, will not exceed $50,000. Budget authority is located in Fund Group 766, Fund 7066, Account Number 710100, Professional Services, Cost Object WP310500.
RECOMMENDATION
The NNWPC recommends that the WRWC approve funding not to exceed $50,000 from the Regional Water Management Fund, for an analysis of treatment alternatives at the Truckee Meadows Water Reclamation Facility and authorize the Chairman to execute an Interlocal Agreement with the City of Reno for that purpose.

POSSIBLE MOTION
Should the Commission agree with the above recommendation, a possible motion is:
“Move to approve funding not to exceed $50,000 from the Regional Water Management Fund, for an analysis of treatment alternatives at the Truckee Meadows Water Reclamation Facility and authorize the Chairman to execute an Interlocal Agreement with the City of Reno for that purpose.”

JS:jd

Attachment
January 14, 2013

Ms. Terry Svetich
City of Reno
350 S. Center Street, Suite 400
Reno, NV 89505

Subject: Proposal to Perform Enhanced Nitrogen Removal Planning Study for the TMWRF

Dear Ms. Svetich:

At your request, we are pleased to submit this letter proposal to perform a high-level planning study to evaluate enhanced removal of total nitrogen (TN) in the effluent at the Truckee Meadows Water Reclamation Facility (TMWRF).

INTRODUCTION

The National Pollutant Discharge Elimination System (NPDES) permit for the TMWRF regulates final effluent discharges to Steamboat Creek/Truckee River. Specifically, TMWRF’s current TN final effluent load is limited to 500 pounds per day (ppd) on both a calendar year average basis and monthly average basis from May through October. Although the TMWRF currently treats an average of about 30 mgd, its final effluent monthly average TN load has nearly reached the 500 ppd limit on several occasions over the past 12 months. As a result, the City would like to perform an enhanced nitrogen removal planning study to identify and evaluate options to comply with the current TN limit at the permitted monthly average capacity of 44 mgd. Specifically, Carollo will evaluate the use of new unit processes to treat a portion or all of the entire liquid stream.

SCOPE OF WORK

The following Scope of Work outlines the tasks that Carollo will perform.

Task 1 – Project Management and Meetings

Carollo will provide project management necessary to perform planning, execution, monitoring, and reporting of this project. For this task, Carollo will also attend three meetings in Reno, NV.

- The first meeting will be a kickoff meeting with the City and TMWRF staff to review project goals and discuss project approach and schedule.
- The second meeting will be conducted after submission of the draft technical memorandum (TM) discussed in Task 2 to review City and TMWRF staff comments.
- The third meeting will be to attend a meeting with City staff at the Northern Nevada Water Planning Commission meeting. Carollo will assist the City in preparing a presentation of the key findings from the study for this meeting.

Meeting notes for the first two meetings will be prepared and submitted to the City after each meeting.
Task 2 – Enhanced Nitrogen Removal Evaluation

The TMWRF already includes several tertiary treatment processes for nitrogen removal. The primary and secondary treatment facilities are followed by six nitrification towers that biologically oxidize ammonia nitrogen to nitrate nitrogen. The nitrification towers are followed by four fluidized bed denitrification reactors that biologically reduce the nitrate nitrogen to nitrogen gas, which is released to the atmosphere. An external carbon source (methanol) is fed to the reactors to enable biological denitrification. Finally, 12 granular media filters are used to further reduce remaining suspended solids.

The existing tertiary treatment facilities are achieving significantly better nitrogen removal than they were designed for in the 1980’s. These facilities were designed to meet a permitted monthly average TN load of 1,665 lbN/d, corresponding to a TN concentration of 5.0 mgN/L at a permitted monthly average flow rate of 40 mgd. Additionally, these facilities were designed to meet a seasonal ammonia nitrogen discharge limit of 2.6 mgN/L from May through October.

