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| J. <u>  Eugene C. Allen  </u> <i>EC Allen</i> <u>  6/14/07  </u><br>RESPONSIBLE ENGINEER/ANALYST (Printed Name and Signature)      DATE   |   |            |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Title: Water Resources Assessment Report Caliente Rail Corridor (without markings)

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Reference#: NVT-CD-00160

*NVM Nevada Transportation Manager Gene Allen*  
*NE Nevada Engineering Kathy Mrotek*

*Note: Document resubmitted to remove privileged markings only.*  
*No technical changes were made.*



# Transportation Data Pedigree Form

Complete only applicable items.

|                               |  |                                 |                       |
|-------------------------------|--|---------------------------------|-----------------------|
| Subcontractor:<br>PB/Converse | Item Number/Title/Revision:<br>Water Resources Assessment Report - June 27, 2005 | Submittal Date:<br>May 15, 2007 | SRCT No.:<br>07-00130 |
|-------------------------------|--|---------------------------------|-----------------------|

**Section I. Submittal Information** (includes above information)

Submittal Description and Revision Summary for Entire Submittal:  
 This submittal is a re-submittal due to the letter received from BSC dated May 1, 2007 requesting modification (removing "pre-Decision EIS related" markings) to the original submittal.

Special Instructions:

**Section II. Data File Information** (Add lines below if needed for additional files. Indicate "Last item" or "End of list" after last line used.)

| Filename   | Rev. | File Size | Description (File description and revision summary for file) | Application and Version/<br>Add-in or Extension and Version |
|--|------|-----------|--|---|
| Water Resources Assessment Report_Rev. 0_6-27-05.ppt | 00   | 23,010 KB | Combined report in pdf format                                | Adobe Acrobat 7.0 Professional                              |
| WRA Cover&Spine.ppt                                  | 00   | 1,083K B  | Report cover and spine                                       | Microsoft PowerPoint Presentation                           |
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|  | Zone:                          |
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| <input type="checkbox"/> <b>CAD Metadata</b><br>CAD drawings are preferred in Bentley MicroStation V8 and/or InRoads and should adhere to established CAD standards. | Level descriptions:            |
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**Section IV. Data Screening (Completed by BSC personnel)**

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| Acceptable for Review?<br><input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No | Screening Name:<br>Cathy Stettler | Signature:<br>Cathy Stettler | Date:<br>5/24/07 |
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\*If "Yes", Data Storage Location: NV\data/PB/Phase 1/07-00130 Water Resources Assess Rpt REV 0 06-27-05

Comments: (Justification for returning submittal is required; other comments are optional.)  
 Per NV Transportation management, REVISION 0 is being re-submitted without privileged markings.

BSC

# Transportation Data Pedigree Form

QA: N/A

Page 2 of 2

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| <b>Section V. STR/STR Support Disposition of Submittal</b>                        |  |                                 |                       |
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| STR/STR Support Name:<br><i>K.C. Allen</i>  | Signature:<br><i>[Signature]</i>   | Date:<br><i>7/29/07</i>         |                       |

*KAM 5/24/07*





# Water Resources Assessment Report

**Task 3.4**  
**REV. 0 June 27, 2005**

Prepared for:



Prepared by:

Caliente Rail Corridor Hydrologic Analyses

Subcontract NN-HC4-00207

27 June 2005



Converse Consultants

**WATER RESOURCES  
ASSESSMENT REPORT**

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**CALIENTE RAIL CORRIDOR  
YUCCA MOUNTAIN PROJECT, NEVADA**

**Prepared by:**

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**Prepared for:**

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Las Vegas, NV 89109-0943**

**Converse Project No. 04-33110-01**

**June 27, 2005**



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# **Water Resources Assessment Report**

## **Caliente Rail Corridor Yucca Mountain Project, Nevada**

Subcontract No. NN-HCA 00207

June 27, 2005

Converse Consultants Project No. 04-33110-01

### **Table of Contents**

- 1.0 Introduction
  - 1.1 Background
  - 1.2 Purpose and Scope
- 2.0 Literature and Data Review
  - 2.1 Published References
  - 2.2 GIS Data
  - 2.3 Descriptions of Spatial Data
    - 2.3.1 NDWR Well Data
    - 2.3.2 Water Rights Data
  - 2.4 USGS-NWIS Data
- 3.0 Water Resources Framework
  - 3.1 Regulatory Framework
    - 3.1.1 Appropriation of Public Waters
    - 3.1.2 Application Process
      - 3.1.2.1 Required Proofs
      - 3.1.2.2 Diversion Rate and Annual Use
      - 3.1.2.3 Assigning and Conveyance of Water Rights

- 3.1.3 Designated Underground Basins
- 3.1.4 Application to Change
  - 3.1.4.1 Temporary Changes and Transfers
- 3.1.5 Interbasin Transfers
- 3.2 Hydrogeologic Framework
  - 3.2.1 Physiographic Setting
  - 3.2.2 Groundwater Occurrence
  - 3.2.3 Valley-Fill Alluvial Aquifers
  - 3.2.4 Carbonate-Rock Aquifers
  - 3.2.5 Fault Zones
  - 3.2.6 Water Quality
- 4.0 Water Resources Overview
  - 4.1 CRC Basin Assessments
    - 4.1.1 Fortymile Canyon- Jackass Flats (227A)
    - 4.1.2 Crater Flat (229)
    - 4.1.3 Oasis Valley (228)
    - 4.1.4 Sarcobatus Flat (146)
    - 4.1.5 Lida Valley (144)
    - 4.1.6 Stonewall Flat (145)
    - 4.1.7 Alkali Spring Valley (142)
    - 4.1.8 Ralston Valley (141)
    - 4.1.9 Stone Cabin Valley (149)
    - 4.1.10 Hot Creek (156)
    - 4.1.11 Railroad Valley South (173A)
    - 4.1.12 Railroad Valley North (173B)
    - 4.1.13 Penoyer Valley (170)
    - 4.1.14 Garden Valley (172)
    - 4.1.15 Coal Valley (171)
    - 4.1.16 White River Valley (207)
    - 4.1.17 Pahroc Valley (208)
    - 4.1.18 Dry Lake Valley (181)
    - 4.1.19 Panaca Valley (203)
    - 4.1.20 Escalante Desert (197)
    - 4.1.21 Clover Valley (204)

- 4.2 Description of Water Rights Data
- 4.3 Appropriations Summary
  
- 5.0 Water Resource Planning Strategies
  - 5.1 Overview of Water Resources Strategies
  - 5.2 Development Approach
    - 5.2.1 New Appropriations
      - 5.2.1.1 Basin Status
      - 5.2.1.2 Availability of Water (Perennial Yield)
    - 5.2.2 Existing Appropriations
      - 5.2.2.1 Municipal Sources
      - 5.2.2.2 Irrigation Sources
    - 5.2.3 Surface Water Appropriations
  - 5.3 Water Resources Development Strategy
    - 5.3.1 Decision Criteria
    - 5.3.2 Decision Analysis
  
- 6.0 References

---

**List of Tables**

- Table 2-1 – NDWR Wells Summary
- Table 2-2 – USGS-NWIS Data Description
- Table 2-3 – USGS-NWIS Site Summary
- Table 2-4 – USGS-NWIS Spatial Accuracy
- Table 4-1 – Groundwater Summary Basin 227A
- Table 4-2 – Forty- Mile Canyon-Jackass Flats Existing Wells
- Table 4-3 – Groundwater Summary Basin 229
- Table 4-4 – Crater Flat Existing Wells
- Table 4-5 – Groundwater Summary Oasis Valley
- Table 4-6 – Oasis Valley Existing Wells
- Table 4-7 – Groundwater Summary Sarcobatus Flat
- Table 4-8 – Sarcobatus Flat Valley Existing Wells

|   |
|---|
| Table 4-9 – Groundwater Summary Lida Valley Basin                       |
| Table 4-10 – Lida Valley Existing Wells                                 |
| Table 4-11 – Groundwater Summary Stonewall Flat Basin                   |
| Table 4-12 – Stonewall Flat Basin Existing Wells                        |
| Table 4-13 – Groundwater Summary Alkali Spring Valley                   |
| Table 4-14 – Alkali Spring Valley Existing Wells                        |
| Table 4-15 – Groundwater Summary Ralston Valley                         |
| Table 4-16 – Ralston Valley Existing Wells                              |
| Table 4-17 – Groundwater Summary Stone Cabin Valley                     |
| Table 4-18 – Stone Cabin Valley Existing Wells                          |
| Table 4-19 – Groundwater Summary Hot Creek Basin                        |
| Table 4-20 – Hot Creek Basin Existing Wells                             |
| Table 4-21 – Groundwater Summary Railroad Valley Southern Part          |
| Table 4-22 – Railroad Valley Southern Part Existing Wells               |
| Table 4-23 – Groundwater Summary Railroad Valley Northern Part          |
| Table 4-24 – Railroad Valley Northern Part Existing Wells               |
| Table 4-25 – Groundwater Summary Penoyer Valley                         |
| Table 4-26 – Penoyer Valley Existing Wells                              |
| Table 4-27 – Groundwater Summary Garden Valley                          |
| Table 4-28 – Garden Valley Existing Wells                               |
| Table 4-29 – Groundwater Summary Coal Valley                            |
| Table 4-30 – Coal Valley Existing Wells                                 |
| Table 4-31 – Groundwater Summary White River Valley                     |
| Table 4-32 – White River Valley Existing Wells                          |
| Table 4-33 – Groundwater Summary Pahroc Valley                          |
| Table 4-34 – Pahroc Valley Existing Wells                               |
| Table 4-35 – Groundwater Summary Dry Lake Valley                        |
| Table 4-36 – Dry Lake Valley Existing Wells                             |
| Table 4-37 – Groundwater Summary Panaca Valley                          |
| Table 4-38 – Panaca Valley Existing Wells                               |
| Table 4-39 – Groundwater Summary Escalante Desert Basin                 |
| Table 4-40 – Escalante Desert Basin Existing Wells                      |
| Table 4-41 – Groundwater Summary Clover Valley Basin                    |
| Table 4-42 – Clover Valley Basin Existing Wells                         |
| Table 4-43 – Explanation of Water Rights Database Fields                |
| Table 4-44 – Existing Basin Appropriation Summary                       |
| Table 4-45 – Basin Status Summary- CRC Basins (Groundwater Sources)     |
| Table 4-46 – Basin Status Summary- Non-CRC Basins (Groundwater Sources) |

Table 5-1 – Water Rights Prioritization Scheme

Table 5-2 – Description of Scenario-Tree Decision Criteria

---

### **List of Figures**

- Figure 3-1 – Map of Nevada’s Hydrographic Regions
  - Figure 4-1 – JF-3 Well (U-110)
  - Figure 4-2 – NDOT Well (U-26)
  - Figure 4-3 – Crater Flat 1a Well (U-223)
  - Figure 4-4 – Crater Flat 1 Well (U-226)
  - Figure 4-5 – VH-1 Well (U-143)
  - Figure 4-6 – Narrows South Well 2 (U-212)
  - Figure 4-7 – Springdale Upper Well (U-257)
  - Figure 4-8 – SF-2 Well (U-445)
  - Figure 4-9 – SF-1 Well (U-444)
  - Figure 4-10 – TPJ-1 Well (U302)
  - Figure 4-11 – Lida Valley Well (U-512)
  - Figure 4-12 – Ralston Well (U-518)
  - Figure 4-13 – Hammel Mine Well (U-515)
  - Figure 4-14 – Ralston Valley Well (U-575)
  - Figure 4-15 – Tonopah Test Range Well EH-6 (U-558)
  - Figure 4-16 – Tonopah Test Range Reeds Ranch Well (U-573)
  - Figure 4-17 – Blue Jay Maintenance Station Well (U-670)
  - Figure 4-18 – USGS-MX Well (U-604)
  - Figure 4-19 – New Fred’s Well (U-1377)
  - Figure 4-20 – USGS-MX Well (U-1387)
  - Figure 4-21 – Penoyer Valley (unnamed) Well (U-1337)
  - Figure 4-22 – Pahroc Valley Well (BLM) (U-1390)
  - Figure 4-23 – USGS-MX Well (N. Dry Lake) near west side of valley (U-1394)
  - Figure 4-24 – USGS-MX (S. Dry Lake) Well (U-1510)
  - Figure 4-25 – Water Level Decline in USGS Well (unnamed) (U-1506)
  - Figure 4-26 – Water Level Decline USGS Panaca Valley Well (U-1531)
  - Figure 5-1 – Decision Flow Chart (5.1)
  - Figure 5-2 – Decision Flow Chart (5.2)
  - Figure 5-3 – Decision Flow Chart (5.3)
- 

### **List of Plates**

- Plate 1-1 – Map of Hydrographic Basin Boundaries and Proposed Rail Corridor
- Plate 4-1 – Fortymile Canyon - Jackass Flats Basin 227A Map
- Plate 4-2 – Crater Flat- Basin 229 Map
- Plate 4-3 – Oasis Valley- Basin 228 Map
- Plate 4-4 – Sarcobatus Flat- Basin 146 Map

- Plate 4-5 – Alkali Spring Valley, Lida Valley and Stonewall Flat- Basins 142, 144 and 145 Map
- Plate 4-6 – Ralston and Stone Cabin Valleys- Basins 141 and 149 Map
- Plate 4-7 – Hot Creek- Basin 156 Map
- Plate 4-8 – Railroad Valley (South) and Penoyer Valley (Sand Spring) - Basins 173A and 170 Map
- Plate 4-9 – Railroad Valley (North) - Basin 173B Map
- Plate 4-10 – Coal and Garden Valleys - Basins 171 and 172 Map
- Plate 4-11 – White River Valley- Basin 207 Map
- Plate 4-12 – Dry Lake and Pahroc Valleys - Basins 181 and 208 Map
- Plate 4-13a - Panaca Valley - Basin 203 Map
- Plate 4-13b - Panaca Valley - Basin 203 Map
- Plate 4-14 – Escalante Valley - Basin 197 Map
- Plate 4-15 – Clover Valley - Basin 204 Map
- Plate 4-16 – Water Rights Locations (West)
- Plate 4-17 – Water Rights Locations (North)
- Plate 4-18 – Water Rights Locations (East)
- 

### **Appendix**

- Appendix A – USGS Data- CRC Basins
- Appendix B – Hydrographic Basin Summary (Groundwater)
- Appendix C – Water Rights Abstract Reports
- Appendix D – Basin Decision Matrix
- Appendix E – Well Data Within 1-Mile of CRC





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# Water Resources Assessment

## 1.0 Introduction

### 1.1 Background

Construction of the proposed rail line, referred to in this report as the Caliente Rail Corridor (CRC), would require the use of water during construction activities, which is expected to come largely from groundwater resources. The water used during construction would primarily support construction activities, which include grade compaction, dust control, and concrete production. Potable water will also have to be supplied for workers during the construction process. The general goal of this project is to collect existing information on water resources within the hydrographic basins that may be influenced by the construction along the CRC. This information can be used to during the planning stages of the project and during the development of preliminary strategies that would address the processes that might be involved with obtaining and development of water resources to support construction of the proposed rail line.

The CRC consists of several 1 mile-wide corridors that the Department of Energy (DOE) is currently examining in an Environmental Impact Statement for possible construction of a railroad to Yucca Mountain. The withdrawal of public land within the corridor is also being examined by the Bureau of Land Management (BLM) in an Environmental Assessment (EA).

This report references geographical areas and hydrographic basins, or basins, along the CRC according to the following convention:

1. The CRC consists of two parts; (1) a 1-mile wide corridor (the proposed BLM land withdrawal), which defines the common segment Right-of-Way (ROW), and (2) several identified alternative alignments of the CRC that are included for evaluation.

2. Hydrographic basins (basins) in which any part of the CRC, as defined above, pass through are referenced as CRC Basins. There are 21 basins that meet this geographic criteria.
3. The 40-mile Study Corridor, which is broadly defined as the Study Corridor for purposes of water resources assessment, is a 40-mile wide area along the CRC that was drawn by extending a boundary 20 miles on either side of and perpendicular to the CRC. hydrographic basins that fall within the Study Corridor but outside of the CRC are referred to as Non-CRC Basins. There are 29 basins that meet this geographic criteria.

The information described above is shown graphically in Plate 1-1.

## **1.2 Purpose and Scope**

The objectives of the water resources assessment are the following:

1. Collect, review, and present information regarding the quantity, location, and quality of water resources along with existing water consumption demands within identified basins within the Study Corridor.
2. Support the preparation of an Environmental Impact Statement (EIS) by determining the availability and extent of existing water resources within the Study Corridor.
3. Evaluate alternatives for acquiring water resources along the CRC.
4. Support the preparation of an EIS by performing a preliminary evaluation of water resources and investigation of potential development scenarios associated with construction activities along the CRC.

## **2.0 Literature and Data Review**

Several previous studies have been prepared, which address water resources information in and around the CRC and Study Corridor. In order to support efforts to identify and review literature on existing studies that have occurred within the Study Corridor, Converse developed a digital database of reference material. This electronic database includes references that are generally categorized by the hydrographic basins described in each report. Each reference includes a bibliographic description and, when available, a link to download the report from an online source. In some cases, the references were scanned and archived electronically on a local server where they could be downloaded for viewing purposes.

Data used for this study was obtained from various government and public sources. A summary of pertinent data sources referenced in this report is provided in the following Sections.

### **2.1 Published References**

Most of the initial (historical) water resources-related work within basins along the Study Corridor was performed by the U.S. Geological Survey (USGS) through a series of studies for the Nevada Department of Conservation and Natural Resources (NDCNR) and the State Engineer's office. The first in these series of studies, the results of which were reported in Water Resources Bulletins, was initiated in 1944 under a cooperative arrangement between the USGS and State Engineer then expanded in 1945 by the Nevada Legislature. The next series of studies was initiated by Nevada Legislature in 1960, which resulted in Ground-Water Resources Reconnaissance Series. Both studies resulted from the need for appraisals of the State's water resources in response to increased interest and demand for development of these resources throughout Nevada.

Since the initial series of studies performed by the USGS, additional studies within basins along the Study Corridor have been published, which provided confirmation, and in some cases additional information, beyond the Water

Resources Bulletins and Reconnaissance Series described above. These additional studies were generally performed by the USGS, Desert Research Institute (DRI), Las Vegas Valley Water District (LVVWD), Nevada Division of Water Resources (NDWR), and private consulting firms. In most cases water resources studies along the Study Corridor were performed for an agency of the Federal Government or the State of Nevada.

## 2.2 GIS Data

This project incorporated the use of Geographical Information System (GIS) data to display and review water resources data within the Study Corridor. All GIS data used for this project is organized and stored digitally in a database structure. A summary of the GIS project data used for this project includes the following:

1. **CRC, 1-Mile ROW and Alternate Rail Alignments:** Provided by Bechtel SAIC Company, LLC (BSC).
2. **Political Map Data:** Locations for roads and legal boundaries for cities, towns, county, and the states were provided by BSC. BSC also provided boundary information for the Nevada Test and Training Range (NTTR) and the Nevada Test Site (NTS).
3. **Hydrographic Basin Boundaries for Nevada:** Compiled by Rush (1974), USGS-WRD (Water Resources Division), for the State Engineer. This layer of information is a polygon coverage of the State Engineer's hydrographic basins (basins) for the state of Nevada. The areas were originally delineated in 1968 in collaboration with the USGS (Rush, 1968a). The 1974 map, *Static Ground Water Levels of Nevada*, has become the defacto reference for the hydrographic basins and was used for this project.
4. **Nevada Geology:** Provided by BSC, based on generalized aeromagnetic geology maps from the USGS as digitized from Turner and Bawiec (1991).

5. **Nevada Aquifers:** Delineated aquifer boundaries digitized based on Planert and Williams (1995), Hydrologic Atlas 730-B (California and Nevada).
6. **Elevation Dataset:** This data is based on USGS National Elevation Dataset (NED), which was developed by merging digital elevation data with high-resolution images in raster format. The shaded relief display is derived from NED using a hill-shade technique.
7. **Topographic Information:** Digitized USGS 7.5 minute quadrangle maps.
8. **Well Data:** Information on wells was obtained from NDWR Well Log Database and USGS National Water Information System (NWIS). This data is explained in more detail in the following Sections.
9. **Surface Water Data:** Information on gauged springs and streams was obtained from the USGS-NWIS. This data is explained in more detail in the following Sections.
10. **Nevada Water Rights Data:** Information on Nevada water rights permits, or appropriations, within the 50 Study Corridor Basins was obtained from the State Engineer's Office in Carson City. This data is explained in more detail in the following Sections.

### 2.3 Descriptions of Spatial Data

A database of water resources information was developed for this project, and is referenced in the report as the GIS Project Database. This information was incorporated in a GIS base map for review and display purposes. As described in the following Sections, well and surface water (springs and streams) data were obtained from NDWR and the USGS. Information on water rights were also obtained from State Engineer's office and incorporated into the GIS Project Database described in the preceding Section.

### 2.3.1 NDWR Well Data

The NDWR well data was obtained in the form of a digital database known as the “Well Log Database,” which is available in the public domain from NDWR. This database includes basic information (not including lithology) filed by licensed well drillers when a well is drilled anywhere in Nevada. Well log information includes, but is not limited to, a general and legal description of the well and location, borehole lithology (Well Log Database), well completion information, and well testing data (if available).

NDWR has added to the Well Log Database approximate coordinates for the well locations. Based on information provided by NDWR, the accuracy of well coordinates included in the Well Log Database can vary, in terms of latitude and longitude within the following ranges:

- 1-minute: approximately 6,060 feet
- 10-seconds: approximately 1,010 feet
- 5-seconds: approximately 505 feet
- GPS Data: “accuracy not yet defined”

Note that these ranges of reported coordinate accuracy are based on the legal description (Township, Range, and Section). The State does not require surveyed locations for wells that are filed with NDWR. As a result, many of the well logs have been filed at NDWR with incorrect legal descriptions that, in some cases, cause the well coordinates to be off by as much as several thousand feet within a specific hydrographic basin. In some cases, the well logs include a legal, or location description that places them in the wrong basin altogether. For most of the wells within the 40-mile Study Corridor, the reported coordinates were generally based on the center of the Quarter-Quarter, or 40-acre Quarter, Section descriptions provided on the well log file for each well. Therefore, the well could actually be located anywhere within the described 40-acre Quarter of land. Table 2-1 includes a quantitative summary of the NDWR wells spatially referenced for this project and included in the GIS Project Database. It should also be noted that entries into the NDWR Well Log Database represent an event that has occurred at a well site, which can include the re-drilling or abandonment of an existing well. Therefore, all NDWR Well

Log information should not be treated as representative of well conditions at the time of first construction.

A total of 2,068 wells were listed in the Well Log Database having coordinates within the 40-mile Study Corridor. These wells were broadly placed into two groups; 1) wells that do or could have water rights or 2) wells that generally are not permitted, such as wells with a designation of Unused, Test Well and Monitoring (see Plates 4-1 thru 4-15). All wells with a designation of Domestic (unless a water rights application number was provided on the domestic well log) were removed from the GIS Project Database. Note that in Nevada (NRS 534.180), a water right application and permit are not required to drill a well for domestic purposes, but in some cases they are provided. Wells were also not included in the Project Database if the designated "Work Type" on the log specified that the well was Plugged or Abandoned. Table 2-1 includes a summary accounting for the number of wells and types included for this project. Locations of NDWR well points are shown graphically in Plates 4-1 thru 4-15 for each of the CRC basins. Additional information regarding NDWR wells located within the 1-mile of the CRC is included in Appendix E (based on NDWR Well Log Database).

**Table 2-1: NDWR Wells Summary**

| Number of Wells | Criteria Description  |
|-----------------|---|
| 2,068           | Total number of NDWR wells with coordinate descriptions within the 40-mile Study Corridor   |
| 737             | Number of NDWR wells removed from the project database with "Proposed Use" designations of Domestic (without water right permit application number). Also removed, were 19 of 36 well log entries having "Work Type" designations of Plugged or Abandonment (the other 17 of these 36 entries were included because they listed water right application numbers)  |
| 1,331           | Number of NDWR wells included in the project database of which, 648 well logs had no water rights application number listed and 310 well logs included water rights application numbers that were matched to water rights data.   |
| 268             | Total number of NDWR wells that were spatially moved within the GIS Project Database. This value represents the number of well logs (out of 310 with application numbers) having water rights application numbers that matched the designated application number filed on water rights permit (see following Section). The location described in the actual water right permit data was considered more accurate and therefore used to spatially relocate NDWR wells. |

**2.3.2 Water Rights Data**

Water rights abstract information was obtained from a public database that is maintained by the State Engineer's office at NDWR in Carson City, Nevada. Water rights data included a summary of the information specified in each permit as filed with the State Engineer's office. An overview of the water rights data and how it was used within the context of this project is explained below. Section 4.2 of this report includes a detailed description of the information obtained from the State Engineer's office pertaining to water rights data.



The legal description on the water rights data was used to relate the permit to its corresponding 40-acre Quarter legal Section within the GIS Project Database (described in the preceding Section). It should be noted that the Quarter-Quarter locations for each point of diversion provided in the water rights permit abstracts are considered accurate to within the 40-acre Quarter Section. In general, locations assigned to water right permits are considered to be accurate to the described level because each application must be accompanied by a legal survey, which includes a correctly documented legal description provided by a certified State Water Right Surveyor. The water right applications and rulings are updated by the State Engineer's on a periodic basis and may have up to an 8 to 12 month lag (verbal communication, NDWR). The water right summaries obtained for this project were based upon information on file as of December 2004. A more detailed discussion on specific numbers and types of water rights in various basins that were referenced in this project is included in Section 4.2 of this report. Locations of legal Sections containing underground and surface water rights within the 40-mile Study Corridor are shown graphically in Plates 4-16 thru 4-18. A summary of water rights abstract information for each of the Study Corridor basins is included in Appendix C.

## **2.4 USGS-NWIS Data**

The USGS investigates the occurrence, quantity, quality, distribution, and movement of surface and underground waters and disseminates the data to the public; tribal, state, and local governments; public and private utilities; and other Federal agencies involved with managing Nevada's water resources.

The USGS-NWIS is a large collection of data and information on the water resources of the United States. This data is shared with the public through the World Wide Web via NWISWeb. Within this Web site, data are displayed as graphs, in tables, or on maps. Complete data files can also be downloaded. The database contains current and historical water data from more than 1.5 million sites across the nation.

In 1889, the USGS established its first gauging station in Nevada for providing to the public data about Nevada's water resources. Currently, this database

provides access to water resources data collected at approximately 20,000 sites in Nevada. Online access to this data is organized around the categories listed below in Table 2-2.

**Table 2-2: USGS-NWIS Data Description**

| Data Type        | Description   |
|------------------|---|
| Site Information | Descriptive site information for all sites with links to all available water date for individual site. Site information generally includes (but is not limited to) coordinate location, elevation, date ranges for associated data, hydrographic units, aquifer codes, date of completion and well depth. |
| Real-Time        | Current conditions data transmitted from selected surface water, groundwater and water quality sites.   |
| Surface Water    | Water flow and levels in streams, lakes, and springs.   |
| Groundwater      | Water levels in wells.  |
| Water Quality    | Chemical and physical data for streams, lakes, springs, and wells.  |

The GIS Project Database developed for this project includes spatial data and summary information included with each USGS site. Active hyperlinks were provided for each site (within the Project Database) so that all available site information and time series data (when available) can be retrieved from the NWIS online database. A quantitative summary of the USGS sites is included in Table 2-3 below and graphical locations of USGS sites within the CRC basins are included in Plates 4-1 thru 4-15. Appendix A includes a summary (with Universal Resource Locations (URL)) to USGS data obtained for this project. It should be noted that a USGS site constitutes a location where at least one discrete measurement was made and documented in the NWIS database. Some sites have dedicated gages or monitoring instruments that provide data logging capabilities over specific periods.

**Table 2-3: USGS-NWIS Site Summary**

| Sites Within 40-mile Study Corridor (All 50 Basins)  | Sites In 21 CRC Basins (Within 40-mile Study Corridor)                     |
|--|--|
| Total = 991<br>Wells = 827<br>Springs = 82<br>Streams = 46<br>Unknown = 36                   | Total = 681<br>Wells = 566<br>Springs = 68<br>Streams = 37<br>Unknown = 10 |
| <b>USGS-NWIS sites reporting Water Quality in CRC Basins (Within 40-mile Study Corridor)</b> |  |
| Total = 154<br>Wells = 64<br>Surface (springs and streams) = 90                              |  |

The USGS has documented the coordinate and elevation accuracy for sites included in the NWIS database. Reported spatial accuracy of the USGS data varies based on the information included in Table in 2-4 below. The site information for the USGS wells, springs and streams in the GIS Project Database and Appendix A (USGS Data) includes coordinate accuracy (and the codes shown in Table 2-4) as well as elevation accuracy descriptions for each site. In addition, data tables in Appendix E provide summary information on USGS wells and NDWR wells located within 1 mile of the CRC.

Table 2-4: USGS-NWIS Spatial Accuracy

| Code | Description  |
|------|--|
| H    | Accurate to +/- 0.01 second (differentially corrected GPS)             |
| 1    | Accurate to +/- .1 second (differentially corrected GPS)               |
| 5    | Accurate to +/- .5 second (Precise Positioning Service (PLGR/PPS GPS)) |
| S    | Accurate to +/- 1 second   |
| R    | Accurate to +/- 3 seconds (Standard Positioning Service (SPS GPS))     |
| F    | Accurate to +/- 5 seconds  |
| T    | Accurate to +/- 10 seconds   |
| M    | Accurate to +/- 1 minute   |
| U    | Unknown  |

### 3.0 Water Resources Framework

#### 3.1 Regulatory Framework

In the state of Nevada all sources of water within the boundaries of the State whether above or below ground belong to the public as defined by NRS 533.025. Individuals or entities within the State can apply for the right to use that water. Nevada Water Law is founded on the doctrine of prior appropriation – “first in time, first in right” (Shamberger, 1991). Nevada Water Law is set forth in Nevada Revised Statutes (NRS), Chapters 533 and 534. There are also numerous court decisions that have helped define Nevada Water Law through the years as well. The NDWR is responsible for the appropriation, adjudication, distribution, and management of water in the State. The appointed administrative head of this division is the State Engineer who serves as the water rights administrator of the State. To carry out these duties the State Engineer is vested with broad discretionary powers (NDWR, 1992)

All water rights are considered real property and thus are conveyed by deed. Water rights can be bought and sold, and the location and type of use changed.

There are generally three main components of appropriative water rights in Nevada, which consist of the following:

1. Beneficial use, which is the measure and limit of the right to the actual water used.
2. Rights are stated in terms of definite quantity, manner of use, and period of use.
3. A water right can be lost by abandonment or forfeiture.

### **3.1.1 Appropriation of Public Waters**

Subject to availability of unappropriated water, existing rights, and the public interest, water may be appropriated for any beneficial use. Where there is unappropriated water in the source, and where the proposed use or change does not tend to impair the value of existing rights, or to be otherwise detrimental to the public interest, the State Engineer is required by statute to approve the application (NDWR, 2000). However, because the basis of the water law in Nevada is the prior appropriation doctrine, all rights are issued subject to prior rights on the source. The date of priority is the date the original application was received by the State Engineer at the NDWR office in Carson City. All permits bearing an earlier date are "senior" and all permits bearing a later date are "junior" (NDWR, 2000).

The general policy of the State Engineer is to limit groundwater withdrawals from a basin to the average annual recharge, or perennial yield, to the groundwater basin (also referred to as hydrographic basin). By definition, the perennial yield of a groundwater basin is the maximum amount of natural discharge that can be salvaged each year over the long term by pumping without bringing about some undesired result, such as static water level decline beyond a reasonable limit.

A permit to appropriate water grants the right to develop a certain amount of water from a particular source for a certain purpose and to be used at a

definite location. This right can become a perfected appropriation only upon: (1) completion of the works of diversion; (2) the placing of the water to beneficial use; and (3) filing the proofs required. A right may be lost to the holder of the permit if he fails to meet the statutory requirements (NDWR, 2000 and NRS 533).

### **3.1.2 Application Process**

In order to acquire a water permit, an application must be made in accordance with requirements described in NRS 533.325. Accordingly, no application shall be for the water of more than one source to be used for more than one purpose (NRS 533.330). Once an applicant submits the appropriate documentation describing the desired new water right according to statutory requirements, a notice must be sent to a newspaper of general circulation in the area where the application was filed. This notice is published for approximately 30 days (NRS 533.360). Interested parties may file a formal protest up until 30 days after the last day of publication explaining their objections to the application and requesting denial of the application or other appropriate action by the State Engineer (NRS 533.365).

After expiration of the protest period, the application is deemed "ready for action" by the State Engineer. By definition, "ready for action" implies that the period of waiting has passed for public recording and the application is ready for review by the State Engineer with the ultimate outcome of denial, modification or permitted as applied. When considering an application for approval or denial, the State Engineer must consider the following:

1. Is there unappropriated water at the source?
2. Will the specified use of the water under the proposed application conflict with existing rights?
3. Will the use of the water under the proposed application prove detrimental to the public interest?

4. Will the use of the water under the proposed application adversely impact domestic wells?

In addition to these items, other criteria within the NRS 533.370 deal with impacts within irrigation districts, the good faith intent of the applicant to construct the works of diversion and put the water to beneficial use. Furthermore, the State Engineer may require any additional information needed prior to approval or rejection of an application (NRS 533.375) in order to assist in determining the appropriate action on the application. The application process described above generally applies to applications for temporary appropriations as well.

#### **3.1.2.1 Required Proofs**

The application can either be approved as requested, reduced in rate of flow and volume and then approved or denied. If approved the application will become a permit, and it will be imposed with terms and conditions of performance. A "Proof of Completion" affidavit must be filed on or before the stipulated due date. The proof of completion is a description of the improvements, which enable the permittee to divert water to the proposed place and proposed use, e.g., the construction and equipping of a groundwater well.

The "Proof of Beneficial Use" is the final proof required by the terms of the permit. The time requirements for filing this proof depend on the amount and type of work contemplated by the permit holder when the application was filed. The time may also be subject to what the State Engineer determines is a reasonable time to accomplish beneficial use. The State Engineer may also grant time extensions. In general, good faith and reasonable diligence are the statutory criteria guiding the State Engineer (NRS 533.395) in considering extensions of time.

A permit holder may place less water (on less land, for example, if for irrigation purposes) than granted on the permit. However, when this occurs, the water right is then limited to that which was actually put to beneficial use. If the permittee has filed a "Proof of Beneficial Use" and then wants to expand to the originally permitted acreage (in the case of permits for irrigation water), or use the water for it at a later date, the permittee must obtain another permit.

Once the proofs have all been filed and the other terms of the permit complied with, the State Engineer prepares a "Certificate of Appropriation" describing the use to be made of the water as shown on the "Proof of Beneficial Use." At this point the permit is designated as a certificated permit, which is subject to those terms and conditions on that specific permit. These terms and conditions consist of general provisions stating that the permit is subject to all prior rights on the source, measuring device requirements and any special limitations or conditions that the State Engineer may impose. Diversion rates and annual duty of water that may be used are also set forth in the permit terms. Note that a certificated water right may be lost by forfeiture and/or abandonment. In addition, the State Engineer may grant an extension of time to work a forfeiture, provided a proper request to do so is submitted prior to the five (5) successive years of no use subject to conditions and limitations provided by NRS 534.090.

### **3.1.2.2 Diversion Rate and Annual Use**

The amount of allowable diversion in cubic feet per second (cfs) is set out in the permit terms. This amount depends on what the applicant requests and what the State Engineer finds is reasonably necessary for the use sought in the application. Generally, the applicant is allowed the diversion needed to provide a sufficient head of water for distribution, but is limited to a seasonal or annual duty of water. The amount of water the permit holder will be allowed to divert annually, or the duty, is the limitation noted. The State Engineer determines this duty from data and information showing the actual amounts needed in the same geographical area for existing permitted uses of the same type. Or, if the permit is for water to be used on land subject to a court decree, the duty allowed by the court may be used (NDWR, 2000).

When the water appropriated from a source is going to be used to supplement water already supplied from other sources, the duty allowed will be limited to the amount necessary to reasonably fulfill the purpose of the use from all sources. For example, an owner has a parcel of land having an annual duty of four (4) acre-feet from each of two (2) or more sources for that parcel, will still



be limited to a combined total duty of four (4) acre-feet from any and all sources.

### **3.1.2.3 Assigning and Conveyance of Water Rights**

All water rights in Nevada are issued subject to prior rights on the source. Once a permit is granted, the water must be used on the land and for the purpose described in the permit. A water right can be severed from the land only with the consent of the owner of record as reflected in the permit record in the NDWR office.

It is possible to buy or sell water rights and change the water's point of diversion, manner of use and place of use by filing the appropriate application with the State Engineer. Water rights in Nevada have the standing of both real and personal property, meaning they are conveyed as an appurtenance to real property unless they are specifically excluded in the deed of conveyance. When water rights are purchased or sold as personal property or treated as a separate appurtenance in a real-estate transaction, the water rights are conveyed specifically by a deed. Every water right conveyance document must be filed in the Office of the County Recorder in each county where the water is applied to beneficial use or diverted from its source. Upon transfer of a water right a "Report of Conveyance" must be filed with the State Engineer. The State Engineer shall confirm the Report of Conveyance upon the proper filing of the report, the payment of the prescribed fees, provided no conflict exists in the chain of title, and the State Engineer is able to determine the rate of diversion and the amount of acre-feet or million gallons from the conveyance document. The water right number should be listed in each document.

### **3.1.3 Designated Underground Basins**

In certain hydrographic basins where the State Engineer has determined that groundwater is being depleted, that basin may be declared as a "Designated basin" as provided by NRS 534.120. This designation provides the State Engineer far-reaching administrative capacity to impose additional conditions and restrictions on water use originating from that basin. A Designated basin is not "closed" to additional appropriations; however, preferred uses are

imposed. Preferred use generally includes water for domestic, municipal, quasi-municipal, industrial, mining and stock-watering uses, and any uses for which a county, city, town, public water district or public water company furnishes the water. It should be noted that temporary permits may be issued in Designated basins, but can be limited in time of use and may be revoked if and when water can be furnished by an entity such as a water district or municipality presently engaged in the area.

Prior to drilling a well in a Designated basin, a permit to appropriate water is required as provided in Subsection 1 of NRS 534.050. However, upon written application and a showing of *good cause*, the State Engineer may issue a waiver of the requirement of Subsection 1 (NRS 534.050): *1) For exploratory wells to be drilled to determine the availability of water or the quality of available water; 2) To allow temporary use of the water in constructing a highway...* Subsection 3 (NRS 534.050) also specifies that in other basins or portions of basins which have not been designated by the State Engineer no application or permit to appropriate water is necessary until after the well is constructed and water developed, but a permit must be obtained prior to diversion of water from the constructed well, pursuant to the provisions of NRS 533. However, Subsection 4 (NRS 534.050) provides the State Engineer the authority to issue a written waiver of the requirements of Subsection 3 (NRS 534.050), to allow *temporary use of water in constructing a highway...*

#### **3.1.4 Application to Change**

The point of diversion and place and manner of use of an existing right or portion thereof (permitted, certified, vested) may be changed subject to statutory criteria and approval by the State Engineer (NRS 533.345). Permanent applications to change follow the same review process as an original application. The statutory criteria for approval is contingent upon the proposed change not impairing existing rights or be detrimental to the public interest. Changes in the manner of use are common; however, certain changes may be restricted due to their preferred status. For example, agricultural rights are frequently changed to municipal, commercial, industrial, and recreational uses. As described in the previous Section, preferred uses can be declared by the State Engineer and proposals to changes in the manner of use

from a preferred use to a non-preferred use may not be approved (NRS 534.120). For example, municipal rights, mining, and milling rights may not be changed to irrigation. In addition, when two or more water rights cover the same place of use, an application to change must be filed to change all water rights. For example, if two irrigation water rights are approved to irrigate the same acreage, one right cannot be removed without removing the second right.

In some cases changes to permits are necessary and allowed while the right is still being perfected. In 1993, the Nevada legislature expressly provided that before water has been applied to its intended use under a permit, the *...place of diversion, manner of use or place of use...* may be changed (White and Jankowski, 1999)

#### **3.1.4.1 Temporary Changes and Transfers**

The State Engineer may approve an application for a temporary change of point of diversion, manner of use, or place of use of water already appropriated without publication of a notice of the application, provided that the prescribed fees are paid and the temporary change is in the public interest and does not impair water rights held by other persons. A "temporary change" permit can be granted for any period not to exceed one year. NRS 533.345 further states that, *If the State Engineer determines that the temporary change may not be in the public interest, or may impair the water rights held by other persons, he shall give notice of the application as provided in NRS 533.360 and hold a hearing and render a decision as provided in this chapter.* However, even though public notice is not required for temporary permit changes, in accordance with NRS 533.363 the State Engineer is required to notify the county commission for applications to use water in the county other than that in which it is appropriated or currently diverted or used.

As provided by NAC 534.446 a waiver to use water for *construction of highway* can be issued by the State Engineer to allow the *temporary use of water from an existing well for the construction of a highway, or to drill a well and use the water from the well for the construction of a highway.*

### 3.1.5 Interbasin Transfers

Due to the state's arid climate and limited water resources, transferring water from one basin to another has been occurring in Nevada since 1873. Under NRS 533.370 the *Interbasin transfer of groundwater means a transfer of ground water from which the proposed point of diversion is in a different basin than the proposed place of beneficial use.* In determining whether an application for an Interbasin transfer of water should be approved or rejected, under NRS 533.370 the State Engineer must consider:

1. Whether the applicant has justified the need to import the water from another basin
2. Whether a conservation plan has been adopted and is being effectively carried out. If the State Engineer determines that such a plan is advisable for the basin into which water is to be imported.
3. Whether the proposed action is environmentally sound as it relates to the basin from which the water is exported.
4. Whether the proposed action is an appropriate long-term use that will not unduly limit the future growth and development in the basin from which the water is exported.
5. Any other factor(s) the State Engineer determines to be relevant.

The applicant may also work with the county from which the water is proposed to be transferred to develop a plan to mitigate adverse economic impacts of the transfer. If a plan cannot be agreed to, the county (with the approval of the State Engineer) has the option to impose an annual fee on the water transferred (NDWR 2004a). The amount of the fee is defined in NRS 533.438.

## 3.2 Hydrogeologic Framework

### 3.2.1 Physiographic Setting

For hydrologic analysis and water planning and management purposes, the USGS and NDWR through various studies have divided the State of Nevada into fourteen (14) distinct and discrete hydrologic units called Hydrographic Regions (Rush, 1968a). A hydrographic region, or watershed, is broadly defined as a geographic area drained by a single major stream or an area consisting of a drainage system comprised of streams and often natural or man-made lakes. These principal hydrographic regions have been further disaggregated into 256 smaller areas, which the USGS commonly refers to as Hydrographic Areas and Sub-Areas. The NDWR has customarily referred to these sub-areas as Hydrographic Basins, or simply Basins (as used in this report). These smaller divisions into basins typically comprise a valley, a portion of a valley, or a terminal basin.

The CRC crosses four (4) Hydrographic Regions, which include Central (Region 10), Escalante Desert (Region 12), Colorado River Basin (Region 13), and Death Valley Basin (Region 14). The CRC passes through three (3) counties in Nevada — Lincoln, Nye, and Esmeralda. The 40-mile Study Corridor also passes through parts of White Pine and Clark. Nevada's 14 Hydrographic Regions and county boundaries are shown in Figure 3-1.



Figure 3-1 Map of Nevada's Hydrographic Regions

The CRC is situated within the Nevada portion of the Basin and Range Physiographic Province or topographic region (Fenneman, 1931). The Province is characterized by alternating structural basins forming long valleys that are separated by uplifted mountain ranges. Unconsolidated alluvial sediments fill in the basins and with consolidated rock cropping out in the mountains and underlying the alluvial deposits in the basins. This arid to semiarid region has low precipitation and high evaporation. Aquifers exist in the alluvial deposits filling the basins and are recharged through rainfall and snowmelt in the surrounding mountain ranges and flows towards the axes of the valleys through the alluvium.

### 3.2.2 Groundwater Occurrence

Most groundwater recharge in the hydrographic basins along the Study Corridor is derived from winter and spring precipitation. The moisture is

typically stored in snow pack, at elevations of 7,000 feet and higher. A limited portion of the precipitation not lost through evapotranspiration reaches the groundwater reservoirs in the valley either by way of streams, which eventually discharge onto alluvial aprons or by infiltrating directly into fractured consolidated rock in the mountains and percolating vertically and laterally to the valley-fill aquifer. Additional inflow is received from localized intense storms and groundwater recharge through unconsolidated alluvium in the valleys. Natural discharge of groundwater occurs in most basins as a result of spring and seeps, phreatophytes, and interbasin flow. In the latter case, individual basins may be hydraulically linked into regional flow systems, while other basins may be hydraulically isolated.

Groundwater recharge, storage, and flow also depend on geologic conditions. Within the Study Corridor, groundwater occurs both in alluvium and bedrock aquifers in each of the 50 hydrographic basins. In the alluvium, groundwater recharge, flow, storage, and discharge are controlled by the permeability of the unconsolidated sediments. In the bedrock, porosity, permeability, and structure (i.e., faults and fractures) control the recharge, flow, storage, and discharge of the groundwater. In general, bedrock lithology (rock type) and structure is typically complex in the area making groundwater occurrence more difficult to understand and predict than in the alluvium.

Along the Study Corridor, groundwater typically occurs in one or more of the following regional hydrogeologic units (Waddell, et al., 1984):

1. Valley-fill deposits or alluvium
2. Volcanic rocks
3. Clastic sedimentary rocks
4. Carbonate rocks
5. Intrusive and metamorphic rocks

Only the valley-fill deposits and carbonate rock units form major aquifers, with the potential for well yields that can vary from less than 100 to more than 2,000 gpm. The other hydrogeologic units typically yield less than 10 gpm per

well. Although numerous springs are found in association with other rock layers, development of these aquifers is relatively difficult. It is also important to note that well yields for all units can increase significantly where highly fractured bedrock zones exist. The first hydrogeologic unit listed above (alluvium) is the principal unit of interest relative to the Study Corridor, since it can be found within all of the subject basins and is generally more accessible compared to carbonate and volcanic aquifers. Therefore, the most important water-bearing stratum in the Study Corridor is valley-fill alluvium and to a lesser extent and locally, the carbonate aquifer (where present at accessible depths).

### **3.2.3 Valley-Fill Alluvial Aquifers**

The basins within the Study Corridor are typically a fault-bounded basin with adjoining mountain ranges common to the basin and Range Province. These basins are filled with detritus derived from the ranges. The unconsolidated sediment consists of silt, sand, gravel, cobbles, and boulders that are generally deposited within alluvial fans, intermittent streams, and ephemeral lakes. Coarse-grained alluvial fan deposits are typically located near the base of the mountains and grade into and interfinger with fine-grained sand, silt, and clay deposits in the central portion of the valleys. These deposits increase in thickness from the mountain fronts to the center of each valley, where they can be as thick as 5,000 feet or greater. The surficial deposits along the mountain fronts are generally referred to as alluvium even though they typically include the thin veneer of locally derived colluvium and alluvial and eolian (windblown) sediments in the gullies and major canyons extending up the mountain slopes. The thicker fine-grained alluvial sediments in the valley bottoms are also called playa (dry-lake) deposits. Playas are dry lake beds typically found at the bottom of undrained desert basins that are sometimes covered with water during wet periods. Over time, due to these periods of water accumulation followed by periods of evaporation, playa areas tend to accumulate fine-grained sediments and soluble salt deposits, which can impact shallow groundwater (when present).

As stated previously, groundwater in the unconsolidated sediments generally flows from the recharge areas in the surrounding mountains to the axial center



of the basins. The direction of groundwater flow in the near-surface unconfined aquifer generally follows the local topography. Eventually, the unconfined aquifers transition into deeper confined valley-fill aquifers especially where the alluvial fan deposits interfinger with the playa deposits. The low permeability interbeds of playa silts and clays serve as confining layers. A usually temporal and near-surface unconfined aquifer may also be present in the playa area itself which is recharged by lake-forming storm runoff events or occasionally discharges from nearby seeps and springs. Overall flow in the alluvial aquifers is usually restricted to individual hydrographic basins. Interbasin flow in the alluvial aquifers is generally limited (Winograd and Thordarson, 1975).

The areal extent, depth to, and thickness of the valley-fill aquifer is highly variable within the Study Corridor. This variability is found between basins and within each basin itself. Although the alluvium fills basins to significant thicknesses in the central portions of the valleys in many cases, the hydraulic properties of the coarse-grained alluvial fan aprons and deposits surrounding the fine-grained playas are of greater interest in siting wells. As a result, the depth to water combined with the thickness of saturated coarse-grained alluvium is the best criteria for siting production wells in the valley-fill deposits. The ideal well locations are generally located outside the margins of the playa where the alluvial fans begin to interface with the fine-grained deposits particularly in areas situated downgradient from the higher mountain ranges where recharge is the greatest. In some basins, the first wells drilled in these sites will have artesian flow.

#### **3.2.4 Carbonate-Rock Aquifers**

The carbonate-rock aquifer consists of thick sequences of saturated or partially saturated Paleozoic limestones and dolomites (Burbey, 1997). For the most part, the carbonate-rock aquifer underlies the basin-fill aquifers. Flow through the carbonate-rock aquifer generally occurs through fractures and solution features (caves), and is likely to be concentrated in areas of greater fracture frequency or solutioning that parallels hydraulic gradients. In contrast to the valley-fill aquifers, flow in the carbonate-rock aquifer is not basin restricted and this generally occurs on a regional basis.

Recharge to the carbonate-rock aquifer, as with the valley-fill aquifer, is mainly through rainfall and snowmelt in the mountains. However, unlike the basin-fill aquifers, recharge to the carbonate-rock aquifer occurs on a regional basis with some regions contributing significantly more than others. It is therefore quite common for recharge from precipitation to have fallen 100 miles or more from the point of discharge or use (Burbey, 1997).

The carbonate-rock aquifer along the Study Corridor is prevalent toward the eastern portion of the alignment. Carbonate rocks are also present near a small portion of the western CRC near Yucca Mountain. Near the eastern portion of the CRC importance of the carbonate-rock aquifer is two-fold – first as an alternate groundwater source to valley-fill aquifers; and secondly, in mountain areas underlain by permeable carbonate rocks, most of the recharge may enter the carbonate rocks and little water remains to supply runoff and feed the local valley-fill reservoirs. Therefore, in the latter case, the carbonate aquifer may be the only possibility for siting wells. However, the success of carbonate wells is hindered by the usually greater completion depths that may be required combined with the “hit or miss” results of penetrating the fracturing that can produce significant quantities of water given the right geologic conditions. Drilling may also be difficult when penetrating the carbonate aquifer due to the potential to lose circulation within the borehole.

### **3.2.5 Fault Zones**

The Basin and Range Province by its very nature has numerous faults cutting both the mountain blocks and intervening basin fill of the region. Faults can act as either barriers or conduits to groundwater flow (Winograd and Thordarson, 1975). The faulting influence on groundwater flow is dependent on the physical and lithological characteristics of the rock or materials. Faulting of softer, less competent rocks can form crushed and pulverized rock (fault gorge), which would act as a barrier to groundwater flow. Mineralization along faults also can reduce or prevent the transmission of water. Barriers may also result from the fault juxtaposition of more permeable materials with less permeable ones along groundwater flow paths. Faulting of harder, more competent rock can create conduits that allow higher groundwater flow and

storage than surrounding unfaulted rock. Fault zones are also the most common hydraulic links for regional flow systems between individual basins. Successful groundwater exploration programs should consider and incorporate, if relevant, the presence or relationship to faults along with the hydrogeologic units described previously.

### **3.2.6 Water Quality**

The quality of groundwater varies throughout the Study Corridor. In general, groundwater in areas of recharge has low chemical concentrations, but as it moves through the groundwater system to discharge areas (i.e., valley bottoms), it dissolves sediments and rock materials. The extent to which chemical constituents are dissolved is largely determined by factors that include: (1) the solubility, volume, and distribution of the materials; (2) the length of time that the water is in contact with the materials; (3) the distance that the water travels from the point of recharge; and (4) the temperature and pressure within the groundwater system.

In general, the water quality degrades dramatically in alluvial-fill aquifers in close proximity to the playa lakes along the central axis of the valleys (Winograd and Thordarson, 1975). In cases where there is downward leakage of the near-surface aquifers in the playa itself to deeper basin-fill aquifers, the water quality is strongly saline. The water quality of the carbonate-rock aquifer is not only generally uniform and consistent as compared to the valley-fill aquifer but more commonly potable.

Water quality can vary from basin to basin and is not only impacted by hydrogeologic conditions described above, but also man-made surface conditions such as development, irrigation, and agricultural activities. In general, most of the basins within Study Corridor have limited water quality information available. However, a general discussion of specific water quality issues is included below in Section 4.1 for each CRC basin (where available). Additionally, the GIS Project Database includes references to over 150 sites within the 21 CRC Basins where water quality has been measured by the USGS. These sites include direct links to the USGS NWIS database where field

and laboratory analytical results can be reviewed. Links to this information can also be found in Appendix A.

#### **4.0 Water Resources Overview**

The following Section summarizes available data for each hydrographic basin traversed by the proposed CRC. The summaries include narrative descriptions of unique features within each basin, reconnaissance groundwater data including ranges in depths to groundwater, geology, subsurface flow characteristics, water quality, and other pertinent hydrogeologic information. In addition, a summary of existing water rights (Section 4.2) in each basin was developed based on records from the State Engineer's office. The objective of the water rights summary was to provide a quantitative overview of the existing appropriations in each basin within the Study Corridor. The overview also includes details on the status, type of use and approximate quantity of water currently utilized in each basin.

Each basin described in Section 4.1 has an accompanying GIS base map, which includes graphical representations of relevant information discussed in the following Sections and shown on the enclosed Plates. Note that each well, spring or stream site displayed on these GIS maps (Plates) is based on spatial information obtained from the NDWR Well Log Database and the USGS NWIS database. All USGS sites were assigned unique IDs specific to this project, and displayed on each accompanying basin map (referred to as "Project ID" in Appendix A and Appendix E). These USGS project IDs are also referenced in Figure captions for specific well hydrographs included in the following Sections.

The GIS maps (Plates) that correspond to each basin assessment (below) also include estimated depths to groundwater in each area within a basin where enough information was available to plot groundwater contour lines. These contour lines represent projected depths to groundwater in feet below ground surface (bgs) based upon interpretation of spatial groundwater level data included in the NWIS database for USGS well sites. Some of these USGS well sites list groundwater level data from the early 1900s to as recently as 2005. However, the reported dates of water level measurements in each basin vary, in

some cases, significantly (by several years). In general, the USGS most consistently report groundwater levels between 1982 and 1984 and most wells included data either before 1982 or after 1984. Some wells even included data both prior to and after the 1982 to 1984 period. Generally, reported groundwater level measurements prior to 1982 were considered historical and groundwater level measurements in or after 1984 were considered recent. The groundwater depth contours shown in the basin maps are considered to be represent estimated depths to groundwater over recent years. Note however, in some areas where spatial coverage of data was lacking historical measurements were supplemented. In addition, reported measurements were also supplemented from groundwater levels included in NDWR well log data, which are based on the time each well was drilled.

Also included in the following Sections (4.1) for each basin are tables that provide a summary accounting (by type) of each NDWR well that was listed in the NDWR Well Log Database. There are also references (within each basin description) to the number of USGS wells in the basin. Note that generally, the number of USGS well sites does not always agree with NDWR wells listed in each basin. This is because the USGS only reports data on wells that it can access or are included in various projects that have taken place in the basin, while the NDWR Well Log Database (theoretically, but not always the case) includes every well that has been drilled in the basin.

## **4.1 CRC Basin Assessments**

### **4.1.1 Fortymile Canyon - Jackass Flats (Basin 227-A)**

Fortymile Canyon-Jackass Flats is an arid basin located within southwestern corner of the NTTR as shown in Plate 4-1. The basin boundary extends southwest to the southwestern boundary of the NTS north of Amargosa Junction, Nye County, and covers an area of approximately 250 square miles. The Fortymile Canyon-Jackass Flats basin has been extensively studied in conjunction with the Yucca Mountain Project. Some of the more recent reference material reviewed as part of this project related to the hydrogeologic aspects of particular interest included Belcher (2001, 2002, and 2004), Fenelon and Moreo (2002), Locke (2001) and USGS (2004).

The estimated perennial yield for this basin ranges from 880 acre-ft annually (Thiel, 1999) to 4,000 acre-ft annually (AFA) according to Turnipseed (1992). Based on a 1979 Designation Order by the State Engineer (NDWR, 1979), there are no committed resources in Fortymile Canyon (227A). However, as shown in Appendix B, NDWR's Water Rights Database lists nearly 60 AFA in committed resources for this basin. This discrepancy appears to be related to the location of the boundary of Fortymile Canyon (227A) and Amargosa Desert (230). Nearby groundwater production is from valley fill deposits at Amargosa Junction outside of and near the southern boundary of Fortymile Canyon (227A), which is common with the Amargosa Desert boundary.

Recharge in the entire Fortymile Canyon basin (227A and 227B) has been estimated to range from 690 AFA (D'Agnese, 1997) based on a percentage of mean annual precipitation to 2,330 AFA (D'Agnese, 1997) based on the Maxey-Eakin method. Average annual precipitation is approximately 3 to 4 inches (Czarnecki, 1984). There is no surface discharge of groundwater in the basin. Deep groundwater flow is to the south-southwest into the Amargosa basin area (Laczniak et al. 1996). Limited groundwater inflow from the north likely occurs in the poorly transmissive volcanic rocks.

**Table 4-1. Groundwater Summary Basin 227A**

| Element                     | Quantity (AFA) | Notes  |
|-----------------------------|----------------|--|
| <b>INFLOW</b>               |                |  |
| Recharge from Precipitation | 690 to 2,330   |  |
| Subsurface Inflow           | Minor          |  |
| <b>OUTFLOW</b>              |                |  |
| Evapotranspiration          | Minor          |  |
| Springs                     | Minor          |  |
| Subsurface Outflow          | Unknown        |  |
| Pumpage / Irrigation        | 200            | Lopes and Evetts (2004) for 227A and 227B  |
| <b>COMMITTED RESOURCES</b>  | 0 - 58         | No committed resources based on boundary location from NDWR (1979), 58 AFA based on current Water Rights Database from State Engineers Office. |
| <b>PERENNIAL YIELD</b>      | 880 - 4,000    | 880 AFA (Thiel, 1999), 4,000 AFA (Turnipseed, 1992)  |
| <b>STORAGE</b>              | Unknown        |  |

Most of the groundwater storage in the basin occurs in valley fill deposits at the southern end of the basin. Monitoring wells placed in the central parts of the basin generally are completed in saturated conditions in volcanic rocks at depths of 750 feet or more and in many cases below alluvial deposits. Most of these wells were installed for purposes of monitoring conditions at the Yucca Mountain Project and the NTS. The volcanic rocks generally exhibit low porosity and are not be suitable for groundwater production except in major fractured areas.

