

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

Wednesday, May 6, 2015

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, 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, 4930 Energy Way, Reno, NV, from June Davis, Administrative Secretary, (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 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), Sparks Justice Court (1675 East Prater Way), Sun Valley GID (5000 Sun Valley Blvd.), Truckee Meadows Water Authority (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 Community Services Department (4930 Energy Way), Galena Market (19990 Thomas Creek Rd.), Galena High School (3600 Butch Cassidy Way), 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 April 1, 2015, meeting. **(For Possible Action)**
5. Report on water supply projections for the 2015 water year made by the Truckee Meadows Water Authority ("TMWA") – Bill Hauck, Sr. Hydrologist, TMWA. *
6. Presentation of comments received on the "Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow" chapter for the 2016 Regional Water Management Plan ("RWMP") update; discussion and possible direction to staff – Jim Smitherman, NNWPC Water Resources Program Manager. **(For Possible Action)**
7. Presentation of comments received on the "Flood Management and Storm Water Drainage" chapter for the 2016 RWMP update; discussion and possible direction to staff – Jim Smitherman. **(For Possible Action)**

8. Presentation of staff comments on the "Finance & Costs" chapter for the 2016 RWMP update; discussion and possible direction to staff – Jim Smitherman. **(For Possible Action)**
9. Discussion and possible direction to staff regarding any chapters of the RWMP previously reviewed by the NNWPC in relation to the 2016 RWMP update – Jim Smitherman. **(For Possible Action)**
10. Report on legislative activities, including Bills pending in the 2015 session of the Nevada Legislature that may affect or are of interest to the Western Regional Water Commission ("WRWC") / NNWPC, John Rhodes, NNWPC Legal Counsel. *
11. Program Manager's Report – Jim Smitherman. *
 - a. Report on the Status of Projects and Work Plan Supported by the Regional Water Management Fund ("RWMF");
 - b. Financial Report on the RWMF;
 - c. Report on the Truckee Meadows Regional Planning Agency's parcel-based population and employment modeling project;
12. Discussion regarding possible agenda items for the June 3, 2015 NNWPC meeting, and other future meetings, and possible direction to staff – Jim Smitherman. **(For Possible Action)**
13. Commission comments. *
14. Staff comments. *
15. Public Comments. * (Three-minute time limit per person.)
16. Adjournment. **(For Possible Action)**

*Indicates a non-action item

DRAFT - MINUTES
NORTHERN NEVADA WATER PLANNING COMMISSION

Wednesday, April 1, 2015

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 Chairman Enloe at 1:30 p.m.

1. Roll Call and Determination of Presence of a Quorum

Voting Members Present: John Enloe, John Martini, Michael DeMartini, Michael Drinkwater, John Erwin, John Flansberg, Mickey Hazelwood, Danielle Henderson, Brian Wadsworth, and David Solaro.

Voting Members Absent: George Ball and Darrin Price.

Non-Voting Members Present: Kim Davis and My-Linh Nguyen.

Non-Voting Members Absent: Chris Anderson, Harry Fahnestock, and Edmund Quaglieri.

Staff Members Present: Jim Smitherman; Chris Wessel, June Davis; and John Rhodes, Legal Counsel.

2. Public Comment

None

3. Approval of the Agenda (For Possible Action)

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

4. Approval of the Minutes from the March 4, 2015, Meeting (For Possible Action)

COMMISSIONER John Martini MADE A MOTION TO APPROVE THE MARCH 4, 2015, MINUTES, SECONDED BY COMMISSIONER John Erwin. THE MOTION CARRIED WITH NINE (9) IN FAVOR AND ONE (1) ABSTENTION BY COMMISSIONER FLANSBERG.

5. Report on the Bureau of Reclamation ("BOR") Truckee Basin Study Draft Report, and possible direction to staff – Arlan Nickel, BOR.

Arlan Nickel, BOR, presented an update on the Truckee Basin Study Draft Report. The presentation included information on the purpose, origin, and elements of the basin studies.

Jeffrey Payne, MWH Global, reviewed technical findings from the Truckee Basin Study Draft Report.

Commissioner Erwin asked what BOR is planning to do independent of any other agency in terms of adapting for its customers, particularly its agricultural and hydroelectric customers with respect to its dams and reservoirs. Tom Scott, BOR, stated that they are currently only looking at the Truckee River Operating Agreement ("TROA"), and added that one thing they may consider is shifting the Corps of Engineers Flood Control planning process.

Commissioner Erwin asked about plans to build more reservoirs. Mr. Nickel reviewed several storage projects being looked at in California.

Commissioner Flansberg asked about the schedule for a final report. Mr. Nickel stated that a final report should be done around July or August, then a briefing to the Washington D.C. office would be done before release to the public.

