

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF WATER RESOURCES

JASON KING, P.E.
STATE ENGINEER



EAGLE VALLEY (HYDROGRAPHIC BASIN 8-104)

GROUNDWATER PUMPAGE INVENTORY

WATER YEAR 2009

Field Investigated by: Tony Eng, Staff Engineer I

Report by: Brandy Martinelli, Well Supervisor &

Matthew Dillon, Staff Engineer II

TABLE OF CONTENTS

| | |
|--|----|
| ABSTRACT | 1 |
| HYDROGRAPHIC BASIN SUMMARY | 2 |
| PURPOSE AND SCOPE | 3 |
| DESCRIPTION OF THE STUDY AREA | 3 |
| HYDROLOGY | 3 |
| Stream Flows | 3 |
| Figure 1 Location Map of Eagle Valley Hydrographic Basin 8-104 | 4 |
| USGS Stream Flow Measurements | 5 |
| Springs | 5 |
| Figure 2 Gaging and Monitoring Well Location Map of Eagle Valley Hydrographic Basin 8-104 | 6 |
| Groundwater Levels | 6 |
| IMPORTED WATER | 7 |
| RECHARGE, STORAGE AND RECOVERY PROGRAM | 8 |
| EFFLUENT | 8 |
| METHODS TO ESTIMATE PUMPAGE | 8 |
| PUMPAGE BY MANNER OF USE | 9 |
| REFERENCES CITED | 12 |
| APPENDIX A | |
| EAGLE VALLEY GROUNDWATER PUMPAGE FOR WATER YEAR 2009 | |
| BY MANNER OF USE | 13 |
| APPENDIX B | |
| EAGLE VALLEY GROUNDWATER PUMPAGE FOR WATER YEAR 2009 | |
| BY APPLICATION NUMBER | 15 |
| Explanation of Column Headings for Groundwater Pumpage | |
| by Permit Number | 16 |
| APPENDIX C | |
| EAGLE VALLEY WATER YEAR 2009 PERMITTED ACRES IRRIGATED BY | |
| GROUNDWATER | 20 |
| Explanation of Column Headings for Place of Use of Groundwater Irrigation Rights | 21 |
| APPENDIX D | |
| EAGLE VALLEY HISTORICAL PUMPAGE | 24 |

ABSTRACT

This inventory represents the status and usage of all permitted, certificated and claim of vested right groundwater rights located within Eagle Valley, Hydrologic Basin 8-104, for water year 2009 (Oct 1, 2008 through September 30, 2009). Also included for summary purposes are tables, graphs and data associated with water imported to the basin, effluent re-use, streamflow discharge values and depth to groundwater levels.

The values that follow are valid for the time period of this report and may vary from previously published figures as water rights within the basin are subject to administrative action, such as approval, certification, cancellation, forfeiture, or withdrawal on a daily basis.

For water year 2009 the permitted, certificated and claim of vested right groundwater rights totaled 7,958 acre-feet and an estimated 7,067 acre-feet were pumped. Municipal supply is the largest manner of use within the basin. For water year 2009, appropriations for municipal supply total 6,757 acre-feet and pumpage was 5,898 acre-feet. The next largest category of use was pumping by private domestic wells, at 919 acre-feet.

Carson City was issued a permit to operate an artificial recharge and recovery program in 1990. During water year 2009, 102 acre-feet of imported surface water were released to the Vicee Canyon drainage for infiltration to the Eagle Valley groundwater basin, under recharge permit R-004.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER..... 104, REGION 8

HYDROGRAPHIC BASIN NAME EAGLE VALLEY

COUNTIES..... CARSON CITY, DOUGLAS,
WASHOE

MAJOR COMMUNITIES..... CARSON CITY

DESIGNATED YES

DENIALS BASED UPON WATER AVAILABILITY COMMERCIAL,
INDUSTRIAL, IRRIGATION,
QUASI-MUNICIPAL,
RECREATION, OTHER

GROUNDWATER LEVEL MEASUREMENTS NDWR, USGS

ESTIMATED PUMPAGE INVENTORY, ACRE-FEET IN 2009 7,067

STATE ENGINEER'S ORDERS

- 424 - DESIGNATION FEBRUARY 23, 1972
- 874 - EXTENDED DESIGNATION JULY 29, 1985
- 1119 - DESIGNATION AND PREFERRED USE DECEMBER 07, 1995
- 1140 - ALLOWING CC TO PUMP 11,700 AC-FT..... JANUARY 27, 1998
- 1202 - DOMESTIC WELL CREDIT MAY 26, 2009

COMMITTED GROUNDWATER RESOURCE: 7,958 ACRE-FEET..... DATE: SEPT. 2009

| | | |
|-----------------------|------------------------|-----------------------|
| IRRIGATION390 | COMMERCIAL 62 | INDUSTRIAL 2 |
| ENVIRONMENTAL385 | QUASI-MUNICIPAL... 353 | MUNICIPAL 6,757 |
| OTHER2 | STOCK 7 | |

PURPOSE AND SCOPE

This report is an effort of the Nevada Division of Water Resources, in conjunction with the Carson Water Subconservancy District, to better understand the hydrology of Eagle Valley, Hydrographic Basin 8-104. This is part of a continuing effort to document groundwater usage in the valley.

The purpose of this report is to detail and inventory the groundwater resources as allocated and described by the Office of the State Engineer, Nevada Division of Water Resources and estimate the amount of groundwater pumped within the Eagle Valley Hydrographic Basin for the water year beginning October 1, 2008 and ending September 30, 2009 (hereafter referred to as the 2009 water year). This report estimates the amount of groundwater pumped under the permits and certificates issued by the State Engineer and the claims of vested right, as well as the amount pumped by domestic wells in the basin.

Associated information, such as groundwater level measurements, precipitation and streamflow statistics are also presented.

DESCRIPTION OF THE STUDY AREA

Eagle Valley is small basin located in western Nevada. The valley is approximately 10 miles east of Lake Tahoe and 30 miles south of Reno, Nevada, and is within the Carson River Hydrographic Region. Carson City, the Nevada state capital, is the principal community. The majority of the basin is within Carson City County; small portions of it extend into Douglas and Washoe Counties. See Figure 1.

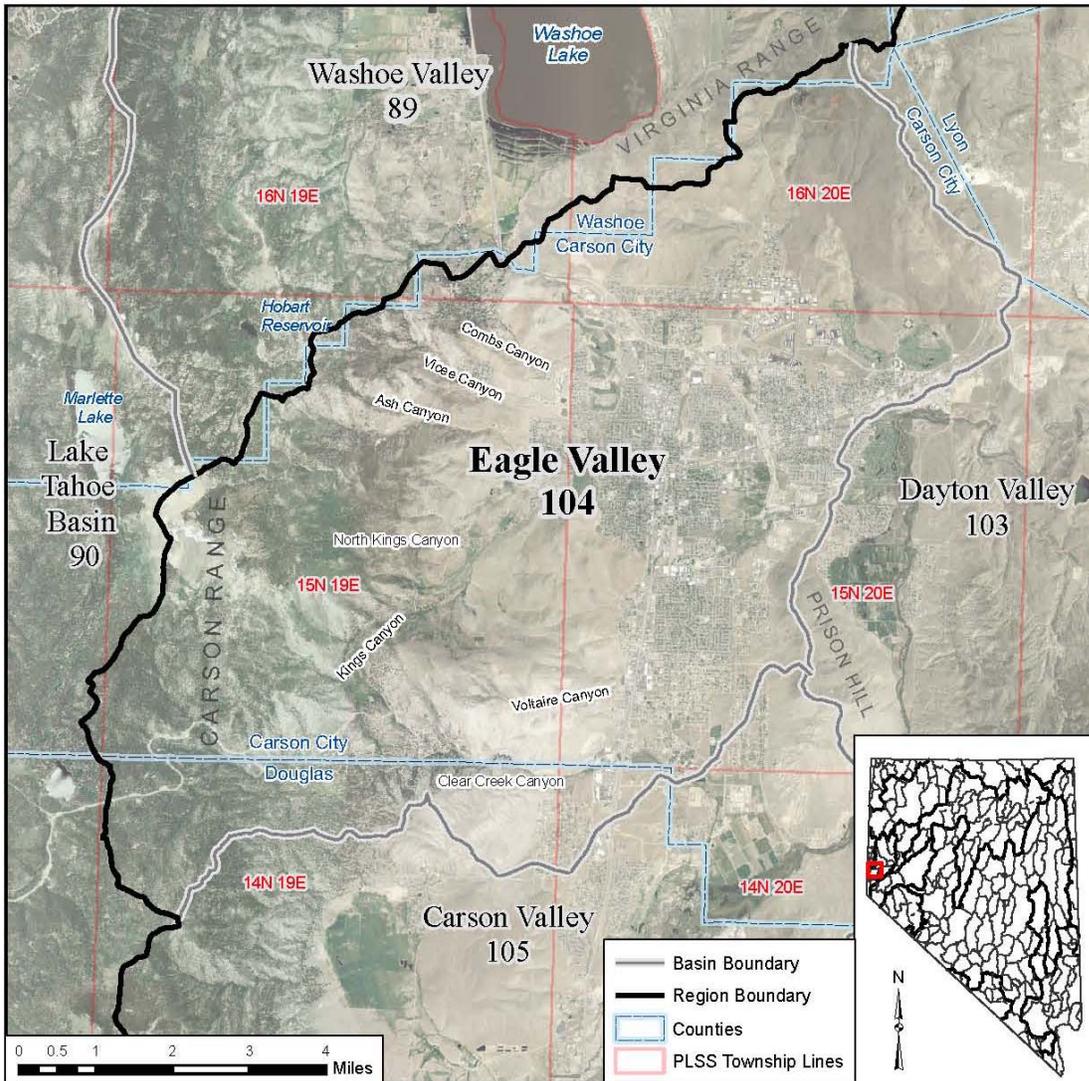
Eagle Valley is bounded on the west by the Carson Range of the Sierra Nevada. This range rises to more than 9,000 feet and is the basin's primary watershed. The Virginia Range forms the north boundary, rising to greater than 7,000 feet (all elevations in this text are above mean sea level). Prison Hill borders the basin to the southeast; a low ridge extending from the Virginia Range south to Prison Hill forms the eastern boundary. The southern boundary is formed by a low alluvial rise and intermittent hills separating Eagle Valley from Carson Valley. The adjacent hydrographic basins are the Lake Tahoe Basin, 6-090, to the west; Washoe Valley, 6-089, to the north; Dayton Valley, 8-103, to the east; and Carson Valley, 8-105, to the south. The exterior boundary of the Eagle Valley Hydrographic Basin is as described by Designation Orders 424 and 874, issued by the Nevada State Engineer February 23, 1972 and July 29, 1985, respectively. The basin covers approximately 71 square miles, about 20 of which cover the valley floor. The slope of the basin is from west to east. Valley floor elevations range from 4,800 feet, along the toe of the Carson Range, to 4,600 feet at the valley outlet.

HYDROLOGY

Stream Flows

Several perennial streams arise in the Carson Range and flow eastward onto and across the valley floor of Eagle Valley. From north to south those streams are Ash Canyon Creek, North Fork Kings Canyon Creek, Kings Canyon Creek, and Clear Creek. Clear Creek crosses

Figure 1
Location Map of Eagle Valley Hydrographic Basin 8-104



into Carson Valley and is tributary to the Carson River. The northern and central portions of the valley are drained by Eagle Valley Creek, which flows east into Dayton Valley and is tributary to the Carson River. The U.S. Geological Survey (USGS) operates streamflow gaging stations on these streams. Table 1 is a summary of the station and streamflow data for water year 2009. The data are from the USGS, Water-Data Report WDR-US-2009. Refer to Figure 2 for gaging station locations.