Within Jackass Flats (Basin 227A), 15 new or replacement wells are documented in the NDWR Well Log Database (NDWR, 2005), but only 3 of these are production wells and the remaining 12 are monitoring wells.

Table 4-2. Forty- Mile Canyon-Jackass Flats Existing Wells

| Well Use        | Number of Wells |
|-----------------|-----------------|
| Commercial      | 1               |
| Domestic        | 2               |
| Monitoring Well | 12              |

The USGS NWIS database (USGS, 2005) included monitoring data from 88 wells in the basin. A review of this data indicated that groundwater levels vary widely from 38 to 2,145 feet (bgs).

Although water levels in Jackass Flats (Basin 227A) may appear to have been increasing in recent years, Fenelon and Moreo (2002) state that there is no statistically significant water level trend in the area. Data from monitoring well JF-3 (Figure 4-1) located in the southwestern part of the basin is typical of the reported changes in the water levels from aquifers within many parts of the volcanic rocks.

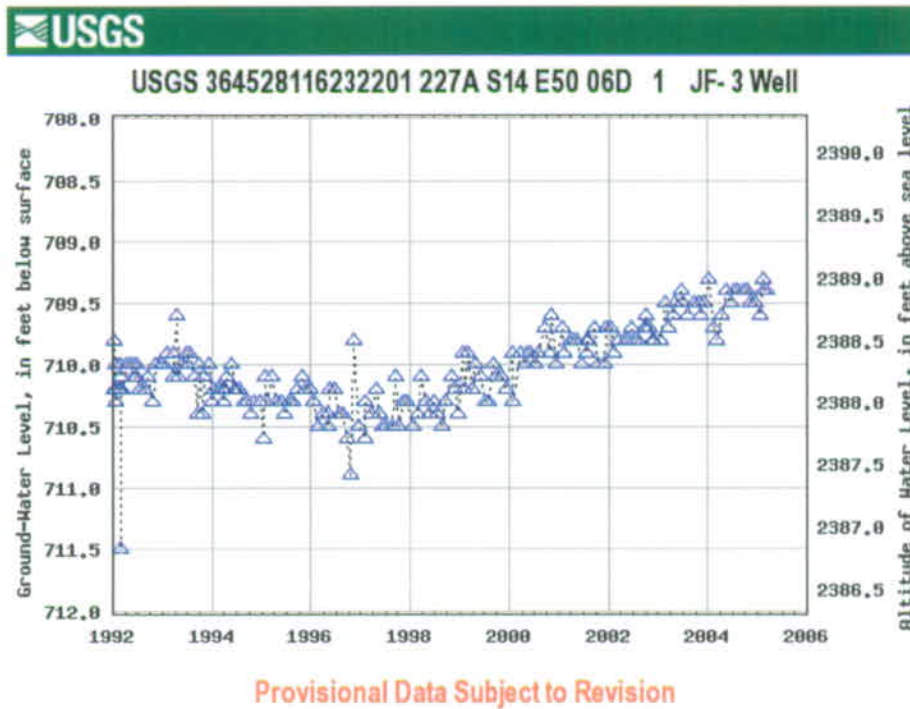


Figure 4-1. JF-3 Well (U-110)



The 3 production wells listed in the NDWR Well Log Database (NDWR, 2005) have been developed in valley fill near Amargosa Junction. The most recent, completed in 1984, had a static water level of 60 feet (bgs). Two older nearby wells also in valley fill have static water levels of 350 and 380 feet (bgs). Groundwater is very deep near the CRC, generally in the range of 700 to 1,200 feet (bgs).

Recent trends in groundwater levels within the lower-elevation basin fill area are represented by an NDOT well at the State park in Amargosa Junction (Figure 4-2). Although this well is located just outside the boundary of Basin 227A in Amargosa Basin, flow is considered to be continuous between these basins. Groundwater levels have generally remained stable at a depth of approximately 342 feet (bgs) during the time that the USGS has monitored this well. Fenelon and Moreo (2002) indicated significant groundwater declines farther south in Amargosa basin but this is not evident in Figure 4-2.

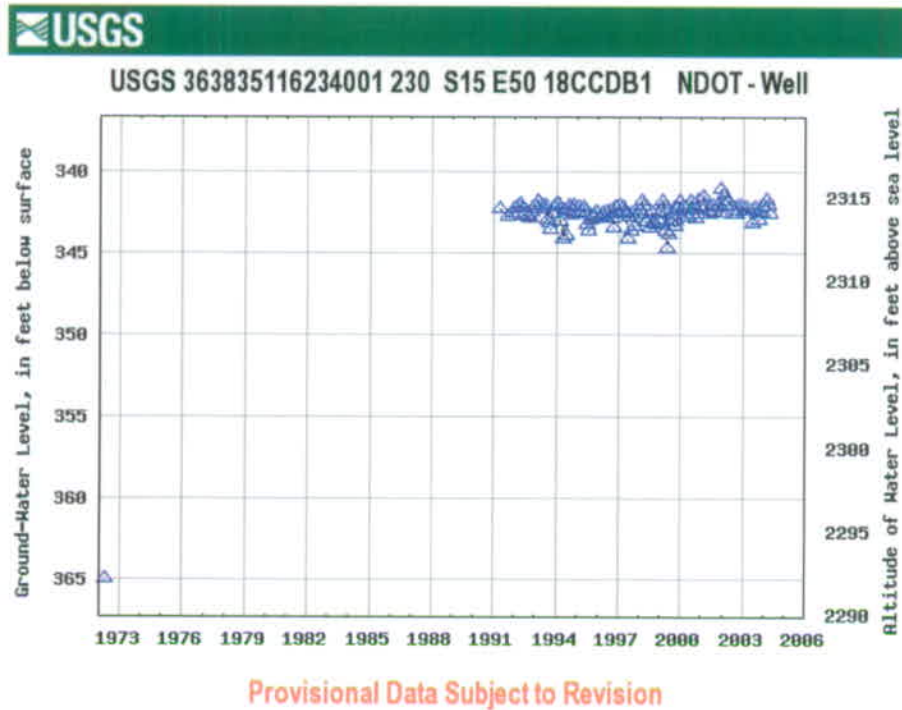


Figure 4-2. NDOT Well (U-26)

**4.1.2 Crater Flat (Basin 229)**

Crater Flat (Plate 4-2) is an arid basin located between the town of Beatty, Nevada and the southwestern corner of the NTS. It extends to the north from US 95 in Nye County, and covers an area of 182 square miles.

The perennial yield for this basin has been estimated to be in the range of 220 to 1,000 AFA (Thiel, 1999) with committed resources of 1,516 AFA (NDWR, 2004b). Average annual precipitation is approximately 4 to 5 inches (Czarnecki, 1984). Recharge in the Crater Flat has been estimated to be in the range of 119 AFA (D’Agnese, 1997) based on percentage of mean annual precipitation to 209 AFA (D’Agnese, 1997) based on the Maxey-Eakin method. There is no surface discharge of groundwater in the basin. Deep groundwater flow is to the south-southeast into the Amargosa basin area (Laczniak et al. 1996).

**Table 4-3. Groundwater Summary Basin 229**

| Element                     | Quantity<br>(AFA) | Notes                   |
|-----------------------------|-------------------|-------------------------|
| <b>INFLOW</b>               |                   |                         |
| Recharge from Precipitation | 209               |                         |
| Subsurface Inflow           | Unknown           |                         |
| <b>OUTFLOW</b>              |                   |                         |
| Evapotranspiration          | Minor             |                         |
| Springs                     | Minor             |                         |
| Subsurface Outflow          | Unknown           |                         |
| Pumpage / Irrigation        | 90                | Lopes and Evetts (2005) |
| <b>COMMITTED RESOURCES</b>  | 1,516             |                         |
| <b>PERENNIAL YIELD</b>      | 220 - 1,000       |                         |
| <b>STORAGE</b>              | Unknown           |                         |

Sixteen new or replacement wells are documented in the NDWR Well Log Database (NDWR, 2005), but only 4 of these are production wells. The remaining 12 are monitoring wells.

Table 4-4. Crater Flat Existing Wells

| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Industrial              | 2               |
| Mining                  | 1               |
| Public Supply-Municipal | 1               |
| Monitoring Well         | 12              |

Groundwater is very deep near the CRC, generally in the range of 600 to 1,200 feet-bgs (Plate 4-2). The shallowest groundwater occurs where the CRC crosses the northwestern edge of the basin. Groundwater depths generally vary within the range of 180 to 650 feet (bgs) in what appears to be two separate productive aquifers. The shallow aquifer in well Crater Flat 1a (Figure 4-3) located at the former Daisy Gold Mine processing site reflects sharply declining water levels in this particular area. Production in this area is reportedly from clastic sedimentary rocks.

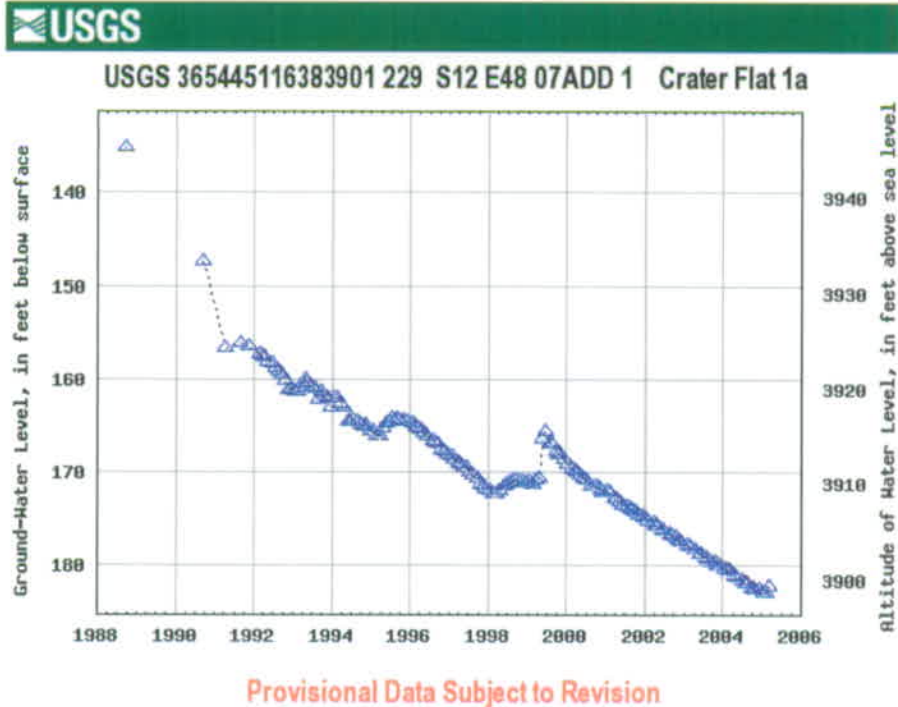


Figure 4-3. Crater Flat 1a Well (U-223)

In contrast, groundwater levels have been stable to slightly increasing in the nearby the Crater Flat 1 well (Figure 4-4) which is completed in a deeper aquifer within fractured volcanic rocks. Production well VH-1 (Figure 4-5) located in the southern part of Crater Flat also is screened in the deeper volcanic aquifer. Water levels in this aquifer have been mostly stable with time.

Limited water quality information is available in the Crater Flat basin. However, Thordarson (1987) reported that the deeper volcanic rock aquifer contains sodium bicarbonate water with TDS values of approximately 270 mg/l.

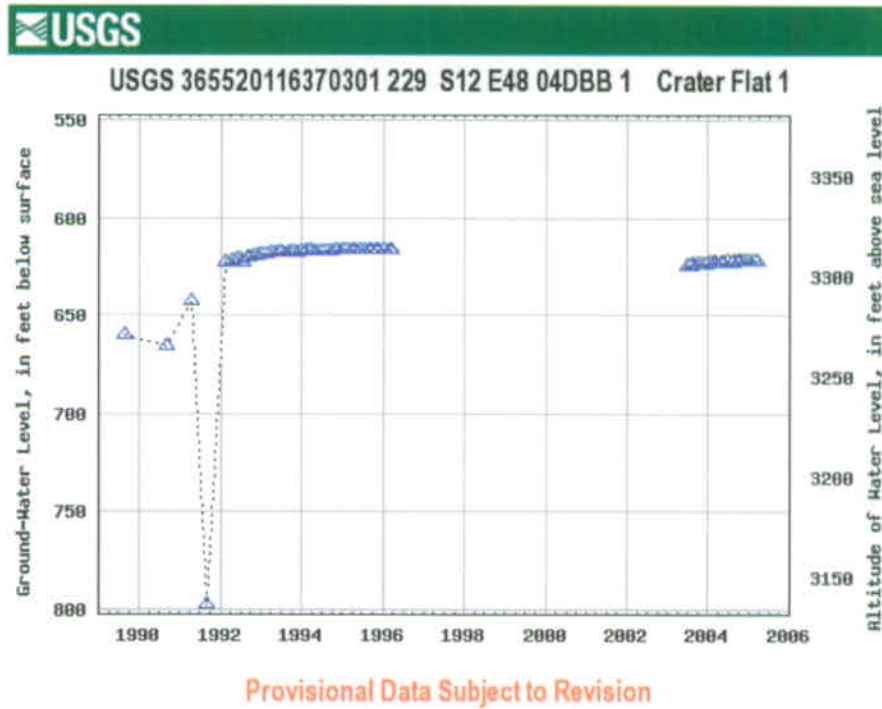


Figure 4-4. Crater Flat 1 Well (U-226)



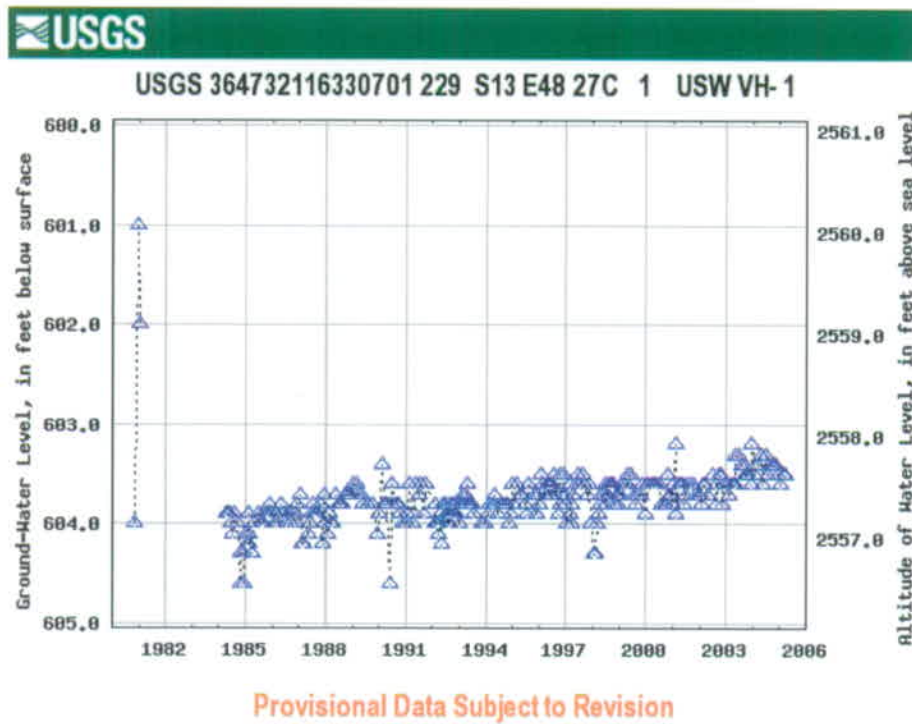


Figure 4-5. VH-1 Well (U-143)

#### 4.1.3 Oasis Valley (Basin 228)

Oasis Valley (Plate 4-3) borders Gold Flat basin to the north, Sarcobatus Flat basin to the west, Amargosa Desert and Crater Flat basins to the south and Fortymile Canyon basins to the south and east (Rush, 1968b). Oasis Valley is located in Nye County and covers an area of 460 square miles (NDWR, 1992). Elevations range from 3,200 feet on the Amargosa River south of Beatty to 7,445 feet at Timber Mountain on the northeast. Except for some areas of Paleozoic carbonate and clastic rocks east of Beatty most of the rocks surrounding the basin are Tertiary volcanic rocks. Groundwater production is generally from alluvial fill along the Amargosa River and fractured zones in the volcanic rocks.

The perennial yield for this basin has been estimated to be in the range of 1,000 to 2,000 AFA (Thiel, 1999) with committed resources of 1,301 AFA (NDWR, 2004b). Estimates of total annual underground production for both municipal and non-municipal users are between 210 and 440 acre-feet (Reiner

et al., 2002). Average annual precipitation in Oasis Valley is approximately 4 to 5 inches (Laczniak et al. 2001). Malmberg (1962) estimated recharge from precipitation to be 250 AFA. Most of the inflow to the basin is groundwater from adjacent basins, in particular from the Timber Mountain area to the east and Gold Flat basin to the north. Groundwater flow is generally from north to south (Laczniak et al. 1996). Malmberg (1962) estimated the total subsurface inflow to Oasis Valley to be approximately 1,800 AFA.

Total groundwater discharge from the basin was estimated to be 6,200 AFA, mostly as evapotranspiration (Reiner et al., 2002) and 2,400 by Malmberg (1962). Basin outflow to Amargosa Valley has been estimated at between 30 and 130 AFA (Reiner et al. 2002) and 400 AFA by Malmberg (1962). This occurs at the south end of the basin where shallow bedrock constricts flow to a shallow narrow channel alluvial. Bedrock flow is considered to be negligible in this area.

**Table 4-5. Groundwater Summary Oasis Valley**

| Element                     | Quantity<br>(AFA)                   | Notes                   |
|-----------------------------|-------------------------------------|-------------------------|
| <b>INFLOW</b>               |                                     |                         |
| Recharge from Precipitation | 250                                 |                         |
| Subsurface Inflow           | 1,800                               |                         |
| <b>OUTFLOW</b>              |                                     |                         |
| Evapotranspiration          | 2,000                               |                         |
| Springs                     | Included with<br>evapotranspiration |                         |
| Subsurface Outflow          | 400                                 |                         |
| Pumpage / Irrigation        | 130                                 | Lopes and Evetts (2004) |
| <b>COMMITTED RESOURCES</b>  | 1,301                               |                         |
| <b>PERENNIAL YIELD</b>      | 1,000                               |                         |
| <b>STORAGE</b>              | Unknown                             |                         |

Eighty-five new or replacement wells are documented in the NDWR Well Log Database (NDWR, 2005). The USGS NWIS database (USGS, 2005) lists water level data for 66 wells. Most water resources development in Oasis Valley has

been from springs. Wells are typically shallow with static water levels from 8 to 150 feet (bgs). Production has generally been from alluvial basin fill material.

**Table 4-6. Oasis Valley Existing Wells**

| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Domestic                | 24              |
| Industrial              | 1               |
| Irrigation              | 3               |
| Monitoring Well         | 40              |
| Other                   | 1               |
| Public Supply-municipal | 7               |
| Stock                   | 2               |
| Test well               | 7               |

Most of the wells in Oasis Valley are completed in the shallow water table (within basin fill) and reflect seasonal variations in water levels. In recent years most wells reflect slight overall declines in water levels, which has apparently been the result of drier (than normal) conditions. IN late 2004 and 2005 levels have increased sharply reflecting the increased rainfall during this time. Examples of this include Narrows South Well 2 (Figure 4-6) located along the Amargosa River immediately south of Beatty Townsite and the Springdale Upper Well (Figure 4-7) located near Springdale. Groundwater depths along the CRC range from 10 to 150 feet (bgs) with the shallowest groundwater along the corridor northeast of Springdale.

Groundwater in much of Oasis Valley contains elevated levels of fluoride typically more than the 4 mg/l Nevada drinking water standard making it unsuitable for drinking water (Malmberg, 1962). Recently the Town of Beatty has installed wells in the Bullfrog Hills that have lower fluoride on the order of 1 mg/l for municipal water (Reiner et al., 2002).

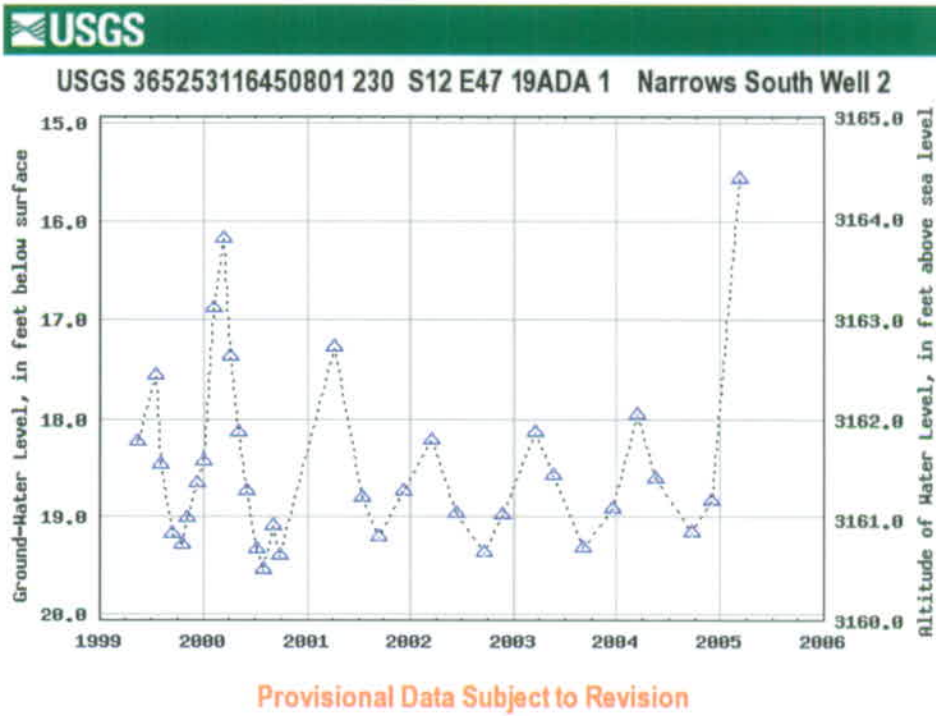


Figure 4-6. Narrows South Well 2 (U-212)

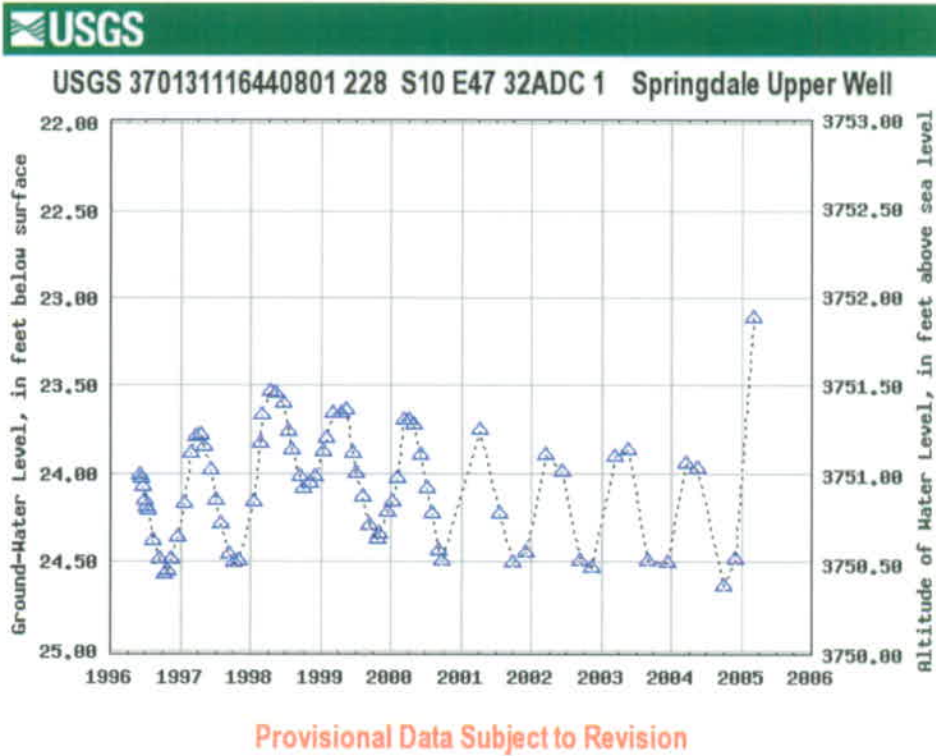


Figure 4-7. Springdale Upper Well (U-257)



#### 4.1.4 Sarcobatus Flat (Basin 146)

Sarcobatus Flat (Plate 4-4) lies to the west of Oasis Valley basin and covers an area of 812 square miles (NDWR, 1992), mostly in Nye County with a small portion extending west into Esmeralda County. The settlement of Scotty's Junction lies in the central part of the basin. Tertiary volcanic rocks comprise the hills surrounding the basin. Elevations range from approximately 4,000 feet at Sarcobatus Flat playa to 8,740 feet in the Grapevine Mountains on the southwest and 8,275 feet at Stonewall Mountain to the north.

The perennial yield for Sarcobatus Flat has been estimated to be 3,000 AFA (NDWR, 1992) with committed resources of 3,586 AFA (NDWR, 2004b). Average annual precipitation in the Sarcobatus Flat is approximately 3.5 inches (Laczniak et al. 2001). Malmberg and Eakin (1962) estimated recharge from precipitation at 1,200 AFA. Basin inflow from Stonewall Flat and Gold Flat basins to the north was estimated to be 2,300 AFA (Malmberg and Eakin, 1962). Surface drainage within Sarcobatus Flat basin is internal to the Sarcobatus Flat playa. Estimates of water lost through evapotranspiration vary widely. Malmberg and Eakin (1962) suggested that about 3,000 AFA whereas Laczniak et al. (2001) suggested 13,000 AFA is lost to evapotranspiration. Malmberg and Eakin (1962) estimated aquifer storage in the basin fill at 24,000 ac-ft per foot of drawdown. Groundwater flow in the basin is generally from the northeast to southwest into Grapevine Canyon basin (Laczniak et al. 1996).

**Table 4-7. Groundwater Summary Sarcabotus Flat**

| Element                     | Quantity (AFA) | Notes                   |
|-----------------------------|----------------|-------------------------|
| <b>INFLOW</b>               |                |                         |
| Recharge from Precipitation | 1,200          |                         |
| Subsurface Inflow           | 2,300          |                         |
| <b>OUTFLOW</b>              |                |                         |
| Evapotranspiration          | 3,000          |                         |
| Springs                     | Minor          |                         |
| Subsurface Outflow          | 500            |                         |
| Pumpage / Irrigation        | 110            | Lopes and Evetts (2004) |
| <b>COMMITTED RESOURCES</b>  | 3,586          |                         |
| <b>PERENNIAL YIELD</b>      | 3,000          |                         |
| <b>STORAGE</b>              | 24,000 ac-ft   |                         |

Thirty-six new or replacement wells are documented on the NDWR Well Log Database (NDWR, 2005) and the USGS NWIS database (USGS, 2005) included 34 wells with water level data. The count of well type by use in the NDWR Well Log Database (NDWR, 2005) is provided in Table 4-8.

**Table 4-8. Sarcabotus Flat Valley Existing Wells**

| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Domestic                | 13              |
| Industrial              | 2               |
| Irrigation              | 10              |
| Monitoring Well         | 4               |
| Other                   | 2               |
| Public Supply-Municipal | 4               |
| Test well               | 1               |

Groundwater depths generally range from 4 feet to 677 feet (bgs) with most static water levels between 10 and 100 feet-bgs (Plate 4-4). Most of the wells are screened in valley fill alluvium; a few monitoring wells are completed in

volcanic rocks on the west side of the basin. Data on changes in water levels with time are very sparse. One valley fill well, SF-2 (Figure 4-8), located about 2 miles west of Scotty’s Junction, reflects slightly increasing water levels over a three-year record. Along the CRC, groundwater depths range from 20 to 180 feet (bgs) with the shallowest groundwater occurrence generally found in the area southeast of Scotty’s Junction.

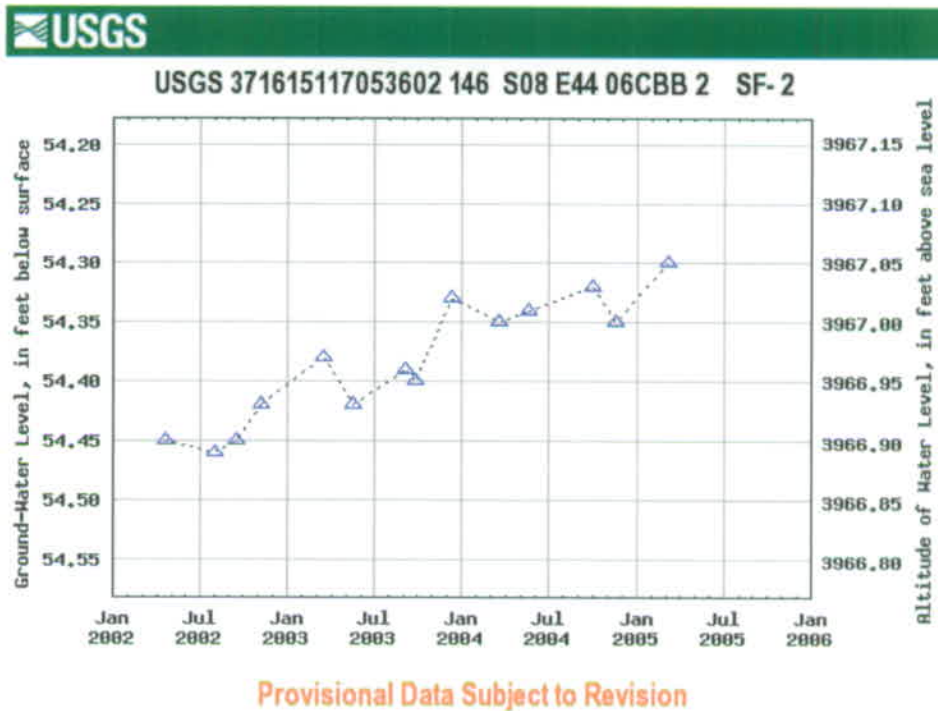
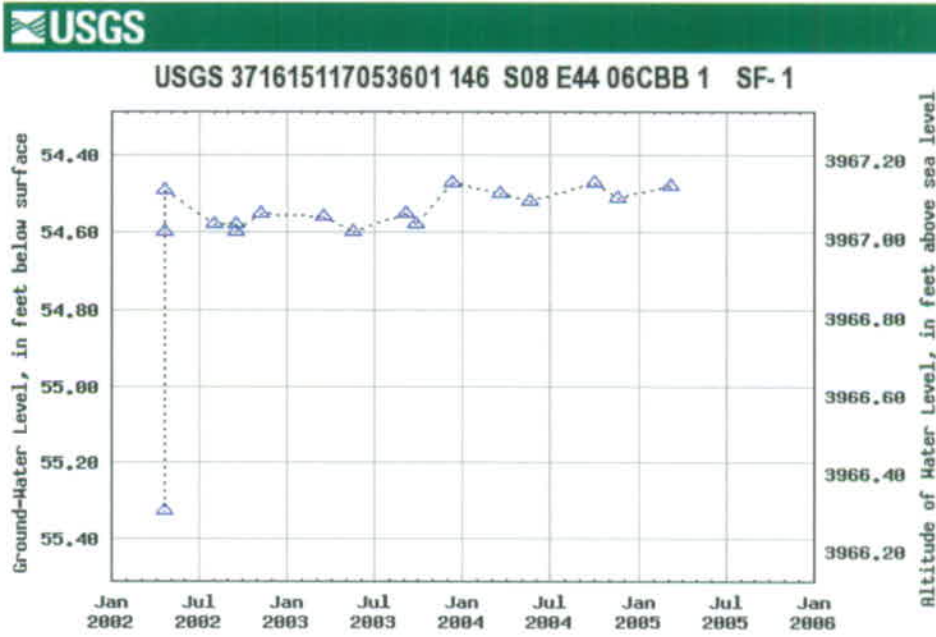


Figure 4-8. SF-2 Well (U-445)

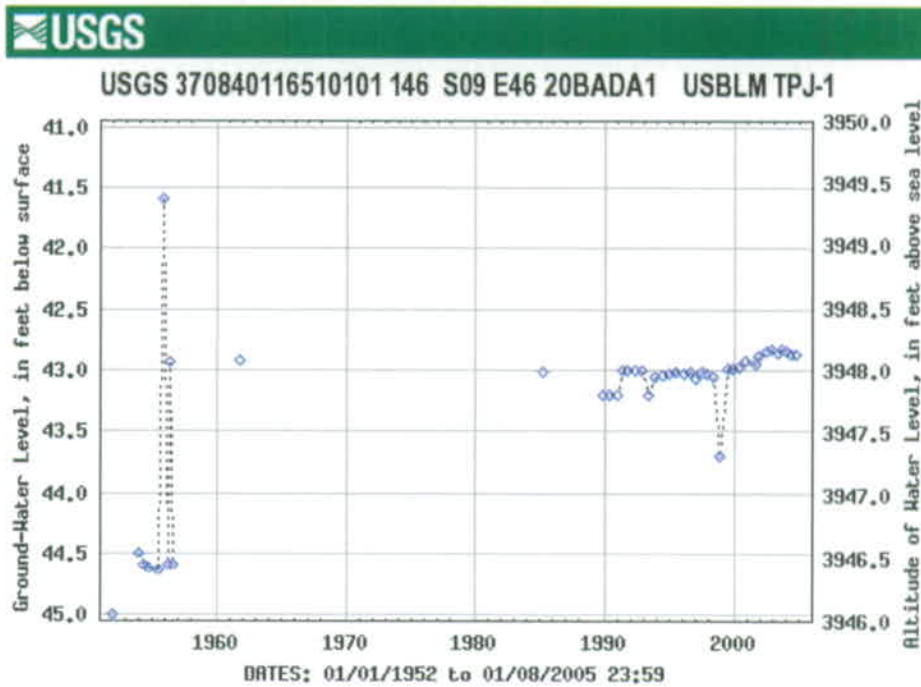
Well SF-1 (Figure 4-9), which is screened in volcanic rocks also shows a similar increasing water level over a recent three-year record. The BLM well TPJ-1 (Figure 4-10) located in the southeastern part of the basin shows generally stable groundwater levels (at a depth of 43 feet) since the start of observations in the 1950s.

Groundwater quality in Sarcobatus Flat contains relatively high levels of sodium bicarbonate with TDS values of approximately 540 mg/l (Malmberg, 1962).



Provisional Data Subject to Revision

Figure 4-9. SF-1 Well (U-444)



Provisional Data Subject to Revision

Figure 4-10. TPJ-1 Well (U302)

**4.1.5 Lida Valley (Basin 144)**

Lida Valley (Plate 4-5) lies to the north of Sarcobatus Flat basin and covers an area of 535 square miles (NDWR, 1992), mostly in Esmeralda County with a small portion extending east into Nye County near Lida Junction. The settlement of Lida is located in the western part of the basin.

The perennial yield for Lida Valley has been estimated to be 350 AFA with committed resources of 226 AFA (NDWR, 2004b). Average annual precipitation in the Lida Valley basin is approximately 5 to 6 inches (Laczniak et al. 2001). Rush (1968b) estimated recharge from precipitation to be 500 AFA. Inflow from Stonewall Flat basin was estimated at 200 AFA (Rush, 1968b). Surface drainage within Lida Valley basin is mostly internal to a playa in the southern part but could perennially drain into the Sarcobatus Flat playa (Rush, 1968b). Losses through evapotranspiration are considered to be negligible since there are no areas of phreatophytes in the Lida Valley basin except for a few small springs near Lida (Rush, 1968b). Historical springs near Lida provided 450 AFA of water for the town of Goldfield (Meinzer, 1917), but the pipeline for this was destroyed in 1919 and not rebuilt (Rush, 1968b). Rush (1968b) also estimated aquifer storage at 600,000 ac-ft.

**Table 4-9. Groundwater Summary Lida Valley Basin**

| Element                     | Quantity (AFA) | Notes                   |
|-----------------------------|----------------|-------------------------|
| <b>INFLOW</b>               |                |                         |
| Recharge from Precipitation | 500            |                         |
| Subsurface Inflow           | 200            |                         |
| <b>OUTFLOW</b>              |                |                         |
| Evapotranspiration          | Minor          |                         |
| Springs                     | 10             |                         |
| Subsurface Outflow          | 700            |                         |
| Pumpage / Irrigation        | 40             | Lopes and Evetts (2004) |
| <b>COMMITTED RESOURCES</b>  | 226            |                         |
| <b>PERENNIAL YIELD</b>      | 350            |                         |
| <b>STORAGE</b>              | 600,000 ac-ft  |                         |

Groundwater flow in the basin is to the northeast then southeast into Sarcobatus Flat basin (Rush, 1968b). Underground water production is limited to a few domestic wells, a municipal well at Lida and stock wells.

**Table 4-10. Lida Valley Existing Wells**

| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Commercial              | 1               |
| Domestic                | 2               |
| Industrial              | 1               |
| Other                   | 7               |
| Public Supply-Municipal | 4               |
| Test well               | 2               |

Water level data is very sparse in the Lida Valley basin. The USGS NWIS database (USGS, 2005) lists only 8 wells located near Lida Junction. The hydrographs for two of these wells shown below have considerable water level data (Figure 4-11 and 12). Groundwater depths generally range from 26 feet at Lida Townsite to 360 feet (bgs) near Lida Junction. Along the CRC, groundwater depths range from 160 feet on the south edge of the basin to 290 feet (bgs) where the CRC enters the basin on the northeast (Plate 4-5). Water levels seem to be stable in the Lida Valley well but declining slightly in the Ralston well.

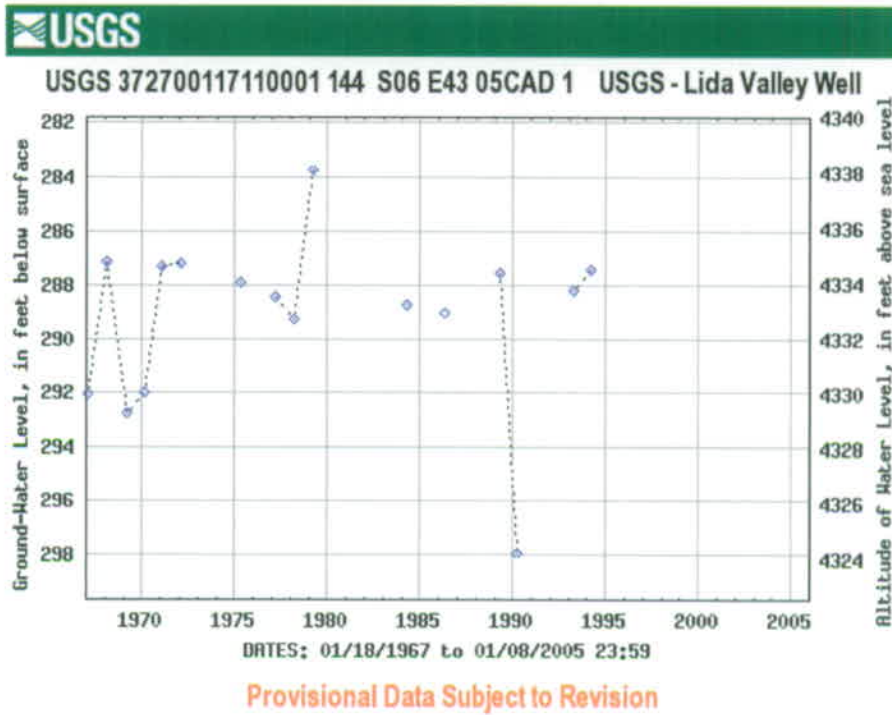


Figure 4-11. Lida Valley Well (U-512)

Table 4-10. Lida Valley Existing Wells

| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Commercial              | 1               |
| Domestic                | 2               |
| Industrial              | 1               |
| Other                   | 7               |
| Public Supply-Municipal | 4               |
| Test well               | 2               |

Water level data is very sparse in the Lida Valley basin. The USGS NWIS database (USGS, 2005) lists only 8 wells located near Lida Junction. The hydrographs for two of these wells shown below have significant water level data (Figure 4-11 and 12). Groundwater depths generally range from 26 feet at Lida Townsite to 360 feet (bgs) near Lida Junction. Along the CRC,



groundwater depths range from 160 feet on the south edge of the basin to 290 feet (bgs) where the CRC leaves the basin on the northeast.

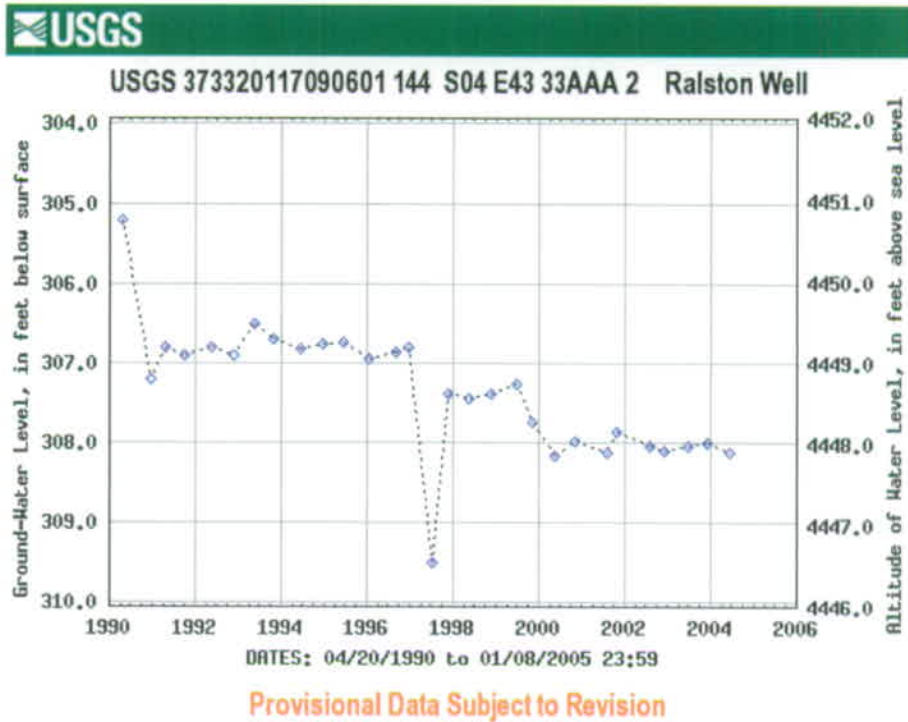


Figure 4-12. Ralston Well (U-518)

Rush (1968b) provides water quality data for 3 wells and 1 spring in the Lida Valley basin. Based upon specific conductance values ranging from 595 to 1,780 microsiemens per centimeter ( $\mu\text{S}/\text{cm}$ ), TDS values in the range of 400 mg/l to 1,100 mg/l are indicated. The well having the highest specific conductance (located near Lida townsite) also contained sulfate of 284 mg/l other wells in the basin and Carter Spring reflected lower sulfate values of 61 to 188 mg/l.

**4.1.6 Stonewall Flat (Basin 145)**

Stonewall Flat (Plate 4-5) lies to the north of Sarcobatus Flat Basin and northeast of Lida Valley Basin. The basin covers an area of 381 square miles (NDWR, 1992) in Nye County near Lida Junction.



The perennial yield for Stonewall Flat has been estimated to be 100 AFA (NDWR, 1992) with committed resources of 12 AFA (NDWR, 2004b). Average annual precipitation in Stonewall Flat is approximately 5 to 6 inches (Laczniaik et al. 2001). Rush (1968) estimated recharge from precipitation at 100 AFA. Groundwater inflow from Ralston Valley is possible but likely only a very minor amount. Surface drainage within Stonewall Flat is internal (Rush, 1968b). Losses through evapotranspiration are considered to be negligible since there are no areas of phreatophytes in the Stonewall Flat basin. Rush (1968b) estimated aquifer storage at 350,000 ac-ft. Groundwater flow in the basin is to the southwest with inflow (minor) from Ralston Valley and outflow to Lida Valley and Sarcobatus Flat (Rush, 1968b).

**Table 4-11. Groundwater Summary Stonewall Flat Basin**

| Element                     | Quantity<br>(AFA) | Notes                                    |
|-----------------------------|-------------------|--|
| <b>INFLOW</b>               |                   |  |
| Recharge from Precipitation | 100               |  |
| Subsurface Inflow           | Unknown           | Inflow from Ralston Valley unquantified. |
| <b>OUTFLOW</b>              |                   |  |
| Evapotranspiration          | Minor             |  |
| Springs                     | Minor             |  |
| Subsurface Outflow          | 200               |  |
| Pumpage / Irrigation        | 10                | Lopes and Evetts (2004)                  |
| <b>COMMITTED RESOURCES</b>  | 12                |  |
| <b>PERENNIAL YIELD</b>      | 100               |  |
| <b>STORAGE</b>              | 350,000 ac-ft     |  |

The NDWR Well Log Database (NDWR, 2005) included only one well in the basin, an irrigation well installed in 1990. The USGS NWIS site references this as the Stonewall well but has no water level data.

Table 4-12. Stonewall Flat Valley Existing Wells

| Well Use   | Number of Wells |
|------------|-----------------|
| Irrigation | 1               |

Water level data is very sparse in Stonewall Flat. The USGS NWIS database (USGS, 2005) lists only five wells of which only one has water level data as shown in Figure 4-13 below. No wells lie along the CRC so groundwater depths are uncertain. Based upon projection from nearby areas groundwater levels likely fall in the range of 120 to 200 feet (bgs).

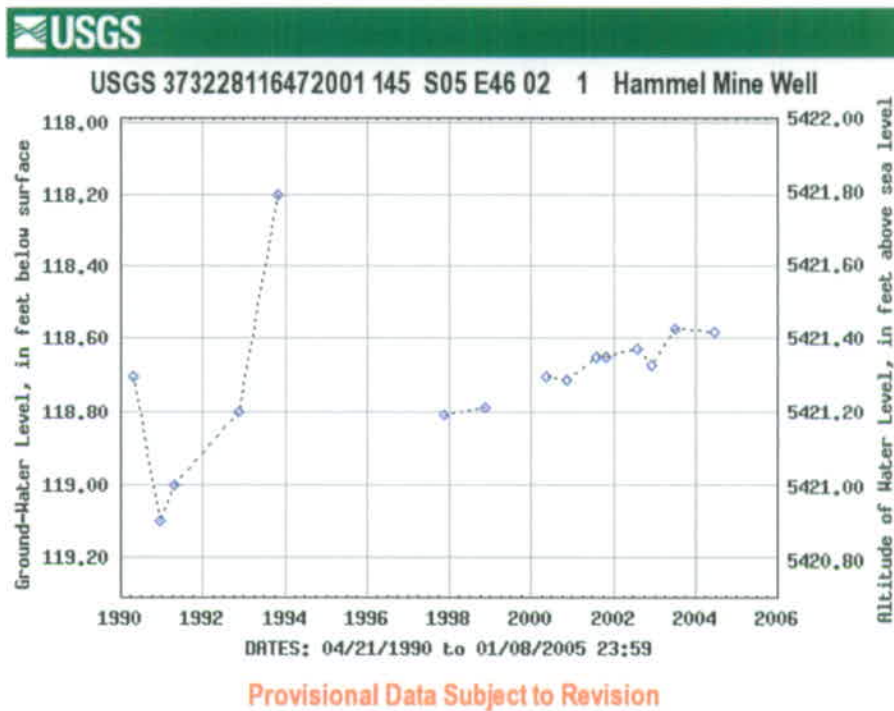


Figure 4-13. Hammel Mine Well (U-515)

Specific conductance measurements from 2 springs (Rush, 1968b) provide the only groundwater quality data for Stonewall Flat. Values of 282 and 418  $\mu\text{S}/\text{cm}$  suggest TDS values of less than 300 mg/l.

**4.1.7 Alkali Spring Valley (Basin 142)**

Alkali Spring Valley (Plate 4-5) lies to the north of Lida Valley. It covers an area of 313 square miles (NDWR, 1992) in Esmeralda County northwest of Goldfield. Elevations range from 4,800 feet at the Alkali Spring Valley playa to 8,373 feet at Montezuma Peak on the south side of the basin (Rush, 1968b).

The perennial yield for Alkali Spring Valley basin has been estimated to be 3,000 AFA (NDWR, 1992) with committed resources of 1,708 AFA (NDWR, 2004b). Average annual precipitation in the Alkali Spring Valley is approximately 4 to 5 inches (Laczniak et al. 2001). Surface drainage within Alkali Spring Valley is internal (Rush, 1968b). Losses through evapotranspiration are estimated at 400 AFA (Rush, 1968b). Recharge through precipitation is estimated to be 100 AFA, and Rush (1968b) estimated aquifer storage to be 30,000 ac-ft within the upper 100 feet of saturated material. Groundwater flow in the basin is to the southwest with inflow from Ralston Valley of 5,500 AFA and 5,000 AFA of estimated outflow to Clayton Valley (Rush, 1968b).

**Table 4-13. Groundwater Summary Alkali Spring Valley**

| Element                     | Quantity<br>(AFA) | Notes                    |
|-----------------------------|-------------------|--------------------------|
| <b>INFLOW</b>               |                   |                          |
| Recharge from Precipitation | 100               |                          |
| Subsurface Inflow           | 5,500             |                          |
| <b>OUTFLOW</b>              |                   |                          |
| Evapotranspiration          | 400               |                          |
| Springs                     | Minor             | Recharges to valley fill |
| Subsurface Outflow          | 5,000             |                          |
| Pumpage / Irrigation        | 30                | Lopes and Evetts (2004)  |
| <b>COMMITTED RESOURCES</b>  | 1,708             |                          |
| <b>PERENNIAL YIELD</b>      | 3,000             |                          |
| <b>STORAGE</b>              | 30,000 ac-ft      |                          |

The NDWR Well Log Database (NDWR, 2005) included 20 wells in the basin, 9 are production wells, while the remainder are test or monitoring wells. Groundwater production is generally from valley fill alluvium. Static water levels in the basin generally range from 28 to 215 feet (bgs) as shown on Plate 4-5. The USGS NWIS database (USGS, 2005) lists 19 wells in the Alkali Spring Valley. Water depths range from 7 to 480 feet (bgs). Most of the USGS sites have only a single water level measurement. No wells lie along the CRC so groundwater depths are uncertain. Based upon projection from nearby areas they are likely in the range of 150 to 300 feet (bgs). Depths to groundwater are approximately 70 to 80 feet (bgs) near one of the alternative alignments for the CRC that passes near Goldfield.

**Table 4-14. Alkali Spring Valley Existing Wells**

| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Industrial              | 1               |
| Mining                  | 4               |
| Monitoring Well         | 6               |
| Other                   | 1               |
| Public Supply-Municipal | 4               |
| Test well               | 4               |

Alkali Spring located on the south side of the basin is the only significant spring in the basin. Meinzer (1917) indicated that the spring produced about 50 gpm at a temperature of 140 °F. The source of this spring is believed to be from volcanic rocks. Although this water was at one time used for a mill at Goldfield it currently is used only for stock watering. Most of the flow is re-introduced into the valley fill aquifer by infiltration within the alluvium (Rush, 1968b).

Water quality ranges widely in Alkali Spring Valley. Water at Alkali Spring is very high TDS sodium sulfate water type and has been described as unsuitable for irrigation (Rush, 1968b). Analyses from various wells however show generally good quality water (Rush, 1968b).

#### 4.1.8 Ralston Valley (Basin 141)

Ralston Valley (Plate 4-6) lies northeast of Alkali Flat. It covers an area of 971 square miles (NDWR, 1992) in Nye County east of Tonopah and extends northwards 65 miles from Mud Lake to include the much higher terrain of the Toquima Mountains. Maximum valley width is about 20 miles. Elevations range from approximately 5,200 feet at Mud Lake playa to 10,600 feet in the Toquima Range in the north (Eakin, 1962).

Mountains surrounding the Ralston Valley consist mostly of Tertiary volcanic rocks in the central and southern parts, and Paleozoic carbonate or clastic rocks in the northern part. Average annual precipitation in the Ralston Valley ranges from about 4.7 inches at Tonopah to more than 8 inches at Belmont in the northern part of the basin, and more than 20 inches in the higher elevations (Eakin, 1962).

Groundwater is used mainly for municipal supply for Tonopah and for livestock. Production is principally from valley fill alluvium. Carbonate rocks in the northern part of the valley near Belmont produce water but yields have generally been low. Limited amounts of water have also been produced from volcanic rocks where fractured (Eakin, 1962).

The perennial yield for Ralston Valley has been estimated to be 6000 AFA (NDWR, 1992) with committed resources of 1,871 AFA (NDWR, 2004b). Eakin (1962) estimated recharge from precipitation at 16,000 AFA. Rush (1968); however, reduced this estimate to 5,000 AFA. Surface drainage within Ralston Valley is internal to the Mud Lake playa (Eakin, 1962). Losses through evapotranspiration occur mostly near the Tonopah well field where groundwater is shallow. Eakin (1962) estimated evapotranspiration at 2,500 AFA. Losses from underflow to Alkali Spring and Stonewall Flat basins are estimated to be 6,700 AFA (Eakin, 1962). Eakin (1962) estimated aquifer storage at 420,000 ac-ft within the first 100 feet of saturated material. Groundwater flow in the basin is to the south with approximately 7,000 AFA of inflow from Stone Cabin Valley in the southern part near Mud Lake and outflow to Alkali Spring Valley and Stonewall Flat (Rush, 1968b).

Most of the recharge in the basin is derived from the Toquima Range to the north and the Monitor Range to east of the basin. Infiltrated groundwater moves to the south within the alluvial valley fill. A bedrock constriction of the valley in T4N, R44E forces groundwater moving south in the valley to rise to near surface (Eakin, 1962). This is in the area of the Tonopah municipal well field where groundwater depths are generally less than 10 feet below surface. South of the constriction in T3N, groundwater depths are on the order of 400 to 500 feet (bgs) as shown on Plate 4-6.

**Table 4-15. Groundwater Summary Ralston Valley**

| Element                     | Quantity<br>(AFA) | Notes                   |
|-----------------------------|-------------------|-------------------------|
| <b>INFLOW</b>               |                   |                         |
| Recharge from Precipitation | 5,000             |                         |
| Subsurface Inflow           | 7,000             |                         |
| <b>OUTFLOW</b>              |                   |                         |
| Evapotranspiration          | 2,500             |                         |
| Springs                     |                   |                         |
| Subsurface Outflow          | 6,700             |                         |
| Pumpage / Irrigation        | 370               | Lopes and Evetts (2004) |
| <b>COMMITTED RESOURCES</b>  | 1,871             |                         |
| <b>PERENNIAL YIELD</b>      | 6,000             |                         |
| <b>STORAGE</b>              | 420,000 ac-ft     |                         |

The NDWR Well Log Database (NDWR, 2005) included 39 new or replacement well entries in the basin and of those except 3 are production wells. Most of the wells lie in the central part of the valley and serve as municipal water supply for Tonopah.

Table 4-16. Ralston Valley Existing Wells

| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Domestic                | 10              |
| Irrigation              | 2               |
| Other                   | 3               |
| Public Supply-Municipal | 12              |
| Recreation              | 1               |
| Stock                   | 8               |
| Test well               | 3               |

The USGS NWIS database (USGS, 2005) lists 29 wells in the Ralston Valley. Water depths range from 6 to 480 feet (bgs). Most of the USGS sites have only a single water level measurement. Groundwater depths in the lower part of the basin near Mud Lake are approximately 230 feet (bgs) as illustrated by the hydrograph for the Ralston Valley Well (Figure 4-14).

No wells lie along the CRC on the west side of Mud Lake so groundwater depths are uncertain. Based upon projection from nearby areas levels are likely in the range of 100 to 200 feet (bgs). Wells on the north side of Mud Lake indicate water depths along this part of the CRC to be between 140 and 220 feet (bgs) as shown on Plate 4-6.

Data on groundwater quality is sparse. Water in the northern and central part of the basin is reported to be good (Eakin, 1962). Eakin (1962) indicates that a well drilled near the Tonopah airport in the southern part of the basin encountered water consisting of high salinity at a depth of 800 feet (bgs). Welch and Williams (1987) show a well located 2 miles northwest of the Tonopah airport with a TDS value of 290 mg/l, but provide no other details.

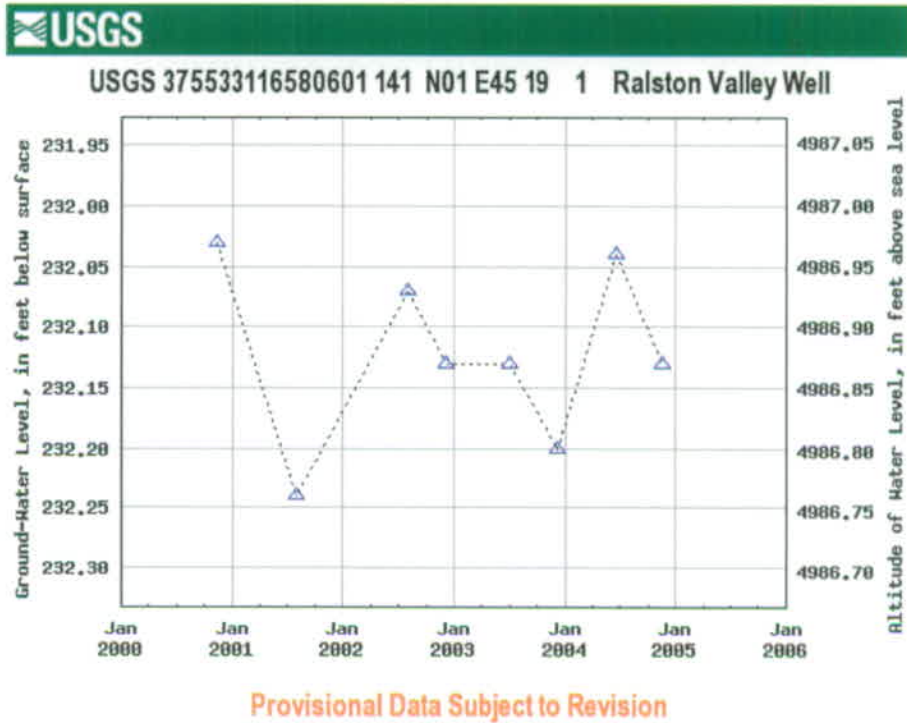


Figure 4-14. Ralston Valley Well (U-575)

**4.1.9 Stone Cabin Valley (Basin 149)**

Stone Cabin Valley (Plate 4-6) lies northeast of Ralston Valley. It covers an area of 985 square miles in Nye County east of Tonopah and extends north to include the much higher terrain of the Monitor Range and the Kawich Mountains to the east (NDWR, 1992). Elevation ranges from 5,200 feet at Mud Lake to 9,600 feet in the Monitor Range at the north (Eakin, 1962). The mountains surrounding the Stone Cabin Valley are composed mostly of Tertiary volcanic rocks. Groundwater is produced primarily from valley fill although water does occur in fractured volcanic rocks in some areas (Eakin, 1962).