6. Review draft Western Regional Water Commission (“WRWC”) tentative budget for Fiscal Year 2015 – 2016; discussion, possible direction to staff, and possible recommendation to the WRWC - Jim Smitherman, WRWC / NNWPC Water Resources Program Manager. (For Possible Action)

Jim Smitherman reviewed the draft tentative budget. There is no projected increase in revenues over last year. The NNWPC top priorities include: effluent management planning, facility planning for the South Truckee Meadows, Truckee River Water Quality Standards work, and water rights obligations for TROA. As of July 1, 2015, there should be about \$2.8 million as a cash balance and assuming the budget is implemented as presented, a cash balance of approximately \$2.3 million will remain as of June 30, 2016.

COMMISSIONER FLANSBERG MADE A MOTION TO RECOMMEND THAT THE WRWC APPROVE THE BUDGET FOR FISCAL YEAR 2015 – 2016, SECONDED BY COMMISSIONER MARTINI. THE MOTION CARRIED UNANIMOUSLY WITH TEN (10) MEMBERS PRESENT.

7. Presentation of staff comments on the “Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow” chapter for the 2016 Regional Water Management Plan (“RWMP”) update; discussion and possible direction to staff – Jim Smitherman. (For Possible Action)

Mr. Smitherman stated that the structure and purpose of this chapter should remain the same.

Section 6.1 – Numbers for the 2014 Consensus Forecast will be included and the Water Resources Baseline table will be revisited. No major changes are expected and the conclusions will be generally the same.

Section 6.2 – Mr. Smitherman will be working with the Truckee Meadows Regional Planning Agency (“TMRPA”) to disaggregate the population forecast into the service areas, and with Truckee Meadows Water Authority (“TMWA”) on water demands. Mr. Smitherman will also be working with Stantec, TMWA, and TMRPA to update the water balance model.

Commissioner DeMartini asked if the plans should be modified in anticipation of changing supply, timing, and demand. Mr. Smitherman stated that they are looking at the trends, including the last couple of winters, and incorporating those into the planning efforts.

Commissioner Drinkwater asked about the projected water demand and wastewater generation summary ratios, and stated that they are different from his calculations. Mr. Smitherman stated that those figures would be reviewed and recalculated using updated data.

Commissioner Drinkwater asked how capacity information for the Truckee Meadows Water Reclamation Facility (“TMWRF”) was identified for the 2011 RWMP. Chairman Enloe stated that it was based on nitrogen loading and limitations on the TMDL.

Chairman Enloe asked about the schedule for producing water demand projections.

Commissioner Erwin stated that the next step is to disaggregate the population forecast by service area, which will take about 3 to 4 weeks.

COMMISSIONER DRINKWATER MADE A MOTION TO ACCEPT THE REVIEW NOTES ON CHAPTER SIX, INCLUDING COMMENTS MADE BY COMMISSIONERS ERWIN,

DRINKWATER, AND DeMARTINI, SECONDED BY COMMISSIONER FLANSBERG. THE MOTION CARRIED UNANIMOUSLY WITH TEN (10) MEMBERS PRESENT.

8. Presentation of comments received on the “Flood Management and Storm Water Drainage” chapter for the 2016 RWMP update; discussion and possible direction to staff – Jim Smitherman. (For Possible Action)

Mr. Smitherman stated that there are no significant updates or revisions to report on this chapter.

9. Presentation of comments received on the “Water Purveyors” chapter for the 2016 RWMP update; discussion and possible direction to staff – Chris Wessel, Water Management Planner. (For Possible Action)

Chris Wessel reviewed the following changes that have been made since the last meeting: Section 3.3 includes a better understanding of the regulatory structure for the different types of systems; water rights information was added to Table 3-4; Section 3.3.4 has expanded information on some of the Public Utility Commission (“PUC”) regulated systems; and Table 3-5 includes a revised list of water systems.

Commissioner Erwin made suggestions on the format of the PUC table and requested the following additions to the table: summarize the total number of connections and total acre feet; and include the hydrographic basin(s) in which each utility provides services.

COMMISSIONER ERWIN MADE A MOTION TO ACCEPT THE EDITS FOR THIS CHAPTER, INCLUDING THOSE SUGGESTED ABOVE, SECONDED BY COMMISSIONER FLANSBERG. THE MOTION CARRIED UNANIMOUSLY WITH TEN (10) MEMBERS PRESENT.

10. Discussion and possible direction to staff regarding any chapters of the RWMP previously reviewed by the NNWPC in relation to the 2016 RWMP update – Jim Smitherman. (For Possible Action)

Mr. Smitherman reported that he did not receive any requests to bring any other chapters back for further review.

11. Report on legislative activities, including Bill Draft Requests (“BDR”) and Bills pending in the 2015 session of the Nevada Legislature that may affect or are of interest to the Western Regional Water Commission (“WRWC”) / NNWPC – John Rhodes, NNWPC Legal Counsel.

John Rhodes stated that the staff report includes a list of all of the BDRs and Bills that have been introduced as of last Friday. None of the bills listed have any significant effect on the WRWC or NNWPC. The WRWC Legislative Subcommittee has the bills on a neutral and watch status, except for the Cloud Seeding Bill. That bill is supported by the WRWC, and comes before the Senate Finance Committee for a hearing tomorrow. Mr. Smitherman will be testifying in favor of the Bill.