Several substantial drainages from the Carson Range discharge seasonal runoff to the valley floor. The largest of these, from north to south, are Combs Canyon, Vicee Canyon and Voltaire Canyon. Though streamflow persists throughout the year in the upper reaches of Vicee Canyon, it generally infiltrates into the upper alluvium and only occasionally reaches the valley floor. The channels in both Combs Canyon and Voltaire Canyon are ephemeral drainages.

Table 1
USGS Stream Flow Measurements

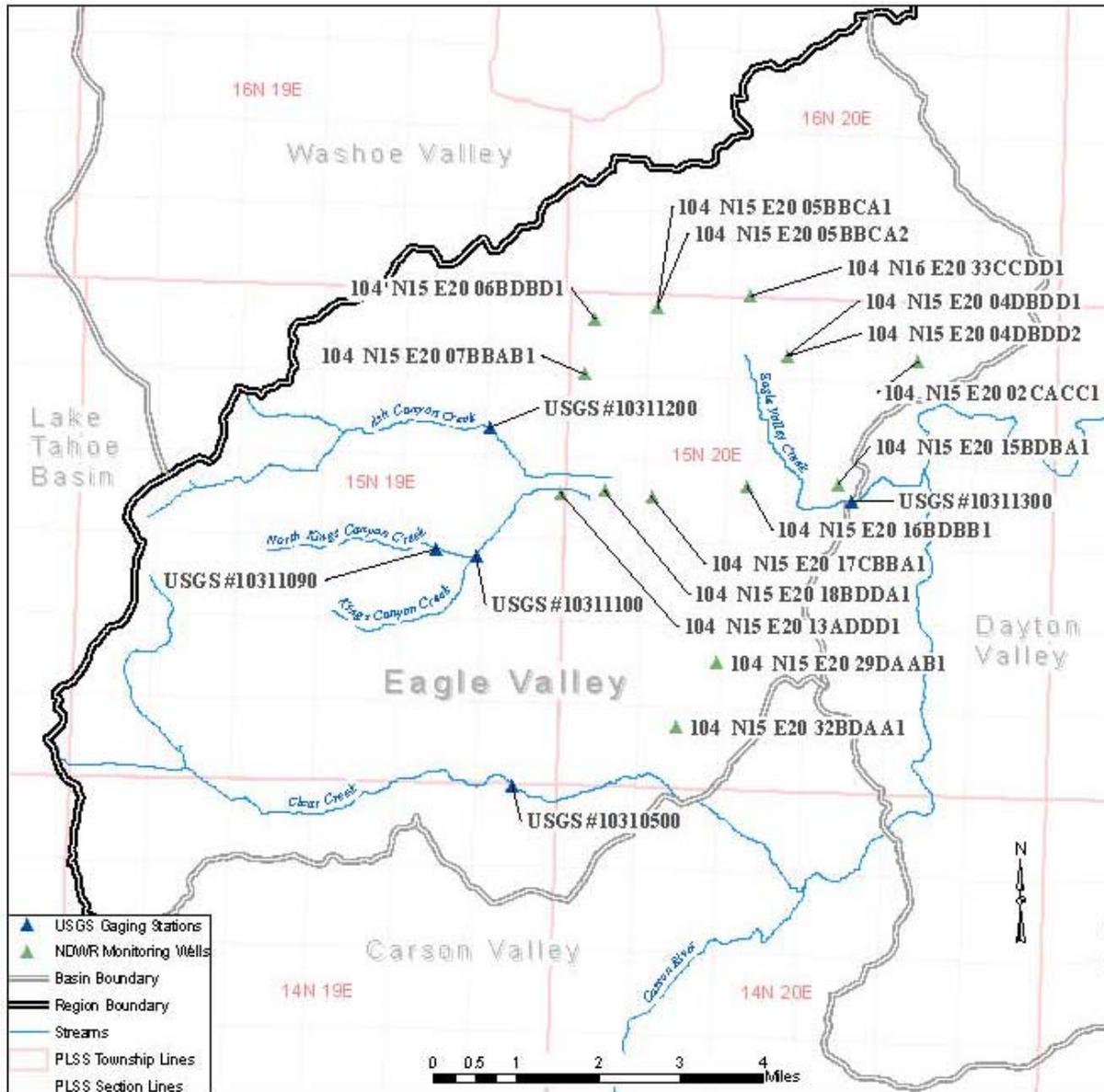
| USGS Site Number | USGS Site Name | Location | Elevation (in feet) | Period of Record | Annual Runoff (Calendar Year 2008) | Annual Runoff (Water Year 2009) | Average Water Year Runoff |
|--------------------------|--|--|---------------------|---|------------------------------------|---------------------------------|---------------------------|
| 10311200 | Ash Canyon Creek Near Carson City, NV | NW1/4 SW1/4 of sec. 12, T.15N., R.19E. | 5,080 | July 1976 - present | 2,030 af | 1,840 af | 2,590 af |
| 10311090 | North Fork Kings Canyon Creek Near Carson City, NV | NE1/4 NW1/4 of sec.23, T.15N., R.19E. | 5,530 | March 1989 - present | 229 af | 250 af | 396 af |
| 10311100 | Kings Canyon Creek Near Carson City, NV | NE1/4 NE1/4 of sec.23, T.15N., R.19E. | 5,180 | June 1976 - present | 296 af | 231 af | 870 af |
| 10311300 | Eagle Valley Creek At Carson City, NV | SE1/4 NW1/4 of sec.15, T.15N. R.20E. | 4,620 | January 1985 - present | 895 af | 577 af | 2,270 af |
| 10310500 | Clear Creek Near Carson City, NV | NE1/4 NW1/4 of sec.1, T.14N., R.19E. | 5,000 | 1948 - 1981 (intermittently) and January 1989 - present | 2,390 af | 1,920 af | 3,880 af |

Springs

There are many springs located in the mountains bounding Eagle Valley, particularly in the Carson Range. The discharge from the larger springs, or spring complexes, is collected and utilized for domestic use, irrigation, municipal and quasi-municipal supply, and stockwater purposes. The discharge from most of the smaller springs does not travel a significant distance from the source.

There are also numerous springs on the valley floor, the majority of which are associated with a northeast - southwest trending fault. The largest of these springs are the Carson Hot Springs and the Steinheimer Springs. The Carson Hot Springs are located in NE1/4 SE1/4 of section 5, T.15N., R.20E. Worts and Malmberg (1966, p. 30) reported the discharge to be approximately 60 gallons per minute with a water temperature of about 120° F. The water is used for mineral baths at the hot springs resort, and then allowed to drain to wetland areas south and east of the source. The Steinheimer Springs are located in the NW1/4 SE1/4 of section 8, T.15N., R.20E. Worts and Malmberg reported the discharge to be approximately 50 gallons per minute and the water temperature at about 60° F. At the time of this report, discharge from the Carson Hot Springs is comparable to the Worts and Malmberg data. Discharge from the Steinheimer Springs appears to be reduced. Sub-urban development in the area of the spring

Figure 2
Gaging and Monitoring Well Location Map of Eagle Valley Hydrographic Basin 8-104



has obscured the source. A number of residences in the vicinity of the spring have sump pumps which remove water from beneath the houses to the city storm drain system and a portion of the discharge flows to a designated wet land area, east of the source (Kelly Hale, Carson City Public Works, December 18, 2009, written communication).

Groundwater Levels

Depths to groundwater in Eagle Valley have been measured by the Nevada Division of Water Resources consistently since the mid 1970's. There are 14 active sites and one inactive

site in the monitoring well network. The following are the site names and links to the data (refer to Figure 2 for monitoring well locations):

| | | |
|-------------------------------------|-------------------------------------|--------------------------------------|
| 104 N15 E20 02CACCI | 104 N15 E20 04DBDD1 | 104 N15 E20 04DBDD2 |
| 104 N15 E20 05BBCA1 | 104 N15 E20 05BBCA2 | 104 N15 E20 06BDBD1 |
| 104 N15 E20 07BBAB1 | 104 N15 E20 13ADDD1 | 104 N15 E20 15BDDBA1 |
| 104 N15 E20 16BDBB1 | 104 N15 E20 17CBBA1 | 104 N15 E20 18BDDA1 |
| 104 N15 E20 29DAAB1 | 104 N15 E20 32BDAA1 | 104 N16 E20 33CCDD1 |

Groundwater level data are also collected by the USGS and the Carson City Public Works Department. The USGS data may be accessed through the USGS website (<http://water.usgs.gov>).

IMPORTED WATER

Carson City Utilities (Utility) is the primary water purveyor in Eagle Valley. The Utility uses both surface and groundwater resources within the basin to meet the municipal supply demand. The Utility also imports water from neighboring hydrographic basins for use within its service area, which extends into the neighboring basins as well. These importations include both surface water and groundwater. Surface water is imported from the Lake Tahoe Basin and Washoe Valley via the Marlette / Hobart system; and from the Carson River in Dayton Valley by two induction wells. Groundwater wells located in Carson, Dayton and Washoe Valleys are also used within the system.

The Marlette / Hobart system was originally constructed in the 19th century to meet the water needs of Virginia City. The system continues to supply water to Virginia City, as well as Carson City. The system takes water from Marlette Lake, within the Lake Tahoe Basin, and delivers it to Hobart Reservoir, located in Washoe Valley (Figure 1). From Hobart, water is delivered by pipeline to Carson City. This water is blended with water from Ash Canyon and North Kings Canyon Creeks, treated, and then delivered to the municipal supply system. During water year 2009, Carson City received **1,026 acre-feet** of water from the Marlette / Hobart system.

The Utility operates two induction wells located within the Carson River flood plain in Dayton Valley. The wells are located in section 14, T.15N., R.20E., just east of the Eagle Valley and Dayton Valley basin boundary. The source of the water delivered by these wells is the Carson River. During water year 2009, **1,668 acre-feet** of water were pumped from the induction wells. Between the Marlette / Hobart system and the induction wells, a total of **2,694 acre-feet** of surface water was imported for use within the service area of the Utility.

Groundwater wells in Carson, Dayton and Washoe Valleys are used by the Utility to supplement production from sources within Eagle Valley. During water year 2009, **571 acre-feet** were imported from Carson Valley, **1,544 acre-feet** from Dayton Valley, and **zero acre-feet** from Washoe Valley, totaling **2,115 acre-feet** of groundwater imported for use within the service area of the Utility.

In summary, a total of 4,809 acre-feet of surface water and groundwater were imported for use within the Utility service area during water year 2009.

RECHARGE, STORAGE AND RECOVERY PROGRAM

Carson City Public Works operates a Recharge Storage and Recovery Program in Eagle Valley. This project is associated with the Nevada State Engineer's Recharge Permit R-004. The recharge permit was issued September 13, 1990 and allows for the recharge of up to 700 acre-feet per year of surface water imported to the Eagle Valley ground water basin from the Lake Tahoe and Washoe Valley hydrographic basins via the Marlette / Hobart system.

Water to be recharged is delivered to the Vicee Canyon drainage channel by pipeline, approximately two miles upstream of the canyon mouth. This water is added to the natural flow within the canyon. A portion of the water infiltrates the streambed, and the amount which reaches the canyon mouth is impounded and infiltrated in rapid infiltration basins. During water year 2009, about 102 acre-feet of water from the Marlette / Hobart system was released to the Vicee Canyon drainage under Permit R-004 (Arnold, 2010).