The current permitted monthly average TN load is 500 lbN/d – 30 percent of the original design basis. To comply with the current discharge limit, TMWRF operations staff achieve higher nitrification tower and denitrification reactor efficiencies than those assumed for the original design. However, enhanced nitrogen removal may be required to meet even lower nitrogen limits.

There are several treatment alternatives that could be considered for the TMWRF. Many of these alternatives are based on various configurations of suspended growth and/or fixed film biological processes for combined and/or separate-stage nitrification and denitrification. The TMWRF already includes two fixed film biological treatment processes for nitrification and denitrification. The existing suspended growth activated sludge process does not have additional capacity to achieve nitrogen removal in addition to its existing goal of BOD removal and biological phosphorus removal. Accordingly, these alternatives will not be included in this study.

There are other treatment alternatives that could complement – rather than replace – the existing nitrification towers, denitrification reactors, and granular media filters. These alternatives include sidestream treatment processes to treat the ammonia in the centrate return stream, coagulation upstream of the existing filters, membrane processes, and advanced oxidation processes.

Three of these complementary treatment alternatives will be evaluated for this study:

- **Enhanced Coagulation** is an alternative that could be used upstream of the existing granular media filters to improve particulate nitrogen removal. This alternative could also convert colloidal and some soluble nitrogen to a particulate form amenable to removal by the existing filters. Metal salts, polymer, and/or customized coagulants (e.g., polyaluminum chloride) would be used.

- **Reverse Osmosis** is a membrane treatment alternative that has the potential to remove significant soluble and colloidal nitrogen in addition to all particulate nitrogen. Reverse osmosis has a significant energy demand, however, because of the high pressures needed for membrane operation.

- **Advanced Oxidation Processes** are an alternative that use a combination of oxidants (e.g., ozone, hydrogen peroxide, and/or ultraviolet light) to convert soluble nitrogen compounds to 1) more oxidized forms directly that could be removed by the denitrification
reactors, and/or 2) biodegradable forms that could be treated in the other existing biological treatment processes.

The entire plant flow would be treated with the enhanced coagulation alternative. The reverse osmosis and advanced oxidation processes alternatives could treat the entire plant flow or they could be configured as a parallel treatment process to treat only the flow necessary to meet a given discharge limit.

For each alternative, planning level design criteria (including practical flow increment) will be established, along with an estimate of preliminary footprint requirements and costs (construction, capital, and life-cycle costs).

Carollo will prepare a draft TM following completion of Task 2 to summarize planning approach and key findings. Assuming City and TMWRF staff will take two weeks to provide review comments, Carollo will incorporate applicable comments into the final TM for submission to the City and TMWRF.

**COST AND SCHEDULE**

Our estimated cost to perform the Scope of Work is attached as Exhibit A. We will begin our services immediately after receiving a written notice to proceed from the City and will complete the draft TM within two months.

Please call us if you have any questions concerning this proposal.

Sincerely,

CAROLLO ENGINEERS, INC.