12. Program Manager’s Report – Jim Smitherman.

- a. Report on the status of projects and work plan supported by the Regional Water Management Fund (“RWMF”);

Mr. Smitherman received an invoice for the purchase of water rights and the balance remaining has been reduced to \$267,000.

- b. Financial report on the RWMF;

Mr. Smitherman reported posting of some of the Professional Services expenditures is behind but still under budget.

- c. Report on the Truckee Meadows Regional Planning Agency (“TMRPA”)’s parcel-based population and employment modeling project;

Mr. Smitherman reported that the remaining cash reserve balance of about \$322,000 will be rolled into next year’s budget. The TMRPA is working on a scope for a residential housing growth study. The school district is providing 90% of the funding. The results from this study should be available by the end of the next fiscal year.

13. Discussion regarding possible agenda items for the May 6, 2015, NNWPC meeting, and other future meetings; and possible direction to staff – Jim Smitherman. (For Possible Action)

Mr. Smitherman stated future agenda items will include: a review of the 2015 water supply outlook; routine operating budget; 3 chapters of the RWMP to review; legislative activities report; and other standing items.

Commissioner Wadsworth confirmed that he will be ready to present his water quality standards report at the June meeting.

The Commission will discuss the June and July meeting schedule at the May NNWPC meeting.

COMMISSIONER FLANSBERG MADE A MOTION TO ACCEPT THE MAY AGENDA ITEMS, SECONDED BY COMMISSIONER MARTINI. THE MOTION CARRIED UNANIMOUSLY WITH TEN (10) MEMBERS PRESENT.

14. Commission Comments

None

15. Staff Comments

None

16. Public Comment

Ginger Pierce discussed starting a well measuring group.

17. Adjournment (For Possible Action)

The meeting was adjourned at 2:44 p.m.

Respectfully submitted by Christine Birmingham.

Approved by:

John Enloe, Chairman

APPROVED BY COMMISSION IN SESSION ON _____, 2015.

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: April 30, 2015

TO: Chairman and Members, Northern Nevada Water Planning Commission

FROM: Jim Smitherman, Water Resources Program Manager

SUBJECT: Report on water supply projections for the 2015 water year made by the Truckee Meadows Water Authority (“TMWA”) – Bill Hauck, Sr. Hydrologist, TMWA.

Bill Hauck, Sr. Hydrologist, TMWA, will provide a brief verbal report concerning the status of the water supply projections for the 2015 water year.

JS:jd

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: April 30, 2015
TO: Chairman and Members, Northern Nevada Water Planning Commission (“NNWPC”)
FROM: Jim Smitherman, NNWPC Water Resources Program Manager
SUBJECT: Presentation of comments received on the chapter entitled “Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow” for the 2016 Regional Water Management Plan (“RWMP”) update; discussion and possible direction to staff

SUMMARY

On April 1, 2015, staff reported that every section of this chapter would require revisions. Progress to date includes preliminary revisions to the Introduction and Section 6.1, attached, including redline edits and shaded text where revisions are anticipated using data not yet available. Coordination with the Truckee Meadows Water Authority, Truckee Meadows Regional Planning Agency and Stantec is ongoing and expected to yield data and analyses on which to base revisions to the remaining sections.

BACKGROUND

A list of sections and subsections including notes on anticipated revisions appears below:

Introductory Sections: Update all sections with current information.

- 6.1 *Comparison of the Consensus Population Forecast and the Estimated Population that can be Supported by the Sustainable Water Resources in the Planning Area***
 - 6.1.1 *Consensus Population Forecast:*** Update using 2014 Consensus Forecast.
 - 6.1.2 *Water Resources:*** Update water resources figures using the latest Truckee Meadows Water Authority (“TMWA”) Water Resource Plan (“WRP”) data.
 - 6.1.3 *Water Demand and Population Projections:*** Update water demand figures using the latest TMWA WRP data.
 - 6.1.4 *Conclusions:*** Update as needed using current information. The overall conclusion will be unchanged: “*the estimated sustainable water resources of approximately 183,200 af per year as shown in the Water Resources Baseline Table are more than adequate to serve the 2014 Consensus Forecast population...*”.
- 6.2 *Projections of Water Demand, Peak Day Requirements and Wastewater Flow for Service Areas***
 - 6.2.1 *Projections by Planning Area:*** Update using the latest TMWA WRP data, Truckee Meadows Regional Planning Agency (“TMRPA”) population and employment modeling results and Stantec technical assistance as necessary.
 - 6.2.2 *Water Demand Projections:*** Same comment as above.
 - 6.2.3 *Wastewater Flow Projections:*** Update using the latest TMWA WRP data, Reno, Sparks and Washoe County wastewater service provider data, TMRPA population and employment modeling results, and Stantec technical assistance as necessary.

- 6.3** *Water Balance Model:* Update using data from prior sections and Stantec technical assistance.