EFFLUENT

The Carson City Department of Public Works operates a wastewater treatment plant in eastern Eagle Valley, near the basin outlet. The plant is located in the NW1/4 SW1/4 of section 15, T.15N., R.20E. and treats domestic and industrial wastewater received from sewer connections within the Carson City Utilities service area. Sewer connections in October 2009 were 15,413 and there were 16,830 connections for water service, 14,478 of which were for residential use (Carson City Department of Public Works, December 2009, personal communication).

During much of the year, treated effluent is pumped from the plant to various locations and used for irrigation. When demand is low, the effluent is pumped to a storage reservoir in Brunswick Canyon, about three miles east of the facility. Use of the effluent for irrigation is authorized by the Nevada State Engineer under secondary permits issued under Permits 25727 and 30450; and by the Nevada Division of Environmental Protection under Permit NEV90008. Within Eagle Valley, the effluent is applied for irrigation of golf courses, sports fields, landscaping for cemeteries, several street medians and the treatment plant. Effluent is also delivered to users in Carson and Dayton Valleys. For water year 2009, a total of 1,477 acre-feet of effluent were used for irrigation purposes within Eagle Valley, 1,411 acre-feet in Carson Valley and 611 acre-feet in Dayton Valley (Dennis Maple, Carson City Public Works, 2009, written communication).

METHODS TO ESTIMATE PUMPAGE

This report estimates the amount of groundwater pumped under the permits and certificates issued by the Nevada State Engineer, claims of vested right and domestic wells in the Eagle Valley hydrographic basin. The following methods were used to arrive at the estimated use:

- Where totalizing meters are in place, meter readings were taken and compared with previous data (if available).

- Where meters are not in place and the use was irrigation, use was estimated by multiplying the number of hours the well was operated during the year (determined from hour meter readings or questioning the water user) by the certificated diversion rate (if the water right is perfected); or, the number of acres under cultivation (determined by inspection) multiplied by a duty of four acre-feet per acre.
- Where meters are not present, previous data were not available and the manner of use was not irrigation, use was estimated by applying the annual duty associated with the certificate (if the water right was perfected), permit or claim, if the use was as described in the certificate, permit or claim. If the use was not as described in the certificate, permit or claim, a value was estimated based upon the circumstances of use for the subject year.
- If no water was used under the certificate, permit or claim, zero use was recorded.
- Carson City Utilities (Utility) is the primary water purveyor in Eagle Valley. The Utility provides the Nevada Division of Water Resources with monthly pumping totals on a quarterly basis, as a condition of permits under which the water is appropriated. These data were used to determine the amount pumped under the rights held by the Utility.

PUMPAGE BY MANNER OF USE

Note that all data herein are estimates and are subject to revision. The total estimated groundwater pumpage for water year 2009 was 7,067 acre-feet. The annual duties of the certificates, permits and claims of vested right within the Eagle Valley hydrographic basin totaled 7,958 acre-feet. The appropriated and actually pumped totals, categorized by manner of use, were as follows:

A. Commercial and Industrial (COM & IND)

During water year 2009, appropriations for commercial and industrial purposes totaled 64 acre-feet in the basin. An estimated 24 acre-feet of groundwater were pumped during water year 2009.

B. Environmental (ENV)

During water year 2009, appropriations for environmental purposes totaled 385 acre-feet in the basin. These appropriations are temporary in nature and are issued for site remediation of contaminated groundwater. The environmental permits are issued under the authority granted by Nevada Revised Statutes (NRS) 533.4375, in conjunction with remediation action ordered by the Nevada Division of Environmental Protection. The groundwater is extracted, treated and either re-injected or discharged to the city storm drain system. An estimated 6 acre-feet of groundwater were pumped during water year 2009

C. Irrigation (IRR)

During water year 2009, appropriations for irrigation purposes totaled 390 acre-feet in the basin. An estimated 36 acre-feet of groundwater were pumped for irrigation purposes during water year 2009.

D. Municipal and Quasi-Municipal (MUN & QM)

During water year 2009, appropriations for municipal and quasi-municipal totaled 7,110 acre-feet in the basin. An estimated 6,081 acre-feet of groundwater were pumped during water year 2009. Carson City is the largest water purveyor in the valley and reports its monthly pumping totals quarterly. The reported values are used in this report.

Under extraordinary circumstances, the amount of groundwater Carson City may pump in a given year may be allowed to exceed the total of its groundwater rights. State Engineer's Order 1140 provides that Carson City may pump up to "...a maximum of 11,700 acre-feet from Eagle Valley for a one year period, provided the average groundwater pumped from Eagle Valley over a period of five consecutive drought years will not exceed 9,900 acre-feet annually." A drought year for the Carson River Basin is defined as a water year which receives 70 percent, or less, of the average annual precipitation, measured as of April 1st of that year, and reported by the U.S. Department of Agriculture, Natural Resources Conservation Service.

E. Other (OTH)

During water year 2009, appropriations under this manner of use totaled 2 acre-feet in the basin. No groundwater was pumped under this manner of use during water year 2009.

F. Stock (STK)

During water year 2009, appropriations for stockwater totaled 7 acre-feet in the basin, and an estimated 1 acre-foot was pumped.

G. Domestic (DOM)

During water year 2009, appropriations for domestic purposes totaled 0 acre-feet in the basin. However, private, individual domestic wells may be drilled and utilized where water service from a purveyor is not available. These wells do not require a permit from the State Engineer. This category of domestic use is defined by the Nevada Revised Statutes (NRS) 534.013 as follows: "Domestic use or domestic purposes extends to culinary and household purposes directly related to a (1) single family dwelling; and (2) An accessory dwelling unit for a single-family dwelling if provided for in an applicable local ordinance, including, without limitation, the watering of a family garden and lawn and the watering of livestock and any other domestic animals or household pets, if the amount of water drawn does not exceed the maximum amount set forth in NRS 534.180.." The maximum draw of water provided by NRS 534.180 for a domestic well as described by 534.013, is two acre-feet annually.

The amount of water pumped by individual domestic wells was estimated by multiplying the number of domestic wells in the valley by a factor of 1 acre-foot. Actual domestic well pumpage is not known. As a reference, Carson City delivered a total of 13,098 acre-feet of surface and groundwater to 16,830 customers, 14,478 of which were residential customers. Average delivery was less than 1 acre foot per residence. Because homes with domestic wells are on larger parcels, on average, than those using municipal service, it is estimated that water use is somewhat greater as well. Records of the State Engineer indicate approximately 919 domestic wells

existed in the valley during water year 2008. This totals a draw of 919 acre-feet used by privately owned domestic wells.

Note: The values associated with the committed groundwater resources represent the status for the time frame stated. Manner of use category totals vary over time, as water rights are not static. Rights may be subject to change applications, certification, cancellations, forfeitures, withdrawals, as well as other administrative action. Each of these would potentially impact the duty, diversion rate, place and manner of use of a water right.

REFERENCES CITED

Arnold, K., January 2010. Vicee Canyon Recharge Annual 2009 Report. Carson City Public Works.

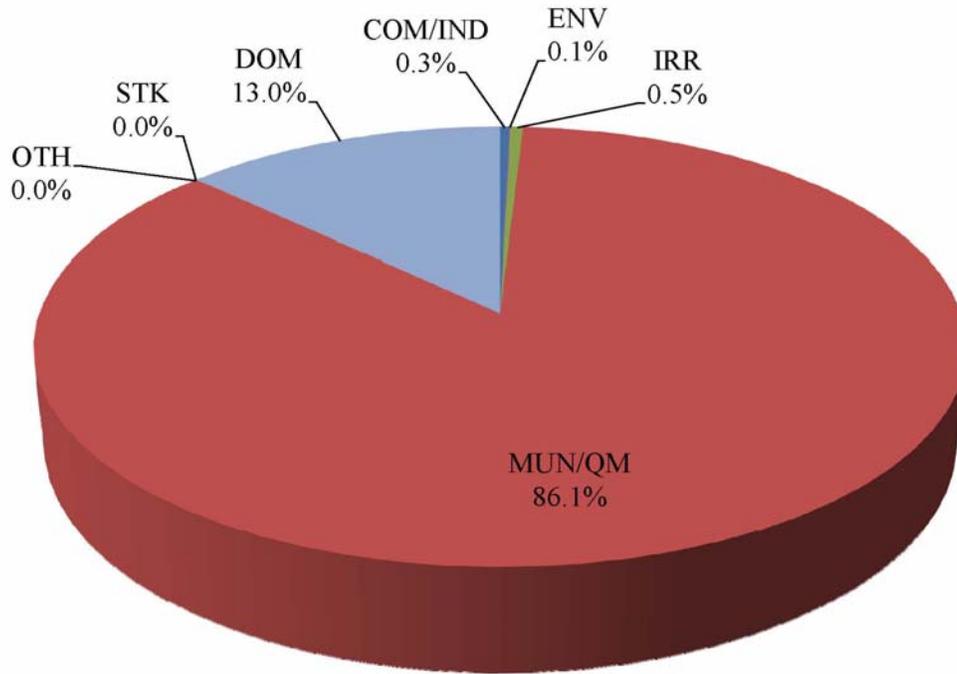
Department of the Interior, U.S. Geological Survey. Water-Data Report WDR-US-2009. [Online] 18 March 2010, <http://wdr.water.usgs.gov/wy2009/search.jsp>.

Worts , G.F., Jr. and Malmberg, G.T., 1966, Hydrologic appraisal of Eagle Valley, Ormsby County, Nevada: Nevada Department of Conservation and Natural Resources, Water Resources - Reconnaissance Report 39, p 30.