Rick Chan, P.E.
Vice President

cc: Ron Appleton and Elisa Garvey – Carollo
## EXHIBIT A

**LABOR AND BUDGET ESTIMATE**

**TRUCKEE MEADOWS WATER RECLAMATION FACILITY**

**ENHANCED NITROGEN REMOVAL PLANNING STUDY**

<table>
<thead>
<tr>
<th>Task</th>
<th>Task Description</th>
<th>Rick Chan</th>
<th>Ron Appleton</th>
<th>Elisa Garvey</th>
<th>CAD</th>
<th>WP</th>
<th>Total Hours</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Project Management and Meetings</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>$1,052</td>
</tr>
<tr>
<td></td>
<td>- Project Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20</td>
<td>$4,916</td>
</tr>
<tr>
<td></td>
<td>- Meeting 1</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>20</td>
<td>$4,916</td>
</tr>
<tr>
<td></td>
<td>- Meeting 2</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>20</td>
<td>$4,916</td>
</tr>
<tr>
<td></td>
<td>- Meeting 3</td>
<td>4</td>
<td>16</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>28</td>
<td>$6,956</td>
</tr>
<tr>
<td></td>
<td><strong>Task 1.0 Totals</strong></td>
<td><strong>16</strong></td>
<td><strong>32</strong></td>
<td><strong>24</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>72</strong></td>
<td><strong>$17,840</strong></td>
</tr>
<tr>
<td>2.0</td>
<td>Enhanced Nitrogen Removal Evaluation</td>
<td>4</td>
<td>60</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>70</td>
<td>$17,720</td>
</tr>
<tr>
<td></td>
<td>- Treatment Alternatives</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>42</td>
<td>$8,760</td>
</tr>
<tr>
<td></td>
<td>- Prepare TM</td>
<td>4</td>
<td>16</td>
<td>8</td>
<td>8</td>
<td>6</td>
<td>42</td>
<td>$8,760</td>
</tr>
<tr>
<td></td>
<td><strong>Task 2.0 Totals</strong></td>
<td><strong>8</strong></td>
<td><strong>76</strong></td>
<td><strong>14</strong></td>
<td><strong>8</strong></td>
<td><strong>6</strong></td>
<td><strong>112</strong></td>
<td><strong>$26,480</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Project Totals</strong></td>
<td><strong>24</strong></td>
<td><strong>108</strong></td>
<td><strong>38</strong></td>
<td><strong>8</strong></td>
<td><strong>6</strong></td>
<td><strong>184</strong></td>
<td><strong>$44,320</strong></td>
</tr>
</tbody>
</table>

(1) Labor rate includes all Carollo's direct cost, overhead, communication, and other material costs.
Western Regional Water Commission

STAFF REPORT

DATE: March 13, 2013

TO: Chairman and Members, Western Regional Water Commission

FROM: Jim Smitherman, Water Resources Program Manager
Andy Gebhardt, Manager Customer Services, TMWA

SUBJECT: Report on the Truckee Meadows Water Authority ("TMWA") 2011 and 2012 Water Usage Review Program; discussion and possible approval of funding in the amount of $131,116 from the Regional Water Management Fund ("RWMF") for the 2013 and 2014 Water Usage Review Program; and, if approved, authorize the Chairman to execute an Interlocal Agreement with TMWA for that purpose.

SUMMARY
On March 6, 2013, the Northern Nevada Water Planning Commission ("NNWPC") made a recommendation to the Western Regional Water Commission ("WRWC") to approve funding for TMWA’s Water Usage Review Program for two years, 2013 and 2014, in the amount of $65,558 per year, for a total of $131,116 from the RWMF.

Andy Gebhardt, TMWA Customer Services Manager, presented a report on the 2011 and 2012 Water Usage Review Program, and a proposal for the next two years. The proposal is attached. Mr. Gebhardt is available to make the same presentation to the WRWC.

BACKGROUND
The WRWC includes funding in its annual budget for the Water Usage Review Program in amounts adequate to cover this recommendation. The WRWC and its predecessor water planning entity, the Regional Water Planning Commission, have supported the Program with funding since the Program's inception in 2003. The WRWC has provided 60 percent of the funding for the Program since 2008, and this recommendation is consistent with that funding level.

PREVIOUS ACTION
The WRWC, at its regular meeting on February 10, 2012, approved a scope of work, budget and funding from the RWMF in the amount of $126,470, to fund approximately 60 percent of the costs of the TMWA Water Usage Review Program for calendar years 2011 and 2012.

FISCAL IMPACT
The fiscal impact to the RWMF, should this item be approved, will not exceed $65,558 per year or $131,116 over 2 years. Budget authority is located in Fund Group 766, Fund 7066, Account Number 710100, Professional Services, Cost Object WP310100.

RECOMMENDATION
The NNWPC recommends that the WRWC approve budgeted funding not to exceed $131,116 from the RWMF, for the 2013 and 2014 Water Usage Review Program and authorize the Chairman to execute an Interlocal Agreement with TMWA for that purpose.