RECOMMENDATION

Staff recommends that the NNWPC accept the review notes on Chapter 6 of the 2011 RWMP, with or without changes, and provide direction to staff as appropriate concerning this chapter as part of the development of the 2016 RWMP update.

JS:jd

Attachment: 2011 RWMP Chapter 6 Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow: Introduction and Section 6.1 showing recommended revisions.

Chapter 6 – Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow

Purpose and Scope

This chapter uses the *Washoe County Consensus Population Forecast* ([Truckee Meadows Regional Planning Agency](#)~~Washoe County~~, 2014~~0~~) as the basis for estimating the future needs of the Planning Area with respect to water demands including peak day requirements, wastewater flows and treatment capacity, effluent disposal and reclaimed water capacity. The chapter relies on data presented in preceding chapters and develops a water budget showing present and future water supplies available to public purveyors, wastewater flows by service provider in addition to capacities to dispose of effluent and use reclaimed water.

Summary and Findings

On [April-September 17~~9~~, 2014~~0~~](#), the Western Regional Water Commission (“WRWC”) determined and made a finding that the draft Washoe County Consensus Population Forecast for 2034~~0~~ (“Consensus Forecast”) is less than the estimated population that can be supported by the sustainable water resources identified in the *Regional Water Plan*. The finding was transmitted to the Truckee Meadows Regional Planning Agency (“TMRPA”), Reno, Sparks and Washoe County [later that month in May 2010](#).

The Washoe County Consensus Forecast is adequate for 20-year, county-wide population projections, but it is not adequate for facility planning as performed by public purveyors and other water-related utilities or for disaggregation to utility service areas.

A Regional Water Balance Flow Diagram has been developed covering five planning areas (Figure 6-1), which is a graphical representation of the existing conditions (Figure 6-2) and the projected 2034~~0~~ future conditions (Figure 6-3) for the water supply, wastewater treatment, reclaimed water and wastewater disposal requirements. The following conclusions can be drawn from this evaluation:

Water Resources

Overall, the region has available water resources to meet the projected 2030~~4~~ increase in demand. These water resources include the *Truckee River Operating Agreement* (“TROA”) water supplies, the Fish Springs Water Importation Project, local basin groundwater supplies, and local tributary creeks including Galena, Thomas, Whites, Brown’s and Steamboat Creeks. In addition to these water resources, the region has reclaimed water resources available for multiple uses from the Truckee Meadows Water Reclamation Facility (“TMWRF”), South Truckee Meadows Water Reclamation Facility (“STMWRF”), Reno Stead Water Reclamation Facility (“RSWRF”) and Cold Springs Water Reclamation Facility (“CSWRF”).

In several planning areas, however, there are water supply imbalances that will need to be addressed over the long term. In particular, the demands from domestic wells and permitted municipal groundwater pumping in Cold Springs Valley, Lemmon Valley and Spanish Springs Valley exceed the respective State Engineer estimates of perennial yield of each basin. This is an issue that affects both existing and future water users, and exists under both current and projected 2034~~0~~ conditions.

The Truckee Meadows, Sparks and South Truckee Meadows planning areas do not have water supply imbalances.

There will continue to be local area impacts within portions of these planning areas where mitigation of groundwater level declines and impacts to shallow domestic wells will continue to be necessary. The Mt. Rose fan area is an example of this situation.

Wastewater

Long term disposal and reuse of treated effluent will be a challenge throughout the different planning areas. Cold Springs and Lemmon Valley generally have sufficient disposal capacity to meet the projected needs until 20304. However, future disposal options will need to be identified to accommodate planned development beyond the 20304 time horizon.

In the Central Truckee Meadows, Sparks and Spanish Springs planning areas, discharge to the Truckee River through TMWRF may be limited in the future by several constraints. Roughly 7,700 acre feet (“af”) of additional disposal capacity will be required.

In the South Truckee Meadows planning area, 100 percent of the reclaimed water is used for irrigation. Based on the 20304 flow projections, approximately 5,700 af of additional water reclamation or disposal capacity will be required.

Introduction

This chapter presents a summary of the process that was followed to determine whether the forecasted population for the year 20340 can be supported by the sustainable water resources potentially available within Washoe County. Furthermore, more detailed projections of future water demands, including peak day capacity requirements and wastewater treatment plant capacity needs have been compiled for the primary service areas within the region.

An analysis as to whether the forecasted population can be supported by the sustainable water resources was done in response to January 2010 amendments to the Truckee Meadows Regional Plan (“Regional Plan”) (~~Truckee Meadows Regional Planning Agency, 2002~~) amendments adopted by the Regional Planning Governing Board (“RPGB”) in January 2010. The amendments provide for a comparison between the draft Consensus Forecast and the estimated population that can be supported by the sustainable water resources as identified in this Plan. As discussed in more detail in Section 2.2.1.1, amendments to the Regional Planning Governing Board (“RPGB”)’s Regulations on Procedure identify/designate the Northern Nevada Water Planning Commission (“NNWPC”) and the WRWC as the entities to perform the comparison, and the WRWC as the body to make a determination and finding as to the results of the comparison.