Groundwater in the Stone Cabin Valley is used mostly for livestock and irrigation. Wells in the southern end of the valley provide water for the Tonopah Test Range. The perennial yield for this basin has been estimated to be 2,000 AFA (NDWR, 1992) with committed resources of 8,964 AFA (NDWR, 2004b). Average annual precipitation in the Stone Cabin is similar to that for Ralston Valley ranging from about 5 inches to more than 20 inches in the



highest elevations (Eakin, 1962). Eakin (1962) estimated recharge from precipitation at 16,000 AFA. Surface drainage within Stone Cabin Valley is to the Mud Lake playa in the Ralston Valley. Losses through evapotranspiration occur mostly near the Stone Cabin Spring and Stone Cabin Ranch where groundwater is shallow. Eakin (1962) estimated evapotranspiration at 1,500 AFA and losses from underflow to Ralston Valley at approximately 7,000 AFA. Eakin (1962) estimated aquifer storage at 420,000 ac-ft within the upper 100 feet of saturated aquifer material. Groundwater flow in the basin is to the south with outflow to Ralston Valley near Mud Lake (Rush, 1968).

**Table 4-17. Groundwater Summary Stone Cabin Valley**

| Element                     | Quantity<br>(AFA) | Notes                   |
|-----------------------------|-------------------|-------------------------|
| <b>INFLOW</b>               |                   |                         |
| Recharge from Precipitation | 16,000            |                         |
| Subsurface Inflow           | Minor             |                         |
| <b>OUTFLOW</b>              |                   |                         |
| Evapotranspiration          | 1,500             |                         |
| Springs                     | 500               |                         |
| Subsurface Outflow          | 7,000             |                         |
| Pumpage / Irrigation        | 1,590             | Lopes and Evetts (2004) |
| <b>COMMITTED RESOURCES</b>  | 8,964             |                         |
| <b>PERENNIAL YIELD</b>      | 2,000             |                         |
| <b>STORAGE</b>              | 420,000 ac-ft     |                         |

The NDWR Well Log Database (NDWR, 2005) included 32 new or replacement well entries in the basin, with most wells being used for irrigation purposes.

Table 4-18. Stone Cabin Valley Existing Wells

| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Domestic                | 4               |
| Irrigation              | 20              |
| Mining                  | 1               |
| Other                   | 1               |
| Public Supply-Municipal | 1               |
| Stock                   | 4               |
| Test well               | 1               |

The USGS NWIS database (USGS, 2005) lists 17 wells in the Stone Cabin Valley. Water depths generally range from 18 to 389 feet (bgs). Water level changes since 1990 have been small with some wells showing slight declines and others, slight increases. Regular water level measurements have been collected since approximately 1990 for several wells on the Tonopah Test Range (Figure 4-15) and at Reeds Ranch (Figure 4-16) in the southern part of the basin.

An apparent bedrock constriction in the central part of the valley in T4N, R48E Section 17 near Stone Cabin Ranch forces groundwater moving south in the valley to rise to near surface, much like in Ralston Valley (Eakin, 1962). Groundwater depths this area are only a few feet below surface. South of the constriction in T3N, groundwater depths are on the order of 100 feet (bgs). Groundwater depths in the lower part of the basin near Mud Lake are approximately 205 feet based on one well in T1S, R45E Section 2. Data on groundwater quality is very sparse. Groundwater depths along the CRC are in the range of 100 to 120 feet (bgs) based upon widely spaced wells. Water quality in the northern and central part of the basin is reported to be good.

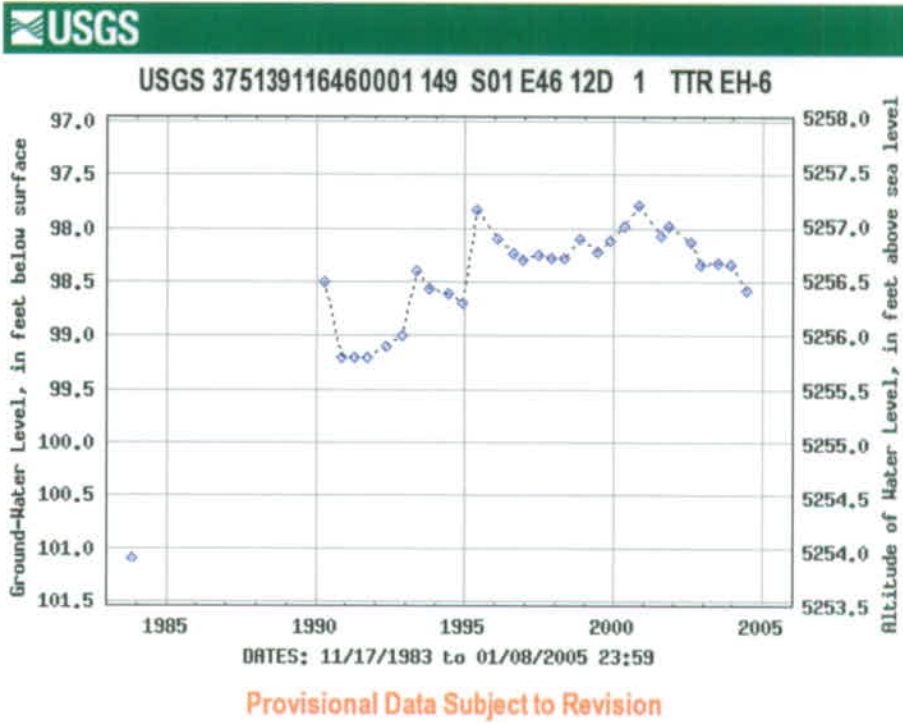


Figure 4-15. Tonopah Test Range Well EH-6 (U-558)

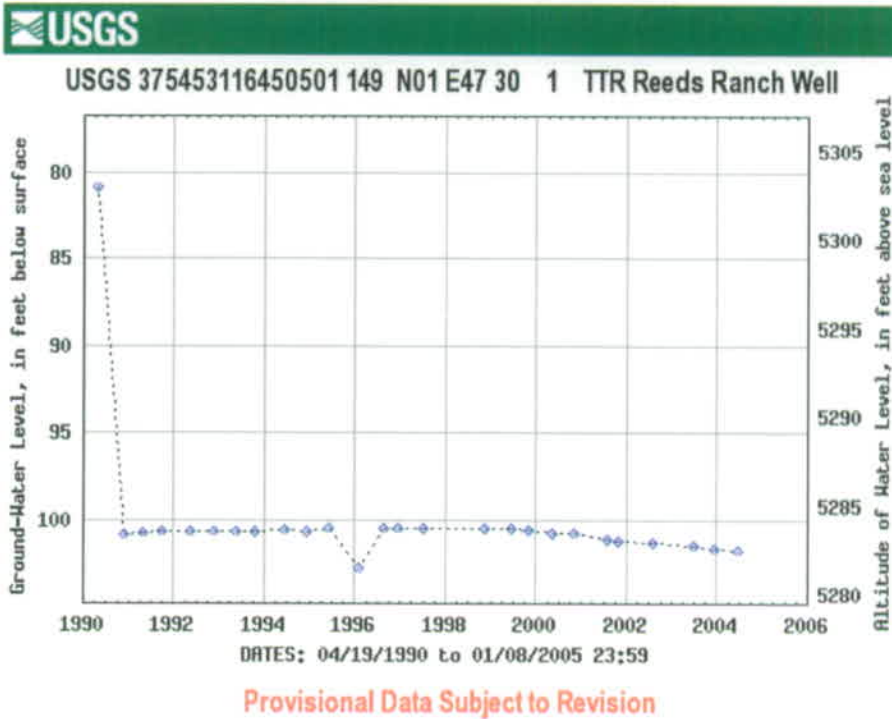


Figure 4-16. Tonopah Test Range Reeds Ranch Well (U-573)

#### 4.1.10 Hot Creek (Basin 156)

Hot Creek (Plate 4-7) lies east of Stone Cabin and covers an area of 1,036 square miles in Nye County (NDWR, 1992). The basin includes the higher terrain of the Hot Creek Range and Kawich Range to the west and the Pancake and Reveille Mountains to the east. Elevations range from 5,100 feet at Twin Springs Ranch, the low point in the southeast part of the valley, to 6,134 at the divide in the southern end of the valley and about 9,000 feet in the Hot Creek Range at the north. Groundwater in the Hot Creek Valley is used mostly for livestock, irrigation, and domestic water.

Paleozoic age carbonate rocks make up much of the central part of the Hot Creek Range, and to a lesser extent, the central part of the Reveille Range. Most of the other areas in the Hot Creek, Reveille, and Kawich ranges consist of Tertiary and Quaternary volcanic rocks. Groundwater is produced primarily from valley fill although water does occur in fractured volcanic rocks and in carbonate rocks at Tybo in the central Hot Creek Range (Plate 4-7).

The perennial yield for Hot Creek basin has been estimated to be 5,500 AFA (NDWR, 1992) with committed resources of 4,220 AFA (NDWR, 2004b). Average annual precipitation in the Hot Creek Valley ranges from less than 8 inches more than 20 inches in the highest elevations (Rush, 1966). Rush and Everett (1966) estimated recharge from precipitation at 7,000 AFA. Surface drainage within Hot Creek is to the Twin Springs Ranch area through a topographic gap in the Pancake Range where shallow bedrock forces groundwater to near surface in this area. Springs exist in this area and water is collected in a small reservoir within the drainage at the gap. Both surface water and groundwater exit the basin at this point into the Railroad Valley basin. Losses through evapotranspiration occur mostly near Twin Springs Ranch where groundwater is shallow. Rush and Everett (1966) estimated evapotranspiration to be 4,600 AFA. Losses from underflow to Railroad Valley basin are estimated to be 700 AFA and surface flow is approximately 300 AFA. Van Denburgh and Rush (1974) indicate this surface flow to average 1,200 AFA. Subsurface inflow to the Hot Creek Valley from Fish Lake Valley is estimated at 200 AFA, according to Rush and Everett (1966). Rush and Everett

(1966) estimated aquifer storage to be approximately 2,300,000 ac-ft within the upper 100 feet of saturated material.

Along the CRC in the Hot Creek basin, groundwater depths range from 80 to 300 feet (bgs) with the shallowest area near the southern end of the basin (Plate 4-7). The depth to groundwater is approximately 60 to 80 feet (bgs) near an alternative alignment for the CRC that passes near Twin Springs Ranch.

**Table 4-19. Groundwater Summary Hot Creek Basin**

| Element                     | Quantity<br>(AFA) | Notes                                   |
|-----------------------------|-------------------|---|
| <b>INFLOW</b>               |                   |   |
| Recharge from Precipitation | 7,000             |   |
| Subsurface Inflow           | 200               |   |
| <b>OUTFLOW</b>              |                   |   |
| Evapotranspiration          | 4,600             |   |
| Surface flow                | 300               | 1,200 AFA (Van Denburgh and Rush, 1974) |
| Subsurface Outflow          | 700               |   |
| Pumpage / Irrigation        | 1,500             | Lopes and Evetts (2004)                 |
| <b>COMMITTED RESOURCES</b>  | 4,220             |   |
| <b>PERENNIAL YIELD</b>      | 5,500             |   |
| <b>STORAGE</b>              | 2.3 million ac-ft |   |

The NDWR Well Log Database (NDWR, 2005) included 24 well entries in the basin. Seventeen are production wells and 8 of these are at Twin Springs Ranch in the southeastern part of the valley. The remainder of the wells in the basin are either test or monitoring wells.

Table 4-20. Hot Creek Basin Existing Wells

| Well Use           | Number of Wells |
|--------------------|-----------------|
| Domestic           | 3               |
| Industrial         | 1               |
| Industrial cooling | 1               |
| Irrigation         | 4               |
| Monitoring Well    | 1               |
| Stock              | 7               |
| Test well          | 5               |

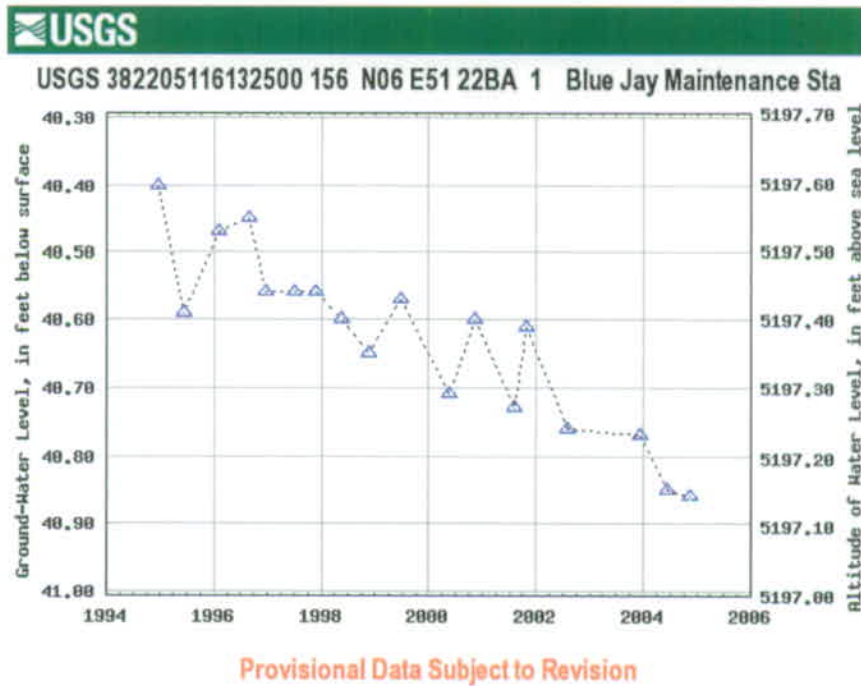


Figure 4-17. Blue Jay Maintenance Station Well (U-670)

The USGS NWIS database (USGS, 2005) lists 48 wells in the Hot Creek Valley, 12 of which are test wells. Groundwater depths range from 3 to more than 500 feet (bgs). The shallowest groundwater appears to occur between US Highway 6 and Twin Springs Ranch where depths are generally less than 60 feet (bgs). Groundwater levels measured at an NDOT site on Highway 6 have been declining in recent years (Figure 4-17), whereas near Twin Springs Ranch,

levels have increased sharply in the early 1980s, but remaining stable since (Figure 4-18).

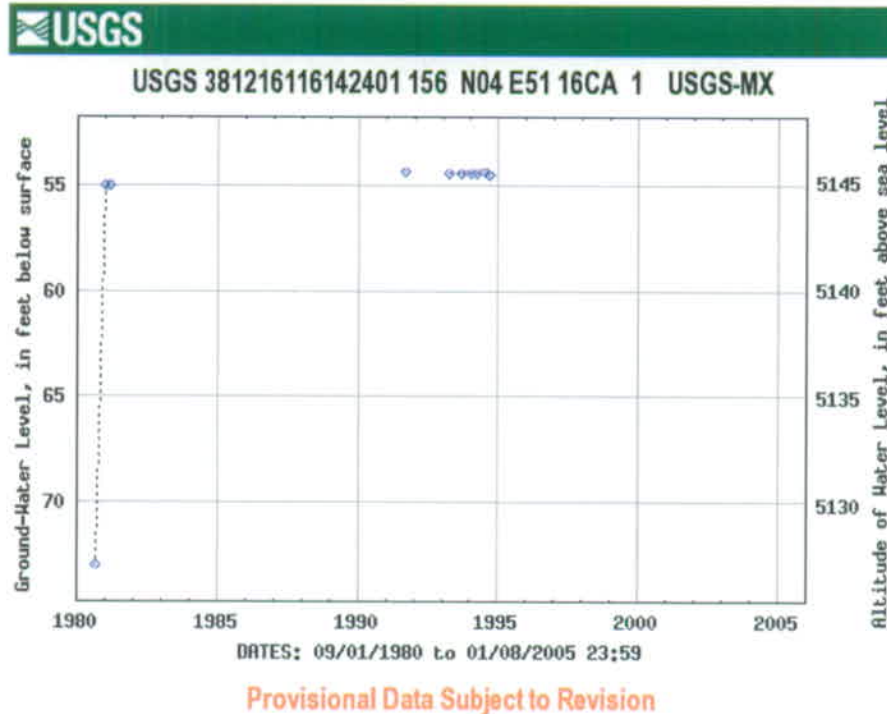


Figure 4-18 USGS-MX Well (U-604)

Rush and Everett (1966) describe the chemistry from 3 wells and four (4) springs in the Hot Creek basin. It was indicated that the water is a sodium bicarbonate type with TDS values in the approximate range of 250 mg/l to 2,500 mg/l based on specific conductance measurements. The USGS NWIS database (USGS, 2005) lists water quality data for eleven wells. The water is a sodium bicarbonate type with TDS values in the range of 176 to 1,910 mg/l. Based on this limited data, the lowest TDS values are in the area of shallow groundwater between US Highway 6 and Twin Springs Ranch. Higher TDS values occur in the area near Hot Creek in the northern part of the basin. Groundwater and springs near Hot Creek also have elevated fluoride levels in the range of 5 mg/l to 30 mg/l, which exceed the Nevada drinking water standard of 4 mg/l.

#### 4.1.11 Railroad Valley South (Basin 173A)

Railroad Valley Southern Part (Plate 4-8) lies southeast of Hot Creek. The basin covers an area of 603 square miles (NDWR, 1992) in Nye County between Warm Springs and Rachel. A small portion of the basin extends into western Lincoln County in the Quinn Canyon Range. The basin is bounded by Kawich Range to the west to the Quinn Canyon on the east and Belted Range Ranges on the south. The southern Reveille Range is also included within the basin. Elevations range from 4,845 feet at the playa low point to about 9,200 feet in the Quinn Canyon Range at the east side. Groundwater in the Railroad Valley Southern Part is used mostly for livestock and irrigation.

Paleozoic age carbonate rocks make up a part of the Reveille Range, and a portion of the southern Quinn Canyon Range. Most of the other areas in the Kawich, Reveille, Quinn Canyon, and Belted Range consist of Tertiary and Quaternary volcanic rocks (Plate 4-8). Groundwater is produced primarily from valley fill although water does occur in fractured volcanic rocks.

The perennial yield for Railroad Valley South basin has been estimated to be 2,800 AFA (NDWR, 1992) with committed resources of 3,890 AFA (NDWR, 2004b). Average annual precipitation in the Railroad Valley Southern Part ranges from less than 5 inches to 20 inches in the highest elevations (Van Denburgh and Rush, 1974). Van Denburgh and Rush (1974) estimated recharge from precipitation to be 5,500 AFA. Surface drainage is generally toward the playa. Subsurface drainage is split between about 4,300 AFA to Railroad Valley northern part and 1,000 AFA to Kawich Valley (Van Denburgh and Rush, 1974). Since groundwater at the playa is more than 15 feet deep losses to evapotranspiration in the basin are small. Van Denburgh and Rush (1974) estimated aquifer storage to be 400,000 ac-ft within the upper 100 feet of saturated aquifer material



**Table 4-21. Groundwater Summary Railroad Valley Southern Part**

| Element                     | Quantity (AFA) | Notes   |
|-----------------------------|----------------|---|
| <b>INFLOW</b>               |                |   |
| Recharge from Precipitation | 5,500          |   |
| Subsurface Inflow           | 500            | Ditch flow from Northern Railroad Valley              |
| <b>OUTFLOW</b>              |                |   |
| Evapotranspiration          | 200            |   |
| Surface flow                | None Reported  |   |
| Subsurface Outflow          | 5,300          | Flow to Northern Railroad Valley and to Kawich Valley |
| Pumpage / Irrigation        | 2,250          | Lopes and Evetts (2004) included both 173A and 173B   |
| <b>COMMITTED RESOURCES</b>  | 3,890          |   |
| <b>PERENNIAL YIELD</b>      | 2,800          |   |
| <b>STORAGE</b>              | 400,000 ac-ft  |   |

The NDWR Well Log Database (NDWR, 2005) included 17 new or replacement well entries in the basin with 15 being production wells. Table 4-22 shows the distribution by use. Crop irrigation has been occurring in the basin only in the area on the north edge of the playa and east of Highway 375.

**Table 4-22. Railroad Valley Southern Part Existing Wells**

| Well Use   | Number of Wells |
|------------|-----------------|
| Domestic   | 1               |
| Irrigation | 4               |
| Stock      | 10              |
| Test well  | 2               |

The USGS NWIS database (USGS, 2005) lists 19 wells in the Railroad Valley southern part, 6 of which are test wells. Groundwater depths range from 17 to more than 400 feet (bgs). Near the CRC in the southern part of the basin groundwater depths may be more than 300 feet in some areas based on data

from only 2 wells. For the alternative alignment (northern route) of the CRC, groundwater depths range from 60 feet (bgs) where the corridor enters the basin on the north, to more than 200 feet (bgs) at the south end of the basin. The shallowest groundwater occurs in the northern part of the basin near highway 375 and Twin Springs Ranch where depths are generally less than 80 feet (bgs). Groundwater level data from wells shown in Figures 4-19 and 20 located in the central part of the basin reflect no discernable particular trend in groundwater levels over time.

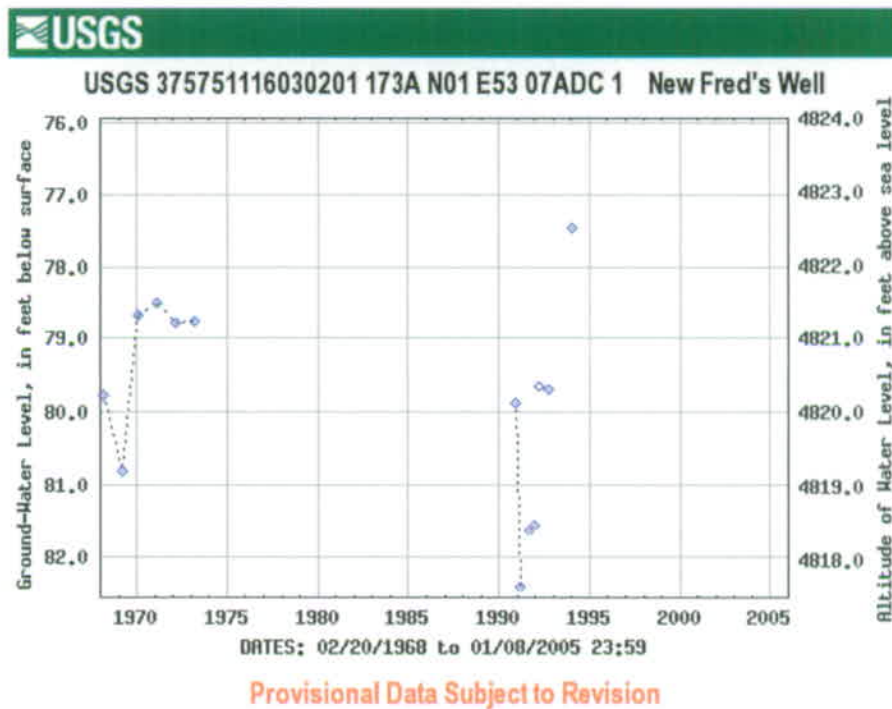


Figure 4-19. New Fred's Well (U-1377)

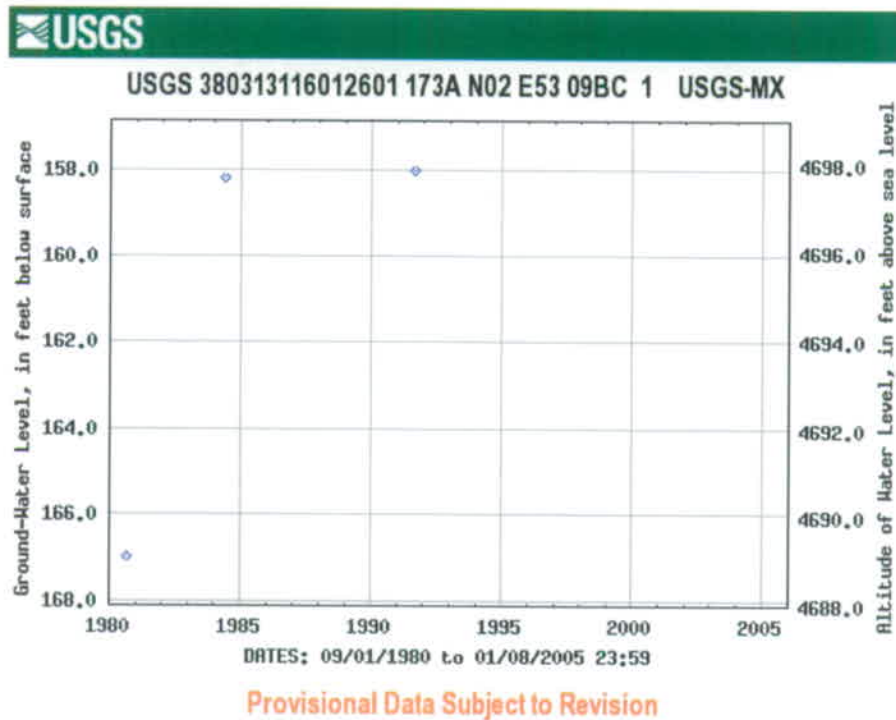


Figure 4-20. USGS-MX Well (U-1387)

Water quality varies within the basin, and except for the immediate vicinity of the playa where salinity is highest; most groundwater has relatively low TDS that is dominated by bicarbonate with either sodium or calcium as the primary constituents. The USGS NWIS database (USGS, 2005) lists water quality data for 4 wells in the basin. The water is a sodium bicarbonate type with TDS values in the range of 253 mg/l to 409 mg/l. One well had TDS value of 2,790 mg/l. Two wells had fluoride levels that exceed the 4 mg/l Nevada drinking water standard. USGS data from a few wells in the central part of the valley east of Highway 375 had fluoride values of 8 and 12 mg/l, respectively.

**4.1.12 Railroad Valley North (Basin 173B)**

Railroad Valley Northern Part (Plate 4-9) lies east of Hot Creek and north of Railroad Valley Southern Part. This basin covers an area of 2,149 square miles in Nye County and White Pine County (NDWR, 1992). The combination of Railroad Valley Northern Part and Southern Part comprises one of the largest closed drainage basins in Nevada extending more than 110 miles north-south and 15 to 25 miles in wide. It extends from the Pancake Range on the west to

the White Pine, Grant, and Quinn Canyon Ranges on the east. Elevations range from 4,706 feet at the playa low point to 11,513 feet in the White Pine Northern Part. (Van Denburgh and Rush, 1974).

Paleozoic age carbonate rocks make up much of the White Pine and Grant Ranges, and a portion of the Quinn Canyon Range. Most of the other areas in the Pancake and Quinn Canyon Range consist of Tertiary and Quaternary volcanic rocks. Groundwater is produced primarily from valley fill although water does occur in fractured volcanic rocks. Petroleum is produced from wells in volcanic rocks in the central part of the basin (Van Denburgh and Rush, 1974). Although this is unusual occurrence petroleum has migrated from the source rocks into fractures in Tertiary volcanics from which the production is derived.

The perennial yield for Railroad Valley North basin has been estimated to be 75,000 AFA (NDWR, 1992) with committed resources of 26,633 AFA (NDWR, 2004b). Average annual precipitation in the Railroad Valley Northern Part ranges from less than 5 inches to 20 inches in the highest elevations (Van Denburgh and Rush, 1974). Van Denburgh and Rush (1974) estimated recharge from precipitation at 46,000 AFA. Surface drainage is toward the playa. Subsurface inflow is about 4,000 AFA from Railroad Valley southern part, 2,400 from Little Smoky Valley, and 700 from Hot Creek Valle. Total subsurface inflow was rounded to 7,000 AFA (Van Denburgh and Rush, 1974). Basin outflow in the subsurface is reported to be minor. Losses from evapotranspiration have been estimated at 80,000 AFA (Van Denburgh and Rush, 1974). Van Denburgh and Rush (1974) estimated aquifer storage to be 3,000,000 ac-ft for the upper 100 feet of saturated aquifer material.

**Table 4-23. Groundwater Summary Railroad Valley Northern Part**

| Element                     | Quantity<br>(AFA) | Notes  |
|-----------------------------|-------------------|--|
| <b>INFLOW</b>               |                   |  |
| Recharge from Precipitation | 46,000            |  |
| Subsurface Inflow           | 7,000             | Also possible inflow from carbonate aquifer at Duckwater Springs |
| <b>OUTFLOW</b>              |                   |  |
| Evapotranspiration          | 80,000            |  |
| Surface flow                | None Reported     |  |
| Subsurface Outflow          | Minor             |  |
| Pumpage / Irrigation        | 2,250             | Lopes and Evetts (2004) included both 173A and 173B              |
| <b>COMMITTED RESOURCES</b>  | 26,633            |  |
| <b>PERENNIAL YIELD</b>      | 75,000            |  |
| <b>STORAGE</b>              | 3 million ac-ft   |  |

Note that the large imbalance between inflow and outflow in Table 4-23 may be explained in part by contributions to the valley fill aquifer from the carbonate aquifer.

Three large spring systems occur in the basin, at Duckwater in the northern part of the basin, Lockes in the west central part of the basin and Blue Eagle Spring along the central east margin. Duckwater flows at 11,000 AFA, Lockes flows at 2,400 AFA, and Blue Eagle at 3,000 AFA (Van Denburgh and Rush, 1974). Water from these not lost to evapotranspiration infiltrates into the valley fill aquifer. The carbonate aquifer may be the source for Duckwater Spring.

The NDWR Well Log Database (NDWR, 2005) included 152 new or replacement well entries in the basin. There are 115 production wells as indicated Table 4-24, which shows the distribution by use.

Table 4-24. Railroad Valley Northern Part Existing Wells

| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Domestic                | 23              |
| Industrial              | 17              |
| Industrial cooling      | 2               |
| Irrigation              | 39              |
| Mining                  | 16              |
| Monitoring Well         | 15              |
| Other                   | 13              |
| Public Supply-municipal | 7               |
| Stock                   | 11              |
| Test well               | 9               |

As indicated in Table 4-24, irrigation is the main water use in the Railroad Valley Northern Part, which is mostly taking place in the area north of the playa.

The USGS NWIS database (USGS, 2005) lists 121 wells in the Railroad Valley northern part, 17 of which are test wells. Water depth ranges from -1 (above surface) to more than 291 (bgs). The shallowest groundwater occurs in the central part of the basin near the playa where depths are generally less than 50 feet (bgs). Groundwater along the short segment of the alternative alignment of the CRC in this basin is approximately 200 feet (bgs) (Plate 4-9).

The USGS NWIS database (USGS, 2005) lists water quality data for 26 wells and springs. The water is a sodium bicarbonate type with TDS values in the range of 208 mg/l to 732 mg/l. One particular spring sample had a fluoride level of 37 mg/l that exceeds the Nevada drinking water standard. Otherwise fluoride levels are acceptable for drinking water. During the late 1960s and early 1970s, the practice of ponding Eagle Springs oil field brine in the area north of the playa has seriously impacted shallow groundwater quality to the southwest of the disposal ponds (Van Denburgh and Rush, 1974).

#### 4.1.13 Penoyer Valley (Basin 170)

Penoyer Valley (Plate 4-8) lies southeast of Railroad Valley- Southern Part. The basin covers an area of 700 square miles (NDWR, 1992) in western Lincoln County near Rachel. It is bounded from the Quinn Canyon Range on the north, Groom Range on the south, Belted Range on the west to the Tempiute Range, and Worthington Mountains on the east. Elevations range from 4,738 feet at the central playa low point to about 9,200 feet in the Quinn Canyon Range at the north side. Groundwater in the Penoyer Valley is used mostly for domestic and irrigation near Rachel. A few widely spaced stock wells are located in the northern part of the basin and a few mining wells are located in the Tempiute Range at the east side.

Paleozoic age carbonate rocks make up a part of the Worthington Range, a portion of the Tempiute Range, Groom Range and a small area of the Quinn Canyon Range near Queen city Summit. Most of the other areas in the Tempiute, Quinn Canyon, Groom, Belted and Tempiute ranges consist of Tertiary and Quaternary volcanic rocks. Groundwater is produced primarily from valley fill although water does occur in fractured volcanic rocks (Plate 4-8).

The perennial yield for Penoyer Valley basin has been estimated to be 4,000 AFA (NDWR, 1992) with committed resources of 14,461 AFA (NDWR, 2004b). Average annual precipitation in the Penoyer Valley is 5 inches, based on a 32-year period of record (Van Denburgh and Rush, 1974), but ranges to more than 20 inches per year in the higher elevations of the Quinn Canyon Range. Van Denburgh and Rush (1974) estimated recharge from precipitation at 4,300 AFA. Surface drainage is generally toward the playa, and there is no reported subsurface flow of groundwater from Penoyer Valley (Van Denburgh and Rush, 1974). Losses to evapotranspiration in the basin were estimated to be 3,800 AFA. Van Denburgh and Rush (1974) made no mention of irrigation in the Penoyer Valley but a large area west of Rachel has been under extensive irrigation since the 1960s, which would greatly increase the amount of evapotranspiration over the 3,800 AFA estimate. Van Denburgh and Rush (1974) estimated aquifer storage at 770,000 ac-ft within the upper 100 feet of saturated material.

**Table 4-25. Groundwater Summary Penoyer Valley**

| Element                     | Quantity<br>(AFA) | Notes                                |
|-----------------------------|-------------------|--------------------------------------|
| <b>INFLOW</b>               |                   |                                      |
| Recharge from Precipitation | 4,300             |                                      |
| Subsurface Inflow           | Minor             |                                      |
| <b>OUTFLOW</b>              |                   |                                      |
| Evapotranspiration          | 3,800             | Probably much higher from irrigation |
| Surface flow                | None Reported     |                                      |
| Subsurface Outflow          | Minor             |                                      |
| Pumpage / Irrigation        | 12,560            | Lopes and Evetts (2004)              |
| <b>COMMITTED RESOURCES</b>  | 14,461            |                                      |
| <b>PERENNIAL YIELD</b>      | 4,000             |                                      |
| <b>STORAGE</b>              | 770,000 ac-ft     |                                      |

The NDWR Well Log Database (NDWR, 2005) included 92 new or replacement well entries in Penoyer Valley, while the USGS NWIS database (USGS, 2005) lists 52 wells in the basin. Depths to groundwater range from 13 to more than 329 feet (bgs). The shallowest groundwater occurs near the playa where depths are generally less than 100 feet (bgs). Most of the high production rate irrigation wells are south of Highway 375 and west of Rachel. Groundwater depths along the CRC range from 180 to more than 300 feet (bgs) with the shallowest area at the southwest end. Groundwater levels have been declining since the 1960s, typically on the order of 30 feet-bgs (Figure 4-21).



Table 4-26. Penoyer Valley Existing Wells

| Well Use                | Number Of Wells |
|-------------------------|-----------------|
| Commercial              | 1               |
| Domestic                | 33              |
| Industrial              | 1               |
| Irrigation              | 47              |
| Mining                  | 6               |
| Public Supply-Municipal | 1               |
| Stock                   | 3               |

The USGS NWIS database (USGS, 2005) lists water quality data for only one well. The water is a sodium bicarbonate type with a TDS value of 280 mg/l. Van Denburgh and Rush (1974) include analyses from 45 wells where TDS based on specific conductance measurements is in the range of 300 mg/l to 700 mg/l.

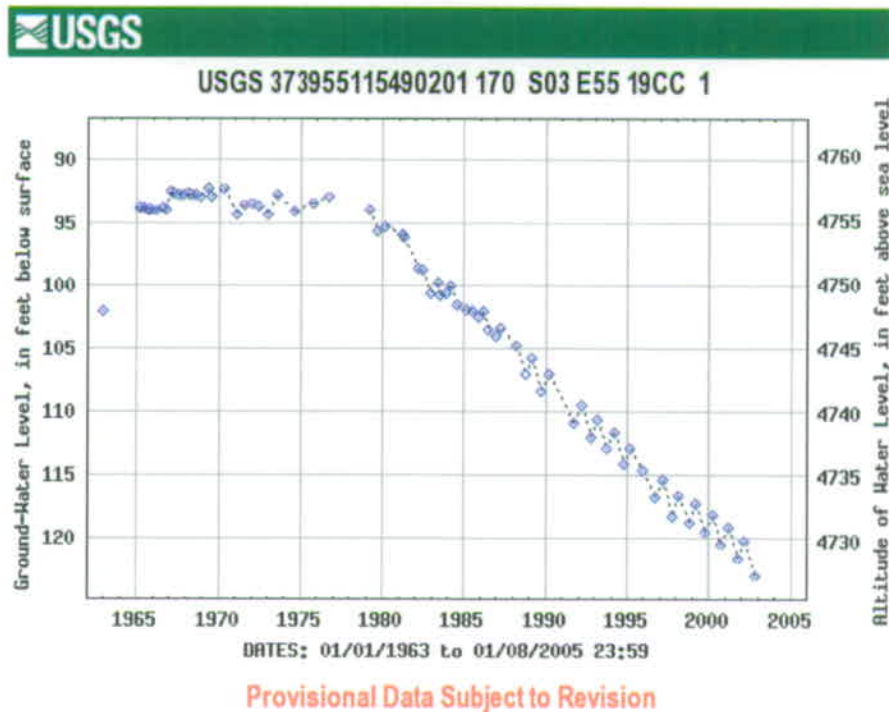


Figure 4-21. Penoyer Valley (unnamed) Well (U-1337)

#### 4.1.14 Garden Valley (Basin 172)

Garden Valley (Plate 4-10) lies northeast of Penoyer Valley. It covers an area of 493 square miles (NDWR, 1992) in western Lincoln County and Nye near Rachel. The basin extends from the Quinn Canyon Range on the west, Grant Range on the northwest, Worthington Mountains on the southwest, and the Golden Gate Range on the east. Elevations range from 5,100 feet at the low point to about 11,300 feet in the Quinn Canyon.

Paleozoic age carbonate rocks make up a part of the Worthington Range, a portion of the Grant Range, and a small area of the Golden Gate Range. Most of the other areas in the Quinn Canyon, Grant, and Golden Gate ranges consist of Tertiary and Quaternary volcanic rocks, and Paleozoic clastic rocks. Groundwater is produced primarily from valley fill although water does occur in fractured volcanic rocks and carbonate rocks (Plate 4-10).

The perennial yield for Garden Valley basin has been estimated to be 6,000 AFA (NDWR, 1992) with committed resources of 454 AFA (NDWR, 2004b). Precipitation in Garden Valley ranges from 10 inches to more than 21 inches per year in the higher elevations of the Quinn Canyon and Grant Ranges. Eakin (1963a) estimated recharge from precipitation at 10,000 AFA. Surface drainage leaving the basin is reported to be minor. Subsurface flow of groundwater is to Coal Valley (Brothers et al. 1993) and is estimated to be 8,000 AFA. Losses to evapotranspiration in the basin were estimated at 1,500 AFA (Brothers et al. 1993). Groundwater flow is generally eastward toward Coal Valley basin. Eakin (1963a) estimated aquifer storage at several times the annual recharge within the upper 100 feet of saturated material. Brothers, et al. (1993) indicated that the combined storage of Garden Valley and the adjoining Coal Valley consisted of about 3,000,000 ac-ft of groundwater in the upper 100 feet of saturated aquifer material.

**Table 4-27. Groundwater Summary Garden Valley**

| Element                     | Quantity (AFA)    | Notes   |
|-----------------------------|-------------------|---|
| <b>INFLOW</b>               |                   |   |
| Recharge from Precipitation | 10,000            |   |
| Subsurface Inflow           | Minor             |   |
| <b>OUTFLOW</b>              |                   |   |
| Evapotranspiration          | 1,500             |   |
| Surface flow                | Minor             |   |
| Subsurface Outflow          | 8,000             | To Coal Valley basin  |
| Pumpage / Irrigation        | 30                | Lopes and Evitts (2004)   |
| <b>COMMITTED RESOURCES</b>  | 454               |   |
| <b>PERENNIAL YIELD</b>      | 6,000             |   |
| <b>STORAGE</b>              | 1.5 million ac-ft | One-half of estimated combined Garden Valley and Coal Valley storage. |

The NDWR Well Log Database (NDWR, 2005) included 18 new or replacement well entries in the basin. Groundwater in the Garden Valley is used mostly for domestic and stock purposes.

**Table 4-28. Garden Valley Existing Wells**

| Well Use           | Number Of Wells |
|--------------------|-----------------|
| Domestic           | 6               |
| Industrial         | 1               |
| Industrial Cooling | 1               |
| Irrigation         | 5               |
| Stock              | 2               |
| Test Well          | 3               |

The USGS NWIS database (USGS, 2005) lists 26 wells in Garden Valley. Depths to groundwater range from 3 feet to more than 800 feet (bgs). The shallowest groundwater occurs in the northern part of the valley. Groundwater

depths along the CRC vary from more than 300 feet near the north end of the Worthington Mountains to approximately 120 feet near where the corridor crosses the Golden Gate Range. Near the southern alternative alignment of the CRC, groundwater is very deep, generally 400 to 500 feet (bgs) except for the southern most area where the CRC passes through the water gap in the Golden Gate Range (Plate 4-10). In this area groundwater depth is approximately 120 feet (bgs).

The USGS NWIS database (USGS, 2005) lists water quality data for only 4 wells. The water is a calcium bicarbonate type with a TDS values in the range of 200 mg/l to 300 mg/l based on specific conductance measurements.

#### **4.1.15 Coal Valley (Basin 171)**

Coal Valley (Plate 4-10) lies east of Garden Valley. The basin covers an area of 460 square miles (NDWR, 1992) in western Lincoln County and Nye near Rachel. It extends from the Golden Gate Range on the west to the Seaman Range on the east. Elevations range from 4,950 feet at the low point to about 6,600 feet in the Seaman Range. Groundwater in Coal Valley is used mostly for stock water.

Paleozoic age carbonate rocks make up a part of the Golden Gate Range. Most of the other areas in Seaman and Golden Gate ranges consist of Tertiary and Quaternary volcanic rocks, and Paleozoic clastic rocks. Groundwater is produced primarily from valley fill although water does occur in fractured volcanic rocks and carbonate rocks.

The perennial yield for Coal Valley has been estimated to be 6,000 AFA (NDWR, 1992) with committed resources of 38 AFA (NDWR, 2004b). Precipitation in the Coal Valley is approximately 8 to 10 inches per year. Eakin (1963a) estimated recharge from precipitation at 2,000 AFA. There is generally no surface flow that leaves Coal Valley. Subsurface flow of groundwater is to Pahrnagat Valley (Brothers et al., 1993) and is estimated to be 10,000 AFA, and overall groundwater flow is generally southeasterly. Losses to evapotranspiration in the basin were estimated as negligible. Eakin (1963a) estimated aquifer storage at several times the annual recharge within the upper 100 feet of

saturated material. Brothers, et al. (1993) indicated that the combined storage of Garden Valley and the adjoining Coal Valley had about 3,000,000 ac-ft in the upper 100 feet of saturated material.

**Table 4-29. Groundwater Summary Coal Valley**

| Element                     | Quantity (AFA)    | Notes   |
|-----------------------------|-------------------|---|
| <b>INFLOW</b>               |                   |   |
| Recharge from Precipitation | 2,000             |   |
| Subsurface Inflow           | 8,000             | From Garden Valley  |
| <b>OUTFLOW</b>              |                   |   |
| Evapotranspiration          | Minor             |   |
| Surface flow                | Minor             |   |
| Subsurface Outflow          | 10,000            | To Pahrnagat Valley basin   |
| Pumpage / Irrigation        | 30                | Lopes and Evitts (2004)   |
| <b>COMMITTED RESOURCES</b>  | 38                |   |
| <b>PERENNIAL YIELD</b>      | 6,000             |   |
| <b>STORAGE</b>              | 1.5 million ac-ft | One-half of estimated combined Garden Valley and Coal Valley storage (estimated). |

The NDWR Well Log Database (NDWR, 2005) included 3 new or replacement well entries in the basin as shown in Table 4-30. The USGS NWIS database (USGS, 2005) lists 11 wells in Coal Valley. Water depths range from 100 to more than 800 feet (bgs). The shallowest groundwater occurs in the northern part of the valley and at the extreme south end.

**Table 4-30. Coal Valley Existing Wells**

| Well Use   | Number of Wells |
|------------|-----------------|
| Domestic   | 1               |
| Irrigation | 1               |
| Test well  | 1               |

Groundwater depths along the CRC are generally poorly understood in Coal Valley. Where the CRC enters the basin on the west, groundwater is approximately 300 feet deep. Groundwater in the vicinity of the alternative alignment of the CRC is estimated to be approximately 100 feet (bgs) at the south end to more than 300 feet (bgs) in the north where it joins the main CRC (Plate 4-10).

The USGS NWIS database (USGS, 2005) lists water quality data for only one well. The water has a TDS value of 258 mg/l. The water is a calcium bicarbonate type with a TDS values in the range of 200 mg/l to 300 mg/l based on specific conductance measurements (Brothers et al. 1993).

#### **4.1.16 White River Valley (Basin 207)**

White River Valley (Plate 4-11) lies north of Garden Valley and Coal Valley basins and covers an area of 1,607 square miles (NDWR, 1992) in White Pine and Nye Counties. Settlements include Sunnyside in the southern part, and Lund and Preston in the north. It extends from the Grant and White Pine Ranges on the west to the Egan Range on the east. Elevations range from 5,100 feet at the southern end of the valley to about 11,493 feet in the White Pine Range.

Paleozoic age carbonate rocks make up much of the White Pine, Grant, and Egan Ranges. Groundwater is produced primarily from valley fill although water does occur in carbonate rocks (Plate 4-11).

The perennial yield for White River basin has been estimated to be 37,000 AFA (NDWR, 1992) with committed resources of 29,781 AFA (NDWR, 2004b). Precipitation in the White River Valley is approximately 10 inches per year (Maxey and Eakin, 1949). Maxey and Eakin (1949) estimated recharge from precipitation at 40,000 AFA. Surface flow out of the valley at the south end is estimated at 1,500 AFA. Losses to evapotranspiration in the basin were estimated to be 34,000 AFA. Subsurface outflow of groundwater is to Pahroc Valley and is estimated at 17,500 AFA (Maxey and Eakin, 1949).

Table 4-31. Groundwater Summary White River Valley

| Element                     | Quantity (AFA) | Notes                   |
|-----------------------------|----------------|-------------------------|
| <b>INFLOW</b>               |                |                         |
| Recharge from Precipitation | 40,000         |                         |
| Subsurface Inflow           | 13,000         | From Jakes Valley       |
| <b>OUTFLOW</b>              |                |                         |
| Evapotranspiration          | 34,000         |                         |
| Surface flow                | 1,500          |                         |
| Subsurface Outflow          | 17,500         |                         |
| Pumpage / Irrigation        | 3,530          | Lopes and Evitts (2004) |
| <b>COMMITTED RESOURCES</b>  | 29,781         |                         |
| <b>PERENNIAL YIELD</b>      | 37,000         |                         |
| <b>STORAGE</b>              | Unknown        |                         |

The NDWR Well Log Database (NDWR, 2005) included 315 new or replacement well entries in the basin.

Table 4-32. White River Valley Existing Wells

| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Commercial              | 5               |
| Domestic                | 140             |
| Industrial              | 15              |
| Industrial cooling      | 3               |
| Irrigation              | 75              |
| Monitoring Well         | 13              |
| Other                   | 6               |
| Public Supply-municipal | 5               |
| Stock                   | 43              |
| Test well               | 10              |

The USGS NWIS database (USGS, 2005) lists 138 wells in White River Valley. Groundwater depths range from -1 (above surface) to more than 400 feet (bgs).

The shallowest groundwater occurs in the central and southern parts of the valley. For the short segment of the CRC that passes through White River Valley, groundwater depth is on the order of 80 feet (bgs).

The USGS NWIS database (USGS, 2005) lists water quality data that includes TDS values for 6 wells. The water generally has TDS values that range from 257 mg/l to 470 mg/l and is a calcium bicarbonate type.

#### **4.1.17 Pahroc Valley (Basin 208)**

Pahroc Valley hydrographic basin (Plate 4-12) is located between the Seaman Range to the west, North Pahroc Range to the east, Schell Creek Range to the northeast, Pahrangat Valley to the south, and White River Valley to the north and northwest. Pahroc Valley is approximately 43 miles along its central axis, 13 miles wide and covers 508 square miles (Scott, et al., 1971). The valley floor is a segment of a large topographic trough, which is a presently a dry streambed called the White River. The valley floor ranges in elevation from 6,050 feet on the alluvial fans to 3,085 feet at the south end of the valley where the White River enters Pahrangat Valley.

The hydrostratigraphy of Pahroc Valley has been well defined based on work of Winograd and Thordarson (1975) and Ertec Western (1981). Drici, et al. (1993) provided a general description of four (4) distinct hydrostratigraphic units defined by 1) alluvial sediments (younger and older valley-fill deposits); 2) carbonate rocks of the Bird Spring Formation and other units above the Eureka Quartzite; 3) Tertiary volcanics and 4) Precambrian and Cambrian clastic aquitard.

The Pahroc Valley basin is located in the Colorado River Flow System as defined by Harrill, et al. (1988) and is part of the regional interbasin flow system known as the White River Flow System. The depth to groundwater in most of Pahroc Valley is generally more than 200 feet (bgs), flowing from north to south, in most places, below the bottom of the younger valley fill. The source of groundwater in Pahroc Valley is mountain front precipitation and inflow from adjacent valleys (primarily White River Valley to the north). Estimates for total precipitation over Pahroc Valley vary from 57,000 (Eakin,



1963c) to 190,000 AFA (Scott, et al. 1971). Of that amount, approximately 2,200 AFA is introduced as recharge within the basin as estimated by Eakin (1963c), Kirk and Campana (1988) and Harrill, et al. (1988). Estimates for interbasin flow (as subsurface inflow) of groundwater into Pahroc Valley vary from 17,500 (Maxey and Eakin, 1949) to 40,000 AFA (Scott, et al., 1971) from White River Valley to the north. An additional 2,600 AFA of inflow was estimated in Brothers, et al. (1993) to originate from Dry Lake Valley to the east. Estimates of annual discharge from the Pahroc Valley resulting from evapotranspiration, spring discharge, and well discharge (mostly stock water) are negligible and therefore do not represent a significant source of groundwater discharge. However, discharge through subsurface flow is estimated to be 42,000 AFA along the southern boundary of Pahroc Valley into Pahrnagat Valley (Scott, et al., 1971). Scott, et al. (1971) estimated that approximately 1,300,000 ac-ft of recoverable groundwater exists in the upper 100 feet of saturated aquifer material. Based on this information, the perennial yield for this basin has been estimated to be 21,000 AFA (NDWR, 1992).

**Table 4-33. Groundwater Summary Pahroc Valley**

| Element                     | Quantity<br>(AFA)   | Notes   |
|-----------------------------|---------------------|---|
| <b>INFLOW</b>               |                     |   |
| Recharge from Precipitation | 2,200               |   |
| Subsurface Inflow           | 17,500 -<br>42,600  | From White River Valley (plus<br>2,600 from Dry Lake Valley)  |
| <b>OUTFLOW</b>              |                     |   |
| Evapotranspiration          | minor               |   |
| Surface flow                | Minor               |   |
| Subsurface Outflow          | 42,000              |   |
| Pumpage / Irrigation        | minor               |   |
| <b>COMMITTED RESOURCES</b>  | 30                  |   |
| <b>PERENNIAL YIELD</b>      | 21,000              |   |
| <b>STORAGE</b>              | 1.3 million (ac-ft) | Estimated for valley-fill reservoir<br>only, does not include recoverable<br>storage from regional carbonate<br>aquifer |

The NDWR Well Log Database (NDWR, 2005) included 16 new or replacement well entries in the Pahroc Valley basin as shown in Table 4-34. Most of the groundwater production in the basin appears to be for stock watering purposes. The USGS NWIS database (USGS, 2005) lists 6 wells in Pahroc Valley. Depths to groundwater generally exceed 200 feet (bgs) throughout most of the basin. Periodic groundwater level measurements from a BLM well near the proposed CRC have varied by more than 20 feet between 1963 and 1994 as shown in Figure 4-22.

**Table 4-34. Pahroc Valley Existing Wells**

| Well Use           | Number Of Wells |
|--------------------|-----------------|
| Domestic           | 3               |
| Industrial         | 7               |
| Industrial Cooling | 1               |
| Irrigation         | 2               |
| Other              | 2               |
| Stock              | 1               |

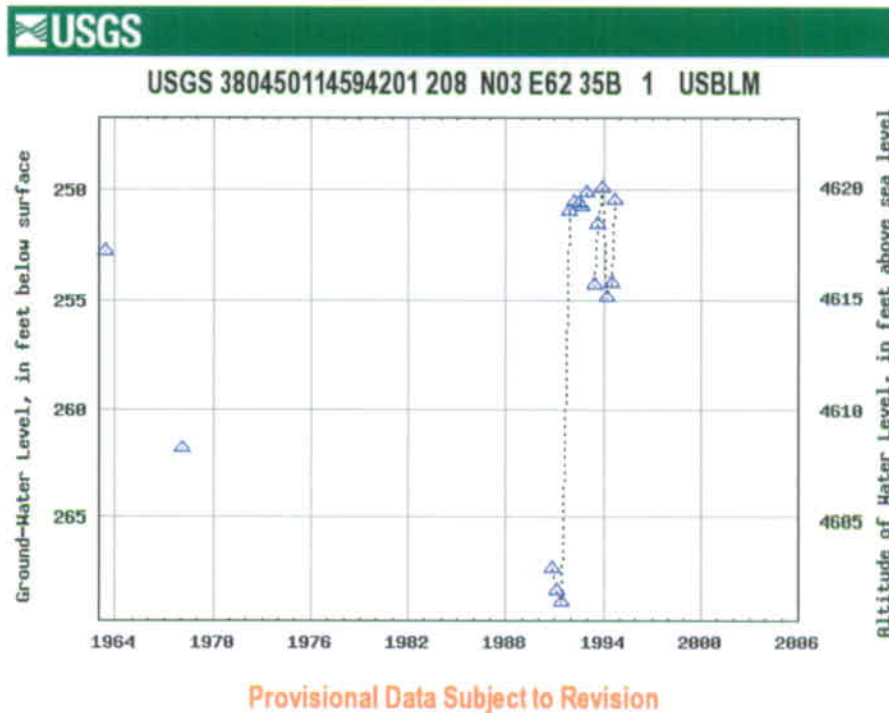


Figure 4-22. Pahroc Valley Well (BLM) (U-1390)

No water quality data were available for Pahroc Valley. However, Drici, et al. (1993) provided a possible range of values for water quality parameters for 7 springs and 3 wells just outside of the basin. Generally, water quality from sources in adjacent basins and relatively close to Pahroc Valley basin reflects specific conductance values that are less than  $650 \mu\text{S}/\text{cm}$ , which corresponds to approximately  $475 \text{ mg}/\text{l}$  for TDS. Reported values for sulfate concentrations were generally less than  $30 \text{ mg}/\text{l}$ .

#### 4.1.18 Dry Lake Valley (Basin 181)

Dry Lake Valley hydrographic basin (Plate 4-12) is located between the North Pahroc and Schell Creek Ranges Seaman Range on the west, the Fairview, Bristol, Highland and Chief Ranges on the east. Dry Lake Valley is approximately 59 miles along its central axis, 16 miles wide and covers 882 square miles (NDWR, 1992). Elevations range from 4,580 feet at the playa in the south end of the valley to 9,295 feet at Highland Peak in the Highland Range. Much of the crest of the Highland and Bristol Ranges exceeds 8,000

feet elevation. Topographically, Dry Lake Valley floor is higher than the adjoining basins on the east and west.

The hydrostratigraphy of Dry Lake Valley is outlined in Brothers, et al. (1996) as unconsolidated valley fill deposits and consolidated rocks consisting of Paleozoic carbonate, Paleozoic clastic rocks and Tertiary volcanic rocks. Unconsolidated alluvial materials and Paleozoic carbonates provide the best aquifer materials (Plate 4-12).

The Dry Lake Valley basin is located in the Central Region as defined by Harrill, et al. (1988) and is part of the regional interbasin flow system known as the White River Flow System. The depth to groundwater in most of Dry Lake Valley is generally more than 200 feet (bgs) and many places more than 800 feet (bgs), flowing from north to south. Shallow water at Bristol Well near the north end of the Bristol Range and one well south of Highway 93 in the southern part of the valley are considered to represent perched water zones (Eakin, 1963c). The source of groundwater in Dry Lake Valley is primarily mountain front precipitation. The reported estimate for recharge from precipitation over Dry Lake Valley is 5,000 AFA (Eakin, 1963c). Dry Lake Valley basin is considered to be an open basin in which all groundwater exits the valley to Delamar Valley basin then through a major fault zone to Pahranaagat Valley (Brothers et al., 1996). There is no surface water except for occasional water in the playa after storms, and all surface drainage is internal to the basin.

Brothers et al. (1996) estimated that approximately 4,800,000 AFA of recoverable groundwater exists in the upper 100 feet of saturated aquifer material and an additional 800,000 AFA in the carbonate aquifer. Based on this information, the perennial yield of Dry Lake Valley has been estimated to be 2,500 AFA (NDWR, 1992), which is the value currently used by the State Engineer for management purposes.

**Table 4-35. Groundwater Summary Dry Lake Valley**

| Element                     | Quantity (AFA)  | Notes                   |
|-----------------------------|---|-------------------------|
| <b>INFLOW</b>               |   |                         |
| Recharge from Precipitation | 5,000   |                         |
| Subsurface Inflow           | Minor   |                         |
| <b>OUTFLOW</b>              |   |                         |
| Evapotranspiration          | Minor   |                         |
| Surface flow                | None  |                         |
| Subsurface Outflow          | 5,000   |                         |
| Pumpage / Irrigation        | 60  | Lopes and Evetts (2004) |
| <b>COMMITTED RESOURCES</b>  | 57  |                         |
| <b>PERENNIAL YIELD</b>      | 2,500   |                         |
| <b>STORAGE</b>              | 4.8 million ac-ft in alluvial aquifer<br>800,000 ac-ft in carbonate aquifer | Brothers et al., 1996   |

The NDWR Well Log Database (NDWR, 2005) included 21 new or replacement well entries in the Dry Lake Valley basin as shown in Table 4-36. Most of the groundwater production in the basin appears to be for stock watering purposes.

**Table 4-36. Dry Lake Valley Existing Wells**

| Well Use   | Number Of Wells |
|------------|-----------------|
| Domestic   | 2               |
| Irrigation | 5               |
| Stock      | 5               |
| Test Well  | 9               |

The USGS NWIS database (USGS, 2005) lists 12 wells in Dry Lake Valley. Depths to groundwater generally exceed 200 feet throughout most of the basin. Periodic groundwater level measurements from an MX well (Figure 4-23) on the west side of the basin show increasing water levels for the past 25 years.

Another MX well in the southern part of the basin (Figure 4-24) shows a similar increase although has generally remained more stable through recent years. A spring lies on the CRC corridor near the western edge of the basin but this likely reflects perched water and may not represent a reliable water supply. Generally groundwater along the corridor is more than 200 feet deep.

Water quality data was available for only 1 well in Dry Lake Valley in the USGS NWIS database (USGS, 2005). This had a TDS value of 377 gm/l. Sulfate was less than 30 mg/l and fluoride less than 1 mg/l.