POSSIBLE MOTION
Should the Commission agree with the above recommendation, a possible motion is:
“Move to approve budgeted funding not to exceed $131,116 from the RWMF, for the 2013 and 2014 Water Usage Review Program and authorize the Chairman to execute an Interlocal Agreement with TMWA for that purpose.”

JS:jd

Attachment
STAFF REPORT

TO: Western Regional Water Commission
FROM: Andy Gebhardt, Manager Customer Services
DATE: March 13, 2013
SUBJECT: 2013 and 2014 Water Usage Review Program

Recommendation

The Northern Nevada Water Planning Commission ("NNWPC") recommends that the Western Regional Water Commission ("WRWC") approve funding in the amount of $65,558 from the Regional Water Management Fund ("RWMF") for both the 2013 and 2014 Water Usage Review Program.

Background

The WRWC, and its predecessor water planning entity, the Regional Water Planning Commission ("RWPC"), have supported the program with partial funding since the program's inception in 2003. The program continues to be highly successful for TMWA.

In 2003, TMWA initiated a pilot residential water audit program to help the RWPC further its water conservation goals. The pilot was considered a success and the program has expanded over time. The WRWC has provided 60% of the funding for the program since 2008. The table below summarizes the number and type of water use reviews conducted to-date.

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Commercial</th>
<th>Residential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>1,729</td>
<td>141</td>
<td>1,588</td>
</tr>
<tr>
<td>2011</td>
<td>2,104</td>
<td>213</td>
<td>1,891</td>
</tr>
<tr>
<td>2010</td>
<td>3,426</td>
<td>407</td>
<td>3,019</td>
</tr>
<tr>
<td>2009</td>
<td>2,675</td>
<td>300</td>
<td>2,375</td>
</tr>
<tr>
<td>2008</td>
<td>2,461</td>
<td>265</td>
<td>2,196</td>
</tr>
<tr>
<td>2007</td>
<td>2,025</td>
<td>221</td>
<td>1,804</td>
</tr>
<tr>
<td>2006</td>
<td>731</td>
<td>70</td>
<td>661</td>
</tr>
<tr>
<td>2005</td>
<td>894</td>
<td>123</td>
<td>771</td>
</tr>
<tr>
<td>2004</td>
<td>497</td>
<td>66</td>
<td>431</td>
</tr>
<tr>
<td>2003</td>
<td>444</td>
<td>42</td>
<td>402</td>
</tr>
</tbody>
</table>
As is evidenced by the chart, since 2010 fewer customers have requested water usage audits. We feel that this is attributable to three primary factors: A) Familiarity with the assigned day water schedule, B) Success of the Community Outreach and Education portion of the program, and C) Customers' growing awareness of their bills and the control that they have over their usage.

Discussion

In general, the findings from the 2012 program year were consistent with those of past years. Customers respond very positively to the program. Working with customers at their homes and businesses where staff can advise the customers how to manage their water use based on their specific site characteristics is highly effective. While some of the education that takes place during a water usage review may address indoor water use (such as opportunities to increase the efficiency of a toilet or water-using appliance), the majority of recommendations to customers involve outdoor water use. Settings on automatic sprinkler and drip irrigation systems provide the best opportunity for customers to change the amount of water they use.

In 2012, staffing for the program continued to be at normal levels (equivalent to two full-time staff members), indicating that the peak of 2010 appears to be an anomaly.

TMWA considers the Water Usage Review Program a success in expanding awareness of responsible water use through on-site customer education. Based on strong customer interest, TMWA will continue the program in 2013 and 2014. Since 2008, TMWA has received funding for 60% of the program budget from the RWMF, and we would respectfully request that funding level continue.