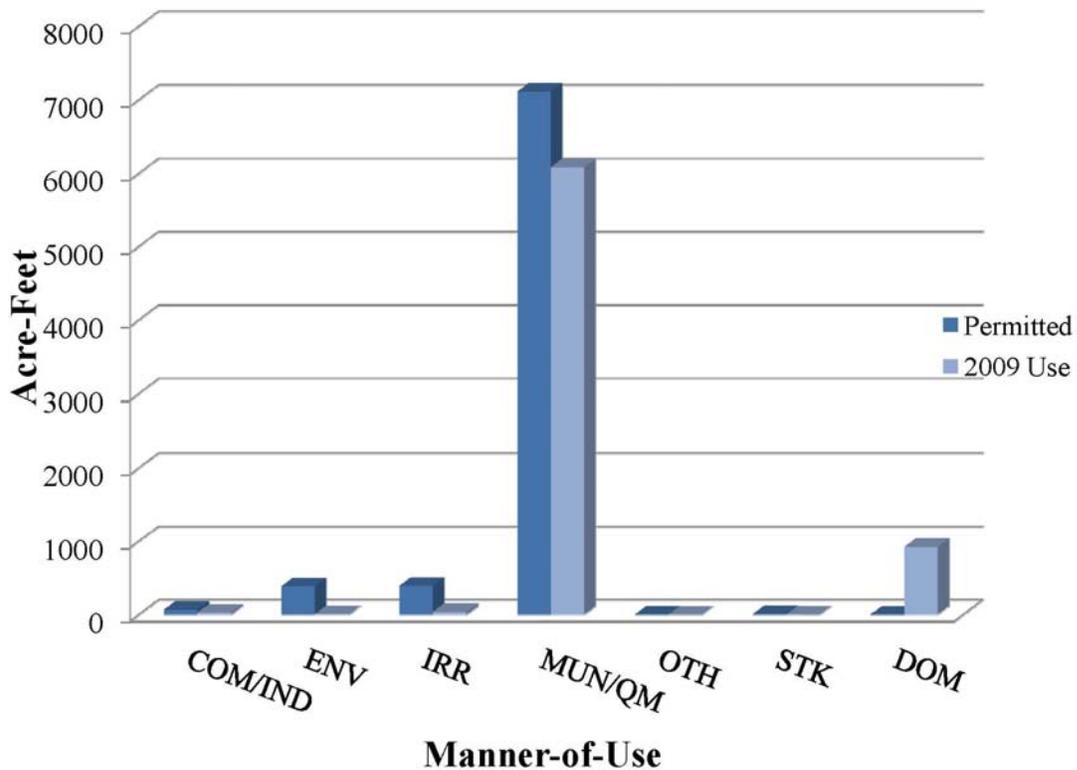
APPENDIX A

**EAGLE VALLEY GROUNDWATER PUMPAGE FOR WATER YEAR 2009
BY MANNER OF USE**

**PERCENTAGE OF GROUNDWATER PUMPAGE WATER YEAR 2009
BY MANNER OF USE**



GROUNDWATER PUMPAGE WATER YEAR 2009 PERMITTED vs. ACTUAL USAGE



APPENDIX B

**EAGLE VALLEY GROUNDWATER PUMPAGE FOR WATER YEAR 2009
BY APPLICATION NUMBER**

**Explanation of Column Headings for Groundwater Pumpage
by Permit Number**

| | |
|--------------------|--|
| APP NO. | The file number of the Application to Appropriate/Change Water or the Vested Claim of Right. |
| STATUS | Indicates if the application is a Vested Claim of Right (VST), a Permit (PER), or if it has been certificated. If an application has been certificated, the Certificate number will be listed in the column. |
| MOU | The manner of use of the appropriated water. COM - Commercial MUN - Municipal ENV - Environmental OTH - Other IND - Industrial QM - Quasi-Municipal IRR - Irrigation STK - Stock |
| OWNER OF RECORD | The owner of the water right as recorded in the files of the state engineer. A water right may have more than one owner of record. |
| QQ | The quarter quarter of the section in which the point of diversion is located. |
| QTR | The quarter of the section in which the point of diversion is located. |
| SEC | The section in which the point of diversion is located. |
| T | The township in which the point of diversion is located. |
| R | The range in which the point of diversion is located. |
| PER ACRES IRR | The number of acres that are permitted to be irrigated. |
| DUTY (AF) | The number of acre-feet of water that the permittee may pump. An acre-foot equals 325,851 gallons. |
| SUPP ADJ | Where more than one permit is appurtenant to the same place of use, the permits are considered supplemental. Permits may be either completely or partially supplemental. In these cases, a total combined duty for the subject permits is employed. |
| DUTY USED | The amount of water used during water year 2009, in acre-feet, as determined by review of records and/or field investigation. |
| UNIT | AFA stands for acre-feet annually, and AFS stands for acre-feet seasonally. AFS limits water usage to certain months out of the year. |
| SUPP SRC | The source of the supplemental water. UG - Underground RR - Reservoir Ravine Creek KC - Kings Canyon Creek SPR - Spring |
| SUPP GW APP NO. | The file number(s) of any supplemental ground water appropriations. |

| APP NO. | STATUS | MOU | OWNER OF RECORD | QQ | QTR | SEC | T | R | PER ACRES IRR | DUTY (AF) | SUPP ADJ | DUTY USED | UNIT | SUPP SRC | SUPP GW APP NO. |
|---------|--------|-----|--------------------------------------|----|-----|-----|-----|-----|------------------|--------------|-------------|--------------|------|-------------|--------------------|
| V02449 | VST | STK | ANDERSON, D.A. | SW | SE | 7 | 15N | 20E | | 2.79 | 2.79 | 0.00 | AFA | | |
| V02518 | VST | IRR | ALLEN, ROBERT A. | NW | NE | 18 | 15N | 20E | 1.3 | 5.20 | 5.20 | 1.00 | AFA | | |
| V02780 | VST | IRR | CARRINGTON, EDME H. | SE | NE | 18 | 15N | 20E | 0.5 | 2.00 | 2.00 | 1.20 | AFA | | |
| V02785 | VST | STK | NEWMAN CONSTRUCTION LTD. | SE | SW | 7 | 15N | 20E | | 1.87 | 1.87 | 0.00 | AFA | | |
| V03704 | VST | STK | LOMPA, EVA | NE | SW | 16 | 15N | 20E | | 2.24 | 2.24 | 1.00 | AFA | | |
| V09127 | VST | COM | HONE, DOUGLAS K. | SE | NW | 10 | 15N | 20E | | 0.00 | 0.00 | 0.31 | AFA | | |
| 8961 | 2492 | IRR | CONSOLIDATED CONSTRUCTION CORP. | SE | NE | 7 | 15N | 20E | 10.84 | 39.00 | 39.00 | 0.40 | AFA | | |
| 12279 | 4709 | QM | J.D.S. CORPORATION | SE | SE | 31 | 15N | 20E | | 11.29 | 11.29 | 0.00 | AFA | | |
| 12994 | 3504 | IRR | TURMAN, ELIZABETH W. CROZER | NE | SW | 18 | 15N | 20E | 54.20 | 216.80 | 216.80 | 0.00 | AFA | UG/KC | 12995 |
| 12995 | 3505 | IRR | TURMAN, ELIZABETH W. CROZER | NW | SE | 18 | 15N | 20E | 54.20 | 216.80 | 0.00 | 0.00 | AFA | UG/KC | 12994 |
| 15313 | 5076 | COM | MARTIN, MARYBELLE M. | SW | NW | 29 | 15N | 20E | | 4.36 | 4.36 | 1.04 | AFA | | |
| 15880 | 5499 | IRR | JOOST, HERMAN | SE | SW | 7 | 15N | 20E | 17.89 | 48.38 | 48.38 | 0.40 | AFA | RR | |
| 17881 | 4965 | OTH | NEVADA NATIONAL GUARD | SW | SW | 20 | 15N | 20E | | 2.24 | 2.24 | 0.00 | AFA | | |
| 17899 | 5379 | IRR | LIPPINCOTT, CLYDE R. | NE | NW | 5 | 15N | 20E | 1.00 | 4.00 | 4.00 | 4.00 | AFA | | |
| 18535 | 5184 | COM | CARSON CITY | NE | NE | 31 | 15N | 20E | | 8.59 | 13.96 | 0.00 | AFA | | |
| 18536 | 5185 | COM | CARSON CITY | NE | NE | 31 | 15N | 20E | | 5.37 | 0.00 | 0.00 | AFA | | |
| 19044 | 6208 | QM | SIERRA ESTATES G.I.D. | NW | SW | 6 | 14N | 20E | | 33.88 | 78.41 | 0.00 | AFA | UG | 20935, 53822 |
| 20702 | 7841 | COM | NEWMAN, PATRICIA M. | SW | NW | 29 | 15N | 20E | | 5.37 | 5.37 | 5.70 | AFA | | |
| 20935 | 6209 | QM | SIERRA ESTATES G.I.D. | NW | SW | 6 | 14N | 20E | | 33.88 | 0.00 | 0.00 | AFA | UG | 19044, 53822 |
| 21258 | 6707 | COM | FULLER, WILLIAM S. | NW | NW | 11 | 15N | 20E | | 9.57 | 9.57 | 1.00 | AFA | | |
| 23672 | 6471 | MUN | CARSON CITY | NE | SE | 12 | 15N | 20E | | 119.99 | 6696.39 | 119.99 | AFA | UG | * |
| 23673 | 6472 | MUN | CARSON CITY | NE | SE | 12 | 15N | 19E | | 1268.98 | 0.00 | 1257.32 | AFA | UG | * |
| 23727 | 7646 | QM | STATE OF NEVADA | SE | SE | 33 | 15N | 19E | | 3.99 | 3.99 | 0.04 | AFA | UG | 23728 |
| 23728 | 7647 | QM | STATE OF NEVADA | SW | SW | 34 | 15N | 19E | | 3.99 | 0.00 | 0.00 | AFA | UG | 23727 |
| 24462 | 7734 | QM | FISCHER, ALBERT J. | SE | NW | 5 | 15N | 20E | | 26.79 | 26.79 | 3.40 | AFA | UG | 24463 |
| 24463 | 7735 | QM | FISCHER, ALBERT J. | SE | NW | 5 | 15N | 20E | | 26.79 | 0.00 | 21.20 | AFA | UG | 24462 |
| 24986 | 7366 | MUN | CARSON CITY | SE | SE | 17 | 15N | 20E | | 806.51 | 0.00 | 15.69 | AFA | UG | * |
| 25667 | 9866 | MUN | CARSON CITY | SE | SE | 7 | 15N | 20E | | 470.22 | 0.00 | 234.73 | AFA | UG | * |
| 25728 | 9583 | QM | NORTH CARSON STREET, LLC | NE | SW | 8 | 15N | 20E | | 72.95 | 73.44 | 30.09 | AFA | UG | 40786 |
| 25987 | 9868 | COM | PARKER, BENJAMIN LANCASTER | SW | SE | 36 | 16N | 20E | | 10.37 | 10.37 | 1.72 | AFA | UG | |
| 26297 | 8813 | QM | WESTERN SUN, LLC | NW | SE | 17 | 15N | 20E | | 4.57 | 4.57 | 6.66 | AFA | | |
| 26453 | 8865 | IND | PEDERSON, BJARNE A. | NW | NW | 11 | 15N | 20E | | 0.40 | 0.40 | 1.48 | AFA | | |
| 26581 | 9622 | MUN | CARSON CITY | NE | SE | 6 | 15N | 20E | | 407.24 | 0.00 | 181.79 | AFA | UG | * |
| 26582 | 9623 | MUN | CARSON CITY | SE | NE | 12 | 15N | 19E | | 1178.15 | 0.00 | 386.69 | AFA | UG | * |
| 26821 | 8948 | COM | POZZI MOTOR COMPANY | NW | SW | 29 | 15N | 20E | | 0.43 | 0.43 | 0.22 | AFA | | |
| 26822 | 9260 | IRR | INTERNATIONAL FEED IMPROVEMENT ASSOC | NW | SW | 1 | 15N | 20E | 10.00 | 9.26 | 9.26 | 9.16 | AFA | | |
| 26886 | 9164 | COM | WEIR, DONALD V. | NW | SW | 29 | 15N | 20E | | 0.86 | 0.86 | 1.45 | AFA | | |
| 26943 | 9423 | QM | GARICOITZ FAMILY TRUST | SE | SE | 31 | 15N | 20E | | 17.37 | 17.37 | 0.00 | AFA | UG | 26944 |
| 26944 | 9429 | QM | GARICOITZ FAMILY TRUST | SE | SE | 31 | 15N | 20E | | 17.37 | 0.00 | 0.00 | AFA | UG | 26943 |
| 26945 | 8761 | COM | FIXMER, E. J. | SE | SE | 31 | 15N | 20E | | 0.64 | 0.64 | 0.60 | AFA | | |
| 26985 | 9428 | COM | HARRINGTON, J. P. | SE | SW | 2 | 15N | 20E | | 0.18 | 0.18 | 0.18 | AFA | | |
| 27012 | 8393 | COM | WELLS, LEON D. | SW | SE | 16 | 15N | 20E | | 0.37 | 0.37 | 0.25 | AFA | | |
| 27014 | 9869 | COM | BRANSTETTER, CHAS. H. | SW | NW | 29 | 15N | 20E | | 0.64 | 0.64 | 0.00 | AFA | | |
| 27063 | 8406 | COM | WESTERN INSPIRATIONAL BROADCASTERS | NW | SW | 1 | 15N | 20E | | 0.18 | 0.18 | 0.30 | AFA | | |
| 27076 | 8783 | COM | MELLOW, JERRY A. | SW | SE | 2 | 15N | 20E | | 1.01 | 1.01 | 0.30 | AFA | | |
| 27095 | 9070 | COM | EUSE, CHERYL RUPP MANN | SE | SE | 6 | 15N | 20E | | 1.10 | 1.10 | 0.46 | AFA | | |
| 27164 | 8828 | COM | PECORILLA, ANGELO | SE | NE | 31 | 15N | 20E | | 1.10 | 1.10 | 0.24 | AFA | | |
| 27215 | 10456 | QM | ROBERTS, FRED L. | SW | NW | 29 | 15N | 20E | | 2.55 | 2.55 | 1.00 | AFA | | |
| 27314 | 9871 | MUN | CARSON CITY | SE | NW | 29 | 15N | 20E | | 465.34 | 0.00 | 471.46 | AFA | UG | * |
| 27320 | 9872 | MUN | CARSON CITY | NW | NW | 32 | 15N | 20E | | 218.66 | 0.00 | 303.65 | AFA | UG | * |
| 27373 | 8830 | IND | DENTON, DONALD F. | NW | SW | 1 | 15N | 20E | | 0.12 | 1.23 | 0.00 | AFA | UG | 29434 |
| 27476 | 9748 | IRR | WADE, BERT A. | NW | SW | 35 | 15N | 19E | 1.06 | 2.12 | 2.12 | 2.12 | AFA | | |
| 27477 | 9749 | IRR | DOUD, RICHARD M. | NW | SW | 35 | 15N | 19E | 3.32 | 6.32 | 6.32 | 2.00 | AFA | | |