For the *Regional Water Plan*, an estimate of future water demands and wastewater flows at the treatment plants consistent with the Consensus Forecast population projection has been compiled for the primary service areas within the planning area. The service areas are consistent with the planning areas established for the *City of Reno and Washoe County TMSA/FSA Water Wastewater and Flood Management Facility Plan* (ECO:LOGIC, 2007) and the *City of Sparks TMSA/FSA Conceptual Facility Master Plan* (Stantec, 2008), which are based primarily on wastewater service areas and political boundaries. The planning areas are identified as Cold Springs, Stead/Lemmon Valley, the Washoe County portion of Spanish Springs, Sparks, Sun Valley General Improvement District (“SVGID”), Truckee Meadows and

South Truckee Meadows. A Regional Water Balance Flow Diagram has also been developed, which is a graphical representation of existing and future conditions for the water supply, wastewater treatment, reclaimed water and wastewater disposal requirements. The Regional Water Balance Flow Diagram is useful to answer the following questions:

- How much potable water is used today, and in what locations?
- From which sources does the potable water originate, and once used, where does it go for wastewater treatment?
- Following treatment, how much of the water is reused, and where is the balance disposed?
- Are there future imbalances in water supply, wastewater disposal or reclaimed water usage, and if so, in which planning areas?
- Are there planning areas with adequate capacity to address imbalances?

6.1 Comparison of the Consensus Population Forecast and the Estimated Population that can be Supported by the Sustainable Water Resources in the Planning Area

As described in Section 2.2.1.1, the RPGB ~~identified~~~~designated~~ the NNWPC and the WRWC as the entities to perform a comparison of the draft Consensus Forecast with the estimated population that can be supported by the sustainable water resources as set forth in this Plan prior to the adoption of the Consensus Forecast.

6.1.1 Consensus Population Forecast

In April 2014, TMRPA assumed the responsibility for preparing and publishing the Consensus Forecast. The RPGB Regulations on Procedure were amended at that time to reflect this change, and to make minor adjustments to the data sources and time frames for compilation and distribution of draft and final versions of the forecast. The Washoe County Department of Community Development-TMRPA provided the draft 2014 Consensus Forecast in February June 20104. The population was compiled using data from Truckee Meadows Water Authority (“TMWA”), Global Insight, Woods and Poole, and the State Demographer. The draft Consensus Forecast population for 20304 is approximately 563,77990,500, which is 9,11729,823 less than the 201208 Consensus Forecast population for 2030.

6.1.2 Water Resources

Table 2-1, Water Resources Baseline, provides long-range planning-level estimates for sustainable water resources using the best available information. The table identifies selected hydrographic basins within the region and quantifies surface water and groundwater in two ways. Appropriations (water rights), including decreed rights and rights permitted or certificated by the State Engineer for municipal and industrial (“M&I”) use and those that may be converted to M&I use, are quantified separately from those that cannot be converted to M&I use.

The Water Resources Baseline Table (Table 2-1) acknowledges TROA’s effect on the availability and sustainability of Truckee River water. TROA is designed to provide long-term sustainable water operations for the multiple stakeholders on the Truckee River system through the continued use of water rights converted from irrigation to M&I use. The Truckee Meadows is fortunate in having significant capacity for storage in upstream reservoirs, including Lake

Tahoe, to integrate with other resources to maximize the yield of the Truckee River. TROA further enhances the ability to maximize storage for drought supplies.

TMWA has over 142,900 af of decreed, groundwater, storage, and irrigation rights sufficient to generate water to serve approximately 101,000 af of commitments as of June 2009. As shown in Table 3 of TMWA's 2030 Water Resource Plan, over 50,000 af of Truckee River mainstem rights are potentially available for dedication to TMWA or Washoe County Department of Water Resources ("WCDWR") to support future will-serve commitments. It should be noted, however, that Truckee River mainstem irrigation water rights available for conversion to M&I use over the long term continues to decrease, and "availability" is not necessarily an indication of the willingness of a party to sell.

The Water Resources Baseline Table also shows the quantity of groundwater in each basin consistent with the State Engineer's estimates of perennial yield. In basins where appropriations for M&I use (or those that may be converted to M&I use), are less than the perennial yield estimate, only those water rights actually appropriated are considered to be sustainable. The table includes basins that may provide M&I water supplies within a 20-year planning timeframe.

6.1.3 Water Demand and Population Projections

TMWA has developed a three-step process to produce a long-range water demand projection for all of Washoe County. The first step was to develop a population projection model based on fitting a logistic curve model to past population, and then create a projection of that population to the year 2050. The second step was to develop a countywide inventory of buildings, and then create a projection of new residential dwelling units and commercial buildings as a function of population. The third step was to estimate water demand as a function of building inventories and historic water use coefficients.

The results of steps one and two show that the models fit the historic data well and that the projected values follow a reasonable trend. The projected trend for persons per dwelling unit and persons per developed acre show that the projection will meet the land and building needs of the projected population. TMWA's methodology is published in its 2030 Water Resource Plan, Appendix I.