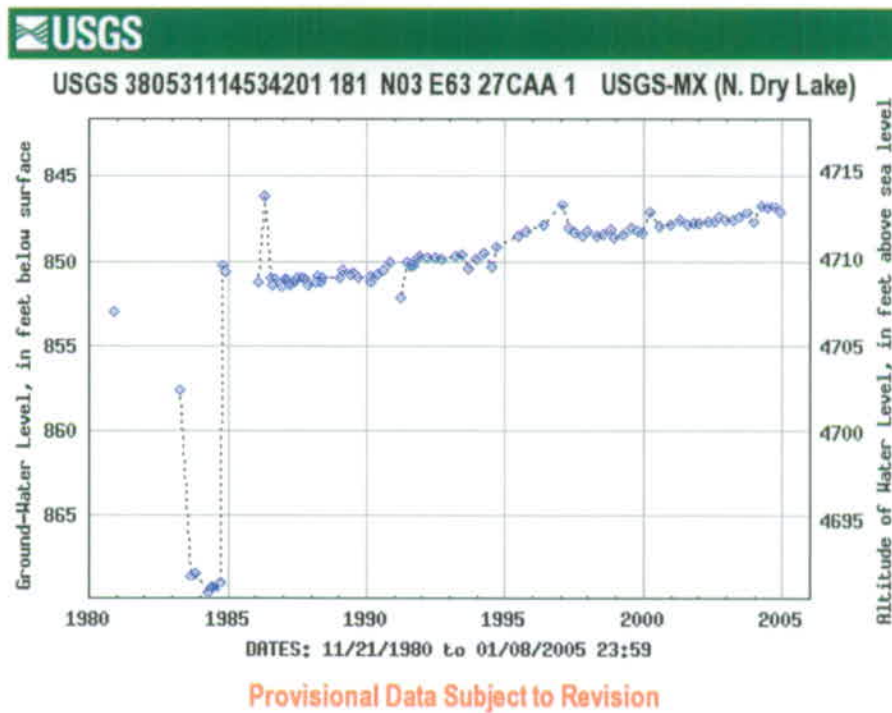


Figure 4-23. USGS-MX Well (N. Dry Lake) near west side of valley (U-1394)

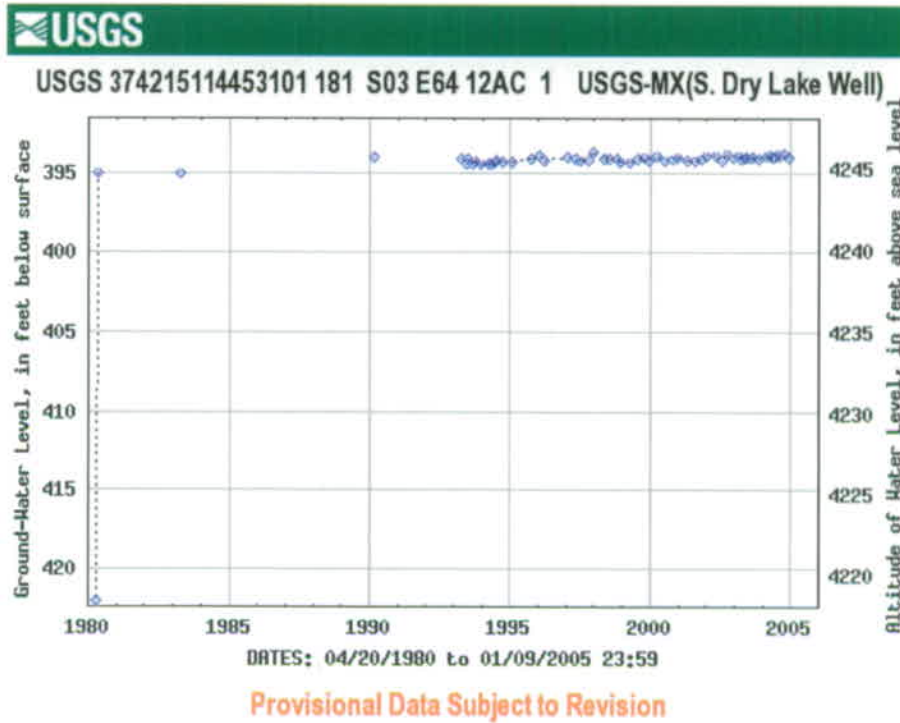


Figure 4-24. USGS-MX (S. Dry Lake) Well (U-1510)

**4.1.19 Panaca Valley (Basin 203)**

Panaca Valley (Plates 4-13a and 4-13b) lies east of Dry Lake Valley. The basin covers an area of 334 square miles (NDWR, 1992) in Lincoln County, which includes the town of Panaca. Panaca Valley is bound by the Chief and Highland Ranges on the west to the Mahogany Mountains and Cedar Mountains on the east, and from Cove Canyon near Caliente on the south to the Pioche Hills on the north. Elevations range from 4,400 feet at the low point near Caliente to about 9,295 feet at Highland Peak in the Highland Range. Groundwater in the Panaca Valley is used mostly for irrigation purposes.

Paleozoic age carbonate and clastic rocks make up the Highland Range and parts of the Chief Range and Pioche Hills. Most of the Mahogany Mountains and Cedar Mountains consist of Tertiary volcanic rocks and other crystalline rocks. Fine-grained Pliocene lakebeds form terraces at various places in the Panaca Valley. Groundwater is produced primarily from alluvial valley fill although low yielding wells have produced water from thin sand beds in the Panaca formation lakebeds. Water also occurs in fractured volcanic rocks and



carbonate rocks. One large spring north of Panaca, Warm Spring, discharges from solution cavities in Paleozoic carbonate rocks (Rush, 1964).

The perennial yield for Panaca Valley has been estimated to be 9,000 AFA (NDWR, 1992) with committed resources of 33,410 AFA (NDWR, 2004b). Precipitation in the Panaca Valley is approximately 6.4 to 10.6 inches per year (Phoenix, 1948). Higher elevations of the basin near Highland Peak receive considerably more rainfall (on the order of 20 inches) (Rush, 1964). Phoenix (1948) estimated recharge from precipitation at 6,000 AFA. Surface flow into the basin from Meadow Valley Wash was estimated at 2,550 AFA and groundwater inflow is minor at 20 AFA. Phoenix (1948) also estimated the contribution to the valley from Warm Springs at 5,800 AFA and discharges from other springs at 300 AFA. Most of the discharge is as surface flow at the entrance to Cove Canyon where Phoenix (1948) measured it as 900 AFA. Subsurface flow of groundwater is to Lower Meadow Valley and is estimated to be 125 AFA. Losses to evapotranspiration in the basin were estimated at 13,440 AFA. Groundwater flow is generally toward the south, as shown in Plate 4-13b. Rush (1964) estimated aquifer storage to be 1,400,000 ac-ft within the upper 100 feet of saturated material.



**Table 4-37. Groundwater Summary Panaca**

| <b>Element</b>              | <b>Quantity (AFA)</b> | <b>Notes</b>                    |
|-----------------------------|-----------------------|---------------------------------|
| <b>INFLOW</b>               |                       |                                 |
| Recharge from Precipitation | 6,000                 |                                 |
| Subsurface Inflow           | 20                    |                                 |
| <b>Surface Inflow</b>       | 2,550                 |                                 |
| <b>Springs</b>              | 6,100                 |                                 |
| <b>OUTFLOW</b>              |                       |                                 |
| Evapotranspiration          | 13,440                |                                 |
| Surface flow                | 1,025                 |                                 |
| Subsurface Outflow          | 125                   |                                 |
| Pumpage / Irrigation        | 7,500                 | Rush (1964) - much greater now. |
| <b>COMMITTED RESOURCES</b>  | 33,410                |                                 |
| <b>PERENNIAL YIELD</b>      | 9,000                 |                                 |
| <b>STORAGE</b>              | 1,400,000 ac-ft       |                                 |

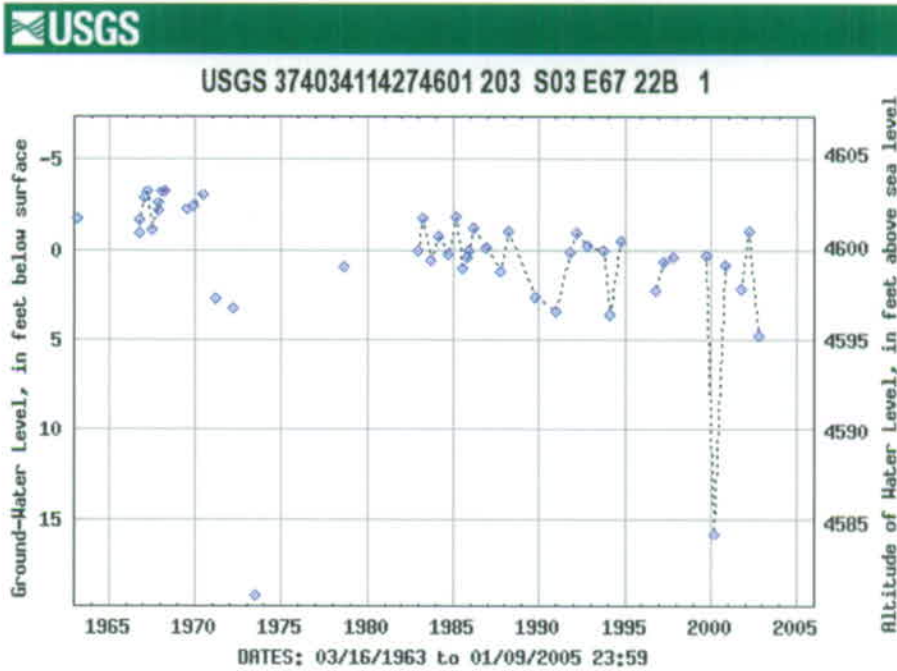
The NDWR Well Log Database (NDWR, 2005) included 228 new or replacement well entries in the basin as shown in Table 4-38. The USGS NWIS database (USGS, 2005) lists 28 wells in Panaca Valley. Groundwater depths range from -3 (above surface) to 200 feet (bgs) although most areas are less than 60 feet (bgs). The shallowest groundwater along the various segments of the CRC in this basin occurs in the central part of the basin along US Highway 93 where groundwater is generally less than 60 feet deep. Though poorly known, groundwater is likely to be deeper where the corridor exits the basin on the east and west sides.

Groundwater levels fluctuate seasonally in Panaca Valley but have generally declined 5-15 feet since the 1960s as illustrated by figures 4-38 and 4-39 below. Rush (1964) indicated that there were 60 irrigation wells and 5 municipal wells active in the Panaca Valley in 1963 recovering about 7,500 AFA of water. Nearly twice as many wells are currently operating in Panaca Valley creating a significant overdraft on the groundwater reservoir.

**Table 4-38. Panaca Valley Existing Wells**

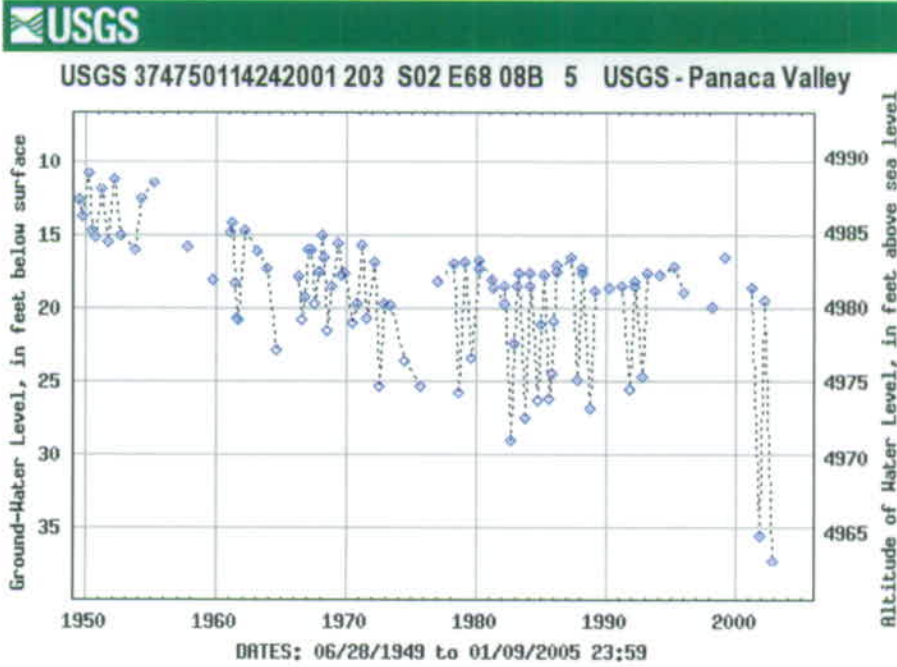
| Well Use                | Number of Wells |
|-------------------------|-----------------|
| Commercial              | 8               |
| Domestic                | 92              |
| Industrial              | 1               |
| Irrigation              | 100             |
| Monitoring Well         | 1               |
| Other                   | 1               |
| Public Supply-municipal | 8               |
| Stock                   | 8               |
| Test well               | 9               |

The USGS NWIS database (USGS, 2005) lists water quality data for 10 wells or springs. Based on reported specific conductance measurements, the water generally has TDS values in the range of 230 mg/l to 770 mg/l. Phoenix (1948) lists 9 analyses of springs and wells in the Panaca Valley with TDS values ranging from 240 mg/l to 615 mg/l.



Provisional Data Subject to Revision

Figure 4.25 Water Level Decline in USGS Well (unnamed) (U-1506)



Provisional Data Subject to Revision

Figure 4.26 Water Level Decline USGS Panaca Valley Well (U-1531)

#### **4.1.20 Escalante Desert (Basin 197)**

Escalante Desert (Plate 4-14) is located east of Panaca Valley covering an area of 106 square miles (NDWR, 1992) in eastern Lincoln County east of Panaca. The basin extends from the Mahogany Mountains on the west and northwest to the Utah State line on the east. Elevations range from 5,675 feet at the low point near Uvada on the State line to 7,752 feet at Lodge Peak in the Mahogany Mountains. Groundwater in the Escalante Desert basin is used mostly for stock purposes. Most of the Mahogany Mountains consist of Tertiary volcanic rocks. Groundwater is produced primarily from valley fill although water does occur in fractured volcanic rocks.

Published data on water resources in the Escalante Desert basin is very sparse. The Utah Division of Water Rights database shows several wells at Modena approximately 9 miles east of the Nevada-Utah State line but does not list wells installed before 1991.

The perennial yield for this basin has been estimated to be 1,000 AFA (NDWR, 1992) with committed resources of 71 AFA (NDWR, 2004b). Based upon elevation and rainfall in the adjacent Panaca and Dry Valley basins (Rush, 1964) precipitation in the Nevada portion of the Escalante Desert basin is estimated at between 12 and 17 inches per year. The only likely source of inflow to the basin is recharge from precipitation within the basin. According to Glancy and Van Denburgh (1969) this amounts to 2,300 AFA. Groundwater is relatively deep so evapotranspiration is considered negligible. Except for minor amounts of pumped water, nearly all groundwater flows east to Utah.

**Table 4-39. Groundwater Summary Escalante Desert Basin**

| Element                     | Quantity (AFA) | Notes                          |
|-----------------------------|----------------|--------------------------------|
| <b>INFLOW</b>               |                |                                |
| Recharge from Precipitation | 2,300          |                                |
| Subsurface Inflow           | Minor          |                                |
| <b>OUTFLOW</b>              |                |                                |
| Evapotranspiration          | Minor          |                                |
| Surface flow                | Minor          |                                |
| Subsurface Outflow          | 2,300          | To Utah                        |
| Pumpage / Irrigation        | 40             | Lopes and Evetts (2004)        |
| <b>COMMITTED RESOURCES</b>  | 71             |                                |
| <b>PERENNIAL YIELD</b>      | 1,000          |                                |
| <b>STORAGE</b>              | 190,000 ac-ft  | Glancy and Van Denburgh (1969) |

The NDWR Well Log Database (NDWR, 2005) included 8 new or replacement well entries in the basin as shown in Table 4-40. The USGS NWIS database (USGS, 2005) lists 4 wells in the Escalante Desert basin. Water depths range from 97 to more than 240 feet (bgs). Groundwater depths along the CRC range from 130 to 230 feet (bgs) based on only 2 wells. The USGS NWIS database (USGS, 2005) lists no water quality data for wells in this basin.

**Table 4-40. Escalante Desert Basin Existing Wells**

| Well Use   | Number of Wells |
|------------|-----------------|
| Irrigation | 1               |
| Other      | 1               |
| Mining     | 2               |
| Stock      | 4               |

**4.1.21 Clover Valley (Basin 204)**

Clover Valley (Plate 4-15) extends east from Caliente town site covering an area of 364 square miles (NDWR, 1992) in eastern Lincoln County. It is bounded on the north by the Cedar Mountains and on the south by the Clover Mountains.

The basin extends eastwards to the Utah State line. Elevations range from 4,395 feet at Caliente on the West Side of the basin to 7,555 feet at Sawmill Mountain on the south side of the basin.

Tertiary volcanic rocks make up the northern flank of the Clover Mountains and the Cedar Mountains. Basin fill deposits occur along Clover Valley Wash, near Caliente town site, and in the northeastern part of the basin. Wells have been developed in both the volcanic rocks and in basin fill deposits. Groundwater flow is toward the northwest from the Clover Mountains and through Clover Valley Wash and to the southwest from the Cedar Mountains towards Clover Valley Wash.

**Table 4-41. Groundwater Summary Clover Valley Basin**

| Element                     | Quantity<br>(AFA) | Notes                   |
|-----------------------------|-------------------|-------------------------|
| <b>INFLOW</b>               |                   |                         |
| Recharge from Precipitation | Unknown           |                         |
| Subsurface Inflow           | 125               | From Panaca Valley      |
| Surface Inflow              | 1,025             | From Panaca Valley      |
| <b>OUTFLOW</b>              |                   |                         |
| Evapotranspiration          | Unknown           |                         |
| Surface flow                | Unknown           |                         |
| Subsurface Outflow          |                   |                         |
| Pumpage / Irrigation        | 120               | Lopes and Evetts (2004) |
| <b>COMMITTED RESOURCES</b>  | 5,034             |                         |
| <b>PERENNIAL YIELD</b>      | 1,000             |                         |
| <b>STORAGE</b>              | Unknown           |                         |

The NDWR Well Log Database (NDWR, 2005) included 34 new or replacement well entries in the Clover Valley basin as shown in Table 4-42. The USGS NWIS database (USGS, 2005) lists 22 wells in Clover Valley basin. Depths to groundwater range from 2.5 feet near Clover Valley Wash to more than 220 feet (bgs) in the higher elevation areas of the Clover Mountains. Groundwater

depths along the short segment of the CRC range from less than 10 to approximately 50 feet (bgs) as show in Plate 4-15.

**Table 4-42. Clover Valley Basin Existing Wells**

| Well Use        | Number Of Wells |
|-----------------|-----------------|
| Commercial      | 3               |
| Domestic        | 9               |
| Irrigation      | 5               |
| Monitoring Well | 4               |
| Other           | 2               |
| Stock           | 7               |
| Unused          | 4               |

The USGS NWIS database (USGS, 2005) contains very limited water quality data for the Clover Valley basin. Analyses are mostly for springs near Caliente where specific conductance measurements range from 40 to 518  $\mu\text{S}/\text{cm}$  corresponding to TDS values of about 30 to 350 mg/l.

**4.2 Description of Water Rights Data**

The State Engineer’s office maintains water rights records in Carson City and a database that provides summary information about each application and permit on file. The water rights database was used to develop abstracts for each basin within the Study Corridor, which contained quantitative summaries of water rights by status and use. Water rights abstracts for each basin within the Study Corridor are included in Appendix C.

Individual queries were also run on the database to provide a listing of basic information for all water rights meeting specific status criteria in each of the Study Corridor basins. Table 4-43 includes a summary of the fields included as “output” for each query and corresponding explanations for each field. Each basin-specific query included all surface and underground appropriations meeting the status criteria of Vested, Certificated, Decreed, and Permitted. It should be noted that these queries are subject to change (with time) and were run based on information in the State’s water rights database on December 15,

2004. According to the State Engineer’s office, information contained in the water rights database may have an 8 to 12 month lag in the time the office receives permit correspondence to when the database is updated.

**Table 4-43 – Explanation of Water Rights Database Fields**

|                         |   |
|-------------------------|---|
| <b>BASIN</b>            | Refers to the Nevada hydrographic basin location in which the appropriation is assigned.  |
| <b>APP</b>              | Sequential number assigned to each application upon endorsement by State Engineer, priority determination is based on date associated with application number   |
| <b>CERT</b>             | Sequential number assigned to each certified permit.  |
| <b>DATE</b>             | Date associated with application number, used to identify and establish priority  |
| <b>STAT<sup>1</sup></b> | Designation of appropriated permit status (4 types considered for this project: decreed, vested, certificated, permitted)   |
| <b>SRC<sup>2</sup></b>  | Type of source at the point of diversion (underground, surface or geothermal)   |
| <b>QQ</b>               | 40-acre 'Quarter-Quarter' Section in legal description  |
| <b>QTR</b>              | 160-acre 'Quarter' Section in legal description   |
| <b>SEC</b>              | 1-sq.mile (640-ac) Section designation in legal description   |
| <b>TWN</b>              | Township, legal description   |
| <b>RNG</b>              | Range, legal description  |
| <b>CFS</b>              | Cubic feet per second, allowable diversion rate set out in the permit terms   |
| <b>USE<sup>3</sup></b>  | Principle use, Nevada allows one principle use for each permit (some overlaps occur)  |
| <b>SUP</b>              | Supplemental right, or water right that has a pending change, if it includes dividing original right into several the original duty may not be exceeded   |
| <b>ACRES</b>            | Number of irrigated acres, for Irrigation permit types  |
| <b>DUTY</b>             | Amount of water the permit holder is allowed to divert annually is the limitation noted or amount specified and subject to court decree   |
| <b>UNIT<sup>4</sup></b> | Unit of measurement applied to permit duty  |
| <b>CO</b>               | County of record  |
| <b>Owner_of_Record</b>  | Current owner of record for designated permit. NDWR generally has an 8-month to 1-year lag on updating Owners of Record changes when filed. Note that in some cases NDWR does not receive Deed of Sale (for land transactions with water rights). |

**Notes:**

<sup>1</sup> **STAT** (Appropriation Status):

DEC - Decreed water rights are subject to a court decree.

VST - Vested rights to surface waters are those rights for which the work to establish beneficial use was initiated prior to march 1, 1905, the date of adoption of Nevada’s Water Law. Vested rights from an underground source are those rights initiated prior to March 22, 1913 for artesian water and prior to March 22, 1939 for percolating water. The process that determines the extent of all vested rights on a water source is called adjudication. Vested rights have a leading ‘V’ placed on the application number.

CERT - A perfected appropriation becomes certified with a unique certification number designation. Certification is granted once the proofs have all been filed and the other terms of the permit complied with. State Engineer then prepares a Certificate of Appropriation describing the use to be made of the water as shown on the Proof of Beneficial Use and the appropriation becomes certified.



PER- Permitted water rights are those that have been appropriated for beneficial use but are subject to availability of unappropriated water, existing rights, and the public interest. A permit to appropriate water grants the right to develop a certain amount of water from a particular source for a certain purpose and to be used at a definite location. The permitted right can become a perfected appropriation, or certified, only upon: 1) completion of the works of diversion; 2) the placing of the water to beneficial use; and 3) filing the proofs required.

<sup>2</sup>SRC (Underground, Surface, or Geothermal):

UG - Underground:

UG- Underground (well)

OGW- Other groundwater

SURF - Surface:

EFF- Effluent

LAK- Lake

OSW- Other surface water

RES- Reservoir

SPR- Spring

STO- Storage

STR- Stream

GEO - Geothermal

<sup>3</sup>USE:

COM- Commercial

CON- Construction

DEC- As Decreed

DOM- Domestic

DWR- Dewatering

ENV- Environmental

IND- Industrial

IRC- Irrigation (Carey Act)

IRD- Irrigation (DLE-Desert Land Entry)

IRR- Irrigation

MM- Mining and Milling

MUN- Municipal

OTH- Other

PWR- Power

QM- Quasi-Municipal

REC- Recreation

STK- Stockwatering

STO- Storage

WLD- Wildlife

<sup>4</sup>UNIT:

AFA- Acre-feet annually

AFS- Acre-feet seasonally

MGA- Million gallons annually

MGS- Million gallons seasonally

### 4.3 Appropriations Summary

Appropriations were summarized for each of the 50 Study Corridor Basins and categorized based on distance from the CRC in three (3) groups: 0-5 miles, 6-10 miles, and 11-20 miles. These locations as well as the 5, 10, and 20-mile limits are shown on Plates 4-16 through 4-18. Note that the 20-mile limit is also defined as the 40-mile buffer (Study Corridor), or 20 miles to each side of the CRC. The designated location for each water right is based on the location of the point-of-diversion (see Section 3) as specified on the permit. These locations are displayed by placing a highlighted boundary around the legal Section in which they are located. Note that the distance relationship to the CRC is based only on the location of the legal Township, Range, and Section (TRS). As an example, if a water right was located in a legal Section where any part of that Section fell within 5 miles of the CRC.

These water rights were also identified by whether or not they were located within any of 21 CRC basins (basins crossed by proposed CRC) or the 29 basins not crossed by the CRC, or non-CRC basins. Note the Study Corridor (40-miles wide centered about the main ROW for the CRC) includes all or parts of 50 total hydrographic basins, while the CRC includes all or parts of 21 total basins (referred to as CRC basins).

Based on queries that were run on the NDWR's Water Rights Database (see Appendix C), which included only Vested, Certificated, Decreed, and Permitted appropriations, there were a total of 1,628 water rights within the 40-mile Study Corridor, 793 of which are underground and 835 are surface water rights. Within the 21 CRC basins, there were 1,036 (out of 1,628) water rights meeting the criteria described above. Out of the 1,036 water rights in the 21 CRC basins, 436 are underground and 600 are surface water.

A summary accounting of existing water rights in CRC and Non-CRC basins is provided in Table 4-44. Table 4-45 includes a summary status for groundwater sources in each CRC basin, while Table 4-46 includes a summary status for groundwater sources in each Non-CRC basin. Appendix B provides more detailed summaries for groundwater sources by manner of use and

current status for each of the Study Corridor Basins. Plates 4-16 thru 4-18 include graphical information on the locations of identified surface and underground water rights throughout the 40-mile Study Corridor. It should be noted that the “Committed Resources” column in Table 4-45 may not include all Decreed and Adjudicated appropriations. Generally in Nevada, most Decreed rights apply to surface water. Out of the 51 total Decreed rights included in Study Corridor basins for this project (meeting the applied query criteria) there are 12 Decreed appropriations that are underground.

**Table 4-44 – Existing Basin Appropriation Summary**

|                | No. of Underground Resources | No. of Surface Water Resources |
|----------------|------------------------------|--------------------------------|
| CRC Basins     | 436                          | 600                            |
| Non-CRC Basins | 357                          | 235                            |

**Table 4-45 – Basin Status Summary- CRC Basins (Groundwater Sources)**

| Basin Number      | Size sq. mi. | Perennial Yield <sup>1</sup> , AFA | Committed Resources <sup>2</sup> , AFA | Pending Annual Duty <sup>2</sup> , AFA | Designated <sup>1</sup> |
|-------------------|--------------|------------------------------------|--|--|-------------------------|
| 141               | 971          | 6,000                              | 1,871                                  | 0                                      | Yes                     |
| 142               | 313          | 3,000                              | 1,708                                  | 0                                      | No                      |
| 144               | 535          | 350                                | 226                                    | 0                                      | No                      |
| 145               | 381          | 100                                | 12                                     | 0                                      | No                      |
| 146               | 812          | 3,000                              | 3,586                                  | 0                                      | Yes                     |
| 149               | 985          | 2,000                              | 8,964                                  | 5,120                                  | Yes                     |
| 156               | 1,036        | 5,500                              | 4,220                                  | 11,200                                 | No                      |
| 170               | 700          | 4,000                              | 14,461                                 | 3,808                                  | Yes                     |
| 171               | 460          | 6,000                              | 38                                     | 0                                      | No                      |
| 172               | 493          | 6,000                              | 454                                    | 14,784                                 | No                      |
| 173A              | 603          | 2,800                              | 3,890                                  | 23                                     | No                      |
| 173B              | 2,149        | 75,000                             | 26,633                                 | 201,695                                | No                      |
| 181               | 882          | 2,500                              | 57                                     | 11,584                                 | No                      |
| 197               | 106          | 1,000                              | 71                                     | 0                                      | No                      |
| 203 <sup>3</sup>  | 334          | 9,000                              | 33,410 <sup>3</sup>                    | 0                                      | Yes                     |
| 204               | 364          | 1,000                              | 5,034                                  | 0                                      | No                      |
| 207               | 1,607        | 37,000                             | 29,781                                 | 93,728                                 | No                      |
| 208               | 508          | 21,000                             | 30                                     | 0                                      | No                      |
| 227A <sup>4</sup> | 279          | 24,000                             | 58                                     | 5                                      | No                      |
| 228 <sup>4</sup>  | 460          |                                    | 1,301                                  | 200                                    | Yes                     |
| 229 <sup>4</sup>  | 182          |                                    | 1,516                                  | 46                                     | No                      |

Notes:

- <sup>1</sup> Perennial Yield estimates based on NDWR- Division of Water Planning (1992).
- <sup>2</sup> Data subject to change, current as December 2004. Pending duties are based on the total applications for appropriations yet to be developed and/or permitted. Committed resources may not include Decreed and Adjudicated rights.
- <sup>3</sup> At the time data was collected, Basin 203 had not been supplementally adjusted and as a result, may include supplemental duties as well as duties associated with applications scheduled to change.
- <sup>4</sup> Perennial yield estimate for Basins 225 - 230 = 24,000 AFA combined based on NDWR (1992). State Engineer uses 24,000 AFA for Basin 230 for planning purposes (verbal communication, NDWR). See Section 4.1 for more information.

**Table 4-46 – Basin Status Summary- Non-CRC Basins (Groundwater Sources)**

| Basin Number      | Size sq. mi. | Perennial Yield <sup>1</sup> , AFA | Committed Resources <sup>2</sup> , AFA | Pending Annual Duty <sup>2</sup> , AFA | Designated <sup>1</sup> |
|-------------------|--------------|------------------------------------|--|--|-------------------------|
| 137A              | 1,603        | 6,000                              | 21,079                                 | 0                                      | Yes                     |
| 143               | 555          | 20,000                             | 23,882                                 | 0                                      | No                      |
| 147               | 684          | 1,900                              | 414                                    | 0                                      | No                      |
| 148               | 403          | 300                                | 250                                    | 0                                      | No                      |
| 155C              | 510          | 1,000                              | 17                                     | 0                                      | No                      |
| 157               | 350          | 2,200                              | 0                                      | 0                                      | No                      |
| 158A              | 663          | 2,800                              | 12                                     | 0                                      | No                      |
| 159               | 305          | 350                                | 0                                      | 0                                      | No                      |
| 160               | 463          | 16,000                             | 0                                      | 0                                      | No                      |
| 169A              | 607          | 1,300                              | 7                                      | 0                                      | No                      |
| 180               | 362          | 2,000                              | 35                                     | 0                                      | No                      |
| 182               | 383          | 3,000                              | 7                                      | 0                                      | No                      |
| 196               | 413          | 5,000                              | 397                                    | 0                                      | No                      |
| 198               | 113          | 1,000                              | 7,048                                  | 0                                      | No                      |
| 199               | 12           | 100                                | 1,661                                  | 0                                      | No                      |
| 200               | 52           | 300                                | 425                                    | 0                                      | No                      |
| 201               | 287          | 4100                               | 988                                    | 1,320                                  | No                      |
| 202               | 418          | 4,500                              | 5,973                                  | 26,687                                 | No                      |
| 205               | 979          | 5,000                              | 23,825                                 | 3,135                                  | Yes                     |
| 206               | 234          | Minor                              | 0                                      | 0                                      | No                      |
| 209               | 768          | 25,000                             | 9,141                                  | 20,428                                 | No                      |
| 221               | 192          | 1,000                              | 2,104                                  | 0                                      | No                      |
| 222               | 907          | 36,001                             | 12,378                                 | 185,340                                | Yes                     |
| 225 <sup>4</sup>  | 110          | 24,000                             | 9                                      | 0                                      | No                      |
| 226 <sup>4</sup>  | 82           |                                    | 0                                      | 0                                      | No                      |
| 227B <sup>4</sup> | 240          |                                    | 0                                      | 0                                      | No                      |
| 230 <sup>4</sup>  | 896          |                                    | 24,834                                 | 30,730                                 | Yes                     |
| 231               | 162          |                                    | 400                                    | 12                                     | 0                       |
| 232               | 182          | 150                                | 248                                    | 0                                      | No                      |

**Notes:**

- <sup>1</sup> Perennial Yield estimates taken from NDWR- Division of Water Planning.

- <sup>2</sup> Data subject to change, current as December 2004. Pending duties are based on the total applications for appropriations yet to be developed and/or permitted.
- <sup>3</sup> Perennial yield estimates for Basins 225 - 230 = 24,000 AFA combined based on NDWR (1992). State Engineer uses 24,000 AFA for Basin 230 for planning purposes (verbal communication, NDWR). See Section 4.1 for more information.
- <sup>4</sup> Perennial yield estimate for Basins 225 - 230 = 24,000 AFA combined based on NDWR (1992). State Engineer uses 24,000 AFA for Basin 230 for planning purposes (verbal communication, NDWR). See Section 4.1 for more information.

## **5.0 Water Resource Planning Strategies**

### **5.1 Overview of Water Resources Strategies**

For planning purposes, DOE has estimated that a total of 6,400 acre-feet (approximately 2.1 billion-gallons) of water would be required for earthwork compaction, dust control, ballast production, and potable water supply during construction of the CRC rail line. This estimate was based on *Nevada Rail Partners, Construction Plan – Caliente Rail Corridor* (June 27, 2005).

Three (3) general options are described for obtaining water resources in support of rail construction activities, which include the following:

1. Obtain new, temporary appropriations using wells installed along the corridor within hydrographic basins while minimizing potential impacts to existing users in these areas.
2. Lease temporary water rights from existing permittees along the rail corridor.
3. Transport water by truck with water being obtained from permitted sources.

### **5.2 Development Approach**

#### **5.2.1 New Appropriations**

The following Sections provide an overview of the recommended approach for obtaining new appropriations to support construction activities along the CRC.

The approach also includes a discussion on options that may exist for the potential temporary transfer of water from existing water permits to support the project.

#### **5.2.1.1 Basin Status**

Based on Nevada Water Law as defined in NRS 534.120, applications for new appropriations to support temporary construction activities would likely stand a better chance of approval from the State Engineer if they are made in basins that have not been designated and the temporary use does not impact existing permitted users in the area. However, it should be noted that Designated basins are not considered "closed" to additional appropriations, just that additional restrictions and preferred uses of the water may be imposed as explained in Section 3 of this report.

#### **5.2.1.2 Availability of Water (Perennial Yield)**

In determining the quantity of water that can be appropriated from a groundwater basin, the State Engineer has historically looked to the perennial yield of that basin. The perennial yield is the amount of usable water from a groundwater aquifer that can be economically withdrawn and consumed each year for an indefinite period of time. It cannot exceed the natural recharge to that aquifer and ultimately is limited to maximum amount of discharge that can be utilized for beneficial use.

#### **5.2.2 Existing Appropriations**

Established water rights can be temporarily moved to an existing or new point of diversion. The point of diversion for underground water rights is usually a well. New wells may be constructed as points of diversion for temporary underground water appropriations. The wells must be properly abandoned at the end of the period specified on the temporary change permit.

Existing wells may also be used for temporary appropriations if the physical condition of the well meets project-specific requirements. A temporary change could be made to an existing well in another location or the change could be made in manner of use only at the location, or point of diversion already

designated on the permit. Existing wells that do not meet project-specific requirements can be replaced to accommodate the temporary change. If new or replacement wells are drilled ownership of the well would be maintained by the existing well owner prior to its replacement, or as designated on the existing water rights permit at the completion of the project.

Water rights can be sold or leased as part of a permit change. If leased, ownership of the permitted water right is retained by the owner designated on the permit during a temporary change. If an existing permit holder agrees to sell the water right, the permit would likely be forfeited or abandoned at the end of a temporary project unless the water right is sold again in accordance with another permit change. Refer to Section 3 of this report for additional information regarding changes to existing appropriations.

#### **5.2.2.1 Municipal Sources**

The sources that may represent the best potential for use of existing water appropriations may be unused portions of existing rights. Depending on the location for the place-of-use and project-specific needs at or near the location for the desired point of diversion, unused appropriations from municipal, quasi-municipal, industrial, commercial and power may provide the ideal conditions for obtaining a temporary change permit for a portion of an existing water right. In some cases a municipality, for example, may have a place-of-use (as described on the permit) large enough to move water via a temporary conveyance or water haulers from an existing permitted source to another location within the same place-of-use designated on the permit. Note that a "place-of-use," as designated on a permit, could be city limits for a municipal water rights permit. Municipal purveyors would have what could be considered unused appropriations when, for example, their designated "will-serve" amount is more than the actual duty specified on the existing water rights permit.

#### **5.2.2.2 Irrigation Sources**

Just as with any application to change an existing water right permit, proposed changes to irrigation rights, whether temporary or permanent, have to include

an explanation of where the existing source is located (at point of diversion), where that water is currently being used, and where the new source and use will be located. However, the following additional requirements generally apply to changes in irrigation permits:

1. If existing permit status is "certificated" (CER) or "decreed" (DEC), the applicant also has to show the location and portion, or amount, of land removed from irrigation during the proposed change.
2. If existing permit status is "permitted" (PER), it is implied that the Proof of Beneficial use has not been completed, which would indicate that the extent (amount of water) and location of irrigated land has not been fully established. In fact, it is common for permit holders to overestimate the amount of land in order to maximize the specified duty and/or diversion rate that is specified on the permit. However, because the certified amount ultimately depends upon that amount of water that can actually be put to beneficial use, a "permitted" irrigation right does not require a description of land being taken out of use during a temporary transfer.

### **5.2.3 Surface Water Appropriations**

As described in Section 4.3, over 50% of the water rights included within the Study Corridor (also described in Appendix C) are surface water appropriations. Nevada Statutes do not provide explicit measures preventing surface water from being applied or transferred for temporary construction projects. However, surface water appropriations present unique challenges that may preclude them from the planning process, particularly where underground water is available. These challenges generally include, but may not be limited to the following:

1. Surface water appropriations are often seasonal and may not be physically available all year, particularly in areas where water is diverted from ephemeral streams and springs.



2. New surface water diversions are more likely to impact existing users, particularly downstream, which may include wildlife habitats and wetlands areas. Therefore, surface water appropriations generally fall under tighter regulatory scrutiny when applications for new or changed points-of-diversion or manners-of-use are made.
3. Many existing surface water appropriations are subject to Court Decrees, which can in many cases, prohibit changes in place and manner of use.

### **5.3 Water Resources Development Strategy**

#### **5.3.1 Decision Criteria**

The following information is a description of decision criteria that is based on project requirements for anticipated water needs during construction of the CRC alignment. The objective of this decision analysis is to provide a planning tool during the decision-making process for obtaining water to support the project. The general approach used in the development of the decision analysis is described in the flow charts shown in Figures 5-1 thru 5-3. Included in Appendix D are detailed summaries that describe preferred alternatives for obtaining construction water for each of the CRC basins. Each table in Appendix D includes a presentation of potential scenarios and the corresponding results of subjecting each CRC basin to the various items described in flow charts (Figures 5-1 thru 5-3). This screening process considers the physical, geological, and infrastructure constraints for each basin.

In order to effectively apply the information collected during this water resources assessment and predict future events based on the anticipated hydrogeologic and regulatory frameworks within each basin, a decision analysis was developed. The general approach used in the development of the decision analysis is described within the flow charts shown in Figures 5-1 thru 5-3. The intent of this analysis was to provide a tool, which could be used to create a simple graphical model that could be easily understood and applied by

an end user. The criteria described within the decision analysis (Figures 5-1 thru 5-3) takes as input a situation described by a set of properties, and outputs a yes/no decision. The questions that must be answered during this process progressed from the fundamental to more complicated and less predictable. Therefore, the final outcome of this decision analysis for each basin was considered to be the "most likely" scenario rather than an absolute decision.

Application of the resulting decision analysis to each of the 21 CRC basins generated a decision matrix. In some cases, multiple "most likely" outcomes are shown in the decision matrix for individual basins. With the overall intent "to do what appears to be the most viable option for the project" and/or not to eliminate potentially viable alternatives prematurely, multiple outcomes arose from various situations such as hydrogeologic and infrastructure limitations, where one outcome best suited a portion of the corridor within a basin and potentially another alternative for other portions. As a result, in some basin multiple outcomes were arrived at, which resulted from situations where competing viable options were available in a basin. However, it should be noted that many of the decisions within the matrix and potential development scenarios will likely be subject to outcomes of: 1) future negotiations for rights or land, 2) discretionary decisions to be made by the State Engineer, 3) future engineering and economic analyses, and 3) additional information that may be required in order to better evaluate hydrogeologic conditions in areas where necessary information may be currently unavailable.

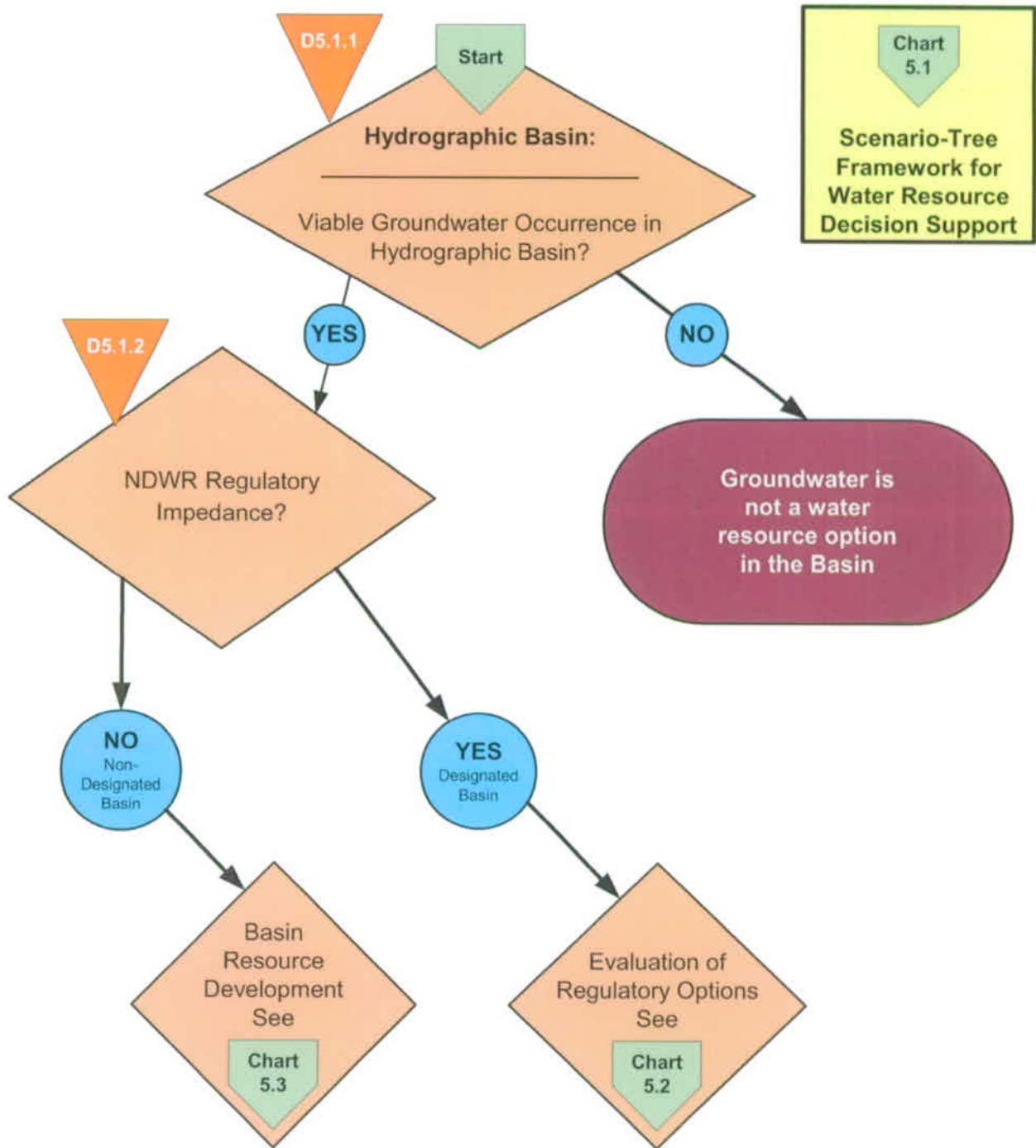


Figure 5-1. Decision Flow Chart (5.1)



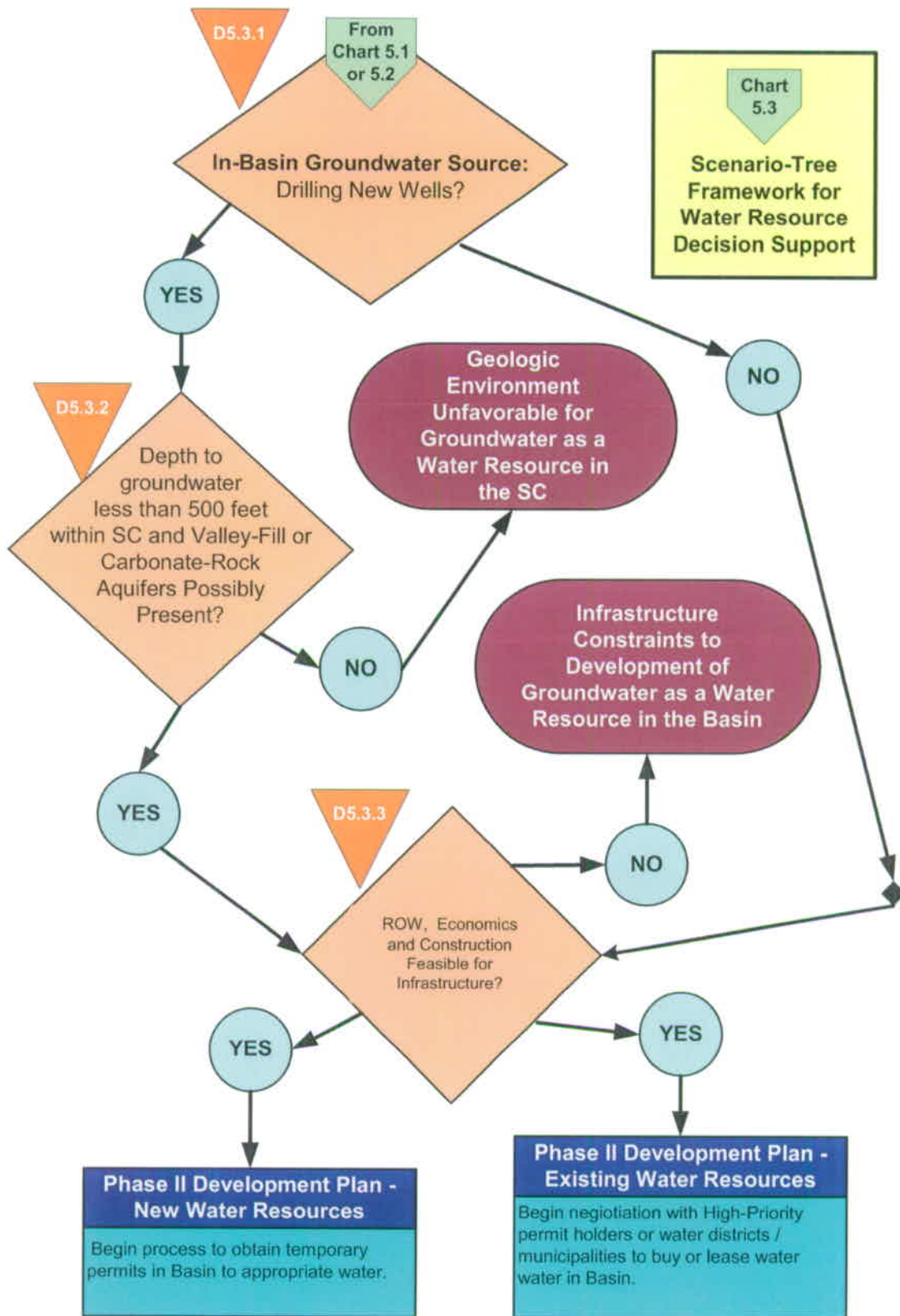


Figure 5-3. Decision Flow Chart (5.3)

Table 5.2 –Description of Scenario-Tree Decision Criteria

| Chart     | Decision | Question   | Basis for Decision  | Limitations  |
|-----------|----------|--|---|--|
| Chart 5.1 | D5.1.1   | Viable Groundwater Occurrence in Basin?                          | As long as there is a stated Perennial Yield for the Basin, we would view there is a viable groundwater occurrence.                                 | Unlikely to change                                     |
|           | D5.1.2   | Designated Status?   | Based on the NDWR's current status.   | Basins could be updated to Designated status           |
| Chart 5.2 | D5.2.1   | Water District or Municipality Present?                          | Under Nevada water law, a water district or municipality can sell water without concern for its general use.  | Identifying entities of interest                       |
|           | D5.2.2   | Majority of Permits for Non-Preferred Use?                       | A non-preferred use such as irrigation, could offer the possibility for temporary permits be issued for a preferred use such as building a railroad | State Engineer's Discretion                            |
|           | D5.2.3   | Purchase Water from Water District or Municipality?              | Under Nevada water law, a water district or municipality can sell water without concern for its general use.  | Likely to be infrastructure or resources constrained   |
|           | D5.2.4   | Lease opportunity from Permitted Sources?                        | If there are existing permitted sources close to or within the Study Corridor than opportunities should exist.                                      | Negotiation required                                   |
| Chart 5.3 | D5.3.1   | Consider New Well Development?                                   | Application for temporary permits should be considered.   | Permit process may be impeded                          |
|           | D5.3.2   | Groundwater less than 500 feet in Alluvial or Carbonate Aquifer? | Most likely to yield groundwater at an economical depth.  | May not yield favorable sites or might omit good sites |
|           | D5.3.3   | Infrastructure Feasibility?                                      | Source distance from the Study Corridor   | Routes may be hindered by land status                  |

**5.3.2 Decision Analysis**

The following Sections provide a summary description of the basin-specific scenarios that resulted from application of the criteria described in the proceeding Section. This decision analysis incorporated the information gathered as part of the water resources assessment for this project and the resulting decision matrix as explained herein and described for each basin in Appendix D.

### **5.3.2.1 Fortymile Canyon, Jackass Flats (Basin 227A)**

Forty-Mile Canyon, Jackass Flats is not a Designated basin, and generally has no existing appropriations that would be viable options for temporary utilization along the CRC. In addition, estimated depths to groundwater exceed 500 feet (bgs) near the CRC and throughout most of the basin. Reported well yields near the southern boundary (near Amargosa Desert) of the basin are generally on the order of 100-gpm or less.

The only potential options for temporary interbasin transfers would be from existing Industrial water rights totaling 61 AFA located in Crater Flat approximately 6 miles northwest of the CRC at the Fortymile Canyon boundary. There are also a few small quasi-municipal appropriations located less than 10 miles south of the CRC just outside of Fortymile Canyon in the Amargosa Desert basin. However, diversion of water from Amargosa Desert basin may be an unlikely scenario for providing temporary construction water in Forty-Mile Canyon (227A).

### **5.3.2.2 Crater Flat (Basin 229)**

Crater Flat is not a Designated basin and has few existing appropriations that would be viable options for temporary construction water along the CRC. Groundwater throughout most of Crater Flat is very deep (more than 500 feet) and occurs in volcanic (and some carbonate) rocks that are not especially favorable for water development. Former Mining production wells near the north end of the corridor and an Industrial well in the central part of the basin near the CRC may be potential options for temporary construction water transfers. At the south end of the basin groundwater is shallower, less than 400 feet, and occurs in valley fill materials, which may present a better opportunity for development of new wells where reported yields of existing wells vary from 60 to 200-gpm.

Utilization of existing water rights may also be an option (although limited) within Crater Flat. Mining and Industrial appropriations within 5 miles of the CRC total approximately 972 AFA. Although potentially less favorable, another option for utilization of existing water rights may be from Amargosa Desert



basin where there are large mining and milling water rights within 10 miles of the western edge of Crater Flat, or Oasis Valley Basin which has a few municipal water rights. However, haul and/or pipeline distances would be more than 20 miles for most of the CRC within Crater Flat if these potential interbasin transfer sources were to be used.

### **5.3.2.3 Oasis Valley (Basin 228)**

Oasis Valley is a Designated basin with several large surface water appropriations within 5 miles of the CRC where estimated groundwater depths generally vary from 40 to 80 feet (bgs) along the entire length of the CRC in the basin. Groundwater depths appear to increase significantly east of the CRC in the volcanic rock formations where depths generally exceed 500 feet (bgs). Groundwater depths also become deeper in the consolidated rocks toward the western part of Oasis Valley where estimated depths to groundwater approach 400 feet (bgs) in some areas.

A potential concern in Oasis Valley may be the fact that much of the shallow groundwater in the basin is reported to have elevated fluoride levels, and in some areas may exceed Nevada drinking water standards. Although groundwater may be much deeper just north of Beatty (on the order of 400 to 500 feet), groundwater quality appears to be of higher quality just north of Beatty. Available information on existing wells near Beatty indicates that potential yields may vary from 80 to nearly 275-gpm.

A potential option for construction water in Oasis Valley may be the temporary utilization of municipal underground appropriations that total 540 AFA and are located approximately 6 to 8 miles west of the CRC in the southwestern corner of the basin. Another potential option for temporary utilization of existing water rights could be the nearly 426 AFA of mining and milling (surface) appropriations located approximately 5 miles west of the CRC in the Amargosa Desert basin. There are also 80 AFA of existing municipal (underground) and 103 AFA of existing dewatering (underground) water rights within 6 to 10 miles of the CRC in Amargosa Desert.



#### **5.3.2.4 Sarcobatus Flat (Basin 146)**

Sarcobatus Flat is a Designated basin where committed resources currently exceed perennial yield of 3,000 AFA by nearly 20%. Utilization of existing appropriations may be the most feasible option within this basin. There are over 2,400 AFA in existing water rights within 5 miles of the CRC, most which are designated as irrigation. Some of these appropriations are located within the proposed ROW for the CRC. There is also a quasi-municipal water right with a flow rate of 3-cfs located less than 2 miles from the CRC. Estimated depths to groundwater along the CRC vary from less than 40 to approximately 120 feet (bgs). Reported yields from existing wells near the CRC are as high as 1,000-gpm. Note that most of the area east of the CRC in Sarcobatus Flat falls within the NTTR boundary.

There may exist a potential option for a temporary interbasin transfer from Oasis Valley to the CRC near the southern boundary of Sarcobatus Flat. Within 2 miles of the ROW of the CRC in Oasis Valley there are over 1,400 AFA in surface water appropriations from springs that are used for irrigation purposes. This area is less than 6 miles at the CRC from the southern boundary of Sarcobatus Flat, which is shared with Oasis Valley.

#### **5.3.2.5 Lida Valley (Basin 144)**

Lida Valley is not a Designated basin but the reported perennial yield is only 350 AFA and is 65% appropriated based on the perennial yield. Construction of new wells near the CRC for temporary appropriations appears to be the most viable option within Lida Valley. Estimated groundwater levels may be nearly 300 feet (bgs) in the northeastern part of the basin near the CRC, but appear to be more shallow toward the southeastern basin boundary at around 160 feet (bgs). It appears that development of temporary appropriations with new wells could be a potential option to support CRC construction in Lida Valley. However, based on limited information from existing wells near the CRC, maximum production capacity may be less than 50-gpm.

The temporary transfer of water from near Goldfield in Alkali Spring Valley appears to be a feasible option to support construction of the CRC along one of

the proposed alternative alignments that traverses the northeastern corner of Lida Valley. Near the town of Goldfield there are approximately 1,500 AFA of municipal rights that are less than 3 miles from the alternative alignment at the Alkali Spring boundary with Lida Valley. In addition, just north of Goldfield there are 200 AFA of mining and milling rights within 4 miles of the basin boundary at the CRC alternative.

There may also exist an option for consideration of a temporary interbasin transfer from an area in northern Sarcobatus Flat to Lida Valley. There are at least 210 AFA of appropriations (quasi-municipal and irrigation) that are less than 10 miles from the Lida Valley boundary (with Sarcobatus Flat) along the CRC (located within the proposed ROW).

Temporary utilization of existing water rights could also be an option within Lida Valley. Commercial and mining and milling appropriations exist within Lida Valley and total approximately 876 AFA, but are located approximately 18 miles west of the CRC along State Route 3.

#### **5.3.2.6 Stonewall Flat (Basin 145)**

Stonewall Flat is not a Designated basin but the reported perennial yield is only 100 AFA. There are few existing appropriations in this basin and they are all designated for stock water with limited annual duties. Little information is available on groundwater conditions, but production wells located in this basin are likely to produce low yields, particularly wells constructed in the volcanic rock formations. Based on limited available information, estimated depths to groundwater may exceed 200 feet (bgs) near the CRC. Also, it should be noted that almost the entire basin east of the CRC falls within the NTTR boundary.

If new temporary appropriations cannot be obtained for development of water resources from wells that yield sufficient quantity, an interbasin transfer from southern Alkali Spring Valley could be a potential option to support construction of the CRC along the CRC ROW within Stonewall Flat. Near the town of Goldfield there are approximately 1,500 AFA of municipal rights and approximately 200 AFA of mining and milling rights that are less than 8 miles from the ROW in the Stonewall Flat basin.

Another potential option, although less favorable, for a basin transfer could include a 237 AFA quasi-municipal water right in Cactus Flat, approximately 15 miles east of the CRC. However, any potential interbasin transfers of water from Cactus Flat would be at least 15 miles away and the infrastructure for delivery of water to the CRC from these areas would have to cross relatively rough terrain.

#### **5.3.2.7 Alkali Spring Valley (Basin 142)**

Alkali Spring Valley is not a Designated basin and is only 57% appropriated based on a perennial yield of 3,000 AFA. Estimated groundwater levels near Goldfield are generally less than 80 feet (bgs) in the area through which an alternative alignment of the CRC passes. However, it should be noted that reported water quality in the consolidated formations northwest of Goldfield are reported to have elevated TDS concentrations. Estimated depths to groundwater apparently increase to near 200 feet (bgs) between Goldfield and approximately 10 miles to the north along US Route 95. Although little information is available on groundwater conditions east of Goldfield toward the NTTR boundary, this basin could be considered for temporary appropriations from new wells.

Temporary utilization of existing water rights may also be an option within Alkali Spring Valley. Municipal and quasi-municipal appropriations within 5 miles of the CRC total approximately 775 AFA. Although potentially less favorable, another option for utilization of existing water rights may be from Clayton Valley (west of the CRC and Goldfield), where there are several large mining and milling water rights. However, most of these are between 11 and 20 miles west of the CRC and the required infrastructure to deliver water to the CRC would have to cross over relatively rough terrain.