| APP NO. | STATUS | MOU | OWNER OF RECORD | QQ | QTR | SEC | T | R | PER ACRES IRR | DUTY (AF) | SUPP ADJ | DUTY USED | UNIT | SUPP SRC | SUPP GW APP NO. |
|---------|--------|-----|--------------------------------------|----|-----|-----|-----|-----|---------------|-----------|----------|-----------|------|----------|-----------------|
| 27666 | 9072 | IRR | COWPERTHWAIT, JOSEPHINE G. | NE | SW | 7 | 15N | 20E | 1.24 | 4.48 | 4.48 | 0.22 | AFS | | |
| 27822 | 9209 | COM | RUTLEDGE, RALPH A. | SW | NW | 29 | 15N | 20E | | 0.71 | 0.71 | 2.17 | AFA | | |
| 27857 | 9195 | IRR | COTTONWOOD MOBILE HOME PARK INC. | NW | NW | 5 | 15N | 20E | 5.50 | 11.00 | 11.00 | 11.80 | AFA | | |
| 29002 | 9904 | MUN | CARSON CITY | NW | SE | 17 | 15N | 20E | | 809.76 | 0.00 | 501.23 | AFA | UG | * |
| 29434 | 9695 | IND | DENTON, DONALD F. | NW | SW | 1 | 15N | 20E | | 1.12 | 0.00 | 0.38 | AFA | UG | 27373 |
| 29464 | 9875 | QM | LINDSEY, SUSAN | NE | NW | 28 | 15N | 20E | | 2.03 | 2.03 | 2.02 | AFA | | |
| 29802 | 13660 | QM | ALLEN, EMMA | SE | NE | 31 | 15N | 20E | | 1.72 | 1.72 | 1.54 | AFA | | |
| 29906 | 9635 | MUN | CARSON CITY | SE | SE | 1 | 15N | 19E | | 1219.37 | 0.00 | 326.48 | AFA | UG | * |
| 29960 | 9876 | IND | NAFCO INDUSTRIES INC | NW | SE | 36 | 16N | 20E | | 0.15 | 0.15 | 0.27 | AFA | | |
| 30167 | 9877 | IND | DESERT ENTERPRISES | SE | SE | 2 | 15N | 20E | | 0.15 | 0.15 | 0.15 | AFA | | |
| 30299 | 10611 | COM | NORTON, GUERIN A., JR. | NW | SE | 36 | 16N | 20E | | 0.55 | 0.55 | 0.30 | AFA | | |
| 30441 | 9878 | MUN | CARSON CITY | SE | SE | 1 | 15N | 19E | | 1462.93 | 0.00 | 0.00 | AFA | UG | * |
| 34088 | 11291 | COM | MATTHEUS, H. E. | NW | NE | 6 | 15N | 20E | | 0.25 | 0.25 | 0.60 | AFA | | |
| 34808 | PER | QM | EAGLE VALLEY CHILDREN'S HOME (DBA) | SW | SW | 31 | 16N | 20E | | 21.48 | 21.48 | 3.12 | AFA | SP | |
| 34842 | 11227 | COM | ACME MOBILE CONCRETE | NW | SW | 1 | 15N | 20E | | 1.29 | 1.29 | 0.28 | AFA | | |
| 35219 | 10143 | COM | INVESTORS ENTERPRISE ASSOCIATION | NW | NW | 32 | 15N | 20E | | 0.06 | 0.06 | 0.06 | AFA | | |
| 35255 | 11032 | COM | PICK N PULL | NW | SE | 36 | 16N | 20E | | 1.12 | 1.12 | 0.20 | AFA | | |
| 35637 | 9405 | COM | DOSSEY, L. J. JR. | SE | SE | 2 | 15N | 20E | | 3.28 | 3.28 | 1.21 | AFA | | |
| 35826 | 14651 | COM | INTRNATNL. CHURCH OF 4 SQUARE CHURCH | NW | SE | 6 | 14N | 20E | | 0.80 | 0.80 | 1.42 | AFA | | |
| 36083 | PER | MUN | CARSON CITY | NE | NE | 2 | 15N | 19E | | 723.95 | 0.00 | 10.32 | AFA | UG | * |
| 36084 | PER | MUN | CARSON CITY | NW | SW | 36 | 16N | 19E | | 136.84 | 0.00 | 0.00 | AFA | UG | * |
| 39393 | 14012 | COM | SNELLING, HARRIE H. | SE | SW | 31 | 15N | 20E | | 1.04 | 1.23 | 1.30 | AFA | UG | 59843 |
| 40786 | 13923 | QM | NORTH CARSON STREET, LLC | NE | SW | 8 | 15N | 20E | | 0.49 | 0.00 | 0.21 | AFA | UG | 25728 |
| 42725 | 13870 | COM | HARRY W AND EILEEN M FERGUSON | NW | SE | 36 | 16N | 20E | | 0.43 | 0.43 | 0.11 | AFA | | |
| 47704 | PER | MUN | CARSON CITY | SE | SE | 2 | 15N | 20E | | 901.34 | 0.00 | 57.44 | AFA | UG | * |
| 48275 | CAN | QM | LANDS DIVISION - NEVADA | SW | SE | 32 | 15N | 20E | | 0.00 | 0.00 | 46.68 | AFA | | |
| 48542 | PER | MUN | CARSON CITY | NE | NE | 17 | 15N | 20E | | 1176.00 | 0.00 | 89.12 | AFA | UG | * |
| 49953 | 14842 | IRR | GOLD LOCK CORPORATION | NW | SE | 6 | 15N | 20E | 1.91 | 5.30 | 5.30 | 2.02 | AFA | | |
| 51278 | 14288 | QM | THE LEPIRE TRUST OF 1977 | SE | SE | 31 | 15N | 20E | | 0.55 | 14.33 | 0.32 | AFA | UG | 51279 |
| 51279 | 14289 | QM | VIDLER WATER COMPANY AND CARSON CITY | NE | SE | 31 | 15N | 20E | | 13.78 | 0.00 | 0.00 | AFA | UG | 51278 |
| 52239 | PER | MUN | CARSON CITY | NE | NW | 11 | 15N | 20E | | 34.00 | 0.00 | 0.00 | AFA | UG | * |
| 52584 | PER | ENV | MALLORY, INC. | SE | NW | 20 | 15N | 20E | | 32.29 | 32.29 | 2.54 | AFA | | |
| 53822 | PER | QM | SIERRA ESTATES G.I.D. | NW | SW | 6 | 14N | 20E | | 78.41 | 0.00 | 51.02 | AFA | UG | 19044, 20935 |
| 54110 | PER | ENV | MALLORY, INC. | SW | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 54111 | PER | ENV | MALLORY, INC. | SW | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 54112 | PER | ENV | MALLORY, INC. | SW | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 54113 | PER | ENV | MALLORY, INC. | SW | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 54114 | PER | ENV | MALLORY, INC. | SW | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 54115 | PER | ENV | MALLORY, INC. | SW | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 54116 | PER | ENV | MALLORY, INC. | SW | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 54117 | PER | ENV | MALLORY, INC. | NE | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 54118 | PER | ENV | MALLORY, INC. | NW | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 54119 | PER | ENV | MALLORY, INC. | NW | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 54120 | PER | ENV | MALLORY, INC. | NW | NE | 20 | 15N | 20E | | 9.39 | 9.39 | 0.00 | AFA | | |
| 57186E | PER | ENV | TEXACO REFINING & MARKETING INC. | SW | NW | 17 | 15N | 20E | | 16.14 | 16.14 | 0.00 | AFA | | |
| 57187E | PER | ENV | TEXACO REFINING & MARKETING INC. | NW | NW | 20 | 15N | 20E | | 16.14 | 16.14 | 0.00 | AFA | | |
| 57407E | PER | ENV | ARCO PRODUCTS COMPANY | SW | SW | 17 | 15N | 20E | | 65.15 | 65.15 | 0.00 | AFA | | |
| 57541 | PER | IRR | DOUGLAS COUNTY | NE | SW | 16 | 15N | 20E | 8.139 | 32.50 | 32.50 | 0.00 | AFA | | |
| 57898E | PER | ENV | PDQ FOOD STORES OF NEVADA INC. | NW | SW | 16 | 15N | 20E | | 16.14 | 32.28 | 0.00 | AFA | UG | 58128E |
| 58128E | PER | ENV | PDQ FOOD STORES OF NEVADA INC. | SW | SW | 16 | 15N | 20E | | 16.14 | 0.00 | 0.00 | AFA | UG | 57898E |
| 58737 | 14423 | IRR | LIPPINCOTT FARMS | NW | NE | 32 | 15N | 20E | 0.25 | 1.00 | 1.00 | 0.52 | AFA | | |
| 59226 | PER | MUN | CARSON CITY | NW | NE | 26 | 15N | 20E | | 401.07 | 0.00 | 280.83 | AFA | UG | * |
| 59599E | PER | ENV | CARSON CITY HEALTH DEPARTMENT | NW | SE | 17 | 15N | 20E | | 9.70 | 9.70 | 0.00 | AFA | | |