<table>
<thead>
<tr>
<th>Cost Item</th>
<th>Comment</th>
<th>Estimated Total Costs for 2013</th>
<th>Estimated Total Costs for 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries &amp; Expenses</td>
<td>(1)</td>
<td>$95,763</td>
<td>$95,763</td>
</tr>
<tr>
<td>Vehicle(s) &amp; Fuel</td>
<td>(2)</td>
<td>$8,000</td>
<td>$8,000</td>
</tr>
<tr>
<td>Equipment &amp; Supplies</td>
<td>(3)</td>
<td>$3,000</td>
<td>$3,000</td>
</tr>
<tr>
<td>Outreach Materials</td>
<td></td>
<td>$2,500</td>
<td>$2,500</td>
</tr>
<tr>
<td><strong>Total Estimated Program Cost</strong></td>
<td></td>
<td><strong>$109,263</strong></td>
<td><strong>$109,263</strong></td>
</tr>
</tbody>
</table>

**Recommended NNWPC/WRWC Funding for 2013**

$65,558

**Recommended NNWPC/WRWC Funding for 2014**

$65,558

TMWA requests the ability to shift funding between line items if costs necessitate a transfer of funds. Any funds remaining after December 2014 will either be refunded to the RWMF or used for possible program continuation in 2015, subject to WRWC approval.
Western Regional Water Commission

STAFF REPORT

DATE: March 12, 2013

TO: Chairman and Members, Western Regional Water Commission ("WRWC")

FROM: Jim Smitherman, Water Resources Program Manager

SUBJECT: Report on the WRWC presentation at the Nevada Legislature's March 5, 2013 Joint meeting of the Senate Committee on Natural Resources and the Assembly Committee on Natural Resources, Agriculture and Mining

SUMMARY

On March 5, 2013, WRWC Chairman Mike Carrigan and Jim Smitherman gave a brief presentation at the Joint meeting of the Senate Committee on Natural Resources and the Assembly Committee on Natural Resources, Agriculture and Mining. The presentation was prepared in response to a request from Nevada Legislative Counsel Bureau staff for an introduction and overview of the WRWC. The PowerPoint presentation is attached for the Commission’s information.

The WRWC presentation followed those by the Nevada State Engineer, Southern Nevada Water Authority, and Truckee Meadows Water Authority, and was followed with presentations by Washoe County, South Truckee Meadows General Improvement District and Sun Valley General Improvement District.

Following the WRWC presentation, Assemblyman Daly, Chairman of the Assembly Committee on Natural Resources, Agriculture and Mining, and presiding over the joint meeting, asked if the WRWC would continue its work should the Legislative Committee to Oversee the WRWC expire by limitation (on July 1, 2013). Staff responded that the WRWC would continue (as required by statute).

JS:jd

Attachment
SLIDE 1 - Title Page –
Introduce self
Introduce Mike Carrigan as WRWC Chairman
Background

Chapter 531 Statutes of Nevada 2007, the Western Regional Water Commission Act sets forth the

➤ Structure of the Commission
➤ Boundaries of the Planning Region
➤ Responsibilities of the
  • Western Regional Water Commission
  • Northern Nevada Water Planning Commission
➤ Funding Authorization
  • Act authorizes 1.5% fee

SLIDE 2 –
The WRWC is a multi-jurisdictional water planning board in Washoe County, created by Special Legislation found in Chapter 531 Statutes of Nevada, 2007 (the “Act”), The Commission was also formed by Joint Powers Agreement as authorized in the Act.

This presentation will cover the makeup of the Commission, it's planning area, responsibilities and recent activities.

Funding for the program, as authorized by the Act, is from a 1.5% surcharge on retail water bills in the planning area.
SLIDE 3 –
This organizational chart shows the Legislative Committee to Oversee the Commission which meets during interim years, WRWC member agencies (3 local governments and 3 publicly owned water utilities), And the Commission’s technical advisory panel (NNWPC) made up of subject matter experts from local government, NGOs, the private sector and the PLPT.
WRWC Planning Area

All of Washoe County except:

- Tahoe Region
- Any Indian Reservation or Colony held in trust by the U.S.
- Gerlach GID
- Basins 22 (San Emidio), 23 (Granite Basin) and 24 (Hualapai Flat)
- Board may include or exclude other land from the planning area for certain reasons

SLIDE 4 –

The Planning area map shows the WRWC’s area of responsibility according to the Act:

Essentially all of Washoe County except the Tahoe basin, Tribal lands and 3 basins north of Pyramid Lake.