#### **5.3.2.8 Ralston Valley (Basin 141)**

Ralston Valley is a Designated basin, although committed resources are reported to be significantly less than the perennial yield (6,000 AFA) of the basin. Ralston Valley has few high priority water rights near the CRC. In fact,

there are no existing water rights within 5 miles of the CRC. Throughout most of the area in which the CRC passes, estimated depth to groundwater may vary from 140 feet to more than 200 feet (bgs). Although no information is available on groundwater conditions near the southern boundary of Ralston Valley, groundwater appears to be less than 100 feet (bgs) near Goldfield in the adjacent basin (Alkali Spring Valley) to the west near the CRC. Note that the southern portion of Ralston Valley basin falls within the NTTR.

Temporary utilization of municipal and industrial water resources may be an option in Ralston Valley based on existing water rights with combined annual duties of over 1,000 AFA. However, these existing appropriations, which are generally located northeast of Tonopah in Ralston Valley, may be prohibitively far (12 to 17 miles) from the CRC for consideration. Due to the lack of available existing water rights near the CRC, development of new wells supported by new temporary appropriations may be the most feasible option for water resource requirements in Ralston Valley. In addition, temporary transfers of appropriations may provide an opportunity to divert existing rights to preferred locations (within the basin) along CRC alignments using new wells constructed along the CRC.

If new temporary appropriations cannot be utilized in Ralston Valley, another potential option could be interbasin transfers near the CRC ROW from Alkali Spring Valley to the west and Stone Cabin Valley to the east. Approximately 12 miles north of Goldfield (in Alkali Spring Valley) and less than 6 miles west of the ROW (in Ralston Valley), there are approximately 400 AFA of municipal and quasi-municipal appropriations near US 95.

Another potential option could be a temporary interbasin transfer of existing quasi-municipal underground water rights from Stone Cabin Valley, which are located less than 7 miles from where the CRC enters Ralston Valley from the east. These water rights account for approximately 900 AFA. The haul and/or pipeline distance to the CRC (in Ralston Valley) would generally be less from these sources in Stone Cabin Valley, compared to existing sources in Ralston Valley. Note that at least one existing interbasin transfer has been permitted in this basin, where groundwater that originates in Ralston Valley is transferred

to a different receiving basin (Big Smokey Valley) as part of Tonopah's municipal water supply.

#### **5.3.2.9 Stone Cabin Valley (Basin 149)**

Stone Cabin Valley is a Designated basin where committed resources currently exceed perennial yield (2,000 AFA) by nearly 4.5 times with another 5,100 AFA in pending annual duties (all irrigation applications). Utilization of existing appropriations may be the most feasible option within Stone Cabin Valley. There are over 900 AFA of existing quasi-municipal water rights that are less than 3 miles from the CRC (in some cases within the ROW) in the western part of the basin. There are also over 4,500 AFA of irrigation appropriations that lie within 4 miles of the CRC in the eastern part of the basin. Estimated groundwater depths are generally on the order of 100 feet (bgs) along most of the CRC within Stone Cabin Valley.

Options for temporary interbasin transfers would likely be limited to Hot Creek basin. However, there are very few existing appropriations in Hot Creek, most of which are small surface water rights.

#### **5.3.2.10 Hot Creek (Basin 156)**

Hot Creek is not a Designated basin but is 77% appropriated based on a perennial yield of 5,500 AFA. There are also 11,200 AFA in pending annual duties for this basin, all of which are irrigation applications. Estimated depths to groundwater vary from approximately 80 to 300 feet along both branches of the CRC — the northern alternative alignment (northern alignment) and the southern alternative alignment (southern alignment) of the CRC. The most viable option for temporary appropriations in Hot Creek to support construction of the CRC may be to obtain water rights for new wells. Based on existing information, the area near the northern alignment of the CRC may be better suited for installation of new wells. Reported yields for wells in this area vary from 20 to 250-gpm, while only a few small underground appropriations and limited well information exists near the main southern alignment of the CRC. This may be an indication of unfavorable conditions for new wells.

However, there are several existing surface water appropriations from spring diversions near the proposed southern CRC alignment.

Although limited, the only potential options for utilization of temporary interbasin transfers of water to support construction of the CRC in Hot Creek would be from Stone Cabin Valley to the west and Railroad Valley (North) to the east. In Stone Cabin Valley there are over 4,500 AFA in irrigation rights located approximately 10 miles southwest of where the CRC enters Stone Cabin Valley from Hot Creek. The only other potential location for an interbasin transfer, although not as favorable, could come from a 10,000 AFS (acre-feet seasonal) appropriation located in Railroad Valley (North), approximately 4 miles east of where the CRC enters Hot Creek. Although the annual duty is relatively large, these particular types of appropriations are generally restricted to seasonal use.

Options for temporary utilization of existing water rights are limited in Hot Creek as most of the existing appropriations are for stock water. However, near the southern alignment of the CRC there is an existing irrigation surface water right with 145 AFA located less than 4 miles from the CRC. There are also over 1,700 AFA from existing irrigation water rights located approximately 8 miles north of the northern alignment of the CRC.

#### **5.3.2.11 Railroad Valley, South (Basin 173A)**

Railroad Valley (South) is not a Designated basin, but appropriations exceed perennial yield (2,800 AFA) by nearly 40%. The depth and availability of groundwater differ significantly along the northern and southern alternative alignments of the CRC. Near the main southern alignment of the CRC groundwater depths may be more than 300 feet (bgs) in some areas based on data from only 2 wells. Near the northern alignment of the CRC, groundwater depths range from 60 feet where the corridor enters the basin on the north, to more than 200 feet (bgs) at the southeastern end of the basin. Many high yield irrigation wells with existing appropriations totaling 2,686 AFA lie within 5 miles of the northern alignment of the CRC, whereas only one existing water right of 22 AFA is located close to the southern alignment of the CRC.

Installation of new wells could be the best alternative for water on the southern CRC alignment, whereas temporary use of existing water rights would be the preferred option for the alternative alignment of the CRC. It should be noted that groundwater from wells along the northern alignment of the CRC alignments has been reported to have levels of fluoride (8 to 12 mg/l) in some areas that exceed Nevada Safe Drinking Water Standards.

#### **5.3.2.12 Railroad Valley, North (Basin 173B)**

Railroad Valley (North) is not a Designated basin and is 36% appropriated (based on a perennial yield of 75,000 AFA). However, there are currently over 106,000 AFA of pending irrigation duties and approximately 96,000 AFA of pending municipal duties in this basin. Only 5.5 miles of the northern alternative alignment of the CRC lies within Railroad Valley (North). Groundwater along this short segment of the northern alternative alignment of the CRC basin is approximately 200 feet (bgs).

The utilization of temporary appropriations from new wells appears to be the most feasible option for obtaining construction water in Railroad Valley (North) basin. Leasing of existing rights could also provide part of the required demand if needed. Existing water rights, which account for nearly 100 AFA of stock water permits (surface and underground) are located within 5 miles of the northern alternative alignment of the CRC.

Another potential option for temporary use of existing appropriations may be through an interbasin transfer of water from high yield irrigation wells with appropriations of nearly 2,700 AFA located in the northern part of the alternative alignment of the CRC route in the adjacent Railroad Valley (South) basin. Haul and/or pipeline distance for this option would be in the 6 to 12 mile range. However, groundwater in this area is reported to have high levels of fluoride (8 to 12 mg/l) near the northern alternative alignment of the CRC route in Railroad Valley (South) basin, which exceeds Nevada Safe Drinking Water Standards.

#### **5.3.2.13 Penoyer Valley (Basin 170)**

Penoyer Valley is a Designated basin where appropriations exceed perennial yield of 4,000 AFA by a factor of nearly 3.6 times. There are also 3,800 AFA of irrigation and commercial appropriations pending in this basin. Groundwater depths along the CRC range from 180 to more than 300 feet (bgs) with the shallowest areas toward the eastern portion of the basin. Groundwater conditions are poorly understood near the CRC and based primarily upon one well nearly 5 miles away from the CRC and downgradient into the valley having a water depth of 287 feet (bgs). It is likely that groundwater along the corridor will be deeper than 287 feet (bgs) based on the locations of existing wells (from which no water level data was reported) and the topography of the area near the CRC. Installation of new temporary wells along the CRC appears to be the most feasible option for obtaining construction water in Penoyer Valley.

Quasi-municipal wells with water rights totaling 3,600 AFA and several irrigation wells with total duties of nearly 4,500 AFA are located between 11 and 20 miles south of the CRC and could provide opportunities to temporary transfer of existing water. In this Designated basin, committed resources are greater than the perennial yield but many of the existing appropriations and wells are non-preferred use so temporary transfers from existing appropriations in the basin may be a viable option. In addition, temporary transfers of appropriations may provide an opportunity to divert existing rights to preferred locations (within the basin) along CRC alignments using new wells constructed along the CRC. Note, however, that changes to irrigation rights typically require the removal of land from production.

#### **5.3.2.14 Garden Valley (Basin 172)**

Garden Valley is not a Designated basin and is less than 8% appropriated based on a perennial yield of 6,000 AFA, but there are 11,584 AFA of municipal appropriations pending in this basin. Groundwater depths along the CRC vary from more than 300 feet (bgs) near the north end of the Worthington Mountains to approximately 120 (bgs) feet where the CRC crosses the Golden Gate Range. Near the southern alternative alignment of the CRC, groundwater



is very deep, generally 400 to 500 feet (bgs) except for the southern most area where the CRC passes through the water gap in the Golden Gate Range. In this area groundwater depth is approximately 120 feet (bgs). Depths to groundwater are shallow near the north-central part of Garden Valley approximately 5 miles from the northernmost alternative alignment of the CRC. Here, depths to groundwater are generally less than 100 ft (bgs).

It appears that temporary appropriations from new wells may be the most viable option for construction water in Garden Valley. Reported yields from existing wells within the ROW of the CRC vary from 27 to 215-gpm.

Within 5 miles of the CRC (in Garden Valley) there are approximately 107 AFA of stock and 88 AFA (within ROW) of irrigation water appropriations. There are also 327 AFS of irrigation rights within 5 miles of the CRC but these have seasonal restrictions. Based on locations and terrain constraints, there appears to be little opportunity for consideration of temporary interbasin transfers of existing appropriations into Garden Valley from adjacent basins.

#### **5.3.2.15 Coal Valley (Basin 171)**

Coal Valley is not a Designated basin and is less than 1% appropriated based on a perennial yield of 6,000 AFA. Groundwater depths along the CRC are generally poorly understood in Coal Valley. Where the CRC enters the basin on the west, groundwater depth is approximately 300 feet (bgs). Depth to groundwater in the vicinity of the alternative CRC alignment is estimated to be approximately 100 feet (bgs) near the south alternative segment to more than 300 feet (bgs) near the Whiter River Valley border.

Although information on groundwater conditions is limited, temporary appropriations for new wells may be the preferred option for water resources in Coal Valley. Little information is available on existing well yields in this basin. However, one well near the western boundary of the basin along the southern alternative alignment of the CRC was reportedly tested at 350-gpm.

There generally appears to be limited opportunities for temporary transfers of existing appropriations, and limited options for an interbasin transfers from

adjacent basins for use in Coal Valley. There are over 2,700 AFA of irrigation water rights located in southern White River Valley, but depending on the alternative route selected for the CRC, these may be over 10 miles away from the CRC.

#### **5.3.2.16 White River Valley (Basin 207)**

White River Valley is not a Designated basin and is approximately 80% appropriated based on a perennial yield of 37,000. There are also over 93,000 AFA in pending duties for this basin, most of which are for irrigation water. Groundwater along the CRC is estimated to be approximately 200 feet (bgs) in valley fill materials.

There may be possible opportunities for new appropriations from wells constructed in the southern part of the White River Valley near the CRC, but little information is known about yields from existing wells. A few wells within 5 miles of the CRC did report yields from 50 to 100-gpm, however based on the number of relatively large irrigation appropriations in this area, new wells may likely produce significantly more than 100-gpm. Several large irrigation water rights that total over 2,700 AFA lie within 5 miles of the CRC in southern White River Valley, which may present options for temporary transfers for construction purposes near the CRC.

#### **5.3.2.17 Pahroc Valley (Basin 208)**

Pahroc Valley is not a Designated basin and is less than 1% appropriated based on a perennial yield of 21,000 AFA. Groundwater levels along the CRC range from approximately 200 feet (bgs) where the CRC enters the basin on the northwest to more than 500 feet (bgs) where the CRC exits the basin in the southeast.

Existing appropriations in Pahroc Valley are all small stock water permits, although one particular well is documented as having been tested (during initial construction) at 400 gpm. Based on permit information in the area, this well was apparently installed to provide stock water. It is located within 2.5 miles of the CRC ROW. Groundwater is relatively deep in this valley so any

spring sources are likely to be from unreliable perched zones. Installing new wells appears to be the preferred option for Pahroc Valley basin. Groundwater depths are estimated to be on the order of 200 to 400 feet (bgs) near the southeastern part of the CRC within this basin, and groundwater development from the valley fill alluvium would likely be unfavorable (low yields).

However, potentially favorable conditions may exist for groundwater production from the Paleozoic carbonate aquifer near the center of Pahroc Valley just east and west of where the proposed CRC ROW crosses State Highway 318. As shown in Plate 4-12, carbonate rocks are the dominant geologic feature on either side of the proposed common segment of CRC as it traverses through the central portion of the basin. Groundwater flow through the carbonate rocks in this portion of the Pahroc Valley is likely part of a larger regional flow system, where groundwater primarily flows through fractured consolidated rocks. As a result, carbonate aquifer properties are highly variable, but can produce significant quantities of water where favorable geologic conditions are more prominent.

An option for utilization of existing water rights via an interbasin transfer may exist from White River Valley, which borders Pahroc Valley to the northwest. In southern White River Valley, there are several large irrigation appropriations that are over 2,700 AFA within 5 miles of the CRC. These existing water rights may represent potential opportunities for supplying water to the northwestern part of the CRC within Pahroc Valley basin.

#### **5.3.2.18 Dry Lake Valley (Basin 181)**

Dry Lake Valley is not a Designated basin and is only 2% appropriated based on a perennial yield of 2,500 AFA. However, there are over 11,500 AFA in pending municipal appropriations. Well data is sparse in this basin (only 3 wells near the CRC) and groundwater depths near the CRC are generally more than 300 feet. The groundwater level in two of the wells near the CRC has been measured at nearly 400 feet (bgs). The third well has shallow water levels on the order of 40 feet (bgs), which likely produces from a shallow perched water zone that most likely could not be relied upon for large volumes of production water. Overall there appears to be limited opportunity to develop

groundwater from new wells, as potential well yields could be relatively low. Although a few springs and shallow wells occur in the valley, these are likely producing from perched water zones. In 1980 two 1,000-ft test wells were installed approximately 8 miles south of the CRC in Dry Lake Valley (NDWR, 2005) that intersected water below 600 feet. These were both tested and yielded approximately 500-gpm. Other wells in the basin are generally reported to be low yield (less than 60 gpm).

Eakin (1963) states, "*The unconsolidated sand and gravel of the valley fill in Dry Lake and Delamar Valleys is capable of transmitting groundwater freely. However, most of the valley fill is probably composed of deposits of fine sand and silt. Grains of this size generally have relatively low permeability and, where saturated, transmit water much more slowly than coarse sand and gravel. Deposits of silty clay and clay may transmit water so slowly to wells that they will not yield supplies adequate for stock watering purposes.*" While it may be possible to install new wells in Dry Lake Valley along the CRC there is a high probability that they will be constructed deep and have low yields. As shown in Plate 4-12, Dry Lake Valley is situated within the Southern Nevada carbonate terrain and there may be an opportunity to tap the carbonate aquifer in the southeastern and eastern part of the basin near the CRC. Note however, that yields from the carbonate aquifer in Southern Nevada are highly variable, but in some areas can exceed 2,000 gpm.

Based on existing appropriations in Dry Lake Valley, utilization of existing water rights does not appear to be a feasible option within the basin. Appropriations within 5 miles of the CRC are for stock watering and are very small. If existing appropriations are required for construction water in this basin, this water will likely need to be obtained from the adjacent Panaca Valley or Pahroc Valley basins via temporary interbasin transfers.

Irrigation appropriations in Panaca Valley may offer a less than ideal source for an interbasin transfer into Dry Lake Valley for CRC construction. Haul and/or pipeline distances will be in the range of 7 to more than 20 miles and the required infrastructure to deliver water to the CRC would have to cross over relatively rough terrain. Obtaining water from Pahroc Valley would require the

development of sufficiently productive new wells to supply the water since the only existing water rights are for small stock appropriations.

#### **5.3.2.19 Panaca Valley (Basin 203)**

Panaca Valley is a Designated basin where appropriations exceed the perennial yield of 9,000 by a factor of nearly 4. Groundwater throughout most of Panaca Valley near the CRC is shallow (estimated at less than 100 feet bgs) and occurs in valley fill. Some existing wells in this basin near the CRC have reported yields of over 1,000-gpm.

Temporary utilization of existing water rights would likely be the preferred option within Panaca Valley for temporary construction water. Municipal and quasi-municipal appropriations within 5 miles of the CRC exceed 2,500 AFA. These rights are generally concentrated near the central portion of the basin and as a result, pipeline and/or haul distances to common and alternative segments of the CRC near the western, southern and eastern boundaries of Panaca Valley would exceed 10 miles. Temporary transfers of irrigation appropriations may provide an opportunity to divert existing rights to preferred locations (within the basin) along CRC alignments. Note, however, that changes to irrigation rights typically require the removal of land from production.

Another option for utilization of existing water rights to support construction of the proposed southern alternative alignment may be from the adjacent Clover Valley basin where there are large municipal water rights within the ROW of the CRC. Along the western border of Panaca Valley a temporary interbasin transfer of water along the common segment of the CRC would likely have to come from new wells constructed in eastern Dry Lake Valley.

#### **5.3.2.20 Escalante Desert (Basin 197)**

Escalante Desert is not a Designated basin and existing appropriations are approximately 7% of perennial yield (1,000 AFA). Groundwater in the Escalante Desert near the CRC is shallow (estimated at 130 feet bgs based on only 2 wells) and occurs in valley fill alluvium. Obtaining new appropriations

from wells in this basin appears to be the most viable alternative for providing CRC construction water.

There are few existing water rights in this basin that could be considered for temporary transfers. One existing 65 AFA mining and milling appropriation is located nearly 15 miles north of the CRC. In addition, due to potential infrastructure constraints temporary transfer of water from adjacent basins would not likely be a feasible option within Escalante Desert.

#### **5.3.2.21 Clover Valley (Basin 204)**

Clover Valley is not a Designated basin, but appropriations exceed perennial yield of 1,000 AFA by a factor of 5. Groundwater throughout most of Clover Valley near the CRC is shallow (estimated at less than 100 feet-bgs) and occurs in volcanic rocks and shallow alluvium. The installation of new wells in consolidated material is generally not recommended unless potentially productive zones created from fractured zones can be captured. Most of Clover Valley consists of volcanic rock and consolidated material. However, yields from existing wells completed in consolidated material and alluvial fill within the basin vary from 35 to 1,100-gpm.

As shown in Plate 4-15, a proposed alternative CRC alignment passes through the northwestern corner of Clover Valley near the border with the Lower Meadow Valley Wash near US 93 and 317. Near Caliente, temporary utilization of existing water rights may be a potential option within Clover Valley and Lower Meadow Valley Wash basins. There are nearly 6,000 AFA in municipal appropriations within 1-mile the CRC near the northwest corner of Clover Valley. There are also over 4,500 AFA of irrigation and nearly 2,000 AFA of decreed appropriations within 5 miles of the CRC located within Clover Valley and Meadow Valley Wash basins.

## 6.0 References

- Belcher, Wayne R., 2004, *Death Valley Regional Ground Water Flow System, Nevada and California— Hydrogeologic Framework and Transient Ground-Water Flow Model*: USGS Scientific Investigations Report 2004-5205.
- Belcher, W.R., Sweetkind, D.S., Elliott, P.E., 2002, *Probability distributions of hydraulic conductivity for the hydrogeologic units of the Death Valley regional ground-water flow system, Nevada and California*, USGS Water Resources Investigation Report 02-4212
- Belcher W.R., Elliott, P.E., and Geldon, A.L., 2001, *Hydraulic-property estimates for use with a transient ground-water flow model of the Death Valley regional ground-water flow system, Nevada and California*, USGS Water Resources Investigation Report 01-4210
- Brothers, Kay, Buqo, Thomas S., Tracy, James V., 1993, *Hydrology and Steady State Ground-Water Model of Coal and Garden Valleys, Lincoln and Nye Counties, Nevada*, Las Vegas Valley Water District, Cooperative Water Project, Report No. 8, 51 p.
- Brothers, Kay, Katzer, Terry and Johnson, Michael, 1996, *Hydrology and Steady State Ground-Water Model of Dry Lake and Delamar Valleys, Lincoln County, Nevada*, Las Vegas Valley Water District, Report No. 16, 48 p.
- Burbey, T.J., 1997, *Hydrogeology and potential for ground-water development, carbonate-rock aquifers, southern Nevada and southeastern California*, U.S. Geological Survey Water-Resources Investigations Report 95-4168, 65 p.
- Czarnecki, J.B., 1984, *Simulated effects of increased recharge on the ground-water flow system of Yucca Mountain and vicinity, Nevada-California*, U.S. Geological Survey Water-Resources Investigations Report 84-4344, 33 p.
- Eakin, Thomas E., 1963a, *Ground-Water Appraisal of Garden and Coal Valleys, Lincoln and Nye Counties, Nevada*, Nevada Division of Conservation and Natural Resources, Ground-Water Resources - Reconnaissance Series, Report No. 18, 29 p.
- Eakin, Thomas E., 1963b, *Ground-Water Appraisal of Dry Lake and Delamar Valleys, Lincoln County, Nevada*, Nevada Department of Conservation and Natural Resources, Ground-Water Resources - Reconnaissance Series Report No. 16, 26 p.

- Eakin, Thomas E., 1963c, *Ground-Water Appraisal of Pahrnagat and Pahroc Valleys, Lincoln and Nye Counties, Nevada*, Nevada Department of Conservation and Natural Resources, Ground-Water Resources -Reconnaissance Series Report No. 21, 36 p.
- Eakin, Thomas E., 1962, *Ground-Water Appraisal of Ralston and Stonecabin Valleys, Nye County, Nevada*, Nevada Department of Conservation and Natural Resources, Ground-Water Resources - Reconnaissance Series Report No. 12, 32 p.
- Ertec Western, 1981, *MX Siting Investigations Water Resources Program Results of Regional Carbonate Aquifer Testing, Coyote Spring Valley, Nevada*
- Fenelon, J.M., and Moreo, M.T, 2002, *Trend analysis of ground-water levels and spring discharge in the Yucca Mountain Region, Nevada and California, 1960-2000*: U.S. Geological Survey Water-Resources Investigations Report 02-4178, 97 p.
- Fenneman, N.M., 1931, *Sierra Cascade, Physiography of Western United States*, Chapter IX, McGraw-Hill Book Co., Inc, New York.
- Glancy, P.A. and Van Denburgh, A.S., 1969, *Water-resources appraisal of the lower Virgin River Valley area, Nevada, Arizona, and Utah*, Nevada Division of Water Resources, Reconnaissance Report 51, 87 p.
- Harrill, J.R., J.S. Gates and J.M. Thomas, 1988, *Major Groundwater Systems in the Great Basin Region of Nevada, Utah and Adjacent States*, U.S. Geological Survey Hydrologic Investigations Atlas HA-694-C.
- Kirk, S. T. and Campana, M. E., 1988, *Simulation of Ground-Water Flow in a Regional Carbonate-Alluvial System with Sparse Data, The White River Flow System, Southeastern Nevada*, Desert Research Institute, University of Nevada System, Water Resources Center, Number 4115, 76 pp.
- Laczniak, Randell J., Smith, J. LaRue, Elliott, Peggy E., DeMeo, Guy A., Chatigny, Melissa A. - U.S. Geological Survey; and Roemer, Gaius J. - GeoTrans , 2001, *Ground-Water Discharge Determined from Estimates of Evapotranspiration, Death Valley Regional Flow System, Nevada and California*, USGS Water-Resources Investigations Report 01-4195
- Laczniak, R.J., Cole, J.C., Sawyer, D.A., and Trudeau, D.A., 1996, *Summary of hydrogeologic controls on ground-water flow at the Nevada Test Site, Nye County*,



- Nevada, U.S. Geological Survey Water-Resources Investigations Report 96-4109, 59 p.
- Locke, G.L., 2001, *Selected ground-water data for Yucca Mountain region, southern Nevada and eastern California, through December 1999*, U.S. Geological Survey Open-File 00-479, 75 p.
- Lopes, Thomas J. and David M. Evetts, 2004, *Groundwater Pumpage and Artificial Recharge Estimates for Calendar Year 2000 and Average Annual Natural Recharge and Interbasin Flow by Hydrographic Area, Nevada*, USGS Scientific Investigations Report 2004-5239, 81p.
- Malmberg, Glenn T., and Eakin, Thomas E., 1962, *Ground-Water Appraisal of Sarcobatus Flat and Oasis Valley, Nye and Esmeralda Counties, Nevada*, Nevada Department of Conservation and Natural Resources, Ground-water Resources Reconnaissance Series Report 10, 39p.
- Maxey, G.B., and Eakin, T.E., 1949, *Ground water in White River Valley, White Pine, Nye, and Lincoln Counties, Nevada*, Nevada State Engineer, Water Resources Bulletin 8, 59 p.
- Meinzer, O.E., 1917, *Geology and water resources of Big Smoky, Clayton, and Alkali Spring Valleys, Nevada*, U.S. Geological Survey Water-Supply Paper 423, 167 p.
- NDWR, 2005, *Internet Database (Access) of Well Logs*, Nevada Division of Water Resources, 2005.
- NDWR, 2004a, *Water Rights in Nevada*, Water rights course material provided by Nevada Division of Water Resources in association with Nevada Water Resources Association, Course No. CE 2171 LE.
- NDWR, 2004b, *Hydrographic Basin Abstracts*, Obtained from NDWR Water Rights Database, current as of December 2004.
- NDWR, 2000, *Summary of Statutory Procedure in Making Application for a Water Right and Filing Proofs of Appropriation and Fees Set by Statute*, State of Nevada Department of Conservation and Natural Resources Division of Water Resources, Carson City, Nevada, revised March 2000.
- NDWR, 1992, *Nevada Water Facts (1992)*, Nevada Division of Water Resources, Water Planning.

- NDWR, 1979, *Nevada State Engineer's Order Designating and Describing the Amargosa Desert Ground Water Basin, Nye County, Nevada*, AAC:NNA.19870406.0057.
- Planert, M. and J.S. Williams, 1995, *Ground Water Atlas of the United States, California, Nevada- Basin and Range Aquifers*. U.S. Geological Survey Hydrologic Investigations Atlas HA-730-B.
- Phoenix, D.A., 1948, *Geology and ground water in the Meadow Valley Wash drainage area, above the vicinity of Caliente, Nevada*, U.S. Department of the Interior Geological Survey, Nevada State Engineer, Water Resources Bulletin 7, 117 p.
- Reiner, Steven R., Laczniak, Randell J., Demeo, Guy A., Smith, J. LaRue, Elliott, Peggy E., Nylund, Walter E., and Fridrich, Christopher J., 2002, *Ground-Water Discharge Determined from Measurements of Evapotranspiration, Other Available Hydrologic Components, and Shallow Water-Level Changes, Oasis Valley, Nye County, Nevada*, U.S. Geological Survey Water Resource Investigations Report 01-4239.
- Rush, F.E., 1974, *Static ground water levels of Nevada: Nevada Division of Water Resources map, scale 1:750,000, 1 sheet*.
- Rush, E. F., 1968a, *Index of Hydrographic Areas, Nevada Division of Water Resources, Information Report 6, 38p*.
- Rush, E. F., 1968b, *Water-Resources Appraisal of Clayton Valley-Stonewall Flat Area, Nevada and California*, Nevada Department of Conservation and Natural Resources, Water Resources - Reconnaissance Series, Report 45, 54 p.
- Rush, Eugene F., 1964, *Ground-water appraisal of the Meadow Valley area, Lincoln and Clark Counties, Nevada*, Nevada Department of Conservation and Natural Resources, Ground-Water Resources - Reconnaissance Report 27, 43 p.
- Rush, F.E. and Everett, D.E., 1966, *Water-resources appraisal of Little Fish Lake, Hot Creek, and Little Smoky Valleys, Nevada*, Nevada Department of Conservation and Natural Resources, Ground-Water Resources -Reconnaissance Report 38, 39 p.
- Scott, B.R., T.J. Smales, F.E. Rush, and A.S. VanDenburgh, 1971, *Water for Nevada*, Nevada Department of Conservation and Natural Resources, Water Planning Report No. 3.

- Shamberger, H.A., 1991, *Evolution of Nevada's Water Laws, as Related to the Development and Evaluation of the State's Water Resources from 1866 to about 1960*, U.S. Geological Survey Water-Resources Bulletin 46.
- Thiel Engineering Consultants 1999. *Data Assessment and Water Rights/Resource Analysis of: Hydrographic Region #14 Death Valley Basin*. Reno, Nevada, Thiel Engineering Consultants. ACC: MOL.19990218.0214.
- Thordarson, William, and Howells, L.W., 1987, *Hydraulic tests and chemical quality of water at well USW VH-1, Crater Flat, Nye County, Nevada*, U.S. Geological Survey Water-Resources Investigations Report 86-4359, 20 p.
- Turner, R.M., W.J. Bawiec, and and R.A. Russell, 1991. *Geology of Nevada; a Digital Representation of the 1978 Geologic Map of Nevada*.
- Turnipseed, R.M. 1992, *Official Ruling in the Matter of Application 52338 Filed to Appropriate the Waters from an Underground Source Within the Forty Mile Canyon-Jackass Flats Groundwater Basin, Nye County, Nevada*. Letter from R.M. Turnipseed (State Engineer, State of Nevada) to C. Gertz (YMP), March 2, 1992. ACC: HQX.19930511.0006.
- USGS, 2005, *NWISWeb Data for the Nation* (<http://waterdata.usgs.gov/nwis>).
- USGS, 2004, *Water-Level Wells Site Map, USGS/USDOE Cooperative Studies in Nevada* ([http://nevada.usgs.gov/doe\\_nv/levelsmap1.htm](http://nevada.usgs.gov/doe_nv/levelsmap1.htm))
- Van Denburgh, A.S. and Rush, Eugene F., 1974, *Water-Resources Appraisal of Railroad and Penoyer Valleys, East-Central Nevada*, Nevada Department of Conservation and Natural Resources, Water Resources - Reconnaissance Series Report No. 60, 61 p.
- Waddell, R.K., Robison, J.H., and Blankennagel, R.K., 1984, *Hydrology of Yucca Mountain and vicinity, Nevada-California-Investigative results through mid-1983*, U.S. Geological Survey Water-Resources Investigations Report 84-4267, 72 p.
- Welch, A.H., and Williams, R.P., 1986, *Data on ground-water quality for the Lund 1 x 2 quadrangle, eastern Nevada*, U.S. Geological Survey Open-File Report 85-648-D, 1 sheet.
- White, S.D. and D.F Jankowski, 1998, *Water Transfers*. Presented at CLE International Western Water Law Conference, Denver, Colorado.

Winograd, I.J., and Thordarson, William, 1975, Hydrogeologic and hydrochemical framework, south-central Great Basin, Nevada-California, with special reference to the Nevada Test Site, U.S. Geological Survey Professional Paper 712-C, 126 p.

# Appendix A



USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                              | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 141       | U-564      | 141 S01 E45 02 1                       | 37.87243308 | -117.2414695  | M                   | 5250               | 40                |              | 247             | 0                        | 12/29/63           | 12/29/63         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375248116541601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375248116541601</a> |
| 141       | U-575      | 141 N01 E45 19 1 Ralston Valley Well   | 37.91493262 | -117.33702904 | M                   | 5219               | 5                 |              | 0               | 0                        | 11/8/00            | 6/16/04          | 7                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375533116580601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375533116580601</a> |
| 141       | U-580      | 141 N03 E44 35DDD 1                    | 38.02021421 | -116.66339332 | T                   | 5370               | 10                |              | 0               | 0                        | 11/9/56            | 8/15/02          | 7                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380353117000201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380353117000201</a> |
| 141       | U-585      | 141 N03 E44 16C 1                      | 38.10437913 | -116.31866349 | M                   | 5500               | 1                 |              | 540             | 0                        | 5/18/47            | 5/18/47          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380639117030501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380639117030501</a> |
| 141       | U-596      | 141 N03 E44 06BAB 1 USGS-MX            | 38.11437914 | -116.33671951 | S                   | 5579               | 1                 |              | 186             | 0                        | 1/1/81             | 5/17/84          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380858117050701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380858117050701</a> |
| 141       | U-599      | 141 N04 E44 19AA 1 Tonopah Water Co    | 38.17298886 | -116.25894085 | F                   | 5800               | 1                 |              | 55              | 0                        | 5/12/48            | 5/12/48          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381132117044001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381132117044001</a> |
| 141       | U-601      | 141 N04 E44 18DDCC1 Tonopah Water Co 1 | 38.1932671  | -116.33727582 | M                   | 5660               | 10                |              | 315             | 1                        | 8/15/67            | 8/15/67          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381138117042501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381138117042501</a> |
| 141       | U-602      | 141 N04 E44 15CB 1 USGS-MX             | 38.19465585 | -117.07952236 | F                   | 5940               | 20                |              | 141             | 0                        | 3/1/81             | 3/1/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381201117020401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381201117020401</a> |
| 141       | U-607      | 141 N04 E44 17BCB 2 Tonopah Water Co   | 38.20660186 | -116.57672552 | T                   | 5700               | 10                |              | 145             | 0                        | 5/17/84            | 5/17/84          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381241117041702">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381241117041702</a> |
| 141       | U-608      | 141 N04 E44 08CC 1 Tonopah Water Co    | 38.21132249 | -117.07230003 | F                   | 5800               | 1                 |              | 38              | 0                        | 5/12/48            | 5/12/48          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381242117041601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381242117041601</a> |
| 141       | U-609      | 141 N04 E44 18ADAA1 Tonopah Water Co 6 | 38.21160027 | -117.07202224 | M                   | 5700               | 10                |              | 150             | 1                        | 5/17/84            | 5/17/84          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381242117041602">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381242117041602</a> |
| 141       | U-648      | 141 N05 E44 07B 1                      | 38.30377921 | -116.58461895 | H                   | 5900               | 1                 |              | 0               | 0                        | 6/16/62            | 6/16/62          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381822117051601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381822117051601</a> |
| 141       | U-1704     | 141 N02 E43 01ACB 1                    | 38.06493398 | -117.10368844 | U                   | 0                  | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                           | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft- AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|-------------------------------------|-------------|---------------|---------------------|---------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 142       | U-527      | 142 S03 E42 11B 1 City of Goldfield | 37.60076861 | -116.95423586 | M                   | 5800                | 1                 |              | 440             | 0                        | 3/6/65             | 1/18/67          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374209117135101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374209117135101</a> |
| 142       | U-528      | 142 S03 E42 10A 1 City of Goldfield | 37.69632167 | -117.23702293 | M                   | 5900                | 1                 |              | 440             | 0                        | 3/6/65             | 1/18/67          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374209117141501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374209117141501</a> |
| 142       | U-530      | 142 S03 E42 02C 1 City of Goldfield | 37.69576607 | -117.24202308 | M                   | 5710                | 1                 |              | 45              | 0                        | 1/18/67            | 1/18/67          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374243117135101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374243117135101</a> |
| 142       | U-533      | 142 S02 E42 26CAA 1                 | 37.70576615 | -117.23702307 | M                   | 5540                | 5                 |              | 0               | 0                        | 4/2/84             | 4/2/84           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374401117140501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374401117140501</a> |
| 142       | U-547      | 142 S01 E41 31AC 1 USGS-MX          | 37.73354402 | -117.23563452 | F                   | 4960                | 10                |              | 200             | 0                        | 1/1/81             | 1/1/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374818117250701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374818117250701</a> |
| 142       | U-552      | 142 S01 E41 22ABA 1 USGS-MX         | 37.84138675 | -116.20960018 | S                   | 4870                | 5                 |              | 150             | 0                        | 1/1/81             | 11/19/91         | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375041117212401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375041117212401</a> |
| 142       | U-556      | 142 S01 E41 18ACDB1 USGS            | 37.84859578 | -116.76811581 | S                   | 4805                | 5                 |              | 73              | 0                        | 1/19/67            | 4/2/84           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375115117244201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375115117244201</a> |
| 142       | U-557      | 142 S01 E41 16BBA 1 USGS            | 37.85409886 | -117.41258675 | F                   | 4805                | 5                 |              | 73              | 0                        | 4/2/84             | 4/2/84           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375131117230301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375131117230301</a> |
| 142       | U-559      | 142 S01 E41 18A 1 Well (Report R45) | 37.86117349 | -116.76719633 | S                   | 4825                | 1                 |              | 72              | 0                        | 1/19/67            | 1/19/67          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375147117241401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375147117241401</a> |
| 142       | U-560      | 142 S01 E41 08ADB1 USGS             | 37.85548775 | -117.4117534  | M                   | 4805                | 5                 |              | 46              | 0                        | 1/19/67            | 4/2/84           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375211117232501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375211117232501</a> |
| 142       | U-561      | 142 S01 E42 10ABAC1                 | 37.86965453 | -117.39119724 | F                   | 4960                | 20                |              | 400             | 0                        | 10/20/92           | 10/20/92         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375224117145401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375224117145401</a> |
| 142       | U-562      | 142 S01 E41 05CB 1 USGS-MX          | 37.87326636 | -117.24924757 | S                   | 4922                | 80                |              | 201             | 0                        | 1/1/81             | 11/19/91         | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375244117235801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375244117235801</a> |
| 142       | U-563      | 142 S01 E42 10A 1                   | 37.87326558 | -117.40425331 | T                   | 4990                | 1                 |              | 310             | 0                        | 5/29/50            | 5/29/50          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375247117140501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375247117140501</a> |
| 142       | U-565      | 142 S01 E41 04C 1 Well (Report R45) | 37.87993593 | -116.90534608 | T                   | 4825                | 1                 |              | 72              | 0                        | 1/19/67            | 1/19/67          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375255117222101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375255117222101</a> |
| 142       | U-566      | 142 S01 E42 10AAA 1                 | 37.87493236 | -117.38119692 | M                   | 4960                | 10                |              | 443             | 0                        | 2/1/60             | 3/28/91          | 8                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375300117150001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375300117150001</a> |
| 142       | U-567      | 142 S01 E42 10AAD2 Goldfield        | 37.87298862 | -117.24452517 | F                   | 4970                | 20                |              | 400             | 0                        | 9/14/69            | 4/10/96          | 17                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375300117150002">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375300117150002</a> |
| 142       | U-571      | 142 N01 E42 34C 1                   | 37.88644531 | -116.79129446 | S                   | 4940                | 1                 |              | 160             | 0                        | 10/22/13           | 1/19/67          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375401117150801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375401117150801</a> |
| 142       | U-574      | 142 N01 E41 26A 1                   | 37.91483992 | -116.75243459 | S                   | 5000                | 1                 |              | 0               | 0                        | 10/21/13           | 10/21/13         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375519117194001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375519117194001</a> |
| 142       | U-576      | 142 N01 E42 18AD 1 USGS-MX          | 37.92568526 | -116.96929316 | S                   | 5020                | 10                |              | 200             | 0                        | 1/1/81             | 1/1/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375626117175901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375626117175901</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                 | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft- AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---|-------------|---------------|---------------------|---------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 144       | U-505      | 144 S04 E43 33AAA 1                       | 37.31520934 | -117.05090411 | F                   | 4749                | 5                 |              | 0               | 0                        | 1/18/67            | 4/3/84           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=372138117274001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=372138117274001</a> |
| 144       | U-510      | 144 S06 E43 05CAD 2                       | 37.36048667 | -117.46202348 | F                   | 4622                | 5                 |              | 325             | 0                        | 4/3/84             | 4/3/84           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=372632117130101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=372632117130101</a> |
| 144       | U-512      | 144 S06 E43 05CAD 1 USGS Lida Valley Well | 37.44215373 | -117.21785243 | F                   | 4622                | 1                 |              | 0               | 0                        | 1/18/67            | 4/29/95          | 26                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=372700117110001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=372700117110001</a> |
| 144       | U-513      | 144 S05 E43 17CC 1                        | 37.44337071 | -117.18094618 | 1                   | 4690                | 40                |              | 604             | 0                        | 8/10/58            | 8/10/58          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373003117110101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373003117110101</a> |
| 144       | U-514      | 144 S06 E43 20BBA 1                       | 37.4977103  | -117.18451906 | T                   | 4670                | 5                 |              | 604             | 0                        | 9/10/58            | 4/3/84           | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373036117151201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373036117151201</a> |
| 144       | U-518      | 144 S04 E43 33AAA 2 Raiston Well          | 37.54493758 | -116.85450955 | U                   | 4756                | 5                 |              | 409             | 0                        | 4/20/90            | 6/17/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373320117090601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373320117090601</a> |
| 144       | U-519      | 144 S05 E43 03 1                          | 37.55537741 | -117.15232449 | 5                   | 4745                | 20                |              | 102             | 0                        | 7/24/76            | 7/24/76          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373323117090801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373323117090801</a> |
| 144       | U-520      | 144 S04 E43 33A 1 Raiston                 | 37.53548852 | -117.14229628 | T                   | 4780                | 1                 |              | 0               | 0                        | 1/18/67            | 1/18/67          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373338117085001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373338117085001</a> |



USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                   | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 145       | U-515      | 145 S05 E46 02 1 Hammel Mine Well           | 37.50993213 | -117.254243   | F                   | 5540               | 2.5               |              | 123             | 0                        | 4/21/90            | 6/15/04          | 15                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373228116472001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373228116472001</a> |
| 145       | U-516      | 145 S05 E46 04 1 USAF NAF-76 Civet Cat Mine | 37.5410503  | -116.78978479 | T                   | 5282               | 0                 |              | 225             | 0                        | 4/21/90            | 4/21/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373231116494401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373231116494401</a> |
| 145       | U-517      | 145 S04 E46 32 1 Civet Cat Cave Well        | 37.54188264 | -116.82978635 | U                   | 5116               | 0                 |              | 30              | 0                        | 4/21/90            | 4/21/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373242116511301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373242116511301</a> |
| 145       | U-522      | 145 S04 E45 08 1 Stone Wall Well            | 37.5543774  | -117.15313006 | M                   | 4675               | 0                 |              | 114             | 0                        | 4/21/90            | 4/21/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373618116580001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373618116580001</a> |
| 145       | U-526      | 145 S04 E45 17 1                            | 37.60493501 | -116.96756971 | U                   | 4690               | 1                 |              | 0               | 0                        | 1/1/07             | 1/1/07           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373623116565201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373623116565201</a> |

USGS Data- Wens (CRC Basins)

| Basin No. | Project ID | Site_Name                                   | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft- AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---|-------------|---------------|---------------------|---------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 146       | U-289      | 146 S09 E45 34C 1 USBLM                     | 37.1074376  | -116.92895488 | M                   | 4015                | 1                 |              | 0               | 0                        | 3/13/62            | 3/13/62          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370627116554101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370627116554101</a> |
| 146       | U-290      | 146 S09 E45 34DBC 1 USBLM                   | 37.10845434 | -116.92321595 | 1                   | 4012                | 10                |              | 65.6            | 0                        | 3/13/62            | 10/19/99         | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370631116551801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370631116551801</a> |
| 146       | U-291      | 146 S09 E46 35A 1 BLM Springdale            | 37.11355094 | -116.7931202  | S                   | 4035                | 10                |              | 117             | 0                        | 1/1/52             | 9/29/04          | 36                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370648116473001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370648116473001</a> |
| 146       | U-294      | 146 S09 E45 29B 1                           | 37.1321584  | -116.96367802 | M                   | 4050                | 1                 |              | 19              | 0                        | 3/13/62            | 3/13/62          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370739116574601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370739116574601</a> |
| 146       | U-296      | 146 S09 E46 28BBCB1 NDOT TPJ-2              | 37.13139677 | -116.84173501 | 5                   | 4005                | 5                 |              | 0               | 0                        | 3/11/85            | 9/29/04          | 33                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370753116502701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370753116502701</a> |
| 146       | U-302      | 146 S09 E46 20BADA1 USBLM TPJ-1             | 37.14484619 | -116.8512243  | 5                   | 3991                | 2                 |              | 107             | 0                        | 1/1/52             | 9/29/04          | 43                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370840116510101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370840116510101</a> |
| 146       | U-318      | 146 S09 E46 18 1 USAF - Tolicha Pk Hand Dug | 37.15965943 | -116.86201085 | U                   | 4009                | 0                 |              | 50              | 0                        | 4/26/90            | 2/24/97          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370937116514001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370937116514001</a> |
| 146       | U-356      | 146 S08 E43 26BC 1 BC- 1                    | 37.21898915 | -117.1311069  | H                   | 4002                | 10                | 120VLCC      | 410             | 0                        | 4/8/02             | 9/29/04          | 12                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371309117074901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371309117074901</a> |
| 146       | U-357      | 146 S08 E43 26BC 2 BC- 2                    | 37.21899749 | -117.1311069  | H                   | 4000.97             | 0.1               | 120VLCC      | 103             | 0                        | 5/19/03            | 9/29/04          | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371309117074902">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371309117074902</a> |
| 146       | U-367      | 146 S08 E43 23A 1                           | 37.22715293 | -117.12090414 | M                   | 3975                | 1                 |              | 0               | 0                        | 3/13/62            | 3/13/62          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371337117070201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371337117070201</a> |
| 146       | U-369      | 146 S08 E43 24BB 1                          | 37.22743071 | -117.12034859 | M                   | 3975                | 1                 |              | 0               | 0                        | 2/8/62             | 2/8/62           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371339116433401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371339116433401</a> |
| 146       | U-370      | 146 S08 E43 23BB 1                          | 37.22662795 | -117.12123747 | T                   | 3975                | 1                 |              | 0               | 0                        | 2/8/62             | 12/23/99         | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371339117074501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371339117074501</a> |
| 146       | U-372      | 146 S08 E43 32CAB 1                         | 37.22816671 | -117.1269959  | T                   | 3996                | 1                 |              | 0               | 0                        | 3/12/85            | 12/23/99         | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371341117073401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371341117073401</a> |
| 146       | U-403      | 146 S08 E44 12CD 1                          | 37.23902013 | -116.5610728  | H                   | 3985                | 1                 |              | 250             | 0                        | 9/17/59            | 2/8/62           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371450116594901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371450116594901</a> |
| 146       | U-415      | 146 S08 E44 12 2                            | 37.24773529 | -116.50996322 | H                   | 4000                | 10                |              | 125             | 0                        | 2/8/62             | 3/12/85          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371505116594101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371505116594101</a> |
| 146       | U-420      | 146 S08 E44 12 1                            | 37.25132056 | -116.99562539 | F                   | 4000                | 10                |              | 0               | 0                        | 3/12/85            | 3/12/85          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371517116594001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371517116594001</a> |
| 146       | U-423      | 146 S08 E44 10AA 1                          | 37.25402058 | -116.99558373 | 1                   | 4000                | 1                 |              | 260             | 0                        | 11/25/58           | 2/8/62           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371523117012601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371523117012601</a> |
| 146       | U-424      | 146 S08 E44 08AA 1                          | 37.25632019 | -117.0247924  | M                   | 4000                | 1                 |              | 600             | 0                        | 7/1/60             | 7/1/60           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371523117033401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371523117033401</a> |
| 146       | U-425      | 146 S08 E44 11BA 1                          | 37.25993089 | -117.06034838 | M                   | 4000                | 1                 |              | 0               | 0                        | 10/26/61           | 10/26/61         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371525117005301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371525117005301</a> |
| 146       | U-426      | 146 S08 E44 10AB 1                          | 37.25687587 | -117.01562563 | M                   | 4000                | 1                 |              | 0               | 0                        | 2/8/62             | 2/8/62           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371527117013601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371527117013601</a> |
| 146       | U-436      | 146 S08 E44 11BBC 1                         | 37.26304964 | -116.49161496 | H                   | 3975                | 5                 |              | 138             | 0                        | 9/17/59            | 3/12/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371547117011101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371547117011101</a> |
| 146       | U-438      | 146 S08 E44 08AA 2                          | 37.26298697 | -117.02062571 | F                   | 4001                | 1                 |              | 250             | 0                        | 4/15/68            | 3/18/92          | 15                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371553117034302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371553117034302</a> |
| 146       | U-440      | 146 S08 E44 10ABB 1                         | 37.25604193 | -117.06284839 | S                   | 3988                | 5                 |              | 260             | 0                        | 11/25/58           | 3/12/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371555117015001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371555117015001</a> |
| 146       | U-444      | 146 S08 E44 06CBB 1 SF- 1                   | 37.26520908 | -117.03145918 | F                   | 4021                | 10                | 120VLCC      | 879             | 0                        | 4/22/02            | 9/29/04          | 12                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371615117053601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371615117053601</a> |
| 146       | U-445      | 146 S08 E44 06CBB 2 SF- 2                   | 37.27076393 | -117.09415718 | H                   | 4021                | 10                | 100VFL       | 496             | 0                        | 4/22/02            | 9/29/04          | 11                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371615117053602">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371615117053602</a> |
| 146       | U-456      | 146 S08 E44 02 2                            | 37.27135526 | -116.48933686 | H                   | 4008                | 5                 |              | 203             | 0                        | 3/15/68            | 3/12/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371646117010101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371646117010101</a> |
| 146       | U-457      | 146 S08 E44 03BAAA1                         | 37.27937605 | -117.01784796 | F                   | 4010                | 10                |              | 100             | 1                        | 3/29/86            | 3/29/86          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371647117015201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371647117015201</a> |
| 146       | U-460      | 146 S07 E44 34CA 1                          | 37.27965366 | -117.03187592 | S                   | 4050                | 1                 |              | 223             | 0                        | 1/17/62            | 1/17/62          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371652117015201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371652117015201</a> |

**USGS Data- Wells (CRC Basins)**

| Basin No. | Project ID | Site_Name           | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---------------------|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 146       | U-463      | 146 S07 E44 34BB 1  | 37.28104256 | -117.03201481 | M                   | 4050               | 1                 |              | 270             | 0                        | 6/6/58             | 2/8/62           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371712117020701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371712117020701</a> |
| 146       | U-464      | 146 S07 E44 34CAB 1 | 37.28659812 | -117.03618156 | M                   | 4025               | 10                |              | 223             | 0                        | 1/17/62            | 3/12/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371713117020301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371713117020301</a> |
| 146       | U-468      | 146 S07 E44 28CB 1  | 37.28687591 | -117.03507043 | F                   | 4000               | 1                 |              | 203             | 0                        | 10/1/61            | 10/1/61          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371737117031401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371737117031401</a> |
| 146       | U-477      | 146 S07 E44 28BC 1  | 37.29354241 | -117.05479294 | M                   | 4000               | 1                 |              | 100             | 0                        | 10/1/61            | 10/1/61          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371752117031401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371752117031401</a> |
| 146       | U-485      | 146 S07 E44 21CD 1  | 37.29770908 | -117.05840412 | M                   | 4100               | 1                 |              | 375             | 0                        | 10/26/61           | 10/26/61         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371821117025801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371821117025801</a> |
| 146       | U-495      | 146 S07 E44 21 1    | 37.30576477 | -117.05368188 | M                   | 4105               | 5                 |              | 375             | 0                        | 10/26/61           | 3/12/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371855117030001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371855117030001</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                             | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---------------------------------------|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 149       | U-549      | 149 S01 E46 25D 1 USAF TTR EH-5       | 37.80493213 | -117.41953092 | M                   | 5419               | 10                |              | 860             | 0                        | 11/15/83           | 9/15/00          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374915116460401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374915116460401</a> |
| 149       | U-553      | 149 S01 E46 13DD 1 TTR 3A WW          | 37.84465467 | -117.35758461 | F                   | 5362               | 10                |              | 805             | 0                        | 4/23/87            | 6/16/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375045116460201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375045116460201</a> |
| 149       | U-554      | 149 S01 E46 13DA 1 TTR 3B WW          | 37.84592636 | -116.76827416 | 5                   | 5360               | 10                |              | 300             | 0                        | 1/11/85            | 6/15/04          | 27                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375054116460201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375054116460201</a> |
| 149       | U-555      | 149 S01 E46 13 1 TTR 3BB              | 37.84840412 | -116.76819915 | 5                   | 5358               | 10                |              | 0               | 0                        | 4/20/90            | 6/16/04          | 27                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375055116460201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375055116460201</a> |
| 149       | U-558      | 149 S01 E46 12D 1 TTR EH-6            | 37.85854344 | -117.38508578 | F                   | 5355               | 10                |              | 535             | 0                        | 11/17/83           | 6/16/04          | 30                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375139116460001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375139116460001</a> |
| 149       | U-568      | 149 S01 E46 01BA 1 USAF TTR 1A WW     | 37.87354419 | -117.24258066 | F                   | 5353               | 10                |              | 405             | 0                        | 11/27/90           | 11/27/90         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375303116463101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375303116463101</a> |
| 149       | U-569      | 149 S01 E46 02A 1 TTR EH-7            | 37.8841038  | -116.77617443 | F                   | 5343               | 10                |              | 715             | 0                        | 11/20/83           | 11/19/92         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375310116472301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375310116472301</a> |
| 149       | U-570      | 149 S01 E46 02A 2 TTR EH-7 WW         | 37.8860481  | -116.79061943 | F                   | 5343               | 10                |              | 660             | 0                        | 9/1/89             | 6/16/04          | 28                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375310116472302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375310116472302</a> |
| 149       | U-572      | 149 N01 E46 25CABA1 TTR Sandia 3      | 37.89271078 | -117.25869256 | M                   | 5365.9             | 0.5               |              | 250             | 0                        | 6/10/59            | 11/9/99          | 15                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375429116463201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375429116463201</a> |
| 149       | U-573      | 149 N01 E47 30 1 TTR Reeds Ranch Well | 37.90818143 | -116.77621053 | 5                   | 5384               | 10                |              | 127             | 0                        | 4/19/90            | 6/16/04          | 26                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375453116450501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375453116450501</a> |
| 149       | U-577      | 149 N01 E46 04AD 1 USGS-MX            | 37.9404884  | -117.30063906 | M                   | 5400               | 20                |              | 201             | 0                        | 3/1/81             | 3/1/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375808116491801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375808116491801</a> |
| 149       | U-579      | 149 N02 E47 13DB 1 USGS-MX            | 37.97465886 | -116.37866364 | M                   | 5578               | 80                |              | 189             | 0                        | 1/1/81             | 11/5/91          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380113116394501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380113116394501</a> |
| 149       | U-581      | 149 N03 E48 32BAAC1                   | 38.06421667 | -117.00227222 | 1                   | 5573               | 20                | 110VFL       | 141             | 0                        | 5/1/52             | 8/15/02          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380400116380001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380400116380001</a> |
| 149       | U-582      | 149 N03 E47 35D 1                     | 38.07293889 | -116.63163889 | 1                   | 5400               | 1                 |              | 0               | 0                        | 11/9/56            | 11/9/56          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380407117002301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380407117002301</a> |
| 149       | U-605      | 149 N04 E48 08CCBD1                   | 38.20437723 | -116.24088519 | T                   | 5795               | 10                |              | 65              | 1                        | 4/17/91            | 4/17/91          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381227116381001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381227116381001</a> |
| 149       | U-606      | 149 N04 E48 11CD 1 USGS-MX            | 38.20737958 | -116.63706063 | S                   | 5709               | 80                |              | 154             | 0                        | 1/1/81             | 11/5/91          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381232116344501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381232116344501</a> |
| 149       | U-611      | 149 N04 E47 12BB 1 USGS-MX            | 38.21826691 | -117.07230011 | F                   | 5906               | 80                |              | 194             | 0                        | 9/1/80             | 11/5/91          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381310116401701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381310116401701</a> |
| 149       | U-645      | 149 N05 E48 08CC 1 USGS-MX            | 38.29578324 | -115.2397434  | T                   | 5906               | 80                |              | 200             | 0                        | 9/1/80             | 11/5/91          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381754116380601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381754116380601</a> |
| 149       | U-647      | 149 N05 E48 10 1 UCE- 2               | 38.30132232 | -115.86781768 | T                   | 6202               | 10                |              | 1659            | 0                        | 6/16/04            | 6/16/04          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381814116350101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381814116350101</a> |
| 149       | U-1682     | 149 N01 E47 30ABB 1                   | 37.91521491 | -116.75311795 | U                   | 0                  | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |
| 149       | U-1687     | 149 S02 E47 07AA 1                    | 37.95549242 | -116.75089559 | U                   | 0                  | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |
| 149       | U-1696     | 149 N01 E47 02BAB 1                   | 37.97160349 | -116.6853382  | U                   | 0                  | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |
| 149       | U-1708     | 149 N03 E46 10BD 1                    | 38.12771309 | -116.81201032 | U                   | 0                  | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |
| 149       | U-1710     | 149 N03 E48 03AC 1                    | 38.14715782 | -116.5870032  | U                   | 0                  | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                    | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 156       | U-578      | 156 N02 E50 34C 1                            | 37.96882514 | -116.82256515 | M                   | 6350               | 1                 |              | 0               | 0                        | 10/17/65           | 10/17/65         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375829116230401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375829116230401</a> |
| 156       | U-584      | 156 N03 E51 19C 1                            | 38.06854719 | -116.67922746 | M                   | 5450               | 1                 |              | 320             | 0                        | 1/1/64             | 1/1/64           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380616116192201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380616116192201</a> |
| 156       | U-588      | 156 N03 E50 13CA 1 USGS-MX (Revielle Valley) | 38.10743419 | -117.0464644  | M                   | 5350               | 10                |              | 682             | 0                        | 2/13/81            | 9/14/04          | 47                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200901</a> |
| 156       | U-589      | 156 N03 E50 13CA 2 USGS-MX                   | 38.11437914 | -116.33671951 | S                   | 5350               | 10                |              | 703             | 0                        | 2/7/81             | 3/5/92           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200902">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200902</a> |
| 156       | U-590      | 156 N03 E50 13CA 3 USGS-MX                   | 38.11437914 | -116.33671951 | S                   | 5350               | 10                |              | 405             | 0                        | 2/7/81             | 3/5/92           | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200903">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200903</a> |
| 156       | U-598      | 156 N04 E51 29D 1                            | 38.15548925 | -116.15227081 | M                   | 5264               | 10                |              | 137             | 0                        | 10/6/51            | 10/6/51          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381023116152901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381023116152901</a> |
| 156       | U-600      | 156 N04 E50 22BC 1 USGS-MX                   | 38.19215586 | -117.07868896 | M                   | 5290               | 10                |              | 201             | 0                        | 9/1/80             | 1/1/81           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381136116201101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381136116201101</a> |
| 156       | U-604      | 156 N04 E51 16CA 1 USGS-MX                   | 38.20021165 | -117.03535386 | M                   | 5200               | 80                |              | 200             | 0                        | 9/1/80             | 9/20/94          | 10                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381216116142401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381216116142401</a> |
| 156       | U-613      | 156 N04 E50 09BD 1 USGS-MX                   | 38.22132252 | -117.06035518 | M                   | 5460               | 10                |              | 199             | 0                        | 3/1/81             | 3/1/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381321116210201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381321116210201</a> |
| 156       | U-616      | 156 N04 E51 03DD 1                           | 38.22826692 | -117.06368874 | F                   | 5142               | 20                |              | 300             | 0                        | 10/5/59            | 10/5/59          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381345116124201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381345116124201</a> |
| 156       | U-619      | 156 N04 E51 05 1                             | 38.22937803 | -117.0625776  | F                   | 5180               | 40                |              | 130             | 0                        | 7/20/70            | 7/20/70          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381350116151601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381350116151601</a> |
| 156       | U-621      | 156 N04 E52 06CC 1 USGS-MX                   | 38.23660017 | -117.07118917 | F                   | 5240               | 20                |              | 200             | 0                        | 9/1/80             | 1/1/81           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381413116101401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381413116101401</a> |
| 156       | U-623      | 156 N05 E55 33DD 1                           | 38.24298905 | -117.06896692 | M                   | 4830               | 3                 |              | 396             | 0                        | 8/19/65            | 3/15/90          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381440116124101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381440116124101</a> |
| 156       | U-625      | 156 N05 E55 36DA 1                           | 38.24604457 | -117.07202265 | F                   | 4850               | 10                |              | 179             | 0                        | 11/30/65           | 3/15/90          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381447116160501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381447116160501</a> |
| 156       | U-626      | 156 N05 E55 34DD 1                           | 38.24632126 | -116.26894184 | M                   | 4850               | 10                |              | 395             | 0                        | 10/1/65            | 3/15/90          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381448116134101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381448116134101</a> |
| 156       | U-627      | 156 N05 E55 35BD 1                           | 38.24659884 | -116.22894082 | M                   | 4820               | 10                |              | 320             | 0                        | 10/21/65           | 5/16/84          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381451116144101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381451116144101</a> |
| 156       | U-628      | 156 N05 E55 36DA 2                           | 38.24743215 | -116.24560804 | M                   | 4850               | 10                |              | 105             | 0                        | 6/2/51             | 5/16/84          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381453116161002">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381453116161002</a> |
| 156       | U-639      | 156 N05 E51 19B 1                            | 38.28077053 | -115.68392213 | S                   | 5220               | 1                 |              | 0               | 0                        | 10/17/65           | 10/17/65         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381651116170801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381651116170801</a> |
| 156       | U-650      | 156 N05 E51 11C 1 Twin Springs               | 38.30800188 | -115.37196857 | M                   | 5250               | 1                 |              | 0               | 0                        | 10/18/65           | 10/18/65         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381846116122901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381846116122901</a> |
| 156       | U-653      | 156 N05 E50 01BD 1 USGS-MX                   | 38.31271005 | -116.2089406  | M                   | 5266               | 80                |              | 200             | 0                        | 9/1/80             | 10/16/91         | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381923116174501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381923116174501</a> |
| 156       | U-659      | 156 N06 E50 10BB 1                           | 38.3357713  | -115.62919818 | M                   | 5640               | 20                |              | 260             | 0                        | 2/14/75            | 2/14/75          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382021116235901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382021116235901</a> |
| 156       | U-660      | 156 N06 E50 35A 2                            | 38.39993322 | -116.34144488 | F                   | 5327               | 1                 |              | 205             | 0                        |                    | 4/13/90          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382022116183301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382022116183301</a> |
| 156       | U-662      | 156 N06 E50 27AC 1 USGS-MX                   | 38.35438097 | -115.66281058 | M                   | 5580               | 10                |              | 505             | 0                        | 10/3/80            | 2/4/95           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382109116194901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382109116194901</a> |
| 156       | U-663      | 156 N06 E50 27AC 2 USGS-MX                   | 38.3524331  | -116.3311663  | T                   | 5580               | 10                |              | 455             | 0                        | 10/3/80            | 10/3/80          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382109116194902">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382109116194902</a> |
| 156       | U-670      | 156 N06 E51 22BA 1 Blue Jay Maintenance Sta  | 38.36411366 | -115.28002171 | M                   | 5238               | 5                 | 111ALVF      | 238             | 3                        | 12/13/94           | 6/16/04          | 17                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382205116132500">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382205116132500</a> |
| 156       | U-673      | 156 N06 E49 24AADA1                          | 38.37465887 | -115.64364327 | M                   | 7400               | 20                |              | 400             | 1                        | 11/3/93            | 11/3/93          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382212116235101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382212116235101</a> |
| 156       | U-676      | 156 N06 E50 17CD 1                           | 38.37187824 | -117.05757934 | F                   | 6170               | 20                |              | 216             | 0                        | 7/20/48            | 7/20/48          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382223116222501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382223116222501</a> |
| 156       | U-679      | 156 N06 E51 17BD 1 USGS-                     | 38.37743461 | -115.71642378 | M                   | 5315               | 80                |              | 188             | 0                        | 9/1/80             | 9/20/94          | 16                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382255116153801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382255116153801</a> |