| APP NO. | STATUS | MOU | OWNER OF RECORD | QQ | QTR | SEC | T | R | PER ACRES IRR | DUTY (AF) | SUPP ADJ | DUTY USED | UNIT | SUPP SRC | SUPP GW APP NO. |
|---------|--------|-----|--|----|-----|-----|-----|-----|------------------|--------------|-------------|--------------|------|-------------|--------------------|
| 59600E | PER | ENV | CARSON CITY HEALTH DEPARTMENT | NW | SE | 17 | 15N | 20E | | 9.70 | 9.70 | 0.00 | AFA | | |
| 59827 | PER | MUN | CARSON CITY | NW | NE | 29 | 15N | 20E | | 5.60 | 0.00 | 0.00 | AFA | UG | * |
| 59843 | 16057 | COM | SNELLING, HARRIE H. | SE | SW | 31 | 15N | 20E | | 0.18 | 0.00 | 0.00 | AFA | UG | 39393 |
| 60122E | PER | ENV | SOUTHLAND CORPORATION | | | 9 | 15N | 20E | | 13.03 | 13.03 | 0.00 | AFA | | |
| 60831 | PER | MUN | CARSON CITY WATER UTILITY | NE | NW | 7 | 15N | 20E | | 163.62 | 0.00 | 75.93 | AFA | UG | * |
| 60832 | PER | MUN | CARSON CITY WATER UTILITY | NE | NW | 7 | 15N | 20E | | 1.95 | 0.00 | 0.00 | AFA | UG | * |
| 60833 | PER | MUN | CARSON CITY WATER UTILITY | NE | NW | 7 | 15N | 20E | | 40.30 | 0.00 | 0.00 | AFA | UG | * |
| 60834 | PER | MUN | CARSON CITY WATER UTILITY | NE | NW | 7 | 15N | 20E | | 723.90 | 0.00 | 0.00 | AFA | UG | * |
| 61487 | PER | MUN | CARSON CITY | NE | SE | 12 | 15N | 19E | | 81.60 | 0.00 | 0.00 | AFA | UG | * |
| 61505 | PER | MUN | CARSON CITY | NE | SE | 12 | 15N | 19E | | 344.00 | 0.00 | 0.00 | AFA | UG | * |
| 61506 | PER | MUN | CARSON CITY | SE | NE | 12 | 15N | 19E | | 800.00 | 0.00 | 0.00 | AFA | UG | * |
| 61507 | PER | MUN | CARSON CITY | SE | SE | 1 | 15N | 19E | | 800.00 | 0.00 | 0.00 | AFA | UG | * |
| 61508 | PER | MUN | CARSON CITY | NE | NW | 7 | 15N | 20E | | 800.00 | 0.00 | 0.00 | AFA | UG | * |
| 62402 | PER | QM | USFS | NW | SW | 6 | 14N | 19E | | 1.23 | 1.23 | 1.23 | AFA | | |
| 62639E | PER | ENV | CARSON CITY | NW | SE | 17 | 15N | 20E | | 1.00 | 1.00 | 0.00 | AFA | | |
| 63262E | PER | ENV | WELLS FARGO BANK | SW | NW | 17 | 15N | 20E | | 16.14 | 16.14 | 0.00 | AFA | | |
| 63499E | PER | ENV | MALLORY, INC. | SE | NW | 20 | 15N | 20E | | 16.10 | 16.10 | 2.54 | AFA | | |
| 64042 | PER | QM | DOUGLAS COUNTY | NW | SE | 6 | 14N | 20E | | 0.73 | 0.73 | 0.50 | AFA | | |
| 66708 | PER | MUN | CARSON CITY | NW | NW | 18 | 15N | 20E | | 235.90 | 0.00 | 207.42 | AFA | UG | * |
| 66709 | PER | MUN | CARSON CITY | NW | NW | 18 | 15N | 20E | | 50.66 | 0.00 | 0.00 | AFA | UG | * |
| 66926 | PER | ENV | BERRY HINCKLY INDUSTRIES | SW | SW | 9 | 15N | 20E | | 32.59 | 32.59 | 0.00 | AFA | | |
| 68758 | PER | MUN | CONSOLIDATED MUNICIPALITY OF CARSON | SE | SW | 17 | 15N | 20E | | 2.07 | 0.00 | 2.07 | AFA | UG | * |
| 68759 | PER | MUN | NEVADA DEPT OF GENERAL SERV | SE | SW | 17 | 15N | 20E | | 61.00 | 61.00 | 61.00 | AFA | UG | β |
| 69042 | PER | MUN | CARSON CITY | NW | SW | 7 | 15N | 20E | | 34.00 | 0.00 | 0.00 | AFA | UG | * |
| 69043 | PER | MUN | CARSON CITY | SE | SW | 7 | 15N | 20E | | 34.00 | 0.00 | 0.00 | AFA | UG | * |
| 69344 | PER | MUN | CARSON CITY WATER UTILITY | SE | SW | 17 | 15N | 20E | | 181.00 | 0.00 | 74.69 | AFA | UG | * |
| 69346 | PER | MUN | CARSON CITY | SE | SW | 17 | 15N | 20E | | 5.12 | 0.00 | 0.00 | AFA | UG | * |
| 70521 | PER | MUN | CARSON CITY | SW | SE | 31 | 15N | 20E | | 15.93 | 0.00 | 0.00 | AFA | UG | * |
| 70522 | PER | MUN | CARSON CITY | SW | SE | 31 | 15N | 20E | | 94.00 | 0.00 | 0.00 | AFA | UG | * |
| 70662 | PER | MUN | CARSON CITY | SE | NE | 18 | 15N | 20E | | 456.00 | 0.00 | 53.36 | AFA | UG | * |
| 71674 | PER | QM | DOUGLAS COUNTY | NW | NE | 6 | 14N | 20E | | 12.28 | 46.24 | 12.28 | AFA | UG | α |
| 71675 | PER | QM | DOUGLAS COUNTY | NW | NE | 6 | 14N | 20E | | 1.00 | 0.00 | 1.00 | AFA | UG | α |
| 71676 | PER | QM | DOUGLAS COUNTY | NW | NE | 6 | 14N | 20E | | 30.69 | 0.00 | 0.86 | AFA | UG | α |
| 71678 | PER | MUN | CARSON CITY | NW | SW | 7 | 15N | 20E | | 292.60 | 0.00 | 631.26 | AFA | UG | * |
| 71749 | PER | MUN | CARSON CITY | NE | NE | 12 | 15N | 19E | | 292.60 | 0.00 | 555.77 | AFA | UG | * |
| 72189E | PER | ENV | AHMAD, MOHAMMAD | NW | NW | 20 | 15N | 20E | | 21.72 | 21.72 | 0.98 | AFA | | |
| 76627 | PER | IRR | SINNOTT, DAWN E., LISA C., MARY J., PETER D. ROBERT C., WILLIAM O. | NW | SW | 32 | 15N | 20E | 0.75 | 3.00 | 3.00 | 0.90 | AFA | | |
| 77062 | PER | COM | GOLDEN SIERRA INVESTMENTS L.L.C. | SW | SW | 28 | 16N | 20E | | 2.00 | 2.00 | 0.00 | AFA | | |
| 77199 | PER | QM | STATE OF NEVADA, DIV. OF STATE LANDS | SE | SE | 32 | 15N | 20E | | 46.68 | 46.68 | 0.00 | AFA | | |
| 77993 | PER | QM | DOUGLAS COUNTY | NW | NE | 6 | 14N | 20E | | 2.27 | 0.00 | 0.00 | AFA | UG | α |

*Comingled rights in Carson City Municipal System: 23672, 23673, 24986, 25667, 26581, 26582, 27314, 27320, 29002, 29906, 30441, 36083, 36084, 47704, 48542, 52239, 59226, 59827, 60831, 60832, 60833, 60834, 61487, 61505, 61506, 61507, 61508, 66708, 66709, 68758, 69042, 69043, 69344, 69346, 70521, 70522, 70662, 71678, 71749.

α Douglas County total combined duty permit numbers: 71674, 71675, 71676, 77993 = TCD 46.24 AFA

β Well total combined duty(TCD) = 249.19 AFA for 68759, 68758, 69344, 69346; TCD of 68758, 69344, 69346 are in Carson City's Main TCD

APPENDIX C

**EAGLE VALLEY WATER YEAR 2009 PERMITTED ACRES IRRIGATED BY
GROUNDWATER**

Explanation of Column Headings for Place of Use of Groundwater Irrigation Rights

| | |
|--------------------|---|
| APP NO. | The file number of the Application to Appropriate/Change Water or the Vested Claim of Right |
| STATUS | Indicates if the application is a Vested Claim of Right (VST), a Permit (PER) or if it has been certificated. If an application has been certificated, the Certificate number will be listed in the column. |
| OWNER OF RECORD | The owner of the water right as recorded in the files of the state engineer. A water right may have more than one owner of record. |
| QQ | The quarter quarter of the section in which the point of diversion is located. |
| QTR | The quarter of the section in which the point of diversion is located. |
| SEC | The section in which the point of diversion is located. |
| T | The township in which the point of diversion is located. |
| R | The range in which the point of diversion is located. |
| PER ACRES | The number of acres, by quarter quarter that are permitted to be irrigated. |
| PER IRR ACRES 2009 | The number of acres irrigated within the place of use of the associated permit, during water year 2009, as determined by field inspection. |
| SUPP ACRES | The number of acres by quarter quarter that have more than one appropriation appurtenant. |
| SUPP SOURCE | Source of the supplemental water, UG (ground water), KC (Kings Canyon Creek), or RR (Reservoir Ravine Creek). |
| SUPP GW APP NO. | The file number of the supplemental ground water appropriation. |

| APP NO. | STATUS | OWNER OF RECORD | QQ | QTR | SEC | T | R | PER ACRES | PER IRR ACRES | SUPP ACRES | SUPP SOURCE | SUPP GW APP NO. |
|---------|--------|--------------------------------------|----|-----|---------------|-----|-----|--------------|---------------|--------------|-------------|-----------------|
| V02518 | VST | ALLEN, ROBERT A. | SW | NW | 17 | 15N | 20E | 0.30 | 0.00 | | | |
| | | | SE | NE | 18 | 15N | 20E | 1.00 | 0.50 | | | |
| | | | | | Total: | | | 1.30 | 0.50 | 0.00 | | |
| V02780 | VST | CARRINGTON, EDME H. | SE | NE | 18 | 15N | 20E | 0.50 | 0.50 | | | |
| | | | | | Total: | | | 0.50 | 0.50 | 0.00 | | |
| 8961 | 2492 | CONSOLIDATED CONSTRUCTION CORP. | SE | NE | 7 | 15N | 20E | 10.84 | 0.10 | | | |
| | | | | | Total: | | | 10.84 | 0.10 | 0.00 | | |
| 12994 | 3504 | TURMAN, ELIZABETH W. CROZER | NE | SW | 18 | 15N | 20E | 3.65 | 0.00 | 3.65 | UG/KC | 12995 |
| | | | NW | SE | 18 | 15N | 20E | 29.45 | 0.00 | 29.45 | UG/KC | 12995 |
| | | | SW | SE | 18 | 15N | 20E | 21.10 | 0.00 | 21.10 | UG/KC | 12995 |
| | | | | | Total: | | | 54.20 | 0.00 | 54.20 | | |
| 12995 | 3505 | TURMAN, ELIZABETH W. CROZER | NE | SW | 18 | 15N | 20E | 3.65 | 0.00 | 3.65 | UG/KC | 12994 |
| | | | NW | SE | 18 | 15N | 20E | 29.45 | 0.00 | 29.45 | UG/KC | 12994 |
| | | | SW | SE | 18 | 15N | 20E | 21.10 | 0.00 | 21.10 | UG/KC | 12994 |
| | | | | | Total: | | | 54.20 | 0.00 | 54.20 | | |
| 15880 | 5499 | JOOST, HERMAN | SE | SW | 7 | 15N | 20E | 17.89 | 17.89 | 17.89 | RR | |
| | | | | | Total: | | | 17.89 | 17.89 | 17.89 | | |
| 17899 | 5379 | LIPPINCOTT, CLYDE R. | NE | NW | 5 | 15N | 20E | 1.00 | 0.30 | | | |
| | | | | | Total: | | | 1.00 | 0.30 | 0.00 | | |
| 26822 | 9260 | INTERNATIONAL FEED IMPROVEMENT ASSOC | NE | SW | 1 | 15N | 20E | 3.00 | 0.00 | | | |
| | | | NW | SW | 1 | 15N | 20E | 7.00 | 2.00 | | | |
| | | | | | Total: | | | 10.00 | 2.00 | 0.00 | | |
| 27476 | 9748 | WADE, BERT A. | NW | SW | 35 | 15N | 19E | 1.06 | 0.50 | | | |
| | | | | | Total: | | | 1.06 | 0.50 | 0.00 | | |
| 27477 | 9749 | DOUD, RICHARD M. | SW | SW | 35 | 15N | 19E | 0.32 | 0.00 | | | |
| | | | NW | SW | 35 | 15N | 19E | 3.00 | 0.50 | | | |
| | | | | | Total: | | | 3.32 | 0.50 | 0.00 | | |
| 27666 | 9072 | COWPERTHWAITTE, JOSEPHINE G. | N2 | SW | 7 | 15N | 20E | 1.24 | 0.50 | | | |
| | | | | | Total: | | | 1.24 | 0.50 | 0.00 | | |
| 27857 | 9195 | COTTONWOOD MOBILE HOME PARK INC. | NW | NW | 5 | 15N | 20E | 5.50 | 5.50 | | | |
| | | | | | Total: | | | 5.50 | 5.50 | 0.00 | | |
| 49953 | 14842 | GOLD LOCK CORPORATION | SW | NE | 6 | 15N | 20E | 0.31 | 0.00 | | | |
| | | | NE | SE | 6 | 15N | 20E | 0.39 | 0.25 | | | |
| | | | NW | SE | 6 | 15N | 20E | 1.22 | 0.25 | | | |
| | | | | | Total: | | | 1.91 | 0.50 | 0.00 | | |
| 57541 | PER | DOUGLAS COUNTY | SW | NE | 16 | 15N | 20E | | 0.00 | | | |
| | | | NW | SE | 16 | 15N | 20E | | 0.00 | | | |
| | | | NE | SW | 16 | 15N | 20E | | 0.00 | | | |
| | | | SE | NW | 16 | 15N | 20E | | 0.00 | | | |
| | | | | | Total: | | | 8.14 | 0.00 | 0.00 | | |