The focus is clearly the southern part of the County, centered on Reno and Sparks and the surrounding unincorporated areas.
Responsibilities

➢ Develop and Adopt Comprehensive Plan
  • Adopted January 2011
  • Review and update every 5 years

➢ Conformance Review
  • Truckee Meadows Regional Plan
  • Proposals to construct facilities that may affect the working of the Plan

SLIDE 5 –
The main responsibilities required by the Act are:
For the NNWPC to develop a Comprehensive Plan for water, wastewater, water quality, drainage and flood control.
The WRWC was required to adopt the Plan by January 2011 and present it to the Legislature, which was done on schedule.
The Act requires a review of the Water Plan by the Regional Planning Commission for conformance with the Regional Plan required by NRS 278.
The Act also requires the Commission to review proposals to construct facilities that may affect the working of the Water Plan
A review and update every 5 years is also required, with a Plan update due in January 2016.
Review of the Commission's Activities in 2012

- Water Quality
  - Truckee River Water Quality Standards
  - Septic Tank Discharge and Groundwater Quality Study
- Water Resources and Regional Land Use Planning
  - Population Forecast – Water Resources Comparison
  - Coordination with Regional Planning Agency

SLIDE 6 –
2012 activities include two water quality topics and some work related to water resources and regional land use planning
Water Quality

- Third-Party Review of Truckee River Water Quality Standards and Total Maximum Daily Load (TMDL)
  - Integration of water quality modeling and TROA flow modeling
  - Work Plan for Stakeholder Involvement and Regulatory Process
- Treatment Alternatives Planning Study
- Effluent Management

SLIDE 7 – Water Quality

The WRWC has been supporting the local governments and NDEP working together to review the Truckee River nutrient water quality standards. All the parties agree that the present standards are not based on the best available science, and that they should be.

The local governments are currently evaluating the different kinds wastewater treatment facilities and effluent management strategies needed for the future, and the Truckee River nutrient standards have a significant influence on those decisions.
Water Quality

> Septic Tank Density and Groundwater Quality
  - Apply knowledge gained from Spanish Springs Valley Septic Conversion project
  - Nation-wide search for innovative technology and financing ideas

SLIDE 8 – Water Quality

Housing developments that use septic tanks to treat and dispose of wastewater, if in high enough numbers and densities, can degrade water quality in the underlying groundwater.

Washoe County has learned a great deal about this in Spanish Springs Valley, and has applied some of that knowledge in a survey of other locations in the County.

Because the solution in Spanish Springs is expensive, that is extending sewer service and abandoning the septic tanks, the WRWC hired a firm to compile the latest technologies and funding ideas being implemented elsewhere in the county and recommend what would be best suited to our locations.
Water Resources and Land Use Planning

- 2008 Ballot Question WC#3
  - Truckee Meadows Regional Plan Amendments of 2010

- 2011 Regional Water Management Plan
  - Estimated Sustainable Water Resources 183,000 acre ft/yr
    - Truckee River Water Resources
    - Tributary Water Resources
    - Groundwater Resources

SLIDE 9 – Water Resources and Land Use Planning
Some work last year having to do with water resources and land use planning
has roots back in 2008.

Washoe County voters approved a ballot question that ties regional land use
planning to sustainable water resources.

The Truckee Meadow Regional Plan was amended in 2010 and the WRWC was
identified as the entity to compare the county population forecast to the
sustainable water resources potentially available in the County.