TMWA assisted the NNWPC and the WRWC by re-running its model using the draft Consensus Forecast population and producing a building inventory and water demand projection. The building inventory and water demand projection estimates the increase in both single family and multi family dwelling units, including residential units served by domestic wells, and commercial buildings. A projection of metered irrigation usage is also presented.

6.1.4 Conclusions

The model projects a water demand of approximately 142,000 af to support a population of approximately 590,500 as projected for the year 2030 by the draft Consensus Forecast. Therefore, the estimated sustainable water resources of approximately 183,200 af per year as shown in the Water Resources Baseline Table are more than adequate to serve the draft Consensus Forecast population for 2030. On September 14, 2014, the WRWC approved a finding that the forecasted population can be supported by the sustainable water resources as set forth in this Plan.

The model was also used to ~~project beyond the 2030 population estimate using the same planning assumptions, purely as a planning exercise, to~~ estimate the maximum population that could be supported by the sustainable water resources, purely as a planning exercise. That ~~exercise~~ calculated a population offis approximately 741,000. It is imperative to understand that this population calculation is the result of a mathematical model and has no basis in, or correlation to, the Consensus Forecast or any other population forecast.

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: April 30, 2015
TO: Chairman and Members, Northern Nevada Water Planning Commission (“NNWPC”)
FROM: Jim Smitherman, NNWPC Water Resources Program Manager
SUBJECT: Presentation of staff comments on the “Finance & Costs” chapter for the 2016 Regional Water Management Plan (“RWMP”) update; discussion and possible direction to staff

SUMMARY

In February, the Western Regional Water Commission retained Hansford Economic Consulting (“HEC”) to update the 2011 RWMP Finance & Costs chapter. Since that time, HEC has received data from Sun Valley GID, the City of Reno, the City of Sparks, and the Truckee River Flood Management Authority. Meetings are planned with the Truckee Meadows Water Authority and Washoe County Community Services Department. A draft updated chapter is expected by the end of May.

The chapter is a high level analysis of costs associated with planned and recommended major facility improvement programs for water, wastewater, drainage and flood management. Cost data are summarized from local government and utility five-year capital improvement programs (“CIP”). The chapter includes some major improvements anticipated beyond the five-year CIP timeframes for informational purposes, but because of a higher level of uncertainty, they are not included in the cost analysis.

RECOMMENDATION

Staff recommends that the NNWPC accept the report on the consultant’s progress in revising Chapter 8 “Finance & Costs” of the 2011 RWMP, and provide direction to staff as appropriate concerning this chapter as part of the development of the 2016 RWMP update.

JS:jd

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: April 30, 2015
TO: Chairman and Members, Northern Nevada Water Planning Commission (“NNWPC”)
FROM: Jim Smitherman, NNWPC Water Resources Program Manager
SUBJECT: Discussion and possible direction to staff regarding any chapters of the Regional Water Management Plan (“RWMP”) previously reviewed by the NNWPC in relation to the 2016 RWMP update.

SUMMARY

This agenda item is intended to be one in a series of standing items, ending upon the NNWPC’s final recommendation to the Western Regional Water Commission concerning the 2016 RWMP update. Under this item, NNWPC members may discuss, and the NNWPC may direct staff on the subjects of any of the RWMP chapters reviewed, since the December 2014 meeting, in relation to the 2016 update.

JS:jd

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: April 30, 2015
TO: Chairman and Members, Northern Nevada Water Planning Commission
FROM: John Rhodes, Legal Counsel
SUBJECT: Report on legislative activities, including Bills pending in the 2015 session of the Nevada Legislature, as April 28, 2015, that may affect or are of interest to the Western Regional Water Commission ("WRWC") / Northern Nevada Water Planning Commission ("NNWPC")

The following staff report lists Bills pending in the 2015 Nevada Legislature, as of April 28, 2015, that may affect or are of interest to the WRWC and NNWPC. 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. The dates following the Bill Draft Request ("BDR") number in parentheses on all Bills indicate the date the Bill was introduced. WRWC staff and the WRWC Legislative Subcommittee will track these Bills, recommend positions to be taken, and provide periodic updates to the WRWC and NNWPC.