| APP NO. | STATUS | OWNER OF RECORD | QQ | QTR | SEC | T | R | PER ACRES | PER IRR ACRES 2009 | SUPP ACRES | SUPP SOURCE | SUPP GW APP NO. |
|---------|--------|--|----|-----|-----|-----|---------------|-------------|-----------------------|---------------|----------------|--------------------|
| 58737 | 14423 | LIPPINCOTT FARMS | NW | NE | 32 | 15N | 20E | 0.25 | 0.00 | 0.00 | | |
| | | | | | | | Total: | 0.25 | 0.00 | | | |
| 76627 | PER | SINNOTT, DAWN E., LISA C., MARY J., PETER D. ROBERT C., WILLIAM O. | NW | SW | 32 | 15N | 20E | 0.75 | 0.25 | 0.00 | | |
| | | | | | | | Total: | 0.75 | 0.25 | | | |

APPENDIX D

EAGLE VALLEY HISTORICAL PUMPAGE

| APP NO. | STATUS | MOU | OWNER OF RECORD | DUTY USED 2004 | DUTY USED 2005 | DUTY USED 2006 | DUTY USED 2007 | DUTY USED 2008 | DUTY USED 2009 |
|---------|--------|-----|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| V02449 | VST | STK | ANDERSON, D.A. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| V02518 | VST | IRR | ALLEN, ROBERT A. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| V02780 | VST | IRR | CARRINGTON, EDME H. | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| V02785 | VST | STK | NEWMAN CONSTRUCTION LTD. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| V03704 | VST | STK | LOMPA, EVA | 0.27 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| V09127 | VST | COM | HONE, DOUGLAS K. | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 |
| 8961 | 2492 | IRR | CONSOLIDATED CONSTRUCTION CORP. | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| 12279 | 4709 | QM | J.D.S. CORPORATION | 2.18 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12994 | 3504 | IRR | TURMAN, ELIZABETH W. CROZER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12995 | 3505 | IRR | TURMAN, ELIZABETH W. CROZER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15313 | 5076 | COM | MARTIN, MARYBELLE M. | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| 15880 | 5499 | IRR | JOOST, HERMAN | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.40 |
| 17881 | 4965 | OTH | NEVADA NATIONAL GUARD | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17899 | 5379 | IRR | LIPPINCOTT, CLYDE R. | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 18535 | 5184 | COM | CARSON CITY | 8.59 | 8.59 | 2.00 | 2.00 | 0.00 | 0.00 |
| 18536 | 5185 | COM | CARSON CITY | 5.37 | 5.37 | 2.00 | 0.00 | 0.00 | 0.00 |
| 19044 | 6208 | QM | SIERRA ESTATES G.I.D. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20702 | 7841 | COM | NEWMAN, PATRICIA M. | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 |
| 20935 | 6209 | QM | SIERRA ESTATES G.I.D. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21258 | 6707 | COM | FULLER, WILLIAM S. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 23672 | 6471 | MUN | CARSON CITY | 119.99 | 119.99 | 119.99 | 119.99 | 119.99 | 119.99 |
| 23673 | 6472 | MUN | CARSON CITY | 1093.28 | 964.67 | 947.51 | 1268.98 | 1309.20 | 1257.32 |
| 23727 | 7646 | QM | STATE OF NEVADA | 15.68 | 18.25 | 8.37 | 0.01 | 2.97 | 0.04 |
| 23728 | 7647 | QM | STATE OF NEVADA | | | 5.84 | 4.02 | 0.46 | 0.00 |
| 24462 | 7734 | QM | FISCHER, ALBERT J. | 1.13 | 0.16 | 0.14 | 0.26 | 5.05 | 3.40 |
| 24463 | 7735 | QM | FISCHER, ALBERT J. | 6.77 | 1.57 | 4.23 | 10.46 | 15.00 | 21.20 |
| 24986 | 7366 | MUN | CARSON CITY | 153.82 | 72.73 | 58.45 | 0.00 | 0.00 | 15.69 |
| 25667 | 9866 | MUN | CARSON CITY | 312.64 | 137.12 | 220.63 | 226.66 | 289.94 | 234.73 |
| 25728 | 9583 | QM | NORTH CARSON STREET, LLC | 44.39 | 33.23 | 37.30 | 38.78 | 38.07 | 30.09 |
| 25987 | 9868 | COM | PARKER, BENJAMIN LANCASTER | 3.65 | 2.87 | 3.24 | 3.44 | 2.31 | 1.72 |
| 26297 | 8813 | QM | WESTERN SUN, LLC | 3.95 | 4.06 | 3.49 | 5.03 | 6.66 | 6.66 |
| 26453 | 8865 | IND | PEDERSON, BJARNE A. | 0.38 | 0.31 | 0.40 | 0.40 | 0.40 | 1.48 |
| 26581 | 9622 | MUN | CARSON CITY | 114.45 | 104.18 | 150.59 | 127.56 | 142.52 | 181.79 |
| 26582 | 9623 | MUN | CARSON CITY | 494.39 | 536.59 | 458.48 | 455.74 | 472.34 | 386.69 |
| 26821 | 8948 | COM | POZZI MOTOR COMPANY | 0.28 | 0.36 | 0.41 | 0.38 | 0.18 | 0.22 |
| 26822 | 9260 | IRR | INTERNATIONAL FEED IMPROVEMENT ASSOC | 0.12 | 0.12 | 0.12 | 2.72 | 3.22 | 9.16 |
| 26886 | 9164 | COM | WEIR, DONALD V. | 1.74 | 1.38 | 1.51 | 2.18 | 1.66 | 1.45 |
| 26943 | 9423 | QM | GARICOITZ FAMILY TRUST | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26944 | 9429 | QM | GARICOITZ FAMILY TRUST | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26945 | 8761 | COM | FIXMER, E. J. | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| 26985 | 9428 | COM | HARRINGTON, J. P. | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |

| APP NO. | STATUS | MOU | OWNER OF RECORD | DUTY USED 2004 | DUTY USED 2005 | DUTY USED 2006 | DUTY USED 2007 | DUTY USED 2008 | DUTY USED 2009 |
|---------|--------|-----|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 27012 | 8393 | COM | WELLS, LEON D. | 0.55 | 0.55 | 0.34 | 0.75 | 0.67 | 0.25 |
| 27014 | 9869 | COM | BRANSTETTER, CHAS. H. | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27063 | 8406 | COM | WESTERN INSPIRATIONAL BROADCASTERS | 0.30 | 0.19 | 0.53 | 0.28 | 0.42 | 0.30 |
| 27076 | 8783 | COM | MELLOW, JERRY A. | 0.39 | 0.31 | 0.40 | 0.40 | 0.40 | 0.30 |
| 27095 | 9070 | COM | EUSE, CHERYL RUPP MANN | 1.10 | 0.32 | 0.46 | 0.52 | 0.45 | 0.46 |
| 27164 | 8828 | COM | PECORILLA, ANGELO | 1.10 | 1.10 | 1.10 | 0.24 | 0.24 | 0.24 |
| 27215 | 10456 | QM | ROBERTS, FRED L. | 0.35 | 0.35 | 0.91 | 1.00 | 1.00 | 1.00 |
| 27314 | 9871 | MUN | CARSON CITY | 484.89 | 382.45 | 276.50 | 297.54 | 263.71 | 471.46 |
| 27320 | 9872 | MUN | CARSON CITY | 155.83 | 190.27 | 205.79 | 289.44 | 238.37 | 303.65 |
| 27373 | 8830 | IND | DENTON, DONALD F. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27476 | 9748 | IRR | WADE, BERT A. | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |
| 27477 | 9749 | IRR | DOUD, RICHARD M. | 3.12 | 3.12 | 3.12 | 2.00 | 2.00 | 2.00 |
| 27666 | 9072 | IRR | COWPERTHWAITTE, JOSEPHINE G. | 0.44 | 0.29 | 0.31 | 0.27 | 0.22 | 0.22 |
| 27822 | 9209 | COM | RUTLEDGE, RALPH A. | 2.17 | 2.17 | 2.17 | 2.17 | 2.17 | 2.17 |
| 27857 | 9195 | IRR | COTTONWOOD MOBILE HOME PARK INC. | 10.70 | 8.48 | 10.61 | 10.05 | 10.93 | 11.80 |
| 29002 | 9904 | MUN | CARSON CITY | 384.37 | 222.71 | 381.14 | 385.23 | 354.33 | 501.23 |
| 29434 | 9695 | IND | DENTON, DONALD F. | 0.78 | 0.78 | 0.80 | 0.63 | 0.40 | 0.38 |
| 29464 | 9875 | QM | LINDSEY, SUSAN | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| 29802 | 13660 | QM | ALLEN, EMMA | 1.28 | 0.06 | 0.00 | 1.54 | 1.54 | 1.54 |
| 29906 | 9635 | MUN | CARSON CITY | 876.36 | 517.59 | 330.31 | 385.02 | 561.56 | 326.48 |
| 29960 | 9876 | IND | NAFCO INDUSTRIES INC | 0.37 | 0.29 | 0.27 | 0.25 | 0.25 | 0.27 |
| 30167 | 9877 | IND | DESERT ENTERPRISES | 0.14 | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 |
| 30299 | 10611 | COM | NORTON, GUERIN A., JR. | 0.31 | 0.31 | 0.10 | 0.31 | 0.31 | 0.30 |
| 30441 | 9878 | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34088 | 11291 | COM | MATTHEUS, H. E. | 0.74 | 0.55 | 0.74 | 0.90 | 0.97 | 0.60 |
| 34808 | PER | QM | EAGLE VALLEY CHILDREN'S HOME (DBA) | 6.02 | 0.09 | 9.55 | 9.54 | 2.23 | 3.12 |
| 34842 | 11227 | COM | ACME MOBILE CONCRETE | 0.76 | 0.59 | 0.48 | 0.27 | 0.35 | 0.28 |
| 35219 | 10143 | COM | INVESTORS ENTERPRISE ASSOCIATION | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 35255 | 11032 | COM | PICK N PULL | 1.65 | 0.48 | 1.11 | 1.23 | 0.48 | 0.20 |
| 35637 | 9405 | COM | DOSSEY, L. J. JR. | 1.00 | 1.00 | 1.00 | 1.21 | 1.21 | 1.21 |
| 35826 | 14651 | COM | INTRNATNL. CHURCH OF 4 SQUARE CHURCH | 1.65 | 1.48 | 1.24 | 1.74 | 1.50 | 1.42 |
| 36083 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 15.25 | 21.22 | 10.32 |
| 36084 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39393 | 14012 | COM | SNELLING, HARRIE H. | 1.21 | 1.09 | 0.64 | 0.91 | 0.93 | 1.30 |
| 40786 | 13923 | QM | NORTH CARSON STREET, LLC | 0.31 | 0.25 | 0.16 | 0.24 | 0.21 | 0.21 |
| 42725 | 13870 | COM | HARRY W AND EILEEN M FERGUSON | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 47704 | PER | MUN | CARSON CITY | 75.32 | 54.75 | 26.09 | 73.65 | 65.63 | 57.44 |
| 48275 | CAN | QM | LANDS DIVISION-NEVADA | 45.61 | 36.79 | 54.79 | 53.65 | 38.21 | 46.68 |
| 48542 | PER | MUN | CARSON CITY | 459.24 | 454.65 | 48.53 | 161.90 | 114.92 | 89.12 |
| 49953 | 14842 | IRR | GOLD LOCK CORPORATION | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| 51278 | 14288 | QM | THE LEPIRE TRUST OF 1977 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 0.32 |