The Regional Water Plan estimates that 183,000 acre feet per year of
sustainable water resources are potentially available in Washoe County.
Water Resources and Land Use Planning

- Estimated Sustainable Water Resources
  - 183,000 acre ft/yr

- Consensus Population Forecast
  - 2030 population forecast 590,500

- Regional Water Demand Forecast Model
  - 2030 demand 142,000 acre ft

SLIDE 10 – Water Resources and Land Use Planning
The population forecast in 2010 was 590,500 people in the year 2030.
TMWA’s water demand forecast model showed that 590,500 people would use approximately 142,000 acre feet of water per year.
The 2010 comparison showed that adequate sustainable water resources had been identified in the Water Plan (with approximately 40,000 af to spare).
The population forecast is done every 2 years, so we revisited this last year.
SLIDE 11 –

The population forecast of 2012 is lower (by nearly 45,000 persons at 2030), therefore a new water demand forecast was considered unnecessary.

(Stats if needed: 2030=545,700; 2032=560,800; 2010-2030 growth rate=1.8%, 2012-2032 rate=1.6%)
Coordination with Truckee Meadows Regional Planning Agency

- Population and Employment Model
  - Parcel-level projection of where future population may live and work

- Industrial Land Needs Analysis
  - Compare existing supply of industrial land uses with projected demand

- Scenario Planning
  - Enhance our ability to provide services to various land use patterns

SLIDE 12 –

This topic concerns a Truckee Meadows Regional Planning Agency project on which the WRWC is a cooperating agency, providing partial funding and in-kind support. The project is also coordinating with RTC, EDAWN, Governor’s Office on Economic Development and Western Nevada Development District.

The WRWC is working among its member agencies to provide data to help show where infrastructure exists and where future development will be more or less easily served, and what that service might cost.

Currently the project is engaged in a analysis of the present supply, and future demand for industrial lands in the region.

Ultimately, the parcel-based population and employment model will integrate the water-related data sets and the industrial lands data with other data, such as transportation, energy, schools, and more, and enhance our ability to plan for the provision of services using various land use and development scenarios.

Questions?
Western Regional Water Commission

DATE: March 14, 2013
TO: Chairman and Members, Western Regional Water Commission
FROM: John Rhodes, Legal Counsel
SUBJECT: Report on legislative activities, including Bill Draft Requests and Bills pending in the 2013 Nevada Legislature that may affect the Western Regional Water Commission (“WRWC”) / Northern Nevada Water Planning Commission (“NNWPC”)

The following staff report lists Bill Draft Requests ("BDR's") and Bills pending in the 2013 Nevada Legislature, as of March 14, 2013, that may affect or are of interest to the WRWC and NNWPC. No additional language is available for the BDR's at this time. Pending Bills are noted with an Assembly ("AB") or Senate ("SB") designation, and the complete language of each Bill is available by clicking on the corresponding link contained in the electronic version of this report. WRWC staff and the WRWC Legislative Subcommittee will track these BDR's and Bills, recommend positions to be taken, and provide periodic updates to the WRWC/NNWPC.
Western Regional Water Commission

Bill Drafts Requested and Bills Introduced

Water Issues

126 Assemblywoman Carlton
   Revises provisions relating to wastewater (6/27/12)

17--144 Legislative committee to Oversee the Western Regional Water Commission (SB 487,2007)
   Provides for an ongoing study of water issues in Nevada (6/28/12)
   Please click the following link to view a recent report entitled:
   13-09 Legislative Committee to Oversee the Western Regional Water Commission

439 Assemblywoman Carlton
   Provides for the development of a statewide water plan (9/4/12)

442 Assembly Goicoechea
   Makes appropriation to the Humboldt River Basin Water Authority for cloud seeding project (9/4/12)

SB232 Senator Roberson
   Provides for oversight and transparency of the Southern Nevada Water Authority
   (BDR 58--481, 9/4/12)

48--543 Assemblyman Goicoechea
   Joint Requester: Assemblyman Ellison
   Revises provisions governing the transfer of water rights. (10/30/12)