Bills Introduced**Water Issues****Bill / Requestor**

- | | |
|---|--|
| <p>SB 81 Water Resources, Division of Conservation and Natural Resources
Revises provisions governing groundwater management plans and critical management areas. (BDR 48-367, 12/20/14 -- Exempt)</p> | <p>Subcommittee Position
Neutral / Watch</p> |
| <p>AB 455 Legislative Committee on Public Lands (NRS 218E.510)
Creates a statewide committee to study present and future supplies of water and allocation levels in Nevada. (BDR S-481, 3/23/15 -- Exempt)</p> | <p>Subcommittee Position
Neutral / Watch</p> |
| <p>SB 485 Senate Committee on Government Affairs
Revises provisions relating to adjudication of vested water rights. (BDR 48-708, 3/23/15 -- Passed Senate 4/9, in Assembly)</p> | <p>Subcommittee Position
Neutral / Watch</p> |
| <p>AB 169 Assembly Committee on Health and Human Services
Provides for the collection and application of graywater for a single-family residence. (BDR 40-804, 2/17/15 -- Passed Assembly 4/14, in Senate)</p> | <p>Subcommittee Position
Neutral / Watch</p> |
| <p>AB 198 Assemblyman Oscarson
Requires the Legislative Committee on Public Lands to conduct a study concerning water conservation and alternative sources of water for Nevada communities. (BDR S-805, 2/26/15 Passed Assembly 3/23, in Senate)</p> | <p>Subcommittee Position
Neutral / Watch</p> |

- | | |
|---|---|
| <p>AB 415 Assembly Committee on Natural Resources, Agriculture, and Mining
 Revises provisions governing the definition of "farm" for purposes of availability of water.
 (BDR 48-928, 3/20/15 -- Passed Assembly 4/16, in Senate)</p> | <p>Subcommittee Position
 Neutral / Watch</p> |
| <p>SB 423 Legislative Committee on Public Lands (NRS 218E.510)
 Requests appropriation for a \$500,000 grant every two years to support cloud seeding activities in Nevada.
 (BDR S-483, 3/23/15 -- Exempt)</p> | <p>Subcommittee Position
 Support</p> |

Open Meeting Issues

- | | |
|---|---|
| <p>SB 70 Attorney General
 Revises provisions governing meetings of public bodies, and requires approval of minutes within 45 days or at next meeting. (BDR 19-155, 12/20/14 -- Passed Senate 4/21, in Assembly)</p> | <p>Subcommittee Position
 Neutral / Watch</p> |
|---|---|

Ethics Issues

- | | |
|--|---|
| <p>SB 380 Senator Smith
 Revises provisions governing ethics in government relating to expenditures to support or oppose a ballot question. (BDR 23-19, 3/17/15 -- Waiver granted 4/10)</p> | <p>Subcommittee Position
 Neutral / Watch</p> |
| <p>AB 60 Ethics, Commission on
 Revises provisions of the Nevada Ethics in Government Law to prohibit public employees Actions where conflict of interest exists. (BDR 23-309, 12/20/14 -- Passed Assembly 4/21, in Senate)</p> | <p>Subcommittee Position
 Neutral / Watch</p> |

Public Records Issues

AB 135 Assembly Government Affairs

Revises provisions relating to schedules for the retention and disposal of official state records. (BDR 19-547, 2/09/15 -- Exempt)

Subcommittee Position
Neutral / Watch

Other Issues of Interest

AB 19 Nevada League of Cities and Municipalities

Revises provisions governing timing of adoption of tentative budgets by local governments. (BDR 31-456, 12/20/14 -- Passed Assembly 4/10, in Senate)

Subcommittee Position
Neutral / Watch

SB 157 Senate Committee on Government Affairs

Requires coordination between state and local government agencies. (BDR 22-706, 2/16/15 Passed Senate 4/21, in Assembly)

Subcommittee Position
Neutral / Watch

AB 196 Assembly Government Affairs

Makes various changes relating to investments of public money. (BDR 31-857, 2/26/15 -- Exempt)

Subcommittee Position
Neutral / Watch

AB 353 Assemblywoman Dickman

Revises provisions governing public purchasing and contracting to require competitive bidding for most contracts over \$50,000, including professional services contracts. (BDR 27-920, 3/17/15 -- Exempt)

Subcommittee Position
Oppose

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: April 30, 2015
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 verbal report will be given for item (c).

- a) Report on the status of Projects and Work Plan supported by the Regional Water Management Fund;
- b) Financial Report on the Regional Water Management Fund; and
- c) Report on the TMRPA's parcel-based population and employment modeling project.

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

	Project Name	Contractor / Provider	Amount	Balance Remaining	Percent Complete	Target Completion Date	Notes
1	Certified Landscape Technician Program 2014-2015 FY	Nevada Landscape Association (NLA)	25,000	25,000	0%	6/30/15	New contract being developed
2	Cloud Seeding - Additional Precip Monitoring Equipment	(DRI) Desert Research Institute	25,000	5,233	79%	6/30/15	Work is in progress
3	Cloud Seeding Program for Water Year 2015	(DRI) Desert Research Institute	100,000	67,588	32%	6/30/15	Work is in progress
4	Effluent Management (Huffaker Reservoir Effluent Interconnection Pipeline Eval)	City of Reno / Stantec	20,000	1,658	92%	9/8/15	Work is in progress
5	Effluent Management Strategy	Stantec	25,000	25,000	0%	12/31/15	Contract is being developed
6	Envision Videographers of WRWC meetings	Envision	1,200	520	57%	9/30/15	Work is in progress
7	Fifth Amendment to Reimburse TMWA and DWR for consolidation	DWR, TMWA	300,000	0	100%	6/30/15	completed
8	Highland Canal Improvements	City of Reno	250,000	250,000	0%	1 yr from Effective Date	Awaiting signatures from Reno
9	Optimizing Investments in the Truckee River Watershed	The Nature Conservancy	57,787	57,787	0%	12/31/16	Work is in progress
10	Regional Data Development and	Truckee Meadows Regional Planning	486,000	322,167	34%	6/30/16	Work is in progress
11	Regional Storm Water Quality Management Program (Third	City of Reno	262,500	140,845	46%	6/30/15	Work is in progress