USGS Data- Wens (CRC Basins)

| Basin No. | Project ID | Site_Name                                | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft- AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|---------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 156       | U-681      | 156 N06 E50 11B 1 Hot Creek              | 38.38187698 | -116.26144271 | T                   | 5540                | 1                 |              | 0               | 0                        | 10/17/65           | 10/17/65         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=382341116192801">http://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=382341116192801</a> |
| 156       | U-715      | 156 N07 E51 10AD 1 USGS-MX (Hot Creek 1) | 38.4818804  | -115.5391949  | S                   | 5600                | 10                |              | 480             | 0                        | 10/9/80            | 9/14/04          | 54                      | <a href="http://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=382901116125201">http://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=382901116125201</a> |
| 156       | U-716      | 156 N07 E51 10AD 2 USGS-MX               | 38.48354378 | -116.21533079 | T                   | 5610                | 10                |              | 480             | 0                        | 10/9/80            | 3/5/92           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=382901116125202">http://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=382901116125202</a> |
| 156       | U-722      | 156 N07 E51 04DC 1 USGS-MX               | 38.49298921 | -115.67031141 | M                   | 5490                | 10                |              | 200             | 0                        | 9/1/80             | 3/1/81           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=382926116141501">http://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=382926116141501</a> |
| 156       | U-1705     | 156 N03 E51 19BA 1                       | 38.10410135 | -116.31755236 | U                   | 0                   | 0                 |              | 0               | 3                        |                    |                  | 0                       |   |
| 156       | U-1718     | 156 N04 E51 13DA 2                       | 38.20409953 | -116.17727205 | U                   | 0                   | 0                 |              | 0               | 3                        |                    |                  | 0                       |   |
| 156       | U-1719     | 156 N04 E51 13DA 3                       | 38.20409953 | -116.17727205 | U                   | 0                   | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |
| 156       | U-1723     | 156 N04 E51 12BA 1                       | 38.22771026 | -116.18421694 | U                   | 0                   | 0                 |              | 0               | 3                        |                    |                  | 0                       |   |
| 156       | U-1729     | 156 N05 E51 19BA 1                       | 38.28326583 | -116.27866454 | U                   | 0                   | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |
| 156       | U-1733     | 156 N06 E50 25AB 1                       | 38.34298846 | -116.31061019 | U                   | 0                   | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                            | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--------------------------------------|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 170       | U-1300     | 170 S04 E55 13BB 1                   | 37.60439536 | -115.74781159 | M                   | 4940               | 1                 |              | 401             | 0                        | 1/1/66             | 1/1/66           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373624115434101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373624115434101</a> |
| 170       | U-1303     | 170 S04 E55 10DD 1                   | 37.60772826 | -115.76781206 | M                   | 4940               | 1                 |              | 470             | 0                        | 1/1/66             | 1/1/66           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373635115450101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373635115450101</a> |
| 170       | U-1304     | 170 S04 E55 09BC 1 Well (Report R60) | 37.62051075 | -115.79717672 | M                   | 4940               | 1                 |              | 232             | 0                        | 10/7/71            | 9/21/99          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373704115465701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373704115465701</a> |
| 170       | U-1305     | 170 S04 E55 07 1                     | 37.6143936  | -115.83836931 | M                   | 4880               | 1                 |              | 240             | 0                        | 1/1/65             | 1/1/65           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373704115490401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373704115490401</a> |
| 170       | U-1306     | 170 S04 E55 08AA 1                   | 37.61883842 | -115.80697972 | T                   | 4910               | 10                |              | 250             | 0                        | 2/27/66            | 10/22/02         | 63                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373708115482201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373708115482201</a> |
| 170       | U-1308     | 170 S04 E55 03CC 2                   | 37.62244978 | -115.78447921 | T                   | 4858               | 10                |              | 400             | 0                        | 9/3/66             | 10/2/97          | 56                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373721115470102">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373721115470102</a> |
| 170       | U-1309     | 170 S04 E55 04DC 1                   | 37.620697   | -115.78796817 | 1                   | 4865               | 10                |              | 415             | 0                        | 7/22/66            | 10/22/02         | 13                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373721115473401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373721115473401</a> |
| 170       | U-1310     | 170 S04 E55 05DC 1                   | 37.62244935 | -115.81170208 | T                   | 4890               | 10                |              | 256             | 0                        | 10/28/65           | 4/11/90          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373721115483901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373721115483901</a> |
| 170       | U-1311     | 170 S04 E55 02CD 1 Well (Report R60) | 37.62380837 | -115.76551211 | M                   | 4897               | 1                 |              | 0               | 0                        | 11/20/69           | 9/21/99          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373729115442601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373729115442601</a> |
| 170       | U-1312     | 170 S04 E55 03CC 1                   | 37.62244983 | -115.78142359 | M                   | 4897               | 1                 |              | 208             | 0                        | 1/1/65             | 1/1/65           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373729115454301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373729115454301</a> |
| 170       | U-1314     | 170 S03 E55 04CBAB1 Sundown Well     | 37.6277271  | -115.80364637 | S                   | 4850               | 10                |              | 170             | 0                        | 8/4/65             | 3/18/97          | 55                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373740115481001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373740115481001</a> |
| 170       | U-1315     | 170 S04 E55 05 1                     | 37.6260602  | -115.82142455 | M                   | 4880               | 1                 |              | 250             | 0                        | 1/1/66             | 1/1/66           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373741115480601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373741115480601</a> |
| 170       | U-1320     | 170 S03 E55 34CC 1                   | 37.63439388 | -115.78392372 | M                   | 4870               | 1                 |              | 537             | 0                        | 1/1/66             | 10/22/02         | 64                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373813115454001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373813115454001</a> |
| 170       | U-1321     | 170 S03 E55 35DD 1                   | 37.63661658 | -115.74920069 | M                   | 4870               | 1                 |              | 271             | 0                        | 1/1/68             | 1/1/68           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373815115434601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373815115434601</a> |
| 170       | U-1322     | 170 S03 E55 31 1                     | 37.63550424 | -115.83031373 | M                   | 4890               | 1                 |              | 250             | 0                        | 1/1/66             | 10/22/02         | 60                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373817115483301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373817115483301</a> |
| 170       | U-1323     | 170 S03 E55 33CC 1                   | 37.63522692 | -115.80142415 | M                   | 4870               | 1                 |              | 303             | 0                        | 1/1/64             | 1/1/64           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373819115465201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373819115465201</a> |
| 170       | U-1325     | 170 S03 E55 31CBBC1 Vineyard         | 37.64161498 | -115.84309186 | S                   | 4879               | 10                |              | 280             | 0                        | 9/15/64            | 10/22/98         | 57                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373830115503201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373830115503201</a> |
| 170       | U-1326     | 170 S03 E55 36ADDC1 USGS-MX          | 37.64340835 | -115.7346338  | 1                   | 4921               | 80                |              | 195             | 0                        | 1/1/81             | 8/26/99          | 11                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373833115441101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373833115441101</a> |
| 170       | U-1327     | 170 S03 E55 36AD 1 Well (Report R60) | 37.64356125 | -115.72836702 | M                   | 4870               | 1                 |              | 0               | 0                        | 10/7/71            | 3/2/99           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373838115424001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373838115424001</a> |
| 170       | U-1328     | 170 S03 E55 36BCCA1                  | 37.64439414 | -115.74864517 | 5                   | 4820               | 10                |              | 155             | 1                        | 8/15/98            | 8/15/98          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373840115445201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373840115445201</a> |
| 170       | U-1329     | 170 S03 E55 32BCB 1                  | 37.64494851 | -115.82392476 | S                   | 4850               | 10                |              | 157             | 0                        | 8/8/60             | 10/22/98         | 67                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373842115492301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373842115492301</a> |
| 170       | U-1330     | 170 S03 E55 33AA 1                   | 37.62068033 | -115.78798484 | T                   | 4807               | 10                |              | 0               | 0                        | 4/11/90            | 4/11/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373851115472001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373851115472001</a> |
| 170       | U-1331     | 170 S03 E55 28DC 1                   | 37.64967108 | -115.79225736 | M                   | 4838               | 1                 |              | 250             | 0                        | 5/14/64            | 10/22/02         | 79                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373907115461701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373907115461701</a> |
| 170       | U-1332     | 170 S03 E55 29 1                     | 37.65189303 | -115.8061466  | M                   | 4835               | 1                 |              | 300             | 0                        | 1/1/61             | 1/1/61           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373907115472901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373907115472901</a> |
| 170       | U-1334     | 170 S03 E54 25 1 Southwestern        | 37.66473363 | -115.85277284 | 1                   | 4880               | 1                 |              | 165             | 0                        | 7/1/48             | 3/5/99           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373943115495701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373943115495701</a> |
| 170       | U-1335     | 170 S03 E55 26BA 1                   | 37.66400452 | -115.75689825 | T                   | 4758               | 1                 |              | 0               | 0                        | 4/11/90            | 9/21/99          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373944115454101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373944115454101</a> |
| 170       | U-1337     | 170 S03 E55 19CC 1                   | 37.6660588  | -115.83892529 | M                   | 4850               | 1                 |              | 238             | 0                        | 1/1/63             | 10/22/02         | 78                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373955115490201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373955115490201</a> |
| 170       | U-1338     | 170 S03 E54 24 3                     | 37.66481129 | -115.86102582 | 1                   | 4893               | 10                |              | 400             | 0                        | 4/11/90            | 3/5/99           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373955115512901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373955115512901</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                   | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 170       | U-1339     | 170 S03 E55 23DC 1 Number 6 Well            | 37.66399897 | -115.75690103 | M                   | 4780               | 1                 |              | 75              | 0                        | 10/7/71            | 8/26/99          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373957115440501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373957115440501</a> |
| 170       | U-1341     | 170 S03 E54 24 2                            | 37.67191955 | -115.85266179 | 1                   | 4860               | 1                 |              | 327             | 0                        | 10/7/71            | 10/22/02         | 44                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374020115494101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374020115494101</a> |
| 170       | U-1342     | 170 S03 E54 13B 1                           | 37.68883566 | -115.85837041 | M                   | 4900               | 1                 |              | 165             | 0                        | 7/1/48             | 7/1/48           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374024115502901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374024115502901</a> |
| 170       | U-1343     | 170 S03 E54 24 1                            | 37.67242219 | -115.86087033 | 1                   | 4885               | 1                 |              | 251             | 0                        | 8/20/64            | 10/22/02         | 41                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374029115501901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374029115501901</a> |
| 170       | U-1345     | 170 S03 E56 17DC 2                          | 37.68078293 | -115.70308902 | T                   | 4846               | 10                |              | 260             | 0                        | 10/24/51           | 4/10/90          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374051115420802">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374051115420802</a> |
| 170       | U-1346     | 170 S03 E56 17DC 1 Well (Report R60)        | 37.67883878 | -115.69225549 | M                   | 4845               | 1                 |              | 0               | 0                        | 10/7/71            | 10/7/71          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374052115403001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374052115403001</a> |
| 170       | U-1348     | 170 S03 E55 07CC 1 Well (Report R60)        | 37.69652736 | -115.84128115 | M                   | 4850               | 1                 |              | 0               | 0                        | 11/20/69           | 11/20/69         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374140115490401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374140115490401</a> |
| 170       | U-1350     | 170 S03 E55 06A 1                           | 37.715502   | -115.82864764 | M                   | 4800               | 1                 |              | 20              | 0                        | 5/5/48             | 5/5/48           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374230115491701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374230115491701</a> |
| 170       | U-1351     | 170 S03 E56 06CA 1                          | 37.71244827 | -115.7211451  | M                   | 4763               | 1                 |              | 0               | 0                        | 10/7/71            | 10/7/71          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374244115420801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374244115420801</a> |
| 170       | U-1352     | 170 S03 E56 06CA 2                          | 37.71344253 | -115.72802578 | 1                   | 4763               | 10                |              | 0               | 0                        | 4/11/90            | 4/11/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374247115433202">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374247115433202</a> |
| 170       | U-1353     | 170 S03 E55 05BD 1 Black Rock Well          | 37.71216892 | -115.81642508 | M                   | 4760               | 1                 |              | 20              | 0                        | 10/7/71            | 10/7/71          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374247115474001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374247115474001</a> |
| 170       | U-1354     | 170 S03 E55 05BDDD1 USBLM - Black Rock Well | 37.71555773 | -115.81551397 | 1                   | 4751               | 10                | 110VFLF      | 29              | 0                        | 2/20/68            | 4/14/95          | 31                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374256115485501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374256115485501</a> |
| 170       | U-1355     | 170 S02 E56 32DAAA1 USGS-MX                 | 37.72911501 | -115.69725592 | T                   | 4921               | 80                |              | 189             | 0                        | 11/1/80            | 9/20/94          | 14                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374345115414701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374345115414701</a> |
| 170       | U-1356     | 170 S02 E56 32BDB 1 PN-0-3                  | 37.73217022 | -115.70808945 | F                   | 4870               | 10                |              | 196             | 0                        | 3/11/85            | 4/10/90          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374356115422601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374356115422601</a> |
| 170       | U-1357     | 170 S02 E55 24CB 1 USGS-MX                  | 37.75633531 | -115.74670134 | T                   | 4800               | 10                |              | 153             | 0                        | 11/1/80            | 9/20/94          | 10                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374523115440901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374523115440901</a> |
| 170       | U-1360     | 170 S02 E55 09AD 1 USGS-MX                  | 37.78827842 | -115.79059153 | T                   | 4921               | 10                |              | 192             | 0                        | 1/1/81             | 9/20/94          | 12                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374729115483301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374729115483301</a> |
| 170       | U-1361     | 170 S02 E56 06AD 1                          | 37.80244634 | -115.71058984 | M                   | 4850               | 1                 |              | 120             | 0                        | 1/1/70             | 1/1/70           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374806115413601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374806115413601</a> |
| 170       | U-1366     | 170 S01 E55 22A 1 Well (Report R60)         | 37.85098001 | -115.77418863 | 1                   | 5050               | 1                 |              | 0               | 0                        | 10/7/71            | 3/5/99           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375051115445301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375051115445301</a> |
| 170       | U-1367     | 170 S01 E55 22AB 1                          | 37.85077721 | -115.77586924 | T                   | 5030               | 10                |              | 0               | 0                        | 4/10/90            | 4/10/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375103115463001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375103115463001</a> |
| 170       | U-1371     | 170 S01 E56 28BD 1 USGS-MX                  | 37.92022237 | -115.68781217 | M                   | 5000               | 100               |              | 200             | 0                        | 12/1/80            | 12/1/80          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375513115411301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375513115411301</a> |
| 170       | U-1375     | 170 S01 E56 18DD 1 USGS-MX                  | 37.94244329 | -115.71531278 | M                   | 4900               | 100               |              | 200             | 0                        | 12/1/80            | 12/1/80          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375633115425201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375633115425201</a> |
| 170       | U-1388     | 170 S02 E56 05AD 1 USGS-MX                  | 37.80355776 | -115.69781185 | T                   | 4922               | 80                |              | 193             | 0                        | 11/1/80            | 9/20/94          | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380338115422001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380338115422001</a> |
| 170       | U-1400     | 170 S03 E55 07CC 2 USGS-MX                  | 37.69652735 | -115.8413506  | 1                   | 4922               | 80                |              | 148             | 0                        | 11/1/80            | 3/31/94          | 8                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380738115502901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380738115502901</a> |
| 170       | U-1407     | 170 S03 E54 12BCBC1 USGS-MX                 | 37.70327967 | -115.86114838 | M                   | 4975               | 10                |              | 200             | 0                        | 1/1/81             | 1/1/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380829115513401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380829115513401</a> |



USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                  | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 171       | U-1359     | 171 S02 E58 11A 2 USBLM                    | 37.78773114 | -115.4280848  | M                   | 5700               | 100               |              | 188             | 0                        | 5/8/63             | 3/11/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374716115253801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374716115253801</a> |
| 171       | U-1362     | 171 S01 E59 34CB 2 USGS-MX                 | 37.81217706 | -115.34141652 | M                   | 5100               | 100               |              | 1340            | 0                        | 6/8/81             | 6/8/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374844115202601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374844115202601</a> |
| 171       | U-1363     | 171 S01 E59 34CB 1 USGS-MX                 | 37.81551021 | -115.34919447 | T                   | 5100               | 100               |              | 1452            | 0                        | 6/8/81             | 6/8/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374856115205402">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374856115205402</a> |
| 171       | U-1365     | 171 S01 E59 27CA 1 USGS-MX                 | 37.82967684 | -115.34475002 | M                   | 5020               | 100               |              | 200             | 0                        | 1/1/80             | 1/1/80           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374947115203801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374947115203801</a> |
| 171       | U-1369     | 171 N01 E60 33CC 1 USGS-MX                 | 37.8969005  | -115.25502658 | M                   | 4990               | 100               |              | 200             | 0                        | 1/1/80             | 1/1/80           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375349115151501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375349115151501</a> |
| 171       | U-1373     | 171 N01 E58 24 1 Baseline Canyon Federal 2 | 37.92987028 | -115.35094788 | F                   | 4932               | 20                |              | 1560            | 0                        | 10/31/96           | 9/16/04          | 20                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375547115244201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375547115244201</a> |
| 171       | U-1386     | 171 S02 E58 11A 1 USBLM                    | 37.79273107 | -115.42864038 | M                   | 5200               | 1                 |              | 188             | 0                        | 5/8/63             | 5/8/63           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380301115252901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380301115252901</a> |
| 171       | U-1395     | 171 N03 E59 27AD 2 USGS-MX                 | 38.0932852  | -115.33169335 | S                   | 5010               | 20                |              | 0               | 0                        | 8/29/93            | 9/21/94          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380536115195102">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380536115195102</a> |
| 171       | U-1405     | 171 N03 E59 12AA 1 USGS-MX                 | 38.13967416 | -115.29502511 | M                   | 5080               | 100               |              | 200             | 0                        | 11/1/80            | 11/1/80          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380823115173901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380823115173901</a> |
| 171       | U-1406     | 171 N03 E59 12AA 2 USGS-MX                 | 38.13967416 | -115.29502511 | S                   | 5087               | 20                |              | 354             | 0                        | 8/27/93            | 9/21/94          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380823115173902">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380823115173902</a> |
| 171       | U-1883     | 171 S01 E59 34CB 3 CL-VF-O-1A AMS Map      | 37.81662134 | -115.34752778 | M                   | 5125               | 0                 |              | 0               | 1                        |                    |                  | 0                       |   |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                     | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 172       | U-1368     | 172 S01 E57 02BB 1                            | 37.89661589 | -115.54614283 | M                   | 5546               | 5                 |              | 500             | 0                        | 2/21/44            | 3/20/90          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375348115324301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375348115324301</a> |
| 172       | U-1376     | 172 N05 E59 32C 1                             | 38.24744816 | -115.37669123 | M                   | 5300               | 1                 |              | 0               | 0                        | 2/27/48            | 2/27/48          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375742115223001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375742115223001</a> |
| 172       | U-1383     | 172 N02 E57 22BBC 1 USGS-MX (Garden Valley)   | 38.02605781 | -115.5630875  | T                   | 5550               | 10                |              | 1010            | 0                        | 12/12/80           | 9/16/04          | 40                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333501</a> |
| 172       | U-1384     | 172 N02 E57 22BA 2 USGS-MX                    | 38.02550235 | -115.56058746 | T                   | 5400               | 100               |              | 1032            | 0                        | 12/12/80           | 3/31/94          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333502">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333502</a> |
| 172       | U-1385     | 172 N02 E57 22BBC 3 USGS-MX                   | 38.02550232 | -115.56142081 | T                   | 5550               | 10                |              | 300             | 0                        | 3/20/90            | 3/20/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333503">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333503</a> |
| 172       | U-1389     | 172 N02 E58 03AA 1 USGS-MX                    | 38.07217182 | -115.43919554 | T                   | 5200               | 20                |              | 200             | 0                        | 10/1/80            | 3/23/94          | 13                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380348115265001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380348115265001</a> |
| 172       | U-1396     | 172 N03 E57 16C 1                             | 38.11827785 | -115.57753115 | M                   | 6200               | 1                 |              | 92              | 0                        | 5/9/63             | 5/9/63           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380643115344201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380643115344201</a> |
| 172       | U-1397     | 172 N03 E59 18BB 1 USGS-MX                    | 38.12578301 | -115.39947168 | T                   | 5200               | 80                |              | 200             | 0                        | 10/1/80            | 9/4/91           | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380646115235001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380646115235001</a> |
| 172       | U-1398     | 172 N03 E58 15B 1                             | 38.12605965 | -115.44641695 | M                   | 5300               | 1                 |              | 260             | 0                        | 1/20/60            | 1/20/60          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380718115270101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380718115270101</a> |
| 172       | U-1401     | 172 N03 E58 15D 1                             | 38.12772585 | -115.46475058 | M                   | 5307               | 5                 |              | 260             | 0                        | 1/20/60            | 3/20/90          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380740115275001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380740115275001</a> |
| 172       | U-1403     | 172 N03 E59 10BD 1 USGS-MX (Coal Valley Well) | 38.13745091 | -115.33974818 | F                   | 5560               | 20                |              | 1837            | 2                        | 12/8/80            | 9/16/04          | 109                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380758115204601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380758115204601</a> |
| 172       | U-1404     | 172 N03 E57 16CBD 1                           | 38.13411035 | -115.59197579 | M                   | 6152               | 10                |              | 92              | 0                        | 5/9/63             | 3/20/90          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380803115352801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380803115352801</a> |
| 172       | U-1408     | 172 N03 E58 01DA 1 USGS-MX                    | 38.15300471 | -115.40197123 | T                   | 5200               | 20                |              | 100             | 0                        | 10/1/80            | 9/21/94          | 20                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380835115242601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380835115242601</a> |
| 172       | U-1412     | 172 N04 E59 30CD 1 USGS-MX                    | 38.17744895 | -115.3936373  | M                   | 5240               | 20                |              | 100             | 0                        | 10/1/80            | 3/12/85          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380937115233401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380937115233401</a> |
| 172       | U-1413     | 172 N04 E58 33DB 1 USGS-MX                    | 38.16161424 | -115.46252774 | M                   | 5600               | 100               |              | 200             | 0                        | 11/1/80            | 11/1/80          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380942115274201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380942115274201</a> |
| 172       | U-1414     | 172 N04 E58 33DB 2 USGS-MX                    | 38.16161424 | -115.46252774 | S                   | 5520               | 20                |              | 400             | 0                        | 9/14/93            | 9/21/94          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380942115274202">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380942115274202</a> |
| 172       | U-1415     | 172 N04 E58 36A 1 USBLM - Lund (Report 18)    | 38.16633769 | -115.40752665 | M                   | 5250               | 0                 |              | 0               | 0                        | 5/9/63             | 5/9/63           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380959115242401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380959115242401</a> |
| 172       | U-1416     | 172 N04 E58 36A 2 USBLM - Garden Valley       | 38.16994882 | -115.40419319 | M                   | 5217               | 20                | 110VFL       | 27              | 0                        | 5/9/63             | 4/11/96          | 42                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381000115240001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381000115240001</a> |
| 172       | U-1417     | 172 N04 E58 23D 1 Well (Report R18)           | 38.18522591 | -115.42280437 | M                   | 5400               | 0                 |              | 0               | 0                        | 1/1/00             | 1/1/00           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381107115251901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381107115251901</a> |
| 172       | U-1419     | 172 N04 E58 26ABA 1 USBLM                     | 38.18967027 | -115.42308208 | T                   | 5338               | 10                |              | 20              | 0                        | 3/20/90            | 3/20/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381123115252001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381123115252001</a> |
| 172       | U-1420     | 172 N04 E58 22DB 1 USGS-MX                    | 38.19078087 | -115.44391578 | M                   | 5520               | 100               |              | 100             | 0                        | 1/1/81             | 1/1/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381127115263501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381127115263501</a> |
| 172       | U-1421     | 172 N04 E58 22DB 2 USGS-MX                    | 38.19078087 | -115.44391578 | S                   | 5520               | 20                |              | 398             | 0                        | 9/14/93            | 9/21/94          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381127115263502">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381127115263502</a> |
| 172       | U-1425     | 172 N04 E59 06DDD 1                           | 38.2282818  | -115.37752494 | T                   | 5292               | 10                |              | 0               | 0                        | 5/9/63             | 3/20/90          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381323115223401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381323115223401</a> |
| 172       | U-1426     | 172 N04 E59 06D 1                             | 38.23383703 | -115.38724725 | M                   | 5200               | 1                 |              | 200             | 0                        | 5/9/63             | 5/9/63           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381339115225501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381339115225501</a> |
| 172       | U-1432     | 172 N05 E59 32D 1                             | 38.24689278 | -115.36946887 | M                   | 5200               | 1                 |              | 0               | 0                        | 5/9/63             | 5/9/63           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381437115214901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381437115214901</a> |
| 172       | U-1434     | 172 N04 E59 05ABC 1 USBLM                     | 38.24467099 | -115.35252413 | M                   | 5345               | 10                |              | 0               | 0                        | 5/9/63             | 3/20/90          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381441115210601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381441115210601</a> |

**USGS Data- Wells (CRC Basins)**

| Basin No. | Project ID | Site_Name                                    | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft- AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|---------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 181       | U-1394     | 181 N03 E63 27CAA 1 USGS-MX (N. Dry Lake)    | 38.09190245 | -114.89584265 | F                   | 5560                | 10                |              | 2395            | 1                        | 11/21/80           | 9/16/04          | 91                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380531114534201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380531114534201</a> |
| 181       | U-1510     | 181 S03 E64 12AC 1 USGS-MX(S. Dry Lake Well) | 37.70413031 | -114.75944855 | T                   | 4640                | 5                 |              | 1000            | 0                        | 4/20/80            | 9/29/04          | 60                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374215114453101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374215114453101</a> |
| 181       | U-1511     | 181 S03 E64 12AC 2 USGS-MX                   | 37.70413031 | -114.75944855 | T                   | 4640                | 10                |              | 1300            | 0                        | 1/26/80            | 3/10/90          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374215114453102">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374215114453102</a> |
| 181       | U-1512     | 181 S03 E64 12AC 3 USGS-MX                   | 37.70413031 | -114.75944855 | T                   | 4640                | 10                |              | 798             | 0                        | 1/26/80            | 3/10/90          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374215114453103">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374215114453103</a> |
| 181       | U-1521     | 181 S02 E65 19CA 1                           | 37.75996368 | -114.74250357 | T                   | 5700                | 20                |              | 156             | 0                        | 4/16/83            | 3/10/90          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374536114443001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374536114443001</a> |
| 181       | U-1556     | 181 N01 E62 24ABB 1 USBLM                    | 37.93996195 | -114.74667122 | M                   | 4692                | 16                |              | 0               | 0                        | 3/10/90            | 3/10/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375624114444501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375624114444501</a> |
| 181       | U-1595     | 181 N03 E65 21D 1 Bristol Well               | 38.10440437 | -114.68916827 | T                   | 5460                | 10                |              | 80              | 0                        | 11/26/62           | 9/21/94          | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380550114412301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380550114412301</a> |
| 181       | U-1598     | 181 N03 E64 20BD 1 USBLM Coyote Well         | 38.11106973 | -114.82722902 | T                   | 5067                | 20                |              | 380             | 0                        | 3/11/83            | 3/10/90          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380616114494101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380616114494101</a> |
| 181       | U-1620     | 181 N04 E64 07DC 1 USGS-MX (Muleshoe Valley) | 38.21690142 | -114.83556189 | T                   | 5530                | 10                |              | 1190            | 0                        | 7/28/81            | 9/16/04          | 44                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381256114500701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381256114500701</a> |
| 181       | U-1621     | 181 N04 E64 07DC 2 USGS-MX                   | 38.21856807 | -114.83500631 | T                   | 5535                | 10                |              | 672             | 0                        | 7/2/81             | 7/21/94          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381256114500702">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381256114500702</a> |
| 181       | U-1622     | 181 N04 E64 07DC 3 USGS-MX                   | 38.21856807 | -114.83500631 | T                   | 5535                | 10                |              | 1134            | 0                        | 9/5/81             | 3/10/90          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381256114500703">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381256114500703</a> |
| 181       | U-1892     | 181 N03 E63 03DCC 1                          | 38.14579063 | -114.89417558 | U                   | 5675                | 0                 |              | 0               | 1                        |                    |                  | 0                       |   |

USGS Data- Wrens (CRC Basins)

| Basin No. | Project ID | Site_Name           | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft- AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---------------------|-------------|---------------|---------------------|---------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 197       | U-1491     | 197 S03 E71 07DB 1  | 37.60719129 | -114.13136947 | S                   | 5790                | 1                 |              | 0               | 0                        | 11/17/67           | 11/17/67         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373632114084201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373632114084201</a> |
| 197       | U-1508     | 197 S03 E70 07AD 1  | 37.70357714 | -114.19609345 | F                   | 6240                | 40                |              | 232             | 0                        | 5/5/50             | 5/5/50           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374213114114301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374213114114301</a> |
| 197       | U-1522     | 197 S02 E71 21BDAC1 | 37.76079953 | -114.05747927 | S                   | 5876                | 2                 |              | 273             | 0                        | 9/10/58            | 3/12/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374539114032401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374539114032401</a> |
| 197       | U-1540     | 197 S01 E71 17BDBB1 | 37.86413082 | -114.0760894  | S                   | 6220                | 10                |              | 120             | 0                        | 3/12/85            | 3/12/85          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375151114043101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375151114043101</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                              | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 203       | U-1505     | 203 S03 E67 28C 1                      | 37.65468701 | -114.5086044  | M                   | 4460               | 1                 |              | 118             | 0                        | 6/17/65            | 10/14/02         | 70                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373919114290401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373919114290401</a> |
| 203       | U-1506     | 203 S03 E67 22B 1                      | 37.67718708 | -114.48777026 | M                   | 4600               | 1                 |              | 175             | 0                        | 3/16/63            | 10/14/02         | 59                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374034114274601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374034114274601</a> |
| 203       | U-1507     | 203 S03 E67 14ACAB1                    | 37.68996494 | -114.4508244  | S                   | 4680               | 10                |              | 158             | 1                        | 9/18/98            | 9/18/98          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374124114270001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374124114270001</a> |
| 203       | U-1509     | 203 S03 E67 11A 1                      | 37.70635379 | -114.46332494 | M                   | 4600               | 1                 |              | 204             | 0                        | 4/1/63             | 9/30/75          | 18                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374215114262401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374215114262401</a> |
| 203       | U-1513     | 203 S03 E67 02D 1                      | 37.71163156 | -114.46138044 | M                   | 4615               | 1                 |              | 158             | 0                        | 4/1/58             | 10/14/02         | 43                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374243114261401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374243114261401</a> |
| 203       | U-1514     | 203 S03 E67 02A 1                      | 37.72135379 | -114.45026894 | M                   | 4605               | 1                 |              | 225             | 0                        | 2/24/62            | 3/20/97          | 20                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374317114265801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374317114265801</a> |
| 203       | U-1515     | 203 S02 E67 35A 1                      | 37.73746487 | -114.46054716 | M                   | 4650               | 1                 |              | 193             | 0                        | 7/20/66            | 10/14/02         | 64                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374400114260701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374400114260701</a> |
| 203       | U-1516     | 203 S02 E67 26D 1                      | 37.74190931 | -114.46360284 | M                   | 4650               | 1                 |              | 115             | 0                        | 12/1/60            | 12/1/60          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374411114261401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374411114261401</a> |
| 203       | U-1517     | 203 S02 E67 25C 1                      | 37.74357599 | -114.45165797 | M                   | 4650               | 1                 |              | 135             | 0                        | 2/1/61             | 2/1/61           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374416114253301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374416114253301</a> |
| 203       | U-1518     | 203 S02 E67 25DABB1                    | 37.74468711 | -114.42526813 | U                   | 4659               | 0                 |              | 0               | 1                        | 7/20/66            | 10/14/02         | 64                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374441114252801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374441114252801</a> |
| 203       | U-1519     | 203 S02 E67 24D 1                      | 37.75746479 | -114.44387996 | M                   | 4700               | 1                 |              | 0               | 0                        | 11/16/67           | 10/14/02         | 59                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374509114250901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374509114250901</a> |
| 203       | U-1520     | 203 S02 E68 19A 1                      | 37.76190919 | -114.42582376 | M                   | 4695               | 1                 |              | 165             | 0                        | 6/1/61             | 6/1/61           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374536114241501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374536114241501</a> |
| 203       | U-1523     | 203 S02 E68 18D 1                      | 37.77079798 | -114.42276812 | M                   | 4700               | 1                 |              | 170             | 0                        | 1/1/52             | 1/1/52           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374601114240501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374601114240501</a> |
| 203       | U-1524     | 203 S02 E68 17B 1                      | 37.77996455 | -114.41387893 | M                   | 4710               | 1                 |              | 152             | 0                        | 11/1/55            | 11/1/55          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374634114233401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374634114233401</a> |
| 203       | U-1525     | 203 S02 E68 07D 3                      | 37.78524226 | -114.42415709 | M                   | 4730               | 1                 |              | 105             | 0                        | 2/21/63            | 2/21/63          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374648114235401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374648114235401</a> |
| 203       | U-1526     | 203 S02 E68 08C 1                      | 37.78857556 | -114.41110107 | M                   | 4715               | 1                 |              | 0               | 0                        | 9/19/49            | 2/21/63          | 14                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374656114232401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374656114232401</a> |
| 203       | U-1527     | 203 S02 E68 07A 1 Mormon Church        | 37.78968666 | -114.41915692 | M                   | 4730               | 1                 |              | 135             | 0                        | 12/5/63            | 12/5/63          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374704114235101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374704114235101</a> |
| 203       | U-1528     | 203 S02 E68 06D 1                      | 37.79968654 | -114.42415713 | M                   | 4790               | 1                 |              | 100             | 0                        | 5/1/62             | 5/1/62           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374737114240501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374737114240501</a> |
| 203       | U-1529     | 203 S02 E68 05CDDDB1                   | 37.79718658 | -114.40026737 | S                   | 4733               | 10                |              | 0               | 0                        | 4/9/83             | 4/9/83           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374750114235801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374750114235801</a> |
| 203       | U-1530     | 203 S02 E68 05CDDDB2                   | 37.79718658 | -114.40026737 | S                   | 4733               | 10                |              | 180             | 0                        | 4/9/83             | 4/9/83           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374750114235802">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374750114235802</a> |
| 203       | U-1531     | 203 S02 E68 08B 5 USGS - Panaca Valley | 37.79274218 | -114.41193444 | M                   | 5000               | 1                 |              | 110             | 0                        | 6/28/49            | 10/14/02         | 103                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374750114242001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374750114242001</a> |
| 203       | U-1532     | 203 S02 E68 05A 1                      | 37.80774201 | -114.40304527 | M                   | 4790               | 1                 |              | 160             | 0                        | 7/1/59             | 7/1/59           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374802114225701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374802114225701</a> |
| 203       | U-1533     | 203 S02 E69 06B 1 USBLM                | 37.80774203 | -114.3110975  | M                   | 5450               | 1                 |              | 300             | 0                        | 12/3/63            | 12/3/63          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374807114180401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374807114180401</a> |
| 203       | U-1534     | 203 S02 E68 05B 1                      | 37.80579759 | -114.41110111 | M                   | 4800               | 1                 |              | 0               | 0                        | 12/30/47           | 2/21/63          | 14                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374810114232001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374810114232001</a> |
| 203       | U-1535     | 203 S01 E68 33C 1                      | 37.80746424 | -114.3727664  | M                   | 4800               | 1                 |              | 106             | 0                        | 12/4/63            | 12/4/63          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374827114221901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374827114221901</a> |
| 203       | U-1536     | 203 S01 E68 32D 1                      | 37.8155197  | -114.40415644 | M                   | 4810               | 1                 |              | 75              | 0                        | 12/4/63            | 12/4/63          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374829114225301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374829114225301</a> |
| 203       | U-1537     | 203 S01 E68 33B 1                      | 37.81940855 | -114.39304494 | S                   | 4784               | 1                 |              | 120             | 0                        | 4/25/46            | 3/20/97          | 38                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374910114231001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374910114231001</a> |
| 203       | U-1538     | 203 S01 E68 28C 1                      | 37.82635291 | -114.39526725 | M                   | 4900               | 1                 |              | 154             | 0                        | 3/1/46             | 10/14/02         | 80                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374911114222301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374911114222301</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                    | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 204       | U-1468     | 204 S06 E69 09ADB 1 USBLM                    | 37.44357856 | -114.27359305 | F                   | 5748               | 10                |              | 0               | 0                        | 3/14/85            | 3/14/85          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=372637114162201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=372637114162201</a> |
| 204       | U-1472     | 204 S05 E70 31ACBD1 USBLM                    | 37.47219106 | -114.20609155 | S                   | 5555               | 10                |              | 199             | 0                        | 6/30/54            | 3/14/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=372820114121901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=372820114121901</a> |
| 204       | U-1474     | 204 S05 E69 15ADDD1                          | 37.5135777  | -114.25275873 | S                   | 5349               | 2                 |              | 40              | 0                        | 9/11/59            | 3/14/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373049114150701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373049114150701</a> |
| 204       | U-1476     | 204 S05 E69 11D 1                            | 39.15771031 | -115.58448271 | M                   | 5300               | 1                 |              | 127             | 0                        | 10/1/62            | 10/1/62          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373135114140301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373135114140301</a> |
| 204       | U-1477     | 204 S05 E68 09B 1 USBLM                      | 37.52635579 | -114.24025874 | M                   | 5600               | 1                 |              | 200             | 0                        | 1/1/63             | 1/1/63           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373154114230301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373154114230301</a> |
| 204       | U-1479     | 204 S04 E70 33BD 1 LA & Salt Lake Railroad   | 37.53302101 | -114.40082146 | M                   | 5546               | 20                |              | 499             | 0                        | 5/9/43             | 5/9/43           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373324114095301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373324114095301</a> |
| 204       | U-1480     | 204 S04 E70 33CAB 1 LA & Salt Lake Railroad  | 37.55663576 | -114.16553623 | T                   | 5546               | 2                 |              | 499             | 0                        | 5/9/43             | 3/14/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373324114095601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373324114095601</a> |
| 204       | U-1481     | 204 S04 E69 27CDCB1 USBLM                    | 37.55663573 | -114.16636957 | F                   | 5638               | 2                 |              | 250             | 0                        | 3/14/85            | 3/14/85          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373355114152301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373355114152301</a> |
| 204       | U-1488     | 204 S04 E70 11CCDD1 USBLM                    | 37.56524398 | -114.25720408 | S                   | 5789               | 5                 |              | 197             | 0                        | 5/11/51            | 3/14/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373626114075001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373626114075001</a> |
| 204       | U-1492     | 204 S04 E70 11D 1                            | 37.69941206 | -114.08664676 | M                   | 5880               | 1                 |              | 197             | 0                        | 5/1/51             | 5/1/51           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373637114071101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373637114071101</a> |
| 204       | U-1493     | 204 S04 E68 08C 1 Caliente Public Utilities  | 37.61024718 | -114.11581373 | M                   | 4658               | 20                |              | 185             | 0                        | 11/29/52           | 11/29/52         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373639114241201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373639114241201</a> |
| 204       | U-1495     | 204 S04 E67 08CBBB1 City of Caliente Well 8  | 37.61079857 | -114.40415543 | T                   | 4390               | 20                |              | 195             | 1                        | 3/5/66             | 3/5/66           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373649114305701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373649114305701</a> |
| 204       | U-1496     | 204 S04 E67 07DAAA1 City of Caliente Well 10 | 37.61357585 | -114.51666024 | F                   | 4390               | 10                |              | 165             | 0                        | 3/18/70            | 4/4/90           | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373649114310201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373649114310201</a> |
| 204       | U-1497     | 204 S04 E67 07DAAA2 City of Caliente Well 9  | 37.61357585 | -114.51804918 | F                   | 4390               | 20                |              | 160             | 1                        | 3/18/70            | 3/18/70          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373650114310001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373650114310001</a> |
| 204       | U-1499     | 204 S04 E67 09BDBD1                          | 37.61635373 | -114.49304813 | F                   | 4421               | 2                 |              | 52              | 0                        | 9/14/70            | 3/14/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373659114293201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373659114293201</a> |
| 204       | U-1500     | 204 S04 E67 09AD 1                           | 37.61774266 | -114.48304771 | T                   | 4445               | 10                |              | 110             | 0                        | 3/7/68             | 4/3/90           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373704114285601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373704114285601</a> |
| 204       | U-1501     | 204 S04 E67 09BC 1                           | 37.6177426  | -114.49693719 | F                   | 4420               | 10                |              | 52              | 0                        | 9/14/70            | 4/3/90           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373704114294601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373704114294601</a> |
| 204       | U-1503     | 204 S04 E67 05C 1 Caliente Public Utilities  | 37.62607582 | -114.52443836 | M                   | 4410               | 1                 |              | 130             | 0                        | 4/1/46             | 4/1/46           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373727114300201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373727114300201</a> |
| 204       | U-1504     | 204 S03 E71 31CBBA1 USBLM                    | 37.64274677 | -114.09748021 | F                   | 5948               | 2                 |              | 262             | 0                        | 3/12/85            | 3/12/85          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373834114054801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373834114054801</a> |
| 204       | U-1910     | 204 S04 E67 08 2                             | 37.61579809 | -114.51416014 | U                   | 4397               | 0                 |              | 0               | 1                        |                    |                  | 0                       |   |
| 204       | U-2078     | 204 S04 E67 08ACBC1 City of Caliente Well 1  | 37.61635367 | -114.50777098 | F                   | 4410               | 20                |              | 0               | 1                        |                    |                  | 0                       |   |
| 204       | U-2079     | 204 S04 E67 08ACBA1 City of Caliente Well 2  | 37.61690923 | -114.50665982 | F                   | 4410               | 20                |              | 0               | 1                        |                    |                  | 0                       |   |
| 204       | U-1498     | 205 S04 E67 08B 1 Caliente Public Utilities  | 37.61385363 | -114.51749361 | F                   | 4390               | 1                 |              | 185             | 0                        | 11/1/52            | 11/1/52          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373656114300501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373656114300501</a> |

**USGS Data- Wells (CRC Basins)**

| Basin No. | Project ID | Site_Name                                     | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 207       | U-644      | 207 N05 E54 14DD 1                            | 38.28937809 | -117.05285575 | T                   | 4815               | 5                 |              | 200             | 0                        | 10/8/82            | 1/5/94           | 9                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381745115514201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381745115514201</a> |
| 207       | U-655      | 207 N05 E60 03ABBA1 USGS-MX                   | 38.32632289 | -117.00896561 | F                   | 5165               | 5                 |              | 202             | 0                        | 11/1/80            | 9/21/94          | 7                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381941115131801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381941115131801</a> |
| 207       | U-657      | 207 N06 E62 31ADD 1                           | 38.33298872 | -115.88337398 | T                   | 5450               | 20                |              | 300             | 0                        | 3/13/85            | 3/9/90           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382005115023701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382005115023701</a> |
| 207       | U-664      | 207 N06 E61 27AAD1 USGS-MX                    | 38.3524331  | -116.3311663  | T                   | 5210               | 5                 |              | 96              | 0                        | 9/1/80             | 9/21/94          | 11                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382111115055901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382111115055901</a> |
| 207       | U-669      | 207 N06 E60 19CA 1 USGS-MX                    | 38.36326645 | -115.87087371 | T                   | 5360               | 10                |              | 200             | 0                        | 12/1/80            | 12/1/80          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382151115164501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382151115164501</a> |
| 207       | U-671      | 207 N06 E60 22BBBC1 USBLM                     | 38.37072408 | -116.22690546 | 5                   | 5200               | 100               |              | 100             | 0                        | 3/12/85            | 3/9/90           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382211115133801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382211115133801</a> |
| 207       | U-695      | 207 N07 E60 30AACD1 USBLM                     | 38.68911083 | -115.10584982 | M                   | 5580               | 5                 |              | 433             | 0                        | 3/9/90             | 3/9/90           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382627115160201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382627115160201</a> |
| 207       | U-698      | 207 N07 E61 19BDDC1 USGS-MX                   | 38.70411069 | -115.10001641 | M                   | 5245               | 5                 |              | 101             | 0                        | 11/1/80            | 9/4/91           | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382718115094901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382718115094901</a> |
| 207       | U-1299     | 207 N04 E61 16D 1                             | 38.20384243 | -115.12751774 | M                   | 4400               | 1                 |              | 0               | 0                        | 5/10/63            | 5/10/63          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373614115083701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373614115083701</a> |
| 207       | U-1424     | 207 N04 E60 13AD 1 USGS-MX                    | 38.20939713 | -115.18307555 | M                   | 5210               | 100               |              | 165             | 0                        | 3/1/81             | 3/1/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381234115105601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381234115105601</a> |
| 207       | u-1849     | 207 N06 E61 09CCBB1 Hot Creek Campground Well | 38.38828281 | -115.13362787 | U                   | 0                  | 0                 |              | 0               | 1                        |                    |                  | 0                       |   |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                 | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---------------------------|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 208       | U-1333     | 208 N03 E62 35B 2 USBLM   | 38.07967911 | -114.99279054 | M                   | 6000               | 1                 |              | 0               | 0                        | 5/8/63             | 5/8/63           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373924115003101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373924115003101</a> |
| 208       | U-1349     | 208 N03 E62 08C 1 USBLM   | 38.13023344 | -115.04362589 | M                   | 5000               | 1                 |              | 0               | 0                        | 5/1/63             | 5/1/63           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374218115031501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374218115031501</a> |
| 208       | U-1358     | 208 S02 E61 23D 2         | 37.75690308 | -115.10585287 | M                   | 4255               | 1                 |              | 480             | 0                        | 3/10/85            | 9/9/92           | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374525115061801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374525115061801</a> |
| 208       | U-1390     | 208 N03 E62 35B 1 USBLM   | 38.0805124  | -114.99584619 | S                   | 4870               | 0                 |              | 270             | 0                        | 5/8/63             | 9/21/94          | 17                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380450114594201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380450114594201</a> |
| 208       | U-1392     | 208 N03 E62 35BBB 1 USBLM | 38.08467904 | -114.99390166 | F                   | 4957               | 1                 |              | 315             | 0                        | 5/8/63             | 3/10/85          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380505114593501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380505114593501</a> |
| 208       | U-1399     | 208 N03 E62 17B 1 USBLM   | 38.12662237 | -115.04390371 | M                   | 5036               | 1                 |              | 205             | 0                        | 5/1/63             | 3/10/85          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380736115023501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380736115023501</a> |



USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                      | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 228       | U-218      | 228 S12 E47 18AAC 1 BGC-2 Well                 | 36.89855692 | -116.75478184 | S                   | 3261               | 20                | 110VFL       | 40              | 0                        | 9/15/99            | 9/25/00          | 13                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365355116451401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365355116451401</a> |
| 228       | U-219      | 228 S12 E47 18AAB 1 Beatty GID BGC-1 Well      | 36.89939022 | -116.75644855 | S                   | 3270               | 20                | 100VFL       | 0               | 0                        | 5/26/99            | 5/26/99          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365358116452001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365358116452001</a> |
| 228       | U-220      | 228 S12 E47 07DBA 1 Beatty Wtr & Swr - Well 2  | 36.90633449 | -116.75867094 | M                   | 3300               | 20                |              | 195             | 0                        | 9/10/63            | 9/10/63          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365409116452301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365409116452301</a> |
| 228       | U-221      | 228 S12 E47 07DBD 1 Beatty Wtr & Swr - Well 3  | 36.90494564 | -116.75783757 | S                   | 3290               | 20                | 111ALVF      | 300             | 0                        | 8/30/65            | 8/30/65          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365420116453001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365420116453001</a> |
| 228       | U-222      | 228 S12 E47 07ACD 1 Central Beatty Well        | 36.90855668 | -116.75783764 | S                   | 3300               | 20                |              | 24              | 0                        | 2/26/97            | 5/7/98           | 15                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365431116452501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365431116452501</a> |
| 228       | U-224      | 228 S12 E47 06DC 1 Beatty Wtr & Swr Tst Hole   | 36.91577787 | -116.76144895 | M                   | 3365               | 20                | 100VFL       | 175             | 0                        | 6/12/63            | 6/12/63          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365457116515801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365457116515801</a> |
| 228       | U-227      | 228 S12 E47 06DCC 1 Beatty Wtr & Swr - Well 1  | 36.91550094 | -116.76089338 | S                   | 3365               | 20                |              | 200             | 0                        | 10/26/62           | 10/26/62         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365524116444001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365524116444001</a> |
| 228       | U-228      | 228 S12 E46 02BDAC1 Beatty Wtr&Swr Summit Well | 36.92438916 | -116.79978296 | F                   | 3882               | 20                |              | 700             | 0                        | 1/15/89            | 2/20/00          | 52                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365527116475301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365527116475301</a> |
| 228       | U-231      | 228 S11 E47 33DAC 1 Perlite Canyon Ranch Well  | 36.93439002 | -116.72005966 | S                   | 3510               | 20                |              | 175             | 0                        | 4/12/88            | 3/21/97          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365604116430901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365604116430901</a> |
| 228       | U-232      | 228 S11 E46 34ACAD1 Beatty Wtr & Swr Mdl Well  | 36.93966642 | -116.81339454 | S                   | 4110               | 20                |              | 700             | 0                        | 6/23/93            | 12/18/98         | 45                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365619116483901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365619116483901</a> |
| 228       | U-236      | 228 S11 E47 28DCC 1 Beatty Wash Terrace Well   | 36.94438979 | -116.72172656 | S                   | 3460               | 20                |              | 39              | 0                        | 10/13/84           | 9/22/04          | 61                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365640116431501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365640116431501</a> |
| 228       | U-237      | 228 S11 E46 26DCC 2 Lower Indian Springs Well  | 36.94494429 | -116.79672777 | S                   | 4020               | 20                |              | 0               | 0                        | 7/16/96            | 6/26/01          | 42                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365642116474501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365642116474501</a> |
| 228       | U-238      | 228 S11 E47 27BCDD1 ER-OV-04a                  | 36.95133423 | -116.71255983 | S                   | 3491.36            | 1                 | 100VFL       | 151             | 0                        | 10/27/97           | 9/21/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365705116424201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365705116424201</a> |
| 228       | U-239      | 228 S11 E46 26BCDC1 Beatty Wtr&Swr Upr Indian  | 36.95161071 | -116.80422799 | S                   | 4240               | 20                |              | 693             | 0                        | 8/22/88            | 12/20/99         | 53                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365709116481101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365709116481101</a> |
| 228       | U-240      | 228 S11 E47 27BCB 1 Ute Springs Drainage Well  | 36.95355636 | -116.71561549 | S                   | 3500               | 20                |              | 10.5            | 0                        | 5/22/97            | 6/26/01          | 43                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365713116425301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365713116425301</a> |
| 228       | U-243      | 228 S11 E49 14 1 ER-EC-7                       | 36.98490107 | -116.47857681 | H                   | 4805               | 1                 | 120VLCC      | 1304            | 0                        | 10/13/99           | 9/21/04          | 19                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365910116284401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365910116284401</a> |
| 228       | U-244      | 228 S11 E47 09CBD 1 Pioneer Road Seep Well     | 36.99133313 | -116.73061657 | S                   | 3650               | 20                |              | 6.7             | 0                        | 5/22/97            | 6/26/01          | 43                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365929116434701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365929116434701</a> |
| 228       | U-245      | 228 S11 E47 09DBD 1 Boiling Pot Rd Well        | 36.99272213 | -116.72200529 | S                   | 3620               | 20                |              | 12.2            | 0                        | 5/8/97             | 6/26/01          | 42                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365934116431601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365934116431601</a> |
| 228       | U-246      | 228 S11 E48 10CABB1 ER-OV-03c                  | 36.99661285 | -116.60200251 | S                   | 4191.5             | 1                 | 120VLCC      | 542             | 0                        | 10/27/97           | 9/21/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365948116360401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365948116360401</a> |
| 228       | U-247      | 228 S11 E48 10CABB2 ER-OV-03c2                 | 36.99661285 | -116.60200251 | S                   | 4191.91            | 1                 | 120VLCC      | 321             | 0                        | 10/27/97           | 9/21/04          | 35                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365948116360402">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365948116360402</a> |
| 228       | U-248      | 228 S11 E47 10ACAB1 ER-OV-03a                  | 36.99883338 | -116.70533834 | S                   | 3844.36            | 1                 | 120VLCC      | 251             | 0                        | 10/27/97           | 9/21/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421601</a> |
| 228       | U-249      | 228 S11 E47 10ACAB2 ER-OV-03a2                 | 36.99883338 | -116.70533834 | S                   | 3843.78            | 1                 | 120VLCC      | 642             | 0                        | 10/27/97           | 9/21/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421602">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421602</a> |
| 228       | U-250      | 228 S11 E47 10ACAB3 ER-OV-03a3                 | 36.99883338 | -116.70533834 | S                   | 3843.78            | 1                 | 120VLCC      | 133             | 0                        | 10/27/97           | 9/21/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421603">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421603</a> |
| 228       | U-251      | 228 S11 E48 01 2 Beatty Wash Windmill Well     | 37.00383565 | -116.55783491 | T                   | 4400               | 10                |              | 480             | 0                        | 7/30/70            | 7/30/70          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370014116332501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370014116332501</a> |
| 228       | U-252      | 228 S11 E47 04ACC 1 OVM ET Well                | 37.01077721 | -116.72422794 | S                   | 3688               | 10                |              | 13.2            | 0                        | 5/8/97             | 6/26/01          | 46                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370039116432401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370039116432401</a> |
| 228       | U-254      | 228 S10 E47 33CCA 1 Springdale ET Deep Well    | 37.02022129 | -116.73117276 | S                   | 3712               | 10                | 111ALVM      | 9               | 0                        | 6/20/96            | 6/26/01          | 60                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370113116434901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370113116434901</a> |
| 228       | U-255      | 228 S10 E47 33CCA 2 Springdale ET Shallow Well | 37.02022129 | -116.73117276 | S                   | 3712               | 10                | 110UCDD      | 5.6             | 0                        | 8/14/96            | 6/26/01          | 57                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370113116434902">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370113116434902</a> |