AB157 Assemblyman Wheeler
   Enacts the Municipal Water Users Equity Act of 2013.
   Revises provisions relating to water furnished by a municipal water system for domestic use in certain counties.
   (BDR 48--565, 11/14/12)
**SB133 Senator Goicoechea**
Includes participation by local governments in monitoring, management and mitigation of water resources. Requires the State Engineer to allow a county to participate in the development and implementation of a plan relating to the appropriation of water for beneficial use under certain circumstances. (BDR 48--631, 12/3/12)

**Assemblyman Bobzien**
Revises provisions governing the waters of this State (12/10/12)

**Assemblyman Oscarson**
Directs the Legislative committee on Public Lands to study and make recommendations on alternative water sources for Nevada communities during the 2013-2014 interim. (12/10/12)

**Senator Settelmeyer**
Revises provisions relating to water (12/10/12)

**Open Meeting Issues**

**AB118 Assemblyman Hickey**
Revises provisions governing the applicability of the Open Meeting Law to the Legislature establishes the Legislative Open Meeting Law.
(BDR 17--49, 3/26/12)

**AB65 Attorney General**
Makes various changes to the Open Meeting Law
(BDR 19--402, 8/31/12)

**Assemblywoman Spiegel**
Revises provisions relating to public notices (12/10/12)
Ethics and Contracts Issues

23--103 Senator Hardy
   Makes various changes concerning ethics in government. (6/26/12)

111 Assemblyman Conklin
   Revises provisions governing ethics in government. (6/26/11)

SB228 Senator Parks
   Revises provisions relating to ethics in government (BDR 23--445, 9/4/12)

AB169 Assemblywoman Neal
   Revises provisions relating to contracts with a governmental entity. (BDR23--793, 12/10/12)

815 Assembly Committee on Legislative Operations and Elections
   Makes various changes relating to ethics in government (12/10/12)

23--988 Assembly Committee on Legislative Operations and Elections
   Revises provisions governing ethics in government. (2/8/13)

17--1027 Assemblywoman Spiegel
   Enacts the Lobbyist Code of Ethics (2/11/13)

85 Assembly Ellison
   Revises provisions governing contracts for services entered into by certain public employers (6/21/12)
Public Records Issues

19--185 Assembly Atkinson  
Revises provisions governing public records (8/17/12)

AB31 Attorney General  
Revises provisions governing public records requests.  
(BDR 19--211, 8/30/12)

Subcommittee Position Neutral

19--248 Assemblyman Grady  
Revises provisions governing public records. (8/30/12)

SB74 Senator Segerblom  
Revises provisions relating to public records.  
(BDR 19--603, 11/28/12)

Subcommittee Position Oppose, as written

AB251 Assemblyman Hansen  
Revises provisions governing publication of informational reports, duplicative information and notices required to be mailed.  
(BDR 19--159, 7/25/12)

Subcommittee Position

AB4 Nevada League of Cities and Municipalities  
Revises provisions governing publication of informational reports, duplicative information and notices required to be mailed.  
Revises certain provisions governing public records and legal notices.  
(BDR 19--259, 8/30/12)

Subcommittee Position Support
### Other Issues of Interest

**SB2 Nevada Association of Counties**  
Revises provisions governing powers of local governments  
Grants power to local governments to perform certain acts or duties which are not prohibited or limited by statute.  
(BDR 20--174, 8/10/12)  
Subcommittee Position: Neutral

**SB55 Las Vegas, City of**  
Revises provisions governing the subject matter of master plans.  
(BDR 22--254, 8/30/12)  
Subcommittee Position: Watch

**SB96 Senate Committee on Commerce, Labor and Energy**  
Authorizes the imposition of an administrative penalty against an employer under certain circumstances.  
(BDR 53--579, 11/19/12)  
Subcommittee Position: Watch

**AB150 Assemblyman Daly**  
Revises provisions governing the Legislative Commission  
(BDR 17--739, 12/10/12)  
Subcommittee Position: Oppose

**812 Assemblyman Healey**  
Revises provisions governing the membership of certain regional boards (12/10/12)  
Subcommittee Position