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

	Project Name	Contractor / Provider	Amount	Balance Remaining	Percent Complete	Target Completion Date	Notes
12	RWMP 2016 Cost & Finance Chapter Update	Hansford Economic Consultant	23,575	23,575	0%	12/31/15	Work is in progress
13	RWMP 2016 Update - Water Balance Update	Stantec	25,000	25,000	0%	6/30/15	Work is in progress
14	Septic - Phase II	County - CSD	150,000	141,552	6%	6/30/15	Work is in progress
15	Sosu TV Videographers of NNWPC meetings FY 2014-15	Sosu TV	3,500	2,350	33%	6/30/15	Work is in progress
16	TMDL Phase I Fifth Amendment	City of Reno (LimnoTech)	75,000	74,680	0%	6/30/15	Work is in progress
17	TRIG Website Support FY 2014-2015	City of Reno	7,500	7,063	6%	6/30/15	Work is in progress
18	Truckee River Corridor Management Plan	Keep Truckee Meadows Beautiful	22,000	22,000	0%	6/30/15	Contract is being developed
19	TROA - 6,700 AF water rights purchase	TMWA	2,700,000	267,148	90%	Open Ended	Work is in progress
20	Washoe ET Project Maintenance	DRI (Desert Research Institute)	10,000	4,241	58%	6/30/15	Work is in progress
21	Washoe ET weather station upgrades	(DRI) Desert Research Institute	29,050	25,777	11%	6/30/15	Work is in progress

4/30/2015
 Fund 766
 Report 400/ZF15
 Fiscal Year 2015; Period 1 through 10

**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%
Interest-Pooled Inv.	27,760.00-	16,475.18-		16,475.18-	11,284.82-	41-		11,284.82-	41-
RGL Pooled Inv.		1,088.47-		1,088.47-	1,088.47			1,088.47	
URGL Pooled Inv.		2,449.36-		2,449.36-	2,449.36			2,449.36	
Water Surcharge 1.5%	1,533,311.00-	1,210,058.67-		1,210,058.67-	323,252.33-	21-		323,252.33-	21-
** REVENUE	1,561,071.00-	1,230,071.68-		1,230,071.68-	330,999.32-	21-		330,999.32-	21-
Professional Services	1,703,700.00	524,749.73	935,029.07	1,459,778.80	243,921.20	14		243,921.20	14
WRWC Staff & Legal	462,000.00	328,231.48	32,400.00	360,631.48	101,368.52	30.50		101,368.52	30.50
Fin Consult Services	10,000.00	8,500.00	8,500.00	17,000.00	7,000.00-	70-		7,000.00-	70-
Invest Pool Alloc Ex		1,238.17		1,238.17	1,238.17-			1,238.17-	
Lobbying Services	600.00	600.00		600.00					
Office Supplies		577.45		577.45	577.45-			577.45-	
Pmts to O Agencies	514,000.00	375,448.00	267,148.00	642,596.00	128,596.00-	25-		128,596.00-	25-
Telephone Land Lines		63.21		63.21	63.21-			63.21-	
Seminars and Meetings	1,000.00	420.69		420.69	579.31	58		579.31	58
Support Service - Reim		354.61		354.61	354.61-			354.61-	
Advertising	1,000.00	179.00		179.00	821.00	82		821.00	82
Undesignated Budget	40,000.00	284.97		284.97	39,715.03	99		39,715.03	99
Insurance Premium		3,269.00		3,269.00	3,269.00-			3,269.00-	
Travel	1,000.00	371.00		371.00	629.00	63		629.00	63
Overhead	62,880.53	102,033.82		102,033.82	39,153.29-	54.04		39,153.29-	54.04
Build Imp nonCapital							10,000.00	10,000.00-	
** EXPENDITURES	2,796,180.53	1,346,321.13	1,243,077.07	2,589,398.20	206,782.33	7	10,000.00	196,782.33	7
*** Total	1,235,109.53	116,249.45	1,243,077.07	1,359,326.52	124,216.99-	10-	10,000.00	134,216.99-	11-

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: April 30, 2015

TO: Chairman and Members, Northern Nevada Water Planning Commission

FROM: Jim Smitherman, Water Resources Program Manager

SUBJECT: Report on the Truckee Meadows Regional Planning Agency (“TMRPA”) parcel-based population and employment modeling project

Jim Smitherman, NNWPC Water Resources Program Manager, will provide a brief verbal report concerning the status of the TMRPA parcel-based population and employment modeling project.

JS:jd