USGS Data-Trans (CRC Basins)

| Basin No. | Project ID | Site_Name                                    | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 228       | U-256      | 228 S10 E47 33CCB 1 Springdale Lower Well    | 37.02022127 | -116.73228389 | S                   | 3710               | 20                | 111ALVM      | 11.3            | 0                        | 6/20/96            | 6/26/01          | 58                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370113116435301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370113116435301</a> |
| 228       | U-257      | 228 S10 E47 32ADC 1 Springdale Upper Well    | 37.02522107 | -116.73645077 | U                   | 3775               | 10                |              | 91              | 0                        | 6/6/96             | 9/29/04          | 72                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370131116440801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370131116440801</a> |
| 228       | U-258      | 228 S10 E48 31ACBC1 ER-OV-03b                | 37.02744469 | -116.6522821  | S                   | 4232.67            | 1                 | 100VFLF      | 395             | 0                        | 10/27/97           | 9/21/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370139116390501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370139116390501</a> |
| 228       | U-261      | 228 S10 E47 27DBCD1 ER-OV-02                 | 37.03605466 | -116.70506135 | S                   | 3880.33            | 1                 | 100VFLF      | 200             | 0                        | 10/27/97           | 9/21/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370210116421501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370210116421501</a> |
| 228       | U-262      | 228 S10 E47 30DCC 1 Springdale Windmill Well | 37.0324427  | -116.75950693 | S                   | 3870               | 10                |              | 18              | 0                        | 4/1/41             | 9/25/00          | 45                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370218116455201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370218116455201</a> |
| 228       | U-263      | 228 S10 E47 27BAA 1 OVU-Lower ET Well        | 37.04494326 | -116.70895052 | S                   | 3861               | 10                | 110VFLF      | 10.9            | 0                        | 8/3/98             | 6/26/01          | 31                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370242116422901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370242116422901</a> |
| 228       | U-265      | 228 S10 E46 24DDDC1 ER-OV-05                 | 37.04605321 | -116.77284071 | S                   | 3937.83            | 1                 | 100VFLF      | 200             | 1                        | 10/24/97           | 9/21/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370246116461901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370246116461901</a> |
| 228       | U-266      | 228 S10 E47 22CCD 1 OVU-Middle ET Well       | 37.04688759 | -116.71228398 | S                   | 3856               | 10                | 110VFLF      | 11.1            | 0                        | 1/7/99             | 6/26/01          | 26                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370249116424101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370249116424101</a> |
| 228       | U-274      | 228 S10 E47 22DBD 1 OVU-Dune Well            | 37.05022099 | -116.70395051 | S                   | 3883               | 10                | 111DUNE      | 16.9            | 0                        | 4/13/98            | 6/26/01          | 37                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370301116421101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370301116421101</a> |
| 228       | U-279      | 228 S10 E48 12 1 ER-EC-5                     | 37.08449512 | -116.5654533  | H                   | 5077               | 1                 | 120VLCC      | 2447            | 0                        | 10/13/99           | 9/21/04          | 19                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116335201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116335201</a> |
| 228       | U-280      | 228 S10 E47 11ADAD1 ER-OV-01                 | 37.08438724 | -116.68117289 | S                   | 4072.85            | 1                 | 120VLCC      | 180             | 0                        | 10/27/97           | 10/6/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404901</a> |
| 228       | U-281      | 228 S10 E47 11ADAD2 ER-OV-06a                | 37.08438724 | -116.68117289 | S                   | 4073.04            | 1                 | 120VLCC      | 536             | 0                        | 10/27/97           | 10/6/04          | 41                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404902">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404902</a> |
| 228       | U-282      | 228 S10 E47 11ADAD3 ER-OV-06a2               | 37.08438724 | -116.68117289 | S                   | 4072.57            | 1                 | 120VLCC      | 65              | 1                        | 10/27/97           | 10/6/04          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404903">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404903</a> |
| 228       | U-286      | 228 S10 E48 05 1 ER-EC-8                     | 37.1027906  | -116.6321748  | H                   | 4333               | 1                 | 120VLCC      | 1948            | 0                        | 10/13/99           | 10/6/04          | 20                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370610116375301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370610116375301</a> |
| 228       | U-303      | 228 S09 E48 24 1 ER-EC-2A (1635-4973 ft)     | 37.14493837 | -116.5682712  | H                   | 4902               | 1                 | 120VLCC      | 4961            | 0                        | 6/13/00            | 6/13/00          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370852116340501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370852116340501</a> |
| 228       | U-304      | 228 S09 E48 24 2 ER-EC-2A (1635-2236 ft)     | 37.14493837 | -116.5682712  | H                   | 4902               | 1                 | 120VLCC      | 2450            | 0                        | 12/12/00           | 10/6/04          | 14                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370852116340502">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370852116340502</a> |
| 228       | U-316      | 228 S09 E48 17 1 ER-EC-4 (952-3487 ft)       | 37.15880604 | -116.6319537  | H                   | 4759.65            | 1                 | 120VLCC      | 3445            | 0                        | 10/13/99           | 6/14/00          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370935116375301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370935116375301</a> |
| 228       | U-317      | 228 S09 E48 17 2 ER-EC-4 (952-2295 ft)       | 37.15880604 | -116.6319537  | H                   | 4759.65            | 1                 | 120VLCC      | 2365            | 0                        | 10/5/00            | 10/7/04          | 17                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370935116375302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370935116375302</a> |
| 228       | U-336      | 228 S09 E49 03 1 ER-EC-6 (1581-5000 ft)      | 37.18871709 | -116.49757561 | H                   | 5604               | 1                 | 120VLCC      | 4905            | 0                        | 4/20/99            | 3/13/00          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371120116294801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371120116294801</a> |
| 228       | U-337      | 228 S09 E49 03 2 ER-EC-6 (1581-3820 ft)      | 37.18871709 | -116.49757561 | H                   | 5604               | 1                 | 120VLCC      | 4302            | 0                        | 6/6/00             | 9/7/04           | 19                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371120116294802">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371120116294802</a> |
| 228       | U-352      | 228 S08 E49 32 1 ER-EC-1                     | 37.20625764 | -116.53063246 | H                   | 6026               | 1                 | 120VLCC      | 4791            | 0                        | 5/10/99            | 9/7/04           | 22                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371223116314701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371223116314701</a> |
| 228       | U-358      | 228 S08 E49 26 3 ER-20-5-1 (3-in string)     | 37.2199976  | -116.47806679 | H                   | 6241.8             | 0.1               | 120VLCC      | 2374            | 0                        | 11/17/95           | 11/17/95         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371312116283801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371312116283801</a> |
| 228       | U-360      | 228 S08 E49 26 1 U -20y (2602 ft)            | 37.22073099 | -116.47506942 | H                   | 6256.7             | 0.1               | 120VLCC      | 2602            | 0                        | 12/18/74           | 2/18/75          | 9                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371315116282701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371315116282701</a> |
| 228       | U-362      | 228 S08 E49 22 1 ER-20-1                     | 37.22240002 | -116.49239538 | H                   | 6180.9             | 0.1               | 122TVCN      | 2065            | 0                        | 10/12/94           | 9/8/04           | 42                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371321116292301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371321116292301</a> |
| 228       | U-387      | 228 S08 E48 13 1 PM- 3 (1647 ft)             | 37.23775022 | -116.47363907 | H                   | 5822.8             | 0.1               | 120VLCC      | 1647            | 0                        | 9/9/88             | 9/13/88          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371421116333701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371421116333701</a> |
| 228       | U-388      | 228 S08 E48 13 2 PM- 3 (3019 ft)             | 37.23902013 | -116.5610728  | H                   | 5822.8             | 0.1               | 120VLCC      | 3019            | 2                        | 9/21/88            | 9/30/91          | 21                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371421116333702">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371421116333702</a> |
| 228       | U-389      | 228 S08 E48 13 3 PM- 3-1 (1919 - 2144 ft)    | 37.23902013 | -116.5610728  | H                   | 5822.8             | 0.1               | 120VLCC      | 2145            | 0                        | 4/10/92            | 9/7/04           | 43                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371421116333703">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371421116333703</a> |
| 228       | U-390      | 228 S08 E48 13 4 PM- 3-2 (1442 - 1667 ft)    | 37.23902013 | -116.5610728  | H                   | 5822.8             | 0.1               | 120VLCC      | 1667            | 0                        | 4/10/92            | 9/7/04           | 46                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371421116333704">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371421116333704</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                  | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft- AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|---------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 228       | U-405      | 228 S08 E49 15 1 UE-20d                    | 37.24715393 | -116.99784757 | M                   | 6253                | 1                 | 120VLCC      | 4490            | 0                        | 8/19/64            | 1/14/65          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116284901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116284901</a> |
| 228       | U-406      | 228 S08 E49 15 2 U -20ak                   | 37.24765545 | -116.48106743 | H                   | 6235.2              | 0.1               | 120VLCC      | 2036            | 0                        | 7/11/82            | 11/30/85         | 8                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116292101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116292101</a> |
| 228       | U-407      | 228 S08 E49 15 3 U -20bb (1900 ft)         | 37.24779969 | -116.4899457  | H                   | 6226.3              | 5                 | 120VLCC      | 1900            | 0                        | 7/15/88            | 12/18/89         | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116293901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116293901</a> |
| 228       | U-408      | 228 S08 E49 15 6 U -20bb (2220 ft)         | 37.2478079  | -116.49510431 | H                   | 6226.3              | 0.1               | 120VLCC      | 2220            | 0                        | 2/13/90            | 4/19/90          | 8                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116293902">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116293902</a> |
| 228       | U-409      | 228 S08 E49 15 7 U -20bb 1                 | 37.2478079  | -116.49510431 | H                   | 6226                | 0.1               | 120VLCC      | 2322            | 0                        | 5/15/90            | 7/9/90           | 17                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116293903">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116293903</a> |
| 228       | U-410      | 228 S08 E49 16 1 U -20at 1                 | 37.24762735 | -116.49510153 | H                   | 6240.7              | 0.1               | 120VLCC      | 2197            | 0                        | 12/9/86            | 2/13/87          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116303301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371452116303301</a> |
| 228       | U-435      | 228 S08 E49 10 1 U -20bc                   | 37.25743128 | -117.02757021 | M                   | 6146.2              | 0.1               | 120VLCC      | 2000            | 0                        | 7/7/88             | 8/2/89           | 34                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371547116292601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371547116292601</a> |
| 228       | U-446      | 228 S08 E49 03 1 UE-20f (13686 ft)         | 37.27078893 | -117.09410162 | 5                   | 6116.3              | 0.1               | 120VLCC      | 13686           | 0                        | 1/13/65            | 11/24/74         | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371617116291701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371617116291701</a> |
| 228       | U-447      | 228 S08 E49 03 3 UE-20f (4543 ft)          | 37.27135249 | -116.48882294 | H                   | 6116.3              | 0.1               | 120VLCC      | 4543            | 0                        | 4/7/64             | 11/13/00         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371617116291702">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371617116291702</a> |
| 228       | U-448      | 228 S08 E49 03 2 U -20f                    | 37.27135249 | -116.48882294 | H                   | 6117                | 0.1               | 120VLCC      | 4202            | 0                        | 5/19/65            | 11/13/00         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371617116291801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371617116291801</a> |
| 228       | U-1751     | 228 S11 E48 01 1 Beatty Wash Windmill Well | 37.00383565 | -116.55783491 | T                   | 4400                | 10                |              | 0               | 1                        |                    |                  | 0                       |   |

USGS Data- Wens (CRC Basins)

| Basin No. | Project ID | Site Name                                | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 229       | U-51       | 229 S15 E48 02CC 2 NC-EWDP- 3S           | 36.68156023 | -116.53810538 | H                   | 2619               | 0.5               | 120VLCC      | 550             | 0                        | 3/6/99             | 3/12/99          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364054116321301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364054116321301</a> |
| 229       | U-52       | 229 S15 E48 02CC 3 NC-EWDP- 3S (Zone 3)  | 36.68156023 | -116.53810538 | H                   | 2619               | 0.5               | 120VLCC      | 550             | 0                        | 5/20/99            | 3/11/03          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364054116321302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364054116321302</a> |
| 229       | U-53       | 229 S15 E48 02CC 4 NC-EWDP- 3S (Zone 2)  | 36.68156023 | -116.53810538 | H                   | 2619               | 0.5               | 120VLCC      | 550             | 0                        | 5/20/99            | 3/11/03          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364054116321303">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364054116321303</a> |
| 229       | U-54       | 229 S15 E48 02CC 5 NC-EWDP- 3S (Zone 1)  | 36.68156023 | -116.53810538 | H                   | 2619               | 0.5               | 120VLCC      | 550             | 0                        | 5/21/99            | 5/21/99          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364054116321304">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364054116321304</a> |
| 229       | U-55       | 229 S15 E48 02CC 1 NC-EWDP- 3D           | 36.68155467 | -116.53806927 | H                   | 2619.19            | 0.5               | 120SDMR      | 2500            | 0                        | 3/6/99             | 8/17/03          | 115                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364054116321401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364054116321401</a> |
| 229       | U-58       | 229 S14 E48 36DDD 1 Crater Flat 3        | 36.68495233 | -116.50810793 | S                   | 2725.6             | 0.1               | 100VLFL      | 460             | 2                        | 1/14/94            | 9/24/04          | 132                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364105116302601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364105116302601</a> |
| 229       | U-65       | 229 S14 E48 33AA 1 NC-EWDP- 9SX          | 36.6957126  | -116.56299197 | H                   | 2615.81            | 0.5               | 120VLCC      | 360             | 0                        | 1/14/99            | 1/21/99          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364145116334401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364145116334401</a> |
| 229       | U-66       | 229 S14 E48 33AA 2 NC-EWDP- 9SX (Zone 4) | 36.6957126  | -116.56299197 | H                   | 2615.81            | 0.5               | 120VLCC      | 354             | 0                        | 5/18/99            | 5/15/03          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364145116334402">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364145116334402</a> |
| 229       | U-67       | 229 S14 E48 33AA 3 NC-EWDP- 9SX (Zone 3) | 36.6957126  | -116.56299197 | H                   | 2615.81            | 0.5               | 100VLFL      | 354             | 0                        | 5/18/99            | 5/15/03          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364145116334403">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364145116334403</a> |
| 229       | U-68       | 229 S14 E48 33AA 4 NC-EWDP- 9SX (Zone 2) | 36.6957126  | -116.56299197 | H                   | 2615.81            | 0.5               | 100VLFL      | 354             | 0                        | 5/19/99            | 5/15/03          | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364145116334404">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364145116334404</a> |
| 229       | U-69       | 229 S14 E48 33AA 5 NC-EWDP- 9SX (Zone 1) | 36.6957126  | -116.56299197 | H                   | 2615.81            | 0.5               | 100VLFL      | 354             | 0                        | 5/19/99            | 5/15/03          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364145116334405">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364145116334405</a> |
| 229       | U-78       | 229 S14 E49 29BC 1 NC-EWDP-28P           | 36.70788574 | -116.48871879 | 1                   | 2767.51            | 0.2               |              | 459             | 0                        | 1/30/03            | 8/17/03          | 8                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364229116291601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364229116291601</a> |
| 229       | U-91       | 229 S14 E49 20BB 1 NC-EWDP-16P           | 36.72474676 | -116.48950517 | 1                   | 2889.12            | 0.2               |              | 560             | 0                        | 1/30/03            | 8/17/03          | 8                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364329116291901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364329116291901</a> |
| 229       | U-94       | 229 S14 E48 22 1 NC-EWDP-7S              | 36.72555982 | -116.55700354 | H                   | 2745.67            | 0.5               | 112TUFF      | 45              | 0                        | 2/25/00            | 8/17/03          | 37                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332201</a> |
| 229       | U-95       | 229 S14 E48 22 2 NC-EWDP-7SC             | 36.72550426 | -116.55706465 | H                   | 2747.65            | 0.5               | 100VLFL      | 460             | 0                        | 2/14/01            | 4/2/01           | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332202">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332202</a> |
| 229       | U-96       | 229 S14 E48 22 3 NC-EWDP-7SC (Zone 4)    | 36.72550426 | -116.55706465 | H                   | 2747.65            | 0.5               | 120VLCC      | 458             | 0                        | 3/28/03            | 3/28/03          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332203">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332203</a> |
| 229       | U-97       | 229 S14 E48 22 4 NC-EWDP-7SC (Zone 3)    | 36.72550426 | -116.55706465 | H                   | 2747.65            | 0.5               | 100VLFL      | 458             | 0                        | 9/12/02            | 3/21/03          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332204">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332204</a> |
| 229       | U-98       | 229 S14 E48 22 5 NC-EWDP-7SC (Zone 2)    | 36.72550426 | -116.55706465 | H                   | 2747.65            | 0.5               | 100VLFL      | 458             | 0                        | 9/13/02            | 3/19/03          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332205">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332205</a> |
| 229       | U-99       | 229 S14 E48 22 6 NC-EWDP-7SC (Zone 1)    | 36.72550426 | -116.55706465 | H                   | 2747.65            | 0.5               | 100VLFL      | 458             | 0                        | 9/13/02            | 3/19/03          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332206">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364332116332206</a> |
| 229       | U-104      | 229 S14 E49 18DB 1 NC-EWDP-27P           | 36.73390778 | -116.49762231 | 1                   | 2973.63            | 0.2               |              | 631             | 0                        | 2/6/03             | 8/17/03          | 7                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364402116294801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364402116294801</a> |
| 229       | U-140      | 229 S13 E49 33 1 USW WT-11               | 36.78031848 | -116.46821048 | H                   | 3589.6             | 0.1               | 120VLCC      | 1365            | 0                        | 9/1/83             | 7/28/98          | 96                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364649116280201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364649116280201</a> |
| 229       | U-143      | 229 S13 E48 27C 1 USW VH-1               | 36.79220348 | -116.55271275 | H                   | 3161.1             | 0.1               | 120VLCC      | 2501            | 1                        | 10/28/80           | 9/24/04          | 310                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364732116330701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364732116330701</a> |
| 229       | U-145      | 229 S13 E48 27C 2 USW VH-1               | 36.79220348 | -116.55271275 | H                   | 3161.1             | 0.1               |              | 2501            | 0                        | 3/10/85            | 10/14/99         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364758116331701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364758116331701</a> |
| 229       | U-148      | 229 S13 E49 20 1 USW WT-10               | 36.80699291 | -116.48547814 | H                   | 3685.7             | 0.1               | 120VLCC      | 1321            | 1                        | 8/30/83            | 6/21/99          | 179                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364825116290501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364825116290501</a> |
| 229       | U-152      | 229 S13 E48 21CAA 3 USW VH- 2            | 36.80585844 | -116.57784108 | H                   | 3200.1             | 0.1               |              | 4000            | 0                        | 3/10/85            | 3/10/85          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364837116345201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364837116345201</a> |
| 229       | U-154      | 229 S13 E49 16 4 USW G- 3                | 36.81797897 | -116.46774972 | H                   | 4857.3             | 0.1               | 120VLCC      | 5031            | 0                        | 3/31/83            | 6/27/95          | 57                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364905116280101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364905116280101</a> |
| 229       | U-158      | 229 S13 E49 17 1 USW WT-7                | 36.82566761 | -116.4834199  | H                   | 3926.8             | 0.1               | 120VLCC      | 1579            | 0                        | 8/30/83            | 6/21/99          | 171                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364933116285701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364933116285701</a> |
| 229       | U-162      | 229 S13 E49 16 2 USW H- 3 HTH            | 36.82831214 | -116.46783038 | H                   | 4866.1             | 0.1               | 112TUFF      | 4000            | 0                        | 9/10/82            | 5/18/84          | 7                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364942116280001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364942116280001</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                          | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|------------------------------------|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 229       | U-163      | 229 S13 E49 16 6 USW H- 3 HTH      | 36.82831214 | -116.46783038 | H                   | 4866.1             | 0.1               |              | 4000            | 0                        | 3/14/83            | 11/21/83         | 15                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364942116280002">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364942116280002</a> |
| 229       | U-164      | 229 S13 E49 16 7 USW H- 3 HTH      | 36.82831214 | -116.46783038 | H                   | 4866.1             | 0.1               |              | 4000            | 0                        | 3/14/83            | 11/21/83         | 16                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364942116280003">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364942116280003</a> |
| 229       | U-165      | 229 S13 E49 16 8 USW H- 3 HTH      | 36.82831214 | -116.46783038 | H                   | 4866.1             | 0.1               |              | 4000            | 0                        | 6/5/84             | 6/16/99          | 74                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364942116280004">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364942116280004</a> |
| 229       | U-166      | 229 S13 E49 16 9 USW H- 3 HTH      | 36.82831214 | -116.46783038 | H                   | 4866.1             | 0.1               |              | 4000            | 0                        | 6/5/84             | 6/16/99          | 90                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364942116280005">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364942116280005</a> |
| 229       | U-182      | 229 S12 E49 34 2 USW H- 6 HTH      | 36.84689781 | -116.4827423  | H                   | 4270.7             | 0.1               |              | 4002            | 0                        | 12/15/82           | 10/24/83         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365049116285501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365049116285501</a> |
| 229       | U-183      | 229 S12 E49 34 3 USW H- 6 HTH      | 36.84689781 | -116.4827423  | H                   | 4270.7             | 0.1               |              | 4002            | 0                        | 3/15/83            | 5/6/94           | 36                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365049116285502">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365049116285502</a> |
| 229       | U-184      | 229 S12 E49 34 4 USW H- 6 HTH      | 36.84689781 | -116.4827423  | H                   | 4270.7             | 0.1               |              | 4002            | 0                        | 3/15/83            | 6/29/94          | 43                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365049116285503">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365049116285503</a> |
| 229       | U-185      | 229 S12 E49 34 5 USW H- 6 HTH      | 36.84689781 | -116.4827423  | H                   | 4270.7             | 0.1               |              | 4002            | 0                        | 8/2/84             | 4/6/99           | 37                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365049116285504">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365049116285504</a> |
| 229       | U-186      | 229 S12 E49 34 6 USW H- 6 HTH      | 36.84689781 | -116.4827423  | H                   | 4270.7             | 0.1               |              | 4002            | 0                        | 8/2/84             | 6/21/99          | 39                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365049116285505">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365049116285505</a> |
| 229       | U-196      | 229 S12 E49 35 1 USW H- 5 HTH      | 36.85603114 | -116.46619447 | H                   | 4852               | 0.1               |              | 4000            | 0                        | 11/19/82           | 4/1/99           | 25                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365122116275501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365122116275501</a> |
| 229       | U-197      | 229 S12 E49 35 2 USW H- 5 HTH      | 36.85603114 | -116.46619447 | H                   | 4852               | 0.1               |              | 4000            | 0                        | 3/14/83            | 2/7/95           | 64                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365122116275502">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365122116275502</a> |
| 229       | U-198      | 229 S12 E49 35 3 USW H- 5 HTH      | 36.85603114 | -116.46619447 | H                   | 4852               | 0.1               |              | 4000            | 0                        | 3/14/83            | 6/1/99           | 84                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365122116275503">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365122116275503</a> |
| 229       | U-223      | 229 S12 E48 07ADD 1 Crater Flat 1a | 36.91161381 | -116.64561328 | S                   | 4080.9             | 0.1               | 300CCSM      | 700             | 1                        | 9/18/88            | 9/24/04          | 157                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365445116383901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365445116383901</a> |
| 229       | U-225      | 229 S12 E48 04DB 1 Daisy PW-2      | 36.92078078 | -116.61366833 | S                   | 3920               | 20                |              | 2100            | 0                        | 4/20/97            | 4/20/97          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365515116364601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365515116364601</a> |
| 229       | U-226      | 229 S12 E48 04DBB 1 Crater Flat 1  | 36.92078073 | -116.61644617 | S                   | 3930.9             | 0.1               | 120VLCC      | 1600            | 3                        | 9/1/89             | 9/24/04          | 70                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365520116370301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365520116370301</a> |
| 229       | U-242      | 229 S13 E48 21CAA 2 USW VH- 2      | 36.80585844 | -116.57784108 | H                   | 3199.8             | 0.1               |              | 4000            | 3                        | 4/27/83            | 4/27/83          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365821116343701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365821116343701</a> |
| 229       | U-1635     | 229 S13 E49 16 1 USW H- 3 HTH      | 36.82831214 | -116.46783038 | H                   | 4860               | 10                |              | 0               | 2                        |                    |                  | 0                       |   |
| 229       | U-1636     | 229 S12 E49 34 1 USW H- 6 HTH      | 36.84689781 | -116.4827423  | H                   | 4269               | 10                |              | 0               | 1                        |                    |                  | 0                       |   |
| 229       | U-1661     | 229 S13 E48 27C 3 USW VH- 1        | 36.79220348 | -116.55271275 | H                   | 3161.1             | 0.1               |              | 0               | 3                        |                    |                  | 0                       |   |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name           | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---------------------|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 230       | U-30       | 230 S15 E50 18CDBD1 | 36.64384226 | -116.39671411 | S                   | 2662               | 5                 |              | 507             | 0                        | 3/8/55             | 3/8/55           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363840116233501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363840116233501</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                             | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---------------------------------------|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 173A      | U-551      | 173A S01 E51H19DB 1 Willow Witch Well | 37.82077096 | -116.76867419 | T                   | 5930               | 10                |              | 370             | 0                        | 10/1/59            | 11/13/99         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375017115572201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375017115572201</a> |
| 173A      | U-1364     | 173A S01 E53 28BDA 1 Deep Well        | 37.83271885 | -116.01837576 | M                   | 5205               | 1                 |              | 465             | 0                        | 3/29/72            | 3/29/72          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374946115460101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374946115460101</a> |
| 173A      | U-1370     | 173A N01 E53 32DB 1 NDOT              | 37.90132817 | -116.0355989  | M                   | 5004               | 1                 |              | 292             | 0                        | 5/1/57             | 5/1/57           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375357115465101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375357115465101</a> |
| 173A      | U-1372     | 173A N01 E53 27BBA 1 Last Stand Well  | 37.81077504 | -116.00448637 | M                   | 4788               | 1                 |              | 200             | 0                        | 3/30/72            | 3/30/72          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375520115450301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375520115450301</a> |
| 173A      | U-1374     | 173A N02 E52 24DC 1 USGS-MX           | 38.01743637 | -116.07143401 | M                   | 4880               | 10                |              | 200             | 0                        | 9/1/80             | 3/26/93          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375619116035301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375619116035301</a> |
| 173A      | U-1377     | 173A N01 E53 07ADC 1 New Fred's Well  | 37.89438381 | -116.04837697 | S                   | 4900               | 1                 |              | 136             | 0                        | 2/20/68            | 1/5/94           | 17                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375751116030201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375751116030201</a> |
| 173A      | U-1378     | 173A N01 E53 03DAC 1 East Side Well   | 37.97513222 | -115.99404274 | T                   | 4851               | 20                |              | 120             | 0                        | 3/30/72            | 3/30/72          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375820115442301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375820115442301</a> |
| 173A      | U-1379     | 173A N02 E52 35AC 1 USGS-MX           | 37.98049261 | -116.089212   | M                   | 4970               | 20                |              | 200             | 0                        | 3/1/81             | 3/1/81           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375850116051801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375850116051801</a> |
| 173A      | U-1380     | 173A N02 E53 35AA 1 USGS-MX           | 37.99743754 | -115.97365342 | M                   | 4990               | 100               |              | 200             | 0                        | 9/1/80             | 1/1/81           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375951115582201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375951115582201</a> |
| 173A      | U-1381     | 173A N02 E53 27DA 1 USGS-MX           | 38.00493709 | -115.9922651  | M                   | 4865               | 100               |              | 150             | 0                        | 9/1/80             | 3/15/90          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380018115592901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380018115592901</a> |
| 173A      | U-1382     | 173A N02 E53 23CBC 1 Sunrise Well     | 38.01549247 | -115.99032066 | M                   | 4892               | 1                 |              | 180             | 0                        | 3/29/72            | 3/29/72          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380059115441201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380059115441201</a> |
| 173A      | U-1387     | 173A N02 E53 09BC 1 USGS-MX           | 38.05354702 | -116.02476629 | T                   | 4856               | 80                |              | 200             | 0                        | 9/1/80             | 9/4/91           | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380313116012601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380313116012601</a> |
| 173A      | U-1391     | 173A N03 E53 35BAC 1 Ed's Well        | 38.08382454 | -115.98448749 | M                   | 4942               | 1                 |              | 204             | 0                        | 3/29/72            | 3/29/72          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380453115435601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380453115435601</a> |
| 173A      | U-1393     | 173A N03 E52 36BB 1                   | 38.08632398 | -116.08087922 | T                   | 5110               | 20                |              | 71              | 0                        | 11/9/73            | 11/9/73          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380511116044801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380511116044801</a> |
| 173A      | U-1402     | 173A N03 E53 18BC 1 USGS-MX           | 38.12771218 | -116.06226786 | M                   | 4990               | 10                |              | 200             | 0                        | 3/1/81             | 3/15/90          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380740116034101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380740116034101</a> |
| 173A      | U-1885     | 173A N01 E53 31CD 1                   | 37.90077244 | -116.06504411 | U                   | 0                  | 0                 |              | 0               | 1                        |                    |                  | 0                       |   |
| 173A      | U-1886     | 173A N01 E53 32CAA 1                  | 37.90410585 | -116.0397657  | U                   | 0                  | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |
| 173A      | U-1888     | 173A N01 E53 07AD 1                   | 37.96382656 | -116.05087752 | U                   | 0                  | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |
| 173A      | U-1890     | 173A N03 E53 35B 1                    | 38.08326892 | -115.98976543 | U                   | 0                  | 0                 |              | 0               | 2                        |                    |                  | 0                       |   |

USGS Data- Weirs (CRC Basins)

| Basin No. | Project ID | Site_Name                                   | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 173B      | U-597      | 173B N04 E55 19D 1                          | 38.14937821 | -117.08618876 | F                   | 5000               | 100               |              | 223             | 0                        | 5/16/84            | 5/16/84          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380920116090501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380920116090501</a> |
| 173B      | U-636      | 173B N05 E63 22CC 1 USBLM                   | 38.52938838 | -115.23307504 | M                   | 6220               | 10                |              | 10              | 0                        | 3/21/90            | 3/21/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381624115403001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381624115403001</a> |
| 173B      | U-637      | 173B N05 E54 24DCBA1                        | 38.27326656 | -115.90170764 | M                   | 4825               | 1                 |              | 88              | 0                        | 10/9/71            | 9/21/94          | 12                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381635115355701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381635115355701</a> |
| 173B      | U-638      | 173B N05 E56 21ABCC2 USGS-MX                | 38.27493373 | -115.85031689 | F                   | 4940               | 5                 |              | 200             | 0                        | 9/1/80             | 12/22/93         | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381651115405901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381651115405901</a> |
| 173B      | U-640      | 173B N05 E54 24DC 1                         | 38.28076591 | -116.28644244 | M                   | 4823               | 10                |              | 100             | 0                        | 8/31/51            | 5/15/84          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381656115505701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381656115505701</a> |
| 173B      | U-641      | 173B N05 E55 15CD 1                         | 38.28215592 | -115.85003915 | T                   | 4785               | 1                 |              | 70              | 0                        | 1/1/60             | 1/1/60           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381700115312901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381700115312901</a> |
| 173B      | U-642      | 173B N05 E56 21AB 1 USGS-MX                 | 38.28576771 | -115.77586981 | M                   | 4960               | 20                |              | 200             | 0                        | 9/1/80             | 9/1/80           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381709115404701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381709115404701</a> |
| 173B      | U-646      | 173B N05 E54 14DB 1                         | 38.29632364 | -116.63617315 | T                   | 4813               | 3                 |              | 560             | 0                        | 3/8/90             | 3/8/90           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381805115520101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381805115520101</a> |
| 173B      | U-656      | 173B N06 E54 34DB 1 USBLM - Pigeon Well     | 38.32800487 | -115.22252029 | S                   | 4787               | 0                 |              | 21              | 0                        | 5/15/84            | 3/8/90           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381959115525701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381959115525701</a> |
| 173B      | U-658      | 173B N06 E56 36CA 1 USGS-MX                 | 38.33523014 | -115.04362483 | F                   | 5100               | 20                |              | 150             | 0                        | 9/1/80             | 1/1/81           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382009115374201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382009115374201</a> |
| 173B      | U-661      | 173B N06 E56 27ACB 1                        | 38.33937734 | -116.31005458 | M                   | 4768               | 1                 |              | 98              | 0                        | 10/6/71            | 10/6/71          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382056115244101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382056115244101</a> |
| 173B      | U-665      | 173B N06 E54 26AB 1 USGS Abel Spring South  | 38.3530065  | -115.09973792 | F                   | 4775               | 3                 |              | 22              | 0                        | 7/31/93            | 12/12/95         | 8                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382121115515601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382121115515601</a> |
| 173B      | U-668      | 173B N06 E54 23BD 2 USGS-MX                 | 38.35215549 | -117.13397099 | M                   | 4790               | 3                 |              | 200             | 0                        | 1/1/81             | 9/21/94          | 15                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382144115542601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=382144115542601</a> |
| 173B      | U-1409     | 173B N03 E54 05BC 1                         | 38.15660154 | -115.93281945 | M                   | 5040               | 1                 |              | 325             | 0                        | 11/1/48            | 11/1/48          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380906115410401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380906115410401</a> |
| 173B      | U-1410     | 173B N03 E52 02DADB1 USGS-MX                | 38.15160058 | -116.08560207 | F                   | 5005               | 5                 |              | 452             | 0                        | 8/25/80            | 7/16/91          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380906116050501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380906116050501</a> |
| 173B      | U-1411     | 173B N03 E52 02DA 2 USGS-MX (S. R&R Valley) | 38.15160058 | -116.08560207 | S                   | 5010               | 10                |              | 495             | 0                        | 8/15/80            | 9/14/04          | 51                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380906116050502">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380906116050502</a> |
| 173B      | U-1418     | 173B N04 E55 19DA 1                         | 38.18826885 | -115.82670477 | M                   | 5000               | 1                 |              | 255             | 0                        | 10/9/71            | 10/9/71          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381107115341101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381107115341101</a> |
| 173B      | U-1422     | 173B N04 E54 24ABDC1 USGS-MX                | 38.20243494 | -115.8483722  | F                   | 4950               | 20                |              | 200             | 0                        | 9/1/80             | 3/1/81           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381146115442401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381146115442401</a> |
| 173B      | U-1423     | 173B N04 E54 18DC 1                         | 38.20660038 | -115.9442089  | M                   | 4911               | 1                 |              | 150             | 0                        | 11/28/67           | 11/28/67         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381203115412001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381203115412001</a> |
| 173B      | U-1427     | 173B N05 E55 34CDD 1                        | 38.24243489 | -115.77531402 | M                   | 4820               | 1                 |              | 398             | 0                        | 10/31/71           | 10/31/71         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381417115311801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381417115311801</a> |
| 173B      | U-1428     | 173B N05 E55 35CDD 1                        | 38.23965736 | -115.75864675 | M                   | 4840               | 1                 |              | 320             | 0                        | 3/1/64             | 3/1/64           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381421115301501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381421115301501</a> |
| 173B      | U-1429     | 173B N05 E55 33DDD 1                        | 38.24299031 | -115.78559217 | M                   | 4820               | 1                 |              | 396             | 0                        | 8/1/65             | 8/1/65           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381421115315501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381421115315501</a> |
| 173B      | U-1430     | 173B N05 E55 34DDD 1                        | 38.24132392 | -115.76503587 | M                   | 4820               | 1                 |              | 395             | 0                        | 10/1/65            | 10/1/65          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381423115292201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381423115292201</a> |
| 173B      | U-1431     | 173B N05 E55 36DAD 1                        | 38.24549137 | -115.73309031 | M                   | 4900               | 1                 |              | 105             | 0                        | 6/1/51             | 6/1/51           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381430115283901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381430115283901</a> |



**USGS Data- Wells (CRC Basins)**

| Basin No. | Project ID | Site_Name            | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|----------------------|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 173B      | U-1433     | 173B N05 E55 35DCCC1 | 38.24104624 | -115.75670223 | M                   | 4860               | 5                 |              | 320             | 0                        | 3/22/64            | 3/15/90          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381439116144401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381439116144401</a> |
| 173B      | U-1435     | 173B N05 E55 35BDD 1 | 38.24993491 | -115.75781336 | M                   | 4815               | 1                 |              | 320             | 0                        | 10/1/55            | 10/1/55          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381444115301201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381444115301201</a> |
| 173B      | U-1436     | 173B N05 E55 34DCCC1 | 38.24937917 | -115.77559179 | F                   | 4850               | 5                 |              | 0               | 0                        | 3/15/90            | 3/15/90          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381458115462901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381458115462901</a> |
| 173B      | U-1437     | 173B N05 E55 32AB 1  | 38.25132279 | -115.84670551 | T                   | 4808               | 0                 |              | 0               | 0                        | 5/16/84            | 5/16/84          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381505115504501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381505115504501</a> |
| 173B      | U-1438     | 173B N05 E55 33BB 1  | 38.25243395 | -115.84198312 | T                   | 4804               | 10                |              | 249             | 0                        | 4/29/65            | 5/16/84          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381509115502801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381509115502801</a> |

USGS Data-Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                       | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 227A      | U-28       | 227A S15 E50 18CCAC2                            | 36.6449534  | -116.398936   | S                   | 2662               | 5                 |              | 535             | 0                        | 1/3/64             | 9/12/90          | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363836116234001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363836116234001</a> |
| 227A      | U-31       | 227A S15 E50 18CC 1                             | 36.64439782 | -116.39532517 | M                   | 2660               | 20                |              | 395             | 0                        | 5/3/52             | 5/3/52           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363840116234001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363840116234001</a> |
| 227A      | U-32       | 227A S15 E50 18CDC 1                            | 36.6443978  | -116.39810306 | F                   | 2670               | 30                | 111ALVF      | 505             | 0                        | 2/28/55            | 2/28/55          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363840116235000">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363840116235000</a> |
| 227A      | U-33       | 227A S15 E50 18BBCD1                            | 36.65189774 | -116.40004768 | S                   | 2690               | 10                |              | 471             | 0                        | 5/20/61            | 5/20/61          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363907116235701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363907116235701</a> |
| 227A      | U-34       | 227A S15 E49 12 2 NC-EWDP- 4PB                  | 36.65683657 | -116.40474794 | H                   | 2700.62            | 0.5               | 100VFLF      | 849             | 0                        | 2/11/00            | 8/17/03          | 44                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363925116241401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363925116241401</a> |
| 227A      | U-35       | 227A S15 E49 12 1 NC-EWDP- 4PA                  | 36.65682268 | -116.40513407 | H                   | 2700.2             | 0.5               | 100VFLF      | 496             | 0                        | 2/11/00            | 8/17/03          | 38                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363925116241501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363925116241501</a> |
| 227A      | U-36       | 227A S15 E49 09 2 NC-EWDP- 2DB                  | 36.66093056 | -116.46604497 | H                   | 2628.9             | 0.5               | 300CRBN      | 2685            | 0                        | 12/27/00           | 1/29/02          | 17                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363940116275501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363940116275501</a> |
| 227A      | U-37       | 227A S15 E49 11ACD 1 NC-EWDP-Washburn-1X (brhl) | 36.66410306 | -116.42412106 | H                   | 2701.35            | 0.5               | 100VFLF      | 658             | 0                        | 12/5/98            | 12/5/98          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363951116252401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363951116252401</a> |
| 227A      | U-38       | 227A S15 E49 11ACD 2 NC-EWDP-Washburn-1X (deep) | 36.66410306 | -116.42412106 | H                   | 2701.35            | 0.5               | 100VFLF      | 510             | 0                        | 1/16/99            | 8/17/03          | 91                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363951116252402">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363951116252402</a> |
| 227A      | U-39       | 227A S15 E49 11ACD 3 NC-EWDP-Washburn-1X (shlw) | 36.66410306 | -116.42412106 | H                   | 2701.35            | 0.5               | 100VFLF      | 353             | 0                        | 1/16/99            | 4/27/00          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363951116252403">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=363951116252403</a> |
| 227A      | U-40       | 227A S15 E50 08 2 NC-EWDP- 5SB                  | 36.66975057 | -116.37694418 | H                   | 2752.82            | 0.5               | 100VFLF      | 499             | 0                        | 2/11/00            | 8/17/03          | 65                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364011116223401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364011116223401</a> |
| 227A      | U-41       | 227A S15 E49 07 1 NC-EWDP-15P                   | 36.66979419 | -116.49813253 | H                   | 2580.31            | 0.5               | 100VFLF      | 270             | 0                        | 3/21/00            | 8/17/03          | 38                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364011116295001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364011116295001</a> |
| 227A      | U-42       | 227A S15 E50 08BA 1 NC-EWDP- 5S                 | 36.66987002 | -116.37696363 | H                   | 2753.35            | 0.5               | 100VFLF      | 790             | 0                        | 3/4/99             | 4/28/99          | 38                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364012116223401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364012116223401</a> |
| 227A      | U-43       | 227A S15 E49 03 2 NC-EWDP-19D                   | 36.67054452 | -116.44900273 | H                   | 2686.65            | 0.5               | 100VFLF      | 1422            | 0                        | 5/5/00             | 1/29/03          | 11                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364014116265301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364014116265301</a> |
| 227A      | U-44       | 227A S15 E49 03CD 2 NC-EWDP-19IM2               | 36.67072508 | -116.44877773 | 5                   | 2688.39            | 5                 | 100VFLF      | 950             | 0                        | 1/29/03            | 8/17/03          | 8                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265201</a> |
| 227A      | U-45       | 227A S15 E49 03 1 NC-EWDP-19P                   | 36.67074174 | -116.44886662 | H                   | 2687.5             | 0.5               | 100VFLF      | 469             | 0                        | 3/21/00            | 8/17/03          | 32                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265301</a> |
| 227A      | U-46       | 227A S15 E49 03CD 1 NC-EWDP-19IM1 (Zone 5)      | 36.67072508 | -116.44899996 | 5                   | 2687.61            | 5                 | 120VLCC      | 938             | 0                        | 11/14/01           | 7/9/03           | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265302</a> |
| 227A      | U-47       | 227A S15 E49 03CD 3 NC-EWDP-19IM1 (Zone 4)      | 36.67072508 | -116.44899996 | 5                   | 2687.61            | 5                 | 100VFLF      | 938             | 0                        | 11/14/01           | 7/9/03           | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265303">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265303</a> |
| 227A      | U-48       | 227A S15 E49 03CD 4 NC-EWDP-19IM1 (Zone 3)      | 36.67072508 | -116.44899996 | 5                   | 2687.61            | 5                 | 100VFLF      | 938             | 0                        | 11/14/01           | 7/10/03          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265304">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265304</a> |
| 227A      | U-49       | 227A S15 E49 03CD 5 NC-EWDP-19IM1 (Zone 2)      | 36.67072508 | -116.44899996 | 5                   | 2687.61            | 5                 | 100VFLF      | 938             | 0                        | 11/14/01           | 7/10/03          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265305">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265305</a> |
| 227A      | U-50       | 227A S15 E49 03CD 6 NC-EWDP-19IM1 (Zone 1)      | 36.67072508 | -116.44899996 | 5                   | 2687.61            | 5                 | 100VFLF      | 938             | 0                        | 11/14/01           | 7/10/03          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265306">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364015116265306</a> |
| 227A      | U-56       | 227A S15 E50 06BA 1 NC-EWDP-23P (deep)          | 36.68476146 | -116.39733689 | 5                   | 2800.45            | 5                 | 100VFLF      | 700             | 0                        | 4/23/02            | 8/18/03          | 21                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364105116234701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364105116234701</a> |
| 227A      | U-57       | 227A S15 E50 06BA 2 NC-EWDP-23P (shallow)       | 36.68476146 | -116.39733689 | 5                   | 2800.45            | 5                 | 100VFLF      | 530             | 0                        | 4/23/02            | 8/18/03          | 18                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364105116234702">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364105116234702</a> |
| 227A      | U-70       | 227A S14 E49 25CB 5 NC-EWDP-22S (Zone 4)        | 36.70420287 | -116.41851025 | 5                   | 2849.24            | 5                 | 120VLCC      | 1185            | 0                        | 7/25/02            | 6/17/03          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364215116250301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364215116250301</a> |
| 227A      | U-71       | 227A S14 E49 25CB 6 NC-EWDP-22S (Zone 3)        | 36.70420287 | -116.41851025 | 5                   | 2849.24            | 5                 | 100VFLF      | 1185            | 0                        | 7/25/02            | 6/17/03          | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364215116250302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364215116250302</a> |
| 227A      | U-72       | 227A S14 E49 25CB 7 NC-EWDP-22S (Zone 2)        | 36.70420287 | -116.41851025 | 5                   | 2849.24            | 5                 | 100VFLF      | 1185            | 0                        | 7/25/02            | 8/7/03           | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364215116250303">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364215116250303</a> |
| 227A      | U-73       | 227A S14 E49 25CB 8 NC-EWDP-22S (Zone 1)        | 36.70420287 | -116.41851025 | 5                   | 2849.24            | 5                 | 100VFLF      | 1185            | 0                        | 7/25/02            | 7/31/03          | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364215116250304">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364215116250304</a> |
| 227A      | U-74       | 227A S14 E49 25CB 2 NC-EWDP-22PA (deep)         | 36.70436398 | -116.41849359 | 5                   | 2850.15            | 5                 | 100VFLF      | 770             | 0                        | 2/11/02            | 7/31/03          | 22                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364216116250301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364216116250301</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                                    | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft- AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|-------------|---------------|---------------------|---------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 227A      | U-75       | 227A S14 E49 25CB 1 NC-EWDP-22PA (shallow)   | 36.70436398 | -116.41849359 | 5                   | 2850.15             | 5                 | 100VFL       | 600             | 0                        | 2/11/02            | 7/31/03          | 22                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364216116250302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364216116250302</a> |
| 227A      | U-76       | 227A S14 E49 25CB 3 NC-EWDP-22PB (deep)      | 36.70435009 | -116.41829636 | 5                   | 2850.15             | 5                 | 100VFL       | 1190            | 0                        | 3/29/02            | 7/31/03          | 20                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364216116250303">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364216116250303</a> |
| 227A      | U-77       | 227A S14 E49 25CB 4 NC-EWDP-22PB (shallow)   | 36.70435009 | -116.41829636 | 5                   | 2850.15             | 5                 | 100VFL       | 990             | 0                        | 3/29/02            | 7/31/03          | 16                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364216116250304">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364216116250304</a> |
| 227A      | U-100      | 227A S14 E49 13DD 2 NC-EWDP-10P (deep)       | 36.73024169 | -116.40565728 | 5                   | 2964.93             | 5                 | 120VLCC      | 880             | 0                        | 1/28/02            | 8/18/03          | 26                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364349116241701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364349116241701</a> |
| 227A      | U-101      | 227A S14 E49 13DD 3 NC-EWDP-10P (shallow)    | 36.73024169 | -116.40565728 | 5                   | 2964.93             | 5                 | 100VFL       | 723             | 0                        | 1/28/02            | 8/18/03          | 24                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364349116241702">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364349116241702</a> |
| 227A      | U-102      | 227A S14 E49 13DD 1 NC-EWDP-10S (Zone 2)     | 36.73009447 | -116.40575728 | 5                   | 2963.5              | 5                 | 120VLCC      | 870             | 0                        | 7/24/02            | 6/10/03          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364349116241801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364349116241801</a> |
| 227A      | U-103      | 227A S14 E49 13DD 4 NC-EWDP-10S (Zone 1)     | 36.73009447 | -116.40575728 | 5                   | 2963.5              | 5                 | 100VFL       | 870             | 0                        | 7/24/02            | 6/10/03          | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364349116241802">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364349116241802</a> |
| 227A      | U-107      | 227A S14 E50 06A 3 J -12 WW                  | 36.76488589 | -116.39097095 | H                   | 3128.4              | 0.1               |              | 887             | 0                        | 10/31/57           | 10/31/57         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364457116231201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364457116231201</a> |
| 227A      | U-108      | 227A S14 E49 10DB 1 NC-EWDP-18P              | 36.75133298 | -116.44731765 | 5                   | 3164.86             | 5                 | 120VLCC      | 885             | 0                        | 11/9/01            | 8/18/03          | 22                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364505116264701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364505116264701</a> |
| 227A      | U-110      | 227A S14 E50 06D 1 JF- 3 Well                | 36.75773044 | -116.39032641 | S                   | 3098.3              | 0.1               | 120VLCC      | 1138            | 3                        | 1/16/92            | 9/27/04          | 306                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364528116232201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364528116232201</a> |
| 227A      | U-115      | 227A S14 E50 06A 1 J -12 WW                  | 36.76488589 | -116.39097095 | H                   | 3128.4              | 0.1               | 120VLCC      | 889             | 1                        | 10/31/57           | 7/25/68          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364554116232400">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364554116232400</a> |
| 227A      | U-116      | 227A S14 E50 06A 2 J -12 WW                  | 36.76488589 | -116.39097095 | H                   | 3128.4              | 0.1               | 120VLCC      | 1139            | 10                       | 8/24/68            | 9/27/04          | 253                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364554116232401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364554116232401</a> |
| 227A      | U-139      | 227A S13 E51 31B 2 J -11 WW                  | 36.78508911 | -116.28587781 | H                   | 3442.8              | 0.1               |              | 1329            | 0                        | 9/13/57            | 9/13/57          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364622116164301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364622116164301</a> |
| 227A      | U-141      | 227A S13 E49 34 1 UE-25 WT 12                | 36.78206866 | -116.43872036 | H                   | 3525.9              | 0.1               | 122TPPS      | 1264            | 8                        | 9/1/83             | 6/17/99          | 164                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364656116261601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364656116261601</a> |
| 227A      | U-142      | 227A S13 E51 31B 1 J -11 WW                  | 36.78508911 | -116.28587781 | H                   | 3442.8              | 0.1               | 120VLCC      | 1327            | 0                        | 3/15/61            | 9/27/04          | 208                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364706116170601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364706116170601</a> |
| 227A      | U-144      | 227A S13 E49 25 2 UE-25 WT 3                 | 36.79924355 | -116.41690016 | H                   | 3379.3              | 0.1               | 120VLCC      | 1125            | 1                        | 6/7/83             | 6/23/99          | 98                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364757116245801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364757116245801</a> |
| 227A      | U-147      | 227A S13 E49 22 1 UE-25 WT 17                | 36.80595437 | -116.44137904 | H                   | 3687.7              | 0.1               | 120VLCC      | 1376            | 1                        | 10/31/83           | 6/23/99          | 155                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364822116262601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364822116262601</a> |
| 227A      | U-149      | 227A S13 E50 19C 2 J -13 WW                  | 36.80802691 | -116.39546322 | H                   | 3317.9              | 0.1               | 120VLCC      | 3488            | 0                        | 12/30/62           | 1/1/63           | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364828116234000">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364828116234000</a> |
| 227A      | U-150      | 227A S13 E50 19C 1 J -13 WW                  | 36.80802691 | -116.39546322 | H                   | 3317.9              | 0.1               | 120VLCC      | 3488            | 12                       | 12/30/62           | 9/27/04          | 257                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364828116234001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364828116234001</a> |
| 227A      | U-151      | 227A S13 E50 19C 3 J -13 WW                  | 36.80802691 | -116.39546322 | H                   | 3317.9              | 0.1               | 120VLCC      | 3488            | 0                        | 1/1/63             | 3/31/64          | 11                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364829116234001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364829116234001</a> |
| 227A      | U-156      | 227A S13 E49 15 1 USW WT-1                   | 36.82113462 | -116.4497851  | H                   | 3941.6              | 0.1               | 120VLCC      | 1665            | 0                        | 6/29/83            | 6/16/99          | 175                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364916116265601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364916116265601</a> |
| 227A      | U-160      | 227A S13 E49 14A 1 UE-25p 1 (Entire Well)    | 36.82720974 | -116.4233007  | H                   | 3655.5              | 0.1               |              | 5923            | 0                        | 11/7/83            | 11/7/83          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364938116252101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364938116252101</a> |
| 227A      | U-161      | 227A S13 E49 14A 2 UE-25p 1 PTH (Lwr Intrvl) | 36.82720974 | -116.4233007  | H                   | 3655.5              | 0.1               | 300CRBN      | 5923            | 0                        | 10/21/83           | 9/15/04          | 214                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364938116252102">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364938116252102</a> |
| 227A      | U-167      | 227A S13 E50 18B 1 UE-25 WT 13               | 36.82865159 | -116.39844688 | H                   | 3387.5              | 0.1               | 122TPPS      | 1160            | 0                        | 7/8/83             | 9/23/04          | 190                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364945116235001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364945116235001</a> |
| 227A      | U-168      | 227A S13 E49 14 4 UE-25c 2 HTH               | 36.82908466 | -116.42961765 | H                   | 3714.6              | 0.1               | 112TUFF      | 3000            | 0                        | 3/18/84            | 3/18/84          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364945116254301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364945116254301</a> |
| 227A      | U-169      | 227A S13 E49 14 1 UE-25c 1 HTH               | 36.82976243 | -116.42945932 | H                   | 3709.3              | 0.1               | 112TUFF      | 2961            | 4                        | 11/7/83            | 6/16/99          | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254300">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254300</a> |
| 227A      | U-170      | 227A S13 E49 14 2 UE-25c 2 HTH               | 36.82908466 | -116.42961765 | H                   | 3714.6              | 0.1               | 112TUFF      | 3000            | 3                        | 3/18/84            | 10/24/85         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254301</a> |
| 227A      | U-171      | 227A S13 E49 14 3 UE-25c 3 HTH               | 36.8292541  | -116.42988711 | H                   | 3714.9              | 0.1               | 112TUFF      | 3000            | 2                        | 5/2/84             | 5/2/84           | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254302</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                       | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|---------------------------------|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 227A      | U-172      | 227A S13 E49 14 7 UE-25c 2      | 36.82908466 | -116.42961765 | H                   | 3714.5             | 0.01              |              | 3000            | 3                        | 9/13/89            | 2/5/98           | 13                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254401</a> |
| 227A      | U-173      | 227A S13 E49 14 8 UE-25c 3      | 36.8292541  | -116.42988711 | H                   | 3715.26            | 0.01              |              | 3000            | 13                       | 8/29/89            | 6/28/98          | 11                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254501</a> |
| 227A      | U-174      | 227A S13 E49 14 5 UE-25c 3      | 36.8292541  | -116.42988711 | H                   | 3715               | 10                |              | 3000            | 0                        | 8/29/89            | 9/10/90          | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254502">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254502</a> |
| 227A      | U-175      | 227A S13 E49 14 6 UE-25c 3      | 36.8292541  | -116.42988711 | H                   | 3715               | 10                |              | 3000            | 0                        | 2/22/90            | 12/3/90          | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254503">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254503</a> |
| 227A      | U-177      | 227A S13 E49 10 4 USW WT-2      | 36.83960649 | -116.45593554 | H                   | 4269.4             | 0.1               | 120VLCC      | 2040            | 0                        | 7/20/83            | 5/20/99          | 96                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365023116271801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365023116271801</a> |
| 227A      | U-178      | 227A S13 E49 12 1 UE-25 WT 14   | 36.8422374  | -116.41051975 | H                   | 3531.5             | 0.1               | 120VLCC      | 1303            | 0                        | 10/21/83           | 6/17/99          | 170                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365032116243501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365032116243501</a> |
| 227A      | U-179      | 227A S13 E49 10 3 USW H-4 HTH   | 36.84229262 | -116.44913805 | H                   | 4096.1             | 0.1               |              | 4000            | 0                        | 9/17/82            | 12/30/82         | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365032116265401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365032116265401</a> |
| 227A      | U-180      | 227A S13 E49 10 13 USW H-4 HTH  | 36.84229262 | -116.44913805 | H                   | 4096.1             | 0.1               |              | 4000            | 0                        | 3/18/83            | 3/31/99          | 38                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365032116265402">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365032116265402</a> |
| 227A      | U-181      | 227A S13 E49 10 14 USW H-4 HTH  | 36.84229262 | -116.44913805 | H                   | 4096.1             | 0.1               |              | 4000            | 0                        | 3/18/83            | 6/16/99          | 55                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365032116265403">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365032116265403</a> |
| 227A      | U-187      | 227A S12 E50 31 9 UE-25a 1      | 36.85122311 | -116.4407739  | H                   | 3934.4             | 0.1               | 120VLCC      | 2501            | 0                        | 11/9/82            | 4/29/85          | 40                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365105116262401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365105116262401</a> |
| 227A      | U-191      | 227A S12 E50 31 12 UE-25b 1 HTH | 36.85216476 | -116.44054612 | H                   | 3939.3             | 0.1               | 120VLCC      | 4002            | 0                        | 11/10/81           | 12/3/83          | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365108116262301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365108116262301</a> |
| 227A      | U-192      | 227A S12 E50 31 10 UE-25b 1 HTH | 36.85216476 | -116.44054612 | H                   | 3939.3             | 0.1               |              | 4002            | 0                        | 5/23/83            | 7/18/95          | 38                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365108116262302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365108116262302</a> |
| 227A      | U-193      | 227A S12 E50 31 11 UE-25b 1 HTH | 36.85216476 | -116.44054612 | H                   | 3939.3             | 0.1               |              | 4002            | 0                        | 3/18/83            | 6/11/98          | 70                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365108116262303">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365108116262303</a> |
| 227A      | U-194      | 227A S12 E49 36 11 USW G-4      | 36.85373408 | -116.45193828 | H                   | 4165               | 0.1               | 120VLCC      | 3003            | 0                        | 3/25/83            | 1/26/90          | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365114116270401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365114116270401</a> |
| 227A      | U-195      | 227A S12 E50 33A 1 UE-25 WT 15  | 36.85446792 | -116.3947692  | H                   | 3553.8             | 0.1               | 122TPPS      | 1360            | 0                        | 11/29/83           | 9/27/04          | 282                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365116116233801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365116116233801</a> |
| 227A      | U-200      | 227A S12 E50 30 1 UE-25 WT 4    | 36.86113134 | -116.43496819 | H                   | 3836               | 0.1               | 120VLCC      | 1567            | 0                        | 6/8/83             | 6/17/99          | 180                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365140116260301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365140116260301</a> |
| 227A      | U-201      | 227A S12 E51 29 1 UE-25a 3      | 36.86306297 | -116.31565758 | H                   | 4546               | 1                 |              | 2530            | 0                        | 12/19/79           | 12/19/79         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365147116185301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365147116185301</a> |
| 227A      | U-202      | 227A S12 E49 25 1 USW H-1 HTH   | 36.86595331 | -116.45427739 | H                   | 4274.9             | 0.1               |              | 6000            | 0                        | 2/26/81            | 6/24/82          | 7                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365157116271201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365157116271201</a> |
| 227A      | U-203      | 227A S12 E49 25 11 USW H-1 HTH  | 36.86595331 | -116.45427739 | H                   | 4274.9             | 0.1               |              | 6000            | 0                        | 7/8/82             | 6/15/99          | 122                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365157116271202">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365157116271202</a> |
| 227A      | U-204      | 227A S12 E49 25 12 USW H-1 HTH  | 36.86595331 | -116.45427739 | H                   | 4274.9             | 0.1               |              | 6000            | 0                        | 7/8/82             | 6/15/99          | 117                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365157116271203">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365157116271203</a> |
| 227A      | U-205      | 227A S12 E49 25 13 USW H-1 HTH  | 36.86595331 | -116.45427739 | H                   | 4274.9             | 0.1               |              | 6000            | 0                        | 7/8/82             | 6/15/99          | 88                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365157116271204">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365157116271204</a> |
| 227A      | U-206      | 227A S12 E49 25 14 USW H-1 HTH  | 36.86595331 | -116.45427739 | H                   | 4274.9             | 0.1               |              | 6000            | 0                        | 7/8/82             | 6/15/99          | 89                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365157116271205">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365157116271205</a> |
| 227A      | U-207      | 227A S12 E49 25 10 USW G-1      | 36.86663658 | -116.45901927 | H                   | 4350.1             | 0.1               |              | 6000            | 0                        | 3/23/82            | 3/23/82          | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365200116272901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365200116272901</a> |
| 227A      | U-208      | 227A S12 E49 25 2 UE-25 WT 18   | 36.86844501 | -116.44583539 | H                   | 4384.5             | 0.1               | 120VLCC      | 1965            | 0                        | 1/26/90            | 8/30/95          | 48                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365207116264201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365207116264201</a> |
| 227A      | U-209      | 227A S12 E50 19 1 UE-25 WT 16   | 36.87734505 | -116.426868   | H                   | 3972.8             | 0.1               | 120VLCC      | 1674            | 0                        | 11/22/83           | 6/7/99           | 139                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365239116253401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365239116253401</a> |
| 227A      | U-213      | 227A S12 E49 24 1 USW WT-24     | 36.88356135 | -116.45449702 | S                   | 4900.29            | 0.5               |              | 0               | 0                        | 7/14/98            | 6/24/99          | 7                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365301116271301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365301116271301</a> |
| 227A      | U-214      | 227A S12 E49 13 2 USW G-2       | 36.88950564 | -116.46065289 | H                   | 5098.1             | 0.1               | 120VLCC      | 6006            | 4                        | 11/10/81           | 6/22/99          | 44                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365322116273501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365322116273501</a> |
| 227A      | U-217      | 227A S12 E49 13 1 UE-25 WT 6    | 36.89429459 | -116.44689402 | H                   | 4313.6             | 0.1               | 120VLCC      | 1221            | 0                        | 9/7/83             | 6/7/99           | 137                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365340116264601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365340116264601</a> |