| APP NO. | STATUS | MOU | OWNER OF RECORD | DUTY USED 2004 | DUTY USED 2005 | DUTY USED 2006 | DUTY USED 2007 | DUTY USED 2008 | DUTY USED 2009 |
|---------|--------|-----|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 51279 | 14289 | QM | VIDLER WATER COMPANY AND CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52239 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52584 | PER | ENV | MALLORY, INC. | | | | 2.61 | 2.65 | 2.54 |
| 53822 | PER | QM | SIERRA ESTATES G.I.D. | 55.99 | 66.70 | 52.86 | 56.96 | 54.23 | 51.02 |
| 54110 | PER | ENV | MALLORY, INC. | | | | 0.00 | 0.00 | 0.00 |
| 54111 | PER | ENV | MALLORY, INC. | | | | 0.00 | 0.00 | 0.00 |
| 54112 | PER | ENV | MALLORY, INC. | | | | 2.61 | 2.65 | 0.00 |
| 54113 | PER | ENV | MALLORY, INC. | | | | 0.00 | 0.00 | 0.00 |
| 54114 | PER | ENV | MALLORY, INC. | | | | 0.00 | 0.00 | 0.00 |
| 54115 | PER | ENV | MALLORY, INC. | | | | 0.00 | 0.00 | 0.00 |
| 54116 | PER | ENV | MALLORY, INC. | | | | 0.00 | 0.00 | 0.00 |
| 54117 | PER | ENV | MALLORY, INC. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54118 | PER | ENV | MALLORY, INC. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54119 | PER | ENV | MALLORY, INC. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54120 | PER | ENV | MALLORY, INC. | | | | 0.00 | 0.00 | 0.00 |
| 57186E | PER | ENV | TEXACO REFINING & MARKETING INC. | | | | 0.00 | 0.00 | 0.00 |
| 57187E | PER | ENV | TEXACO REFINING & MARKETING INC. | | | | 0.00 | 0.00 | 0.00 |
| 57407E | PER | ENV | ARCO PRODUCTS COMPANY | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57541 | PER | IRR | DOUGLAS COUNTY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57898E | PER | ENV | PDQ FOOD STORES OF NEVADA INC. | | | | 0.00 | 0.00 | 0.00 |
| 58128E | PER | ENV | PDQ FOOD STORES OF NEVADA INC. | | | | 0.00 | 0.00 | 0.00 |
| 58737 | 14423 | IRR | LIPPINCOTT FARMS | 0.49 | 0.52 | 0.45 | 0.43 | 0.30 | 0.52 |
| 59226 | PER | MUN | CARSON CITY | 309.57 | 144.42 | 229.82 | 237.28 | 199.79 | 280.83 |
| 59599E | PER | ENV | CARSON CITY HEALTH DEPARTMENT | | | | 0.00 | 0.00 | 0.00 |
| 59600E | PER | ENV | CARSON CITY HEALTH DEPARTMENT | | | | 0.00 | 0.00 | 0.00 |
| 59827 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59843 | 16057 | COM | SNELLING, HARRIE H. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60122E | PER | ENV | SOUTHLAND CORPORATION | | | | 0.00 | 0.00 | 0.00 |
| 60831 | PER | MUN | CARSON CITY WATER UTILITY | 163.62 | 163.62 | 163.62 | 163.62 | 86.87 | 75.93 |
| 60832 | PER | MUN | CARSON CITY WATER UTILITY | 1.95 | 1.95 | 1.95 | 1.95 | 0.00 | 0.00 |
| 60833 | PER | MUN | CARSON CITY WATER UTILITY | 40.30 | 40.30 | 40.30 | 40.30 | 0.00 | 0.00 |
| 60834 | PER | MUN | CARSON CITY WATER UTILITY | 460.38 | 362.56 | 351.84 | 24.57 | 0.00 | 0.00 |
| 61487 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 34.56 | 81.60 | 0.00 |
| 61505 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61506 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61507 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61508 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62402 | PER | QM | USFS | | | | | 1.23 | 1.23 |
| 62639E | PER | ENV | CARSON CITY | | | | 0.00 | 0.00 | 0.00 |
| 63262E | PER | ENV | WELLS FARGO BANK | | | | 0.00 | 0.00 | 0.00 |
| 63499E | PER | ENV | MALLORY, INC. | | | | 2.61 | 2.65 | 2.54 |

| APP NO. | STATUS | MOU | OWNER OF RECORD | DUTY USED 2004 | DUTY USED 2005 | DUTY USED 2006 | DUTY USED 2007 | DUTY USED 2008 | DUTY USED 2009 |
|---------|--------|-----|--|----------------|----------------|----------------|----------------|----------------|----------------|
| 64042 | PER | QM | DOUGLAS COUNTY | 0.26 | 0.29 | 1.35 | 0.76 | 0.45 | 0.50 |
| 66708 | PER | MUN | CARSON CITY | 235.90 | 235.90 | 89.47 | 201.12 | 220.19 | 207.42 |
| 66709 | PER | MUN | CARSON CITY | 43.80 | 5.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66926 | PER | ENV | BERRY HINCKLY INDUSTRIES | | | | 0.00 | 0.00 | 0.00 |
| 68758 | PER | MUN | CONSOLIDATED MUNICIPALITY OF CARSON | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 |
| 68759 | PER | MUN | NEVADA DEPT OF GENERAL SERV | | | | | | 61.00 |
| 69042 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69043 | PER | MUN | CARSON CITY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69344 | PER | MUN | CARSON CITY WATER UTILITY | 181.00 | 181.00 | 63.20 | 181.00 | 176.09 | 74.69 |
| 69346 | PER | MUN | CARSON CITY | 65.15 | 121.55 | 0.00 | 15.01 | 0.00 | 0.00 |
| 70521 | PER | MUN | CARSON CITY | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70522 | PER | MUN | CARSON CITY | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70662 | PER | MUN | CARSON CITY | 1.32 | 74.62 | 59.50 | 59.18 | 52.41 | 53.36 |
| 71674 | PER | QM | DOUGLAS COUNTY | | | | | 12.28 | 12.28 |
| 71675 | PER | QM | DOUGLAS COUNTY | | | | | 1.00 | 1.00 |
| 71676 | PER | QM | DOUGLAS COUNTY | | | | | 11.70 | 0.86 |
| 71678 | PER | MUN | CARSON CITY | | 0.00 | 311.46 | 524.51 | 641.08 | 631.26 |
| 71749 | PER | MUN | CARSON CITY | | 0.00 | 395.83 | 487.86 | 613.55 | 555.77 |
| 72189E | PER | ENV | AHMAD, MOHAMMAD | | | | 7.21 | 6.75 | 0.98 |
| 76627 | PER | IRR | SINNOTT, DAWN E., LISA C., MARY J., PETER D. ROBERT C., WILLIAM O. | | | | | | 0.90 |
| 77062 | PER | COM | GOLDEN SIERRA INVESTMENTS L.L.C. | | | | | | 0.00 |
| 77199 | PER | QM | STATE OF NEVADA, DIV. OF STATE LANDS | | | | | | 0.00 |
| 77993 | PER | QM | DOUGLAS COUNTY | | | | | | 0.00 |

HISTORICAL GROUNDWATER PUMPAGE BY MANNER OF USE

| | COM | DOM | ENV | IND | IRR | MUN | OTH | QM | STK |
|------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| 1994 | 60 | 953 | | 3 | 86 | 4580 | 0 | 244 | 0 |
| 1995 | 53 | 968 | | 3 | 48 | 3639 | 0 | 219 | 3 |
| 1996 | 45 | 967 | | 2 | 40 | 2212 | 0 | 208 | 3 |
| 1997 | 49 | 969 | | 2 | 32 | 3603 | 0 | 228 | 3 |
| 1998 | 53 | 966 | | 2 | 28 | 3324 | 0 | 200 | 2 |
| 1999 | 54 | 957 | | 2 | 45 | 3677 | 0 | 151 | 2 |
| 2000 | 20 | 950 | | 2 | 58 | 5107 | 0 | 162 | 2 |
| 2001 | 51 | 945 | | 2 | 46 | 6225 | 0 | 256 | 2 |
| 2002 | 42 | 944 | 1 | 2 | 51 | 6263 | 0 | 187 | 0 |
| 2003 | 40 | 945 | 4 | 2 | 47 | 5287 | 0 | 212 | 0 |
| 2004 | 42 | 949 | 0 | 2 | 26 | 6230 | 0 | 187 | 0 |
| 2005 | 38 | 941 | 0 | 2 | 23 | 5091 | 0 | 167 | 1 |
| 2006 | 28 | 929 | 0 | 2 | 25 | 4933 | 0 | 182 | 1 |
| 2007 | 28 | 925 | 15 | 1 | 28 | 5780 | 0 | 187 | 1 |
| 2008 | 23 | 922 | 15 | 1 | 28 | 6027 | 0 | 196 | 1 |
| 2009 | 22 | 919 | 6 | 2 | 36 | 5898 | 0 | 183 | 1 |

*All values are in acre-feet

**Pumpage estimates were not available for Environmental for water years 1994-2001