USGS Data- Wells (CRC Basins)

| Basin No. | Project ID | Site_Name                      | Latitude    | Longitude     | Coordinate Accuracy | Altitude (ft-AMSL) | Altitude Accuracy | Aquifer Code | Well Depth (ft) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--------------------------------|-------------|---------------|---------------------|--------------------|-------------------|--------------|-----------------|--------------------------|--------------------|------------------|-------------------------|---|
| 227A      | U-233      | 227A S11 E50 34 2 USW UZN 91   | 36.94000857 | -116.37552475 | H                   | 3949.34            | 0.01              | 122TVCN      | 94              | 0                        | 1/21/86            | 9/26/97          | 218                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365624116222901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365624116222901</a> |
| 227A      | U-234      | 227A S11 E50 34 1 UE-29a 1 HTH | 36.94125579 | -116.37471917 | H                   | 3984.2             | 0.01              |              | 215             | 1                        | 6/21/82            | 9/26/97          | 219                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365629116222601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365629116222601</a> |
| 227A      | U-235      | 227A S11 E50 34 3 UE-29a 2 HTH | 36.94129745 | -116.3748164  | H                   | 3984.64            | 0.01              | 120VLCC      | 1165            | 0                        | 6/21/82            | 9/26/97          | 219                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365629116222602">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365629116222602</a> |
| 227A      | U-241      | 227A S13 E49 25 1 UE-25 WT 3   | 36.79924355 | -116.41690016 | H                   | 3379.3             | 0.1               |              | 1142            | 0                        | 10/31/83           | 10/31/83         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365757116245801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365757116245801</a> |
| 227A      | U-1611     | 227A S14 E49 26 1 UE-25p 1 PTH | 36.82720974 | -116.4233007  | H                   | 3668               | 10                |              | 0               | 1                        |                    |                  | 0                       |   |
| 227A      | U-1638     | 227A S12 E50 31 1 UE-25b 1 HTH | 36.85216476 | -116.44054612 | H                   | 3929               | 10                |              | 0               | 39                       |                    |                  | 0                       |   |

USGS Data- Springs and Streams (CRC Basins)

| Basin No. | Project ID | Site_Name                          | Latitude    | Longitude     | Coordinate Accuracy | Altitude | Altitude Accuracy | Water Quality Begin | Water Quality End | Water Quality Data Count | Daily Flow Start | Daily Flow End | Daily Flow Data Count | Peak Flow Data Count | Site Data (Flow / Water Quality)  |
|-----------|------------|------------------------------------|-------------|---------------|---------------------|----------|-------------------|---------------------|-------------------|--------------------------|------------------|----------------|-----------------------|----------------------|---|
| 146       | SPR-1741   | 146 S11 E44 24AC 1 Woodcamp Spring | 36.96910787 | -116.97811928 | F                   |          |                   | 3/16/1993           | 3/16/1993         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365809116583801">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365809116583801</a> |
| 149       | SPR-1790   | 149 N02 E49 32AC 1 Spring          | 37.98188131 | -116.5175558  | U                   |          |                   | 7/28/1967           | 7/28/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375855116310001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375855116310001</a> |
| 149       | SPR-1794   | 149 N02 E47 14AC 1 Spring          | 38.02771415 | -116.68144943 | U                   |          |                   | 7/28/1967           | 7/28/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380140116405001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380140116405001</a> |
| 149       | SPR-1795   | 149 N02 E49 13AAD 1 Spring         | 38.03049172 | -116.44255433 | U                   |          |                   | 7/29/1967           | 7/29/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380150116263001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380150116263001</a> |
| 149       | SPR-1800   | 149 N03 E49 14 1 Spring            | 38.11382449 | -116.46199976 | U                   |          |                   | 7/29/1967           | 7/29/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380650116274001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380650116274001</a> |
| 149       | SPR-1802   | 149 N03 E48 06AB 1 Spring          | 38.14438002 | -116.64256033 | U                   |          |                   | 7/28/1967           | 7/28/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380840116383001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380840116383001</a> |
| 149       | SPR-1804   | 149 N04 E47 29 1 Spring            | 38.17215752 | -116.73700772 | U                   |          |                   | 7/27/1967           | 7/27/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381020116441001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381020116441001</a> |
| 149       | SPR-1805   | 149 N04 E46 26CA 1 Spring          | 38.17215733 | -116.79256545 | U                   |          |                   | 7/30/1967           | 7/30/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381020116473001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381020116473001</a> |
| 149       | SPR-1816   | 149 N04 E48 08BC 1 Spring          | 38.21660174 | -116.63700514 | U                   |          |                   | 5/10/1967           | 7/27/1967         | 4                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381300116381001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381300116381001</a> |
| 149       | SPR-1817   | 149 N04 E47 10AAA 1 Spring         | 38.21799056 | -116.69534021 | U                   |          |                   | 7/27/1967           | 7/27/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381305116414001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381305116414001</a> |
| 149       | SPR-1821   | 149 N05 E46 33CD 1 Spring          | 38.2388234  | -116.83145661 | U                   |          |                   | 7/30/1967           | 7/30/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381420116495001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381420116495001</a> |
| 149       | SPR-1823   | 149 N05 E46 28DC 1 Spring          | 38.25271224 | -116.82590098 | U                   |          |                   | 7/30/1967           | 7/30/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381510116493001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381510116493001</a> |
| 149       | SPR-1824   | 149 N05 E47 26CC 1 Spring          | 38.25549033 | -116.68978488 | U                   |          |                   | 7/27/1967           | 7/27/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381520116412001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381520116412001</a> |
| 149       | SPR-1836   | 149 N05 E47 13CA 1 Spring          | 38.28604586 | -116.66756275 | U                   |          |                   | 7/28/1967           | 7/28/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381710116400001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381710116400001</a> |

USGS Data- Springs and Streams (CRC Basins)

| Basin No. | Project ID | Site_Name  | Latitude    | Longitude     | Coordinate Accuracy | Altitude | Altitude Accuracy | Water Quality Begin | Water Quality End | Water Quality Data Count | Daily Flow Start | Daily Flow End | Daily Flow Data Count | Peak Flow Data Count | Site Data (Flow / Water Quality)  |
|-----------|------------|--|-------------|---------------|---------------------|----------|-------------------|---------------------|-------------------|--------------------------|------------------|----------------|-----------------------|----------------------|---|
| 156       | STR-2146   | Hot Creek near Warm Springs, NV                  | 38.19576634 | -116.17171624 | U                   |          |                   |                     |                   |                          | 9/1/1967         | 12/10/1972     | 1928                  |                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10247050">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10247050</a>               |
| 156       | STR-2165   | Big Creek nr Warm Springs, NV                    | 38.18688086 | -115.755869   | S                   | 5630     | 20                |                     |                   |                          | 4/1/1991         | 9/30/1994      | 1279                  | 4                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10247200">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10247200</a>               |
| 156       | SPR-1778   | 156 N01 E50 10DDD 1 Spring                       | 37.9443816  | -116.36477424 | U                   |          |                   | 8/2/1967            | 8/2/1967          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375640116215000">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375640116215000</a> |
| 156       | SPR-1784   | 156 N01 E50 06 3 Big Seep                        | 37.95993702 | -116.43199811 | U                   | 7270     |                   | 4/1/1986            | 4/1/1986          | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375736116255202">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375736116255202</a> |
| 156       | SPR-1787   | 156 N01 E49 01 1 Ledge Spring                    | 37.96160368 | -116.44144278 | U                   | 7650     |                   | 9/29/1987           | 6/9/1992          | 12                       |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375742116262600">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375742116262600</a> |
| 156       | SPR-1791   | 156 N02 E50 28ACC 1 Spring                       | 37.99438076 | -116.38699728 | U                   |          |                   | 8/2/1967            | 8/2/1967          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375940116231000">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375940116231000</a> |
| 156       | SPR-1792   | 156 N02 E50 21C 1 Spring                         | 38.00826949 | -116.39255307 | U                   |          |                   | 8/2/1967            | 8/2/1967          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380030116233000">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380030116233000</a> |
| 156       | SPR-1806   | 156 N04 E50 20CCC 1 Spring                       | 38.18326758 | -116.37588754 | U                   |          |                   | 5/11/1967           | 8/1/1968          | 5                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381100116223000">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381100116223000</a> |
| 156       | SPR-1807   | 156 N04 E50 20CDC 1 Hot Sp, near Warm Springs    | 38.18743418 | -116.37338753 | U                   |          |                   | 1/1/1974            | 7/31/2003         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381115116222101">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381115116222101</a> |
| 156       | SPR-1808   | 156 N04 E50 20CB 1 Warm Springs                  | 38.18743418 | -116.37366532 | U                   | 5580     |                   | 9/21/1973           | 9/21/1973         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381115116222201">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381115116222201</a> |
| 156       | SPR-1809   | 156 N04 E50 20CBC 1 Spring                       | 38.18882308 | -116.37588759 | U                   |          |                   | 8/3/1967            | 8/3/1967          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381120116223000">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381120116223000</a> |
| 156       | SPR-1811   | 156 N04 E51 13DA 1 Spring                        | 38.20409953 | -116.17727205 | U                   |          |                   | 5/11/1967           | 8/2/1967          | 4                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381215116103500">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381215116103500</a> |
| 156       | SPR-1822   | 156 N04 E49 01BB 1 Spring                        | 38.24021183 | -116.41199976 | U                   |          |                   | 7/31/1967           | 7/31/1967         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381425116244000">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381425116244000</a> |
| 156       | SPR-1837   | 156 N05 E51 07BC 1 Spring                        | 38.30548813 | -116.28283147 | U                   |          |                   | 7/13/1968           | 7/13/1968         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381820116165500">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381820116165500</a> |
| 156       | SPR-1859   | 156 N07 E50 19DCC 1 Spring                       | 38.44576662 | -116.34811228 | U                   |          |                   | 8/2/1967            | 8/2/1967          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382645116205000">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382645116205000</a> |
| 156       | SPR-1860   | 156 N07 E51 19D 1 Spring                         | 38.44993257 | -116.16199541 | U                   |          |                   | 5/11/1967           | 7/31/1968         | 3                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382700116094000">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382700116094000</a> |
| 156       | STR-1693   | 156 N01 E50 06 5 Lost Hammer                     | 37.96077033 | -116.42616465 | U                   | 7070     |                   | 9/24/1985           | 9/24/1985         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375739116253100">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375739116253100</a> |
| 156       | STR-1781   | 156 N01 E50 06 7 Kawich Creek nr Antler          | 37.95854814 | -116.42810913 | U                   | 7160     |                   | 1/19/1985           | 3/20/1986         | 5                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375731116253600">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375731116253600</a> |
| 156       | STR-1782   | 156 N01 E50 06 1 Kawich Creek ab weir            | 37.959937   | -116.42560908 | U                   | 7070     |                   | 4/3/1985            | 4/8/1992          | 17                       |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375736116252900">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375736116252900</a> |
| 156       | STR-1783   | 156 N01 E50 06 2 Kawich Creek nr Big Seep        | 37.95993702 | -116.43199811 | U                   | 7270     |                   | 7/10/1985           | 9/17/1992         | 26                       |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375736116255201">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375736116255201</a> |
| 156       | STR-1799   | 156 N03 E50 13BCC 1 Stream-Reveille V Ertec      | 38.10826812 | -116.33949728 | U                   | 5482     |                   | 3/30/1981           | 4/4/1981          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380630116201901">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380630116201901</a> |
| 156       | STR-2147   | 156 N01 E49 12 1 Kawich Creek nr Warm Spgs       | 37.95132608 | -116.45144296 | U                   | 7000     |                   |                     |                   |                          | 9/24/1988        | 5/21/1990      | 605                   |                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375705116270200">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375705116270200</a> |
| 156       | STR-2148   | 156 Kawich Creek nr Warm Spgs - 21x weather data | 37.96021477 | -116.42394237 | U                   | 7000     |                   |                     |                   |                          | 3/1/1987         | 9/30/1991      | 1319                  |                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375737116252301">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375737116252301</a> |

USGS Data- Springs and Streams (CRC Basins)

| Basin No. | Project ID | Site_Name                                  | Latitude    | Longitude     | Coordinate Accuracy | Altitude | Altitude Accuracy | Water Quality Begin | Water Quality End | Water Quality Data Count | Daily Flow Start | Daily Flow End | Daily Flow Data Count | Peak Flow Data Count | Site Data (Flow / Water Quality)  |
|-----------|------------|--|-------------|---------------|---------------------|----------|-------------------|---------------------|-------------------|--------------------------|------------------|----------------|-----------------------|----------------------|---|
| 170       | STR-2166   | Penoyer Valley tr nr Tempiute, NV          | 37.58523056 | -115.68086573 | U                   | 5480     |                   |                     |                   |                          | 10/1/1965        | 9/30/1977      | 4383                  | 18                   | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10247860">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10247860</a>               |
| 170       | SPR-2046   | 170 N01 E56 35DD 1 Spring                  | 37.89855736 | -115.64614465 | U                   |          |                   | 9/14/1968           | 9/14/1968         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375355115384331">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375355115384331</a> |
| 172       | SPR-2051   | 172 N02 E57 07 1 Spring                    | 38.04994455 | -115.61253275 | U                   |          |                   | 7/31/1985           | 7/31/1985         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380300115364201">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380300115364201</a> |
| 172       | SPR-2055   | 172 N03 E57 08 1 Spring above Adaven       | 38.13466559 | -115.60030934 | U                   |          |                   | 7/31/1985           | 7/31/1985         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380805115355801">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380805115355801</a> |
| 172       | SPR-2057   | 172 N04 E56 35 1 Lower Little Cherry Cr Sp | 38.16716289 | -115.65419943 | U                   |          |                   | 7/31/1985           | 7/31/1985         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381002115391201">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=381002115391201</a> |
| 173A      | SPR-1770   | 173A S02 E51 21 2 Spring                   | 37.7499411  | -116.28421524 | U                   |          |                   | 8/1/1967            | 8/1/1967          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=374500116170001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=374500116170001</a> |
| 173A      | SPR-1777   | 173A N01 E52 22CBC 1 Spring                | 37.9316047  | -116.11865686 | U                   |          |                   | 8/3/1967            | 8/3/1967          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375554116070401">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375554116070401</a> |
| 173A      | SPR-1793   | 173A N02 E52 19BA 1 Spring                 | 38.0277135  | -116.16754785 | U                   |          |                   | 8/3/1967            | 8/3/1967          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380140116100001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380140116100001</a> |
| 173A      | SPR-1796   | 173A N02 E51 02D 1 Spring                  | 38.04715751 | -116.19532659 | U                   |          |                   | 8/3/1967            | 8/3/1967          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380250116114001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380250116114001</a> |
| 173B      | SPR-1843   | 173B N06 E54 24CA 1 Spring                 | 38.36382212 | -115.84948406 | U                   |          |                   | 9/12/1968           | 9/12/1968         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382150115505501">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382150115505501</a> |
| 173B      | SPR-1850   | 173B N06 E54 11C 1 Spring                  | 38.38882189 | -115.87031828 | U                   |          |                   | 8/7/1967            | 8/7/1967          | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382320115521001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382320115521001</a> |
| 181       | SPR-2049   | 181 N01 E63 28CC 1 Black Rock Spring       | 37.91190416 | -114.91889988 | F                   | 5520     | 20                | 3/22/1988           | 3/22/1988         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375443114550501">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375443114550501</a> |
| 203       | SPR-2086   | 203 S02 E67 07CD 1 Spring                  | 37.78413102 | -114.5288833  | U                   | 5275     |                   | 4/10/1985           | 4/10/1985         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=374703114314101">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=374703114314101</a> |
| 203       | SPR-2088   | 203 S02 E68 04BAD 1 Panaca Spring          | 37.80663092 | -114.38054445 | U                   | 4768     | 20                | 4/8/1985            | 11/11/1986        | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=374824114224701">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=374824114224701</a> |
| 203       | SPR-2089   | 203 S02 E63 04BADD1 Panaca Spring          | 37.80718647 | -114.38137782 | U                   | 4778     |                   | 4/26/1984           | 4/26/1984         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=374826114225001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=374826114225001</a> |
| 203       | SPR-2098   | 203 S01 E66 26 1 Lime Spring               | 37.91440734 | -114.54110644 | U                   | 6880     |                   | 4/7/1985            | 4/7/1985          | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375452114322501">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=375452114322501</a> |
| 204       | SPR-2069   | 204 S06 E69 28 1 Spring                    | 37.40052368 | -114.27776002 | U                   |          |                   | 6/3/1985            | 6/3/1985          | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=372402114163701">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=372402114163701</a> |
| 204       | SPR-2071   | 204 S05 E67 23 1 Spring                    | 37.49913182 | -114.45332378 | U                   |          |                   | 6/3/1985            | 6/3/1985          | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=372957114270901">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=372957114270901</a> |
| 204       | SPR-2074   | 204 S04 E67 08A 1 Caliente Mineral Hot Spr | 37.61302031 | -114.51249339 | U                   | 4400     |                   | 2/4/1974            | 2/4/1974          | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=373647114304201">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=373647114304201</a> |
| 204       | SPR-2082   | 204 S04 E67 08B 2 Spring                   | 37.62107588 | -114.51027109 | U                   | 4430     |                   | 4/10/1985           | 4/10/1985         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=373716114303401">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=373716114303401</a> |
| 204       | STR-2170   | Mathews Canyon Wash nr Caliente, NV        | 37.49857894 | -114.2230361  | U                   | 5409.1   |                   |                     |                   |                          | 6/1/58           | 9/30/84        | 9619                  | 26                   | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=9418200">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=9418200</a>                 |
| 204       | STR-2171   | Pine Canyon Wash nr Caliente, NV           | 37.47809722 | -114.30746389 | U                   | 5595     |                   |                     |                   |                          | 6/1/58           | 9/30/84        | 9619                  | 25                   | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=9418300">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=9418300</a>                 |



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|-----------|------------|--|-------------|---------------|---------------------|----------|-------------------|---------------------|-------------------|--------------------------|------------------|----------------|-----------------------|----------------------|---|
| 207       | SPR-1840   | 207 N06 E60 25BDAD1<br>Moon River Springs        | 38.35161611 | -115.18168532 | U                   | 5220     | 5                 | 4/27/1982           | 4/27/1982         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382105115104801">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382105115104801</a> |
| 207       | SPR-1841   | 207 N06 E60 25BDAD2<br>Moon River Spring         | 38.35161612 | -115.18140753 | U                   | 5220     |                   | 1/18/1984           | 1/18/1984         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382106115105001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382106115105001</a> |
| 207       | SPR-1846   | 207 N06 E58 20 1 Big<br>Spring - Grant Range     | 38.37049681 | -115.48197084 | U                   |          |                   | 7/24/1985           | 7/24/1985         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382214115285201">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382214115285201</a> |
| 207       | SPR-1847   | 207 N06 E59 18DAA 1<br>Forest Home Spring        | 38.37744394 | -115.37613499 | U                   |          |                   | 7/24/1985           | 7/24/1985         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382239115223101">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382239115223101</a> |
| 207       | SPR-1848   | 207 N06 E61 18AADA1<br>NDW - Hot Creek<br>Spring | 38.38300476 | -115.15335081 | U                   | 5225     | 5                 | 7/19/1981           | 1/18/1984         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382259115090801">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382259115090801</a> |
| 207       | SPR-1856   | 207 N07 E62 33BCCC1<br>Flag Spring 3             | 38.42133994 | -115.02306846 | F                   | 5290     | 5                 | 1/17/1984           | 1/17/1984         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382517115012001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382517115012001</a> |
| 207       | SPR-1858   | 207 N07 E62 28ABDC1<br>Butterfield Spring        | 38.43967317 | -115.01167918 | U                   | 5320     | 5                 | 7/19/1981           | 1/17/1984         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382624115004001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=382624115004001</a> |

USGS Data- Springs and Streams (CRC Basins)

| Basin No. | Project ID | Site_Name                                   | Latitude    | Longitude     | Coordinate Accuracy | Altitude | Altitude Accuracy | Water Quality Begin | Water Quality End | Water Quality Data Count | Daily Flow Start | Daily Flow End | Daily Flow Data Count | Peak Flow Data Count | Site Data (Flow / Water Quality)  |
|-----------|------------|---|-------------|---------------|---------------------|----------|-------------------|---------------------|-------------------|--------------------------|------------------|----------------|-----------------------|----------------------|---|
| 227A      | STR-1647   | 227A S12 E50 03DA 1 Delirium Can. at mouth  | 36.92022829 | -116.37560512 | S                   |          |                   | 1/26/1995           | 1/26/1995         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365513116222901">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365513116222901</a> |
| 227A      | STR-1648   | 227A Delirium Canyon overland flow site     | 36.92328386 | -116.37088273 | S                   | 4040     | 10                | 1/5/1995            | 1/5/1995          | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365524116221201">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365524116221201</a> |
| 227A      | STR-1649   | 227A Overland flow site near Pah Canyon     | 36.94078354 | -116.37782763 | S                   | 4000     | 10                | 1/6/1995            | 1/26/1995         | 4                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365627116223701">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365627116223701</a> |
| 227A      | STR-1653   | Yucca Wash nr Mouth, Nevada Test Site, NV   | 36.86606219 | -116.39477209 | S                   | 3590     | 10                | 1/18/1993           | 1/26/1995         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251252">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251252</a>               |
| 227A      | STR-1654   | Pagany Wash Number 1, NTS, NV               | 36.86078411 | -116.43644047 | S                   | 3860     | 10                | 12/7/1992           | 12/7/1992         | 1                        | 10/1/1992        | 9/30/1995      | 1095                  | 2                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=102512533">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=102512533</a>             |
| 227A      | STR-1655   | Wren Wash at Yucca Mtn, NTS, NV             | 36.85939507 | -116.45505236 | S                   | 4220     | 10                | 1/25/1995           | 1/25/1995         | 1                        | 8/24/1994        | 9/30/1995      | 403                   | 3                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=1025125356">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=1025125356</a>           |
| 227A      | STR-1656   | Split Wash below Quac Canyon Wash, NTS, NV  | 36.84911751 | -116.44921868 | S                   | 4180     | 10                | 1/25/1995           | 1/25/1995         | 1                        | 9/10/1993        | 9/30/1995      | 751                   | 3                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=102512537">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=102512537</a>             |
| 227A      | STR-1670   | 227A S14 E50 06 1 40-Mile Wash at J-12      | 36.76411922 | -116.39449332 | U                   |          |                   | 8/14/1984           | 8/14/1984         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=364551116233700">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=364551116233700</a> |
| 227A      | STR-1703   | 227A S13 E50 30 1 Busted Butte Wash         | 36.79689649 | -116.39838269 | U                   |          |                   | 8/14/1984           | 8/14/1984         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=364749116235100">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=364749116235100</a> |
| 227A      | STR-1708   | 227A S13 E50 18 1 40-Mile Wash at Road H    | 36.81772953 | -116.39727173 | U                   |          |                   | 8/15/1984           | 8/15/1984         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=364904116234700">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=364904116234700</a> |
| 227A      | STR-1709   | 227A 40-mile Wash above Drill Hole Wash     | 36.81884063 | -116.39699395 | U                   |          |                   | 8/14/1984           | 8/14/1984         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=364908116234600">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=364908116234600</a> |
| 227A      | STR-1710   | 227A S13 E50 18 2 Drill Hole Wash at Mouth  | 36.81967394 | -116.39866069 | U                   |          |                   | 8/14/1984           | 8/14/1984         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=364911116235200">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=364911116235200</a> |
| 227A      | STR-1725   | 227A Overland flow site in Fortymile Canyon | 36.88883971 | -116.38838314 | S                   | 3760     | 10                | 1/24/1995           | 1/24/1995         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365320116231501">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365320116231501</a> |
| 227A      | STR-2137   | Fortymile Wash at Narrows, NTS, NV          | 36.88689536 | -116.38143838 | S                   | 3680     | 10                |                     |                   |                          | 9/21/1983        | 9/30/1997      | 5124                  | 8                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251250">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251250</a>               |
| 227A      | STR-2138   | Pagany Wash near the Prow, NTS, NV          | 36.86828388 | -116.44810771 | S                   | 4280     | 10                |                     |                   |                          | 8/26/1994        | 9/30/1995      | 401                   | 1                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=102512531">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=102512531</a>             |
| 227A      | STR-2140   | Drillhole Wash above Well UZ-1, NTS, NV     | 36.86578383 | -116.45783032 | S                   | 4310     | 10                |                     |                   |                          | 8/25/1994        | 9/30/1995      | 402                   | 3                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=102512535">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=102512535</a>             |
| 227A      | STR-2143   | Split Wash at Antler Ridge, NTS, NV         | 36.84328434 | -116.44144051 | S                   | 3870     | 10                |                     |                   |                          | 9/9/1993         | 9/30/1995      | 752                   | 3                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=1025125372">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=1025125372</a>           |
| 227A      | STR-2144   | Fortymile Wash nr Well J-13, NTS, NV        | 36.80745188 | -116.40116068 | S                   | 3240     | 10                |                     |                   |                          | 11/30/1983       | 9/30/1997      | 5054                  | 7                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251255">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251255</a>               |
| 227A      | STR-2145   | FORTYMILE WASH NR AMARGOSA VALLEY, NV       | 36.67161961 | -116.43504939 | S                   | 2705     | 5                 |                     |                   |                          | 11/15/1983       | 9/30/1997      | 5069                  | 20                   | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251258">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251258</a>               |

USGS Data- Springs and Streams (CRC Basins)

| Basin No. | Project ID | Site_Name                                     | Latitude    | Longitude     | Coordinate Accuracy | Altitude | Altitude Accuracy | Water Quality Begin | Water Quality End | Water Quality Data Count | Daily Flow Start | Daily Flow End | Daily Flow Data Count | Peak Flow Data Count | Site Data (Flow / Water Quality)  |
|-----------|------------|---|-------------|---------------|---------------------|----------|-------------------|---------------------|-------------------|--------------------------|------------------|----------------|-----------------------|----------------------|---|
| 228       | STR-2129   | Beatty Wash near Beatty, NV                   | 36.9435565  | -116.72005984 | F                   | 3460     | 20                |                     |                   |                          | 10/1/1988        | 9/30/1995      | 2556                  | 5                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251215">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251215</a>               |
| 228       | STR-2130   | AMARGOSA RIVER AT BEATTY, NV                  | 36.91050109 | -116.75728212 | S                   | 3300     | 20                |                     |                   |                          | 8/27/1993        | 9/30/2003      | 1936                  | 7                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251217">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10251217</a>               |
| 228       | SPR-1645   | 228 S12 E47 06DDD 1 Revert Springs Channel    | 36.91522327 | -116.75228215 | S                   | 3340     | 20                | 12/17/1996          | 12/17/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365455116450501">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365455116450501</a> |
| 228       | SPR-1646   | 228 S12 E47 05CA 1 Revert Springs Area        | 36.91744554 | -116.74561541 | F                   | 3370     | 25                | 12/18/1996          | 12/18/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365503116444101">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365503116444101</a> |
| 228       | SPR-1735   | 228 S11 E46 26DCC 1 Lower Indian Springs      | 36.94466652 | -116.79672776 | F                   | 4025     | 25                | 5/22/1997           | 5/22/1997         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365628116473801">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365628116473801</a> |
| 228       | SPR-1737   | 228 S11 E46 26CB 1 Upper Indian Springs       | 36.95133292 | -116.80506133 | F                   | 4220     | 20                | 5/22/1997           | 5/22/1997         | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365635116480201">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365635116480201</a> |
| 228       | SPR-1738   | 228 S11 E47 33BA 1 Spring                     | 36.94216751 | -116.72867111 | S                   | 3470     | 20                | 12/17/1996          | 12/17/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365636116430801">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365636116430801</a> |
| 228       | SPR-1739   | 228 S11 E46 26DDC 1 Lower Indian Spring       | 36.94411097 | -116.79700553 | S                   | 4020     | 20                | 12/18/1996          | 12/18/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365639116474601">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365639116474601</a> |
| 228       | SPR-1743   | 228 S11 E47 21 1 Spring                       | 36.97272256 | -116.72033819 | U                   | 3600     |                   | 2/5/1974            | 2/5/1974          | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365822116431001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365822116431001</a> |
| 228       | SPR-1744   | 228 S11 E47 16DCD 4 Hot Springs Bath House 1  | 36.9741114  | -116.72200492 | S                   | 3590     | 20                | 12/18/1996          | 12/18/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365825116431501">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365825116431501</a> |
| 228       | SPR-1745   | 228 S11 E47 16DCD 5 Hot Springs Bath House 2  | 36.97383363 | -116.72200492 | S                   | 3590     | 20                | 12/18/1996          | 12/18/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365825116431502">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365825116431502</a> |
| 228       | SPR-1747   | 228 S11 E47 16DCDB3 Hot Springs Bath House 1  | 36.9741114  | -116.72200492 | F                   | 3600     | 20                | 9/27/1996           | 12/18/1996        | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365827116431601">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365827116431601</a> |
| 228       | SPR-1750   | 228 S11 E47 03CDB 1 Oleo Rd Spring            | 37.00549982 | -116.70950525 | S                   | 3830     | 10                | 12/17/1996          | 12/17/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=370020116423101">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=370020116423101</a> |
| 228       | SPR-1753   | 228 S10 E47 28DCD 1 OVU Culvert Spring        | 37.03272111 | -116.72256171 | S                   | 3770     | 10                | 12/17/1996          | 12/17/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=370158116431801">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=370158116431801</a> |
| 228       | STR-1740   | 228 S11 E47 28DDA 1 Ute Springs Culvert       | 36.94772312 | -116.71755987 | S                   | 3450     | 20                | 12/17/1996          | 12/17/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365652116430001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365652116430001</a> |
| 228       | STR-1746   | 228 S11 E47 16DCD 6 Hot Springs blw Culvert 1 | 36.97355586 | -116.72144934 | S                   | 3590     | 20                | 12/18/1996          | 12/18/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365826116431501">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365826116431501</a> |
| 228       | STR-1749   | 228 S11 E47 21AAA 1 Hot Springs Culvert 2     | 36.97300032 | -116.72117155 | S                   | 3585     | 20                | 12/18/1996          | 12/18/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365844116431201">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365844116431201</a> |
| 228       | STR-1752   | 228 S11 E47 04BAC 1 Springdale Culvert        | 37.01438818 | -116.72728365 | S                   | 3695     | 10                | 12/17/1996          | 12/17/1996        | 1                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=370052116433501">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=370052116433501</a> |
| 229       | SPR-1722   | 229 S12 E48 30BB 1 Specie Spring              | 36.86800335 | -116.65922393 | F                   | 4400     | 20                | 12/18/1996          | 12/18/1996        | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365205116393001">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365205116393001</a> |
| 229       | SPR-1723   | 229 S12 E48 30BBC 1 Specie Spring             | 36.86855889 | -116.65977951 | S                   | 4400     | 20                | 5/21/1997           | 5/22/1997         | 2                        |                  |                | 0                     | 0                    | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365207116393201">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=365207116393201</a> |



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**Hydrographic Basin Summary (Groundwater)**

# Appendix B

**Hydrographic Basin Summary - By Manner of Use for Groundwater Sources (Study Corridor Basins)**

| Basin No.    | 137A                |                     | 141                 |                     | 142                 |                     | 143                 |                     | 144                 |                     | 145                 |                     |
|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|              | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty |
| COM          |                     |                     |                     |                     |                     |                     |                     |                     | 168                 |                     |                     |                     |
| CON          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| DOM          |                     |                     |                     |                     |                     |                     | 24                  |                     |                     |                     |                     |                     |
| ENV          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IND          |                     |                     | 117                 |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRC          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRD          | 160                 |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRR          | 10,143              |                     | 32                  |                     | 16                  |                     |                     |                     |                     |                     |                     |                     |
| MM           | 8,331               |                     |                     |                     | 1,337               |                     | 23,231              |                     | 30                  |                     |                     |                     |
| MUN          | 1,507               |                     | 1,554               |                     | 326                 |                     | 154                 |                     |                     |                     |                     |                     |
| PWR          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| QM           | 14                  |                     | 36                  |                     |                     |                     | 435                 |                     |                     |                     |                     |                     |
| REC          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| STK          | 924                 |                     | 132                 |                     | 29                  |                     | 39                  |                     | 28                  |                     | 12                  |                     |
| STO          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| WLD          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| OTH          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b> | 21,079              | 0                   | 1,871               | 0                   | 1,708               | 0                   | 23,882              | 0                   | 226                 | 0                   | 12                  | 0                   |
| Status       | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            |
| VST          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RES          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| APP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RFA          | 907                 |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| PER          | 3,665               | 45                  | 865                 |                     | 564                 |                     | 20,972              |                     | 169                 |                     |                     |                     |
| RLP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RVP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| CER          | 17,370              |                     | 1,006               |                     | 1,088               | 56                  | 2,729               | 181                 | 57                  |                     | 12                  |                     |
| DEC          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b> | 21,941              | 45                  | 1,871               | 0                   | 1,652               | 56                  | 23,701              | 181                 | 226                 | 0                   | 12                  | 0                   |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |

**Notes:** \*Annual Duty may not include all Decreed and Appropriated appropriations.

### Hydrographic Basin Summary - By Manner of Use for Groundwater Sources (Study Corridor Basins)

| Basin No.     | 146                 |                     | 147                 |                     | 148                 |                     | 149                 |                     | 155c                |                     | 156                 |                     |
|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Manner of Use | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty |
| COM           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| CON           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| DOM           |                     |                     |                     |                     |                     |                     | 2                   |                     |                     |                     | 2                   |                     |
| ENV           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IND           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 43                  |                     |
| IRC           |                     |                     |                     |                     |                     |                     |                     | 5,120               |                     |                     |                     | 5,920               |
| IRD           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 1,184               | 5,280               |
| IRR           | 3,222               |                     |                     |                     |                     |                     | 7,510               |                     |                     |                     | 2,817               |                     |
| MM            | 162                 |                     |                     |                     |                     |                     |                     |                     |                     |                     | 6                   |                     |
| MUN           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| PWR           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| QM            | 125                 |                     | 380                 |                     | 243                 |                     | 1,183               |                     |                     |                     | 6                   |                     |
| REC           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| STK           | 76                  |                     | 34                  |                     | 7                   |                     | 269                 |                     | 17                  |                     | 161                 |                     |
| STO           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| WLD           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| OTH           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b>  | <b>3,586</b>        | <b>0</b>            | <b>414</b>          | <b>0</b>            | <b>250</b>          | <b>0</b>            | <b>8,964</b>        | <b>5,120</b>        | <b>17</b>           | <b>0</b>            | <b>4,220</b>        | <b>11,200</b>       |
| Status        | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            |
| VST           |                     |                     |                     |                     |                     |                     | 74                  |                     |                     |                     | 23                  |                     |
| RES           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| APP           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RFA           |                     |                     |                     |                     |                     |                     | 5,120               |                     |                     |                     | 11,200              |                     |
| PER           | 2,481               |                     | 362                 |                     |                     |                     | 4,909               |                     |                     |                     | 1,637               |                     |
| RLP           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RVP           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| CER           | 1,104               |                     | 52                  |                     | 250                 |                     | 3,982               |                     | 17                  |                     | 2,560               |                     |
| DEC           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b>  | <b>3,586</b>        | <b>0</b>            | <b>414</b>          | <b>0</b>            | <b>250</b>          | <b>0</b>            | <b>14,084</b>       | <b>0</b>            | <b>17</b>           | <b>0</b>            | <b>15,420</b>       | <b>0</b>            |
|               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |

**Notes:** \*Annual Duty may not include all Decreed and Adjudicated appropriations.

**Hydrographic Basin Summary - By Manner of Use for Groundwater Sources (Study Corridor Basins)**

| Basin No.    | 157                 |                     | 158A                |                     | 159                 |                     | 160                 |                     | 169A                |                     | 170                 |                     |
|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|              | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty |
| COM          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 64                  | 608                 |
| CON          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| DOM          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| ENV          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IND          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRC          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 3,200               |
| IRD          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRR          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 11,746              |                     |
| MM           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| MUN          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| PWR          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| QM           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 2,540               |                     |
| REC          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| STK          |                     |                     | 12                  |                     |                     |                     |                     |                     | 7                   |                     | 111                 |                     |
| STO          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| WLD          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| OTH          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b> | 0                   | 0                   | 12                  | 0                   | 0                   | 0                   | 0                   | 0                   | 7                   | 0                   | 14,461              | 3,808               |
| Status       | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            |
| VST          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RES          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| APP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RFA          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 3,809               |                     |
| PER          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 3,229               |                     |
| RLP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RVP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| CER          |                     |                     | 12                  |                     |                     |                     |                     |                     | 7                   |                     | 11,231              |                     |
| DEC          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b> | 0                   | 0                   | 12                  | 0                   | 0                   | 0                   | 0                   | 0                   | 7                   | 0                   | 18,269              | 0                   |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |

**Notes:** \*Annual Duty may not include all Decreed and Adjudicated appropriations.

### Hydrographic Basin Summary - By Manner of Use for Groundwater Sources (Study Corridor Basins)

| Basin No.    | 171                 |                     | 172                 |                     | 173A                |                     | 173B                |                     | 180                 |                     | 181                 |                     |
|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|              | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty |
| COM          |                     |                     |                     |                     |                     |                     | 2                   |                     |                     |                     |                     |                     |
| CON          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| DOM          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| ENV          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IND          |                     |                     |                     |                     |                     |                     | 72                  |                     |                     |                     |                     |                     |
| IRC          |                     |                     |                     | 3,200               |                     |                     |                     | 83,080              |                     |                     |                     |                     |
| IRD          |                     |                     |                     |                     |                     |                     | 4,800               | 23,040              |                     |                     |                     |                     |
| IRR          |                     |                     | 415                 |                     | 3,677               |                     | 19,523              |                     |                     |                     |                     |                     |
| MM           |                     |                     |                     |                     |                     |                     | 69                  |                     |                     |                     | 18                  |                     |
| MUN          |                     |                     |                     | 11,584              |                     |                     |                     | 95,568              |                     |                     |                     | 11,584              |
| PWR          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| QM           |                     |                     |                     |                     |                     |                     | 0                   |                     |                     |                     |                     |                     |
| REC          |                     |                     |                     |                     |                     |                     | 1,994               |                     |                     |                     |                     |                     |
| STK          | 38                  |                     | 39                  |                     | 205                 | 23                  | 172                 | 7                   | 35                  |                     | 38                  |                     |
| STO          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| WLD          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| OTH          |                     |                     |                     |                     | 9                   |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b> | 38                  | 0                   | 454                 | 14,784              | 3,890               | 23                  | 26,633              | 201,695             | 35                  | 0                   | 57                  | 11,584              |
| Status       | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            |
| VST          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RES          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| APP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RFA          |                     |                     | 14,784              |                     | 46                  |                     | 201,695             |                     |                     |                     | 11,584              |                     |
| PER          | 6                   |                     | 88                  |                     | 4                   |                     | 7,061               |                     | 22                  |                     |                     |                     |
| RLP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RVP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| CER          | 32                  |                     | 366                 |                     | 3,886               |                     | 19,572              |                     | 13                  |                     | 57                  |                     |
| DEC          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b> | 38                  | 0                   | 15,238              | 0                   | 3,936               | 0                   | 228,328             | 0                   | 35                  | 0                   | 11,640              | 0                   |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |

**Notes:** \*Annual Duty may not include all Decreed and Adjudicated appropriations.



**Hydrographic Basin Summary - By Manner of Use for Groundwater Sources (Study Corridor Basins)**

| Basin No.    | 182                 |                     | 196                 |                     | 197                 |                     | 198                 |                     | 199                 |                     | 200                 |                     |
|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|              | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty |
| COM          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| CON          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| DOM          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| ENV          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IND          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRC          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRD          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRR          |                     |                     |                     |                     |                     |                     |                     | 7,031               |                     | 1,661               |                     | 421                 |
| MM           |                     |                     |                     |                     | 65                  |                     |                     |                     |                     |                     |                     |                     |
| MUN          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| PWR          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| QM           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| REC          |                     |                     |                     |                     |                     |                     |                     | 10                  |                     |                     |                     | 4                   |
| STK          | 7                   |                     | 388                 |                     | 6                   |                     | 7                   |                     |                     |                     |                     |                     |
| STO          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| WLD          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| OTH          |                     |                     | 9                   |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b> | <b>7</b>            | <b>0</b>            | <b>397</b>          | <b>0</b>            | <b>71</b>           | <b>0</b>            | <b>7,048</b>        | <b>0</b>            | <b>1,661</b>        | <b>0</b>            | <b>425</b>          | <b>0</b>            |
| Status       | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            |
| VST          |                     |                     | 10                  | 10                  |                     |                     |                     |                     |                     |                     |                     |                     |
| RES          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| APP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RFA          |                     |                     |                     |                     |                     |                     | 28                  |                     |                     |                     |                     |                     |
| PER          |                     |                     |                     |                     | 65                  |                     | 11                  |                     |                     |                     | 140                 |                     |
| RLP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RVP          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| CER          | 7                   |                     | 377                 |                     | 6                   |                     | 7,036               |                     | 1,661               |                     | 285                 |                     |
| DEC          |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b> | <b>7</b>            | <b>0</b>            | <b>387</b>          | <b>10</b>           | <b>71</b>           | <b>0</b>            | <b>7,075</b>        | <b>0</b>            | <b>1,661</b>        | <b>0</b>            | <b>425</b>          | <b>0</b>            |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |

**Notes:** \*Annual Duty may not include all Decreed and Adjudicated appropriations.

## Hydrographic Basin Summary - By Manner of Use for Groundwater Sources (Study Corridor Basins)

| Basin No.    | 201                 |                     | 202                 |                     | 203*                                    |                     | 204                 |                     | 205                 |                     | 206                 |                     |
|--------------|---------------------|---------------------|---------------------|---------------------|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|              | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty                     | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty |
| COM          |                     |                     |                     |                     | 1,426                                   |                     |                     |                     | 1,103               |                     |                     |                     |
| CON          |                     |                     |                     |                     |   |                     |                     |                     |                     |                     |                     |                     |
| DOM          |                     |                     |                     |                     |   |                     | 905                 |                     | 104                 |                     |                     |                     |
| ENV          |                     |                     |                     |                     |   |                     |                     |                     | 40                  |                     |                     |                     |
| IND          |                     |                     |                     |                     |   |                     |                     |                     | 4,300               | 260                 |                     |                     |
| IRC          |                     |                     |                     |                     |   |                     |                     |                     |                     |                     |                     |                     |
| IRD          |                     |                     | 2,285               |                     | 2,039                                   |                     |                     |                     | 140                 |                     |                     |                     |
| IRR          | 978                 | 1,320               | 1,611               | 3,520               | 24,246                                  |                     | 3,042               |                     | 10,512              |                     |                     |                     |
| MM           |                     |                     | 490                 |                     | 3,871                                   |                     |                     |                     | 6                   |                     |                     |                     |
| MUN          |                     |                     | 1,536               | 23,167              | 1,344                                   |                     |                     |                     | 7,539               | 2,875               |                     |                     |
| PWR          |                     |                     |                     |                     |   |                     |                     |                     |                     |                     |                     |                     |
| QM           | 10                  |                     | 4                   |                     | 40                                      |                     | 502                 |                     | 4                   |                     |                     |                     |
| REC          |                     |                     |                     |                     |   |                     | 181                 |                     |                     |                     |                     |                     |
| STK          |                     |                     | 46                  |                     | 23                                      |                     | 99                  |                     | 11                  |                     |                     |                     |
| STO          |                     |                     |                     |                     |   |                     |                     |                     |                     |                     |                     |                     |
| WLD          |                     |                     | 1                   |                     | 1                                       |                     |                     |                     |                     |                     |                     |                     |
| OTH          |                     |                     |                     |                     | 421                                     |                     | 306                 |                     | 65                  |                     |                     |                     |
| <b>Total</b> | <b>988</b>          | <b>1,320</b>        | <b>5,973</b>        | <b>26,687</b>       | <b>33,410</b>                           | <b>0</b>            | <b>5,034</b>        | <b>0</b>            | <b>23,825</b>       | <b>3,135</b>        | <b>0</b>            | <b>0</b>            |
| Status       | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty                            | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            |
| VST          |                     |                     |                     |                     |   |                     |                     |                     |                     |                     |                     |                     |
| RES          |                     |                     |                     |                     |   |                     |                     |                     |                     |                     |                     |                     |
| APP          |                     |                     |                     |                     | 75                                      |                     |                     |                     |                     |                     |                     |                     |
| RFA          | 1,320               |                     | 26,687              |                     | 279                                     |                     |                     |                     | 8,679               |                     |                     |                     |
| PER          |                     |                     | 275                 |                     | 6,301                                   |                     | 2,248               |                     | 5,862               |                     |                     |                     |
| RLP          |                     |                     |                     |                     | 1,699                                   |                     |                     |                     |                     |                     |                     |                     |
| RVP          |                     |                     |                     |                     |   |                     |                     |                     |                     |                     |                     |                     |
| CER          | 988                 |                     | 5,211               | 487                 | 19,769                                  | 3,871               | 2,480               |                     | 17,962              |                     |                     |                     |
| DEC          |                     |                     |                     |                     | 398                                     |                     | 306                 |                     |                     |                     |                     |                     |
| <b>Total</b> | <b>2,308</b>        | <b>0</b>            | <b>32,173</b>       | <b>487</b>          | <b>28,521</b>                           | <b>3,871</b>        | <b>5,034</b>        | <b>0</b>            | <b>32,503</b>       | <b>0</b>            | <b>0</b>            | <b>0</b>            |
|              |                     |                     |                     |                     | Geothermal (PERM) =                     | 1,371.80            |                     |                     |                     |                     |                     |                     |
|              |                     |                     |                     |                     | * Has note been supplementally adjusted |                     |                     |                     |                     |                     |                     |                     |

**Notes:** \*Annual Duty may not include all Decreed and Adjudicated appropriations.

**Hydrographic Basin Summary - By Manner of Use for Groundwater Sources (Study Corridor Basins)**

| Basin No.     | 207                 |                     | 208                 |                     | 209                 |                     | 221                 |                     | 222                 |                     | 225                 |                     |
|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Manner of Use | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty |
| COM           |                     |                     |                     |                     | 238                 |                     |                     |                     | 134                 |                     |                     |                     |
| CON           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| DOM           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| ENV           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IND           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRC           |                     | 41,760              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRD           | 1,783               | 50,240              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRR           | 27,249              | 1,561               |                     |                     | 6,842               | 20,428              |                     |                     | 591                 |                     |                     |                     |
| MM            |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 9                   |                     |
| MUN           |                     |                     |                     |                     | 874                 |                     | 2,100               |                     | 11,546              | 185,340             |                     |                     |
| PWR           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| QM            | 54                  |                     |                     |                     | 1                   |                     |                     |                     |                     |                     |                     |                     |
| REC           | 14                  |                     |                     |                     |                     |                     |                     |                     | 14                  |                     |                     |                     |
| STK           | 681                 | 167                 | 30                  |                     | 61                  |                     | 4                   |                     | 93                  |                     |                     |                     |
| STO           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| WLD           |                     |                     |                     |                     | 1,126               |                     |                     |                     |                     |                     |                     |                     |
| OTH           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b>  | <b>29,781</b>       | <b>93,728</b>       | <b>30</b>           | <b>0</b>            | <b>9,141</b>        | <b>20,428</b>       | <b>2,104</b>        | <b>0</b>            | <b>12,378</b>       | <b>185,340</b>      | <b>9</b>            | <b>0</b>            |
| Status        | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            |
| VST           |                     |                     |                     |                     | 48                  |                     |                     |                     | 27                  | 1                   |                     |                     |
| RES           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| APP           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RFA           | 93,728              |                     |                     |                     | 22,115              |                     |                     |                     | 185,340             |                     |                     |                     |
| PER           | 11,064              |                     | 22                  |                     | 2,211               |                     | 2,100               |                     | 134                 |                     | 9                   |                     |
| RLP           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RVP           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| CER           | 18,717              |                     | 7                   |                     | 6,881               |                     | 4                   |                     | 12,216              |                     |                     |                     |
| DEC           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b>  | <b>123,509</b>      | <b>0</b>            | <b>30</b>           | <b>0</b>            | <b>31,256</b>       | <b>0</b>            | <b>2,104</b>        | <b>0</b>            | <b>197,717</b>      | <b>1</b>            | <b>9</b>            | <b>0</b>            |
|               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |

**Notes:** \*Annual Duty may not include all Decreed and Adjudicated appropriations.

### Hydrographic Basin Summary - By Manner of Use for Groundwater Sources (Study Corridor Basins)

| Basin No.     | 226                 |                     | 227A                |                     | 227B                |                     | 228                 |                     | 229                 |                     | 230                 |                     |
|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Manner of Use | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty |
| COM           |                     |                     | 25                  |                     |                     |                     | 11                  |                     |                     |                     | 1,248               | 6                   |
| CON           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| DOM           |                     |                     | 16                  |                     |                     |                     |                     |                     |                     |                     | 3                   |                     |
| ENV           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IND           |                     |                     |                     | 5                   |                     |                     |                     |                     | 430                 |                     |                     |                     |
| IRC           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| IRD           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 2,312               |                     |
| IRR           |                     |                     |                     |                     |                     |                     | 75                  | 200                 |                     |                     | 18,161              | 800                 |
| MM            |                     |                     |                     |                     |                     |                     | 1                   |                     | 1,085               | 46                  | 1,631               | 27,068              |
| MUN           |                     |                     |                     |                     |                     |                     | 1,163               |                     |                     |                     | 877                 |                     |
| PWR           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| QM            |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 593                 | 2,856               |
| REC           |                     |                     |                     |                     |                     |                     | 50                  |                     |                     |                     |                     |                     |
| STK           |                     |                     | 17                  |                     |                     |                     | 2                   |                     |                     |                     |                     |                     |
| STO           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| WLD           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 9                   |                     |
| OTH           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b>  | 0                   | 0                   | 58                  | 5                   | 0                   | 0                   | 1,301               | 200                 | 1,516               | 46                  | 24,834              | 30,730              |
| Status        | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            |
| VST           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RES           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| APP           |                     |                     | 5                   |                     |                     |                     |                     |                     |                     |                     | 22                  |                     |
| RFA           |                     |                     |                     |                     |                     |                     | 200                 |                     | 46                  |                     | 32,529              |                     |
| PER           |                     |                     |                     |                     |                     |                     | 1,220               |                     | 860                 |                     | 6,988               |                     |
| RLP           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| RVP           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| CER           |                     |                     | 58                  |                     |                     |                     | 81                  |                     | 656                 |                     | 17,847              |                     |
| DEC           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| <b>Total</b>  | 0                   | 0                   | 63                  | 0                   | 0                   | 0                   | 1,501               | 0                   | 1,562               | 0                   | 57,385              | 0                   |
|               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |

**Notes:** \*Annual Duty may not include all Decreed and Adjudicated appropriations.

**Hydrographic Basin Summary - By Manner of Use for Groundwater Sources (Study Corridor Basins)**

| Basin No.    | 231                 |                     | 232                 |                     |
|--------------|---------------------|---------------------|---------------------|---------------------|
|              | *Active Annual Duty | Pending Annual Duty | *Active Annual Duty | Pending Annual Duty |
| COM          |                     |                     |                     |                     |
| CON          |                     |                     |                     |                     |
| DOM          |                     |                     |                     |                     |
| ENV          |                     |                     |                     |                     |
| IND          |                     |                     |                     |                     |
| IRC          |                     |                     |                     |                     |
| IRD          |                     |                     |                     |                     |
| IRR          |                     |                     | 11                  |                     |
| MM           |                     |                     | 228                 |                     |
| MUN          |                     |                     |                     |                     |
| PWR          |                     |                     |                     |                     |
| QM           |                     |                     |                     |                     |
| REC          |                     |                     |                     |                     |
| STK          | 12                  |                     | 9                   |                     |
| STO          |                     |                     |                     |                     |
| WLD          |                     |                     |                     |                     |
| OTH          |                     |                     |                     |                     |
| <b>Total</b> | <b>12</b>           | <b>0</b>            | <b>248</b>          | <b>0</b>            |
| Status       | *Annual Duty        | Other GW            | *Annual Duty        | Other GW            |
| VST          |                     |                     |                     |                     |
| RES          |                     |                     |                     |                     |
| APP          |                     |                     |                     |                     |
| RFA          |                     |                     |                     |                     |
| PER          |                     |                     |                     |                     |
| RLP          |                     |                     |                     |                     |
| RVP          |                     |                     |                     |                     |
| CER          | 12                  |                     | 237                 | 11                  |
| DEC          |                     |                     |                     |                     |
| <b>Total</b> | <b>12</b>           | <b>0</b>            | <b>237</b>          | <b>11</b>           |
|              |                     |                     |                     |                     |
|              |                     |                     |                     |                     |
|              |                     |                     |                     |                     |

**Notes:** \*Annual Duty may not include all Decreed and Appropriated appropriations.

# Appendix C



### Hydrographic Basin Abstracts - CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|--------|------|----|
| 141   | V05126 |       | 5/29/1990  | VST  | SPR | NE | NE  | 4N 45E 32 | 0.010 | STK |     | 0     | 0.51   | MGS  | NY |
| 141   | V05125 |       | 5/29/1990  | VST  | SPR | NE | NE  | 4N 45E 30 | 0.010 | STK |     | 0     | 0.51   | MGS  | NY |
| 141   | 54326  | 15434 | 1/11/1990  | CER  | SPR | NW | NW  | 4N 45E 07 | 0.005 | STK |     | 0     | 0.82   | MGS  | NY |
| 141   | 54324  | 15432 | 1/11/1990  | CER  | SPR | SW | NE  | 4N 44E 13 | 0.003 | STK |     | 0     | 0.71   | MGS  | NY |
| 141   | 54323  | 15431 | 1/11/1990  | CER  | SPR | NW | NW  | 4N 44E 12 | 0.005 | STK |     | 0     | 0.82   | MGS  | NY |
| 141   | 7929   | 8512  | 11/12/1926 | CER  | OSW | SE | SE  | 4N 44E 31 | 0.060 | STK |     | 0     | 9.72   | MGS  | NY |
| 141   | 6189   | 1035  | 6/29/1920  | CER  | SPR | NW | NW  | 4N 44E 12 | 0.010 | STK |     | 0     | 2.38   | MGS  | NY |
| 149   | V01564 |       | 5/18/1918  | VST  | SPR | NE | NW  | 6N 47E 01 | 0.000 | STK |     | 0     | 0.06   | MGS  | NY |
| 170   | 55322  | 14606 | 9/25/1990  | CER  | SPR | NW | NE  | 5S 53E 17 | 0.006 | WLD |     | 0     | 1.46   | MGA  | NY |
| 170   | 55321  | 14605 | 9/25/1990  | CER  | SPR | SW | SW  | 5S 53E 08 | 0.010 | WLD |     | 0     | 2.92   | MGA  | NY |
| 181   | V01297 |       | 2/21/1914  | VST  | SPR | SW | SE  | 4N 65E 30 | 0.000 | IRR |     | 0.4   | 1.6    | AFS  | LI |
| 181   | V01295 |       | 2/21/1914  | VST  | SPR | SE | NE  | 5N 65E 32 | 0.250 | IRR |     | 15.32 | 60     | AFS  | LI |
| 181   | V03840 |       | 2/1/1982   | VST  | SPR | SW | SW  | 3N 65E 30 | 0.000 | STK |     | 0     | 0.66   | MGS  | LI |
| 181   | V01135 |       | 9/30/1912  | VST  | SPR | SE | NE  | 2N 65E 36 | 0.030 | STK |     | 0     | 0.91   | MGS  | LI |
| 181   | V01134 |       | 9/30/1912  | VST  | SPR | SW | NW  | 2N 66E 31 | 0.030 | STK |     | 0     | 1.28   | MGS  | LI |
| 204   | 49771  | 14088 | 3/18/1986  | CER  | OSW | NE | NE  | 5S 70E 24 | 0.006 | STK |     | 0     | 0.85   | MGS  | LI |
| 204   | 49770  | 14087 | 3/18/1986  | CER  | OSW | SE | NE  | 6S 70E 01 | 0.006 | STK |     | 0     | 0.85   | MGS  | LI |
| 207   | 3235   | 1872  | 1/11/1915  | CER  | STR | SW | NW  | 6N 61E 17 | 1.220 | IRR |     | 122.2 | 443    | AFS  | NY |
| 207   | 3232   | 1869  | 1/11/1915  | CER  | STR | SE | NE  | 6N 61E 21 | 1.920 | IRR |     | 192.9 | 817.36 | AFS  | NY |
| 207   | 4818   | 1371  | 1/4/1918   | CER  | STR | NW | SW  | 6N 59E 23 | 0.810 | IRR |     | 81.59 | 297.29 | AFS  | NY |
| 207   | 2661   | 1868  | 3/14/1913  | CER  | STR | SE | NE  | 6N 61E 21 | 0.000 | IRR |     | 832.5 | 3330   | AFS  | NY |
| 207   | 408    | 195   | 3/21/1907  | CER  | SPR | NW | NW  | 6N 59E 17 | 0.700 | IRR |     | 70.61 | 282.44 | AFS  | NY |
| 207   | 8424   | 1790  | 1/5/1928   | CER  | SPR | NE | NW  | 6N 58E 09 | 0.005 | STK |     | 0     | 0.27   | MGS  | NY |
| 207   | 20465  | 6662  | 5/14/1962  | CER  | STR | NW | SW  | 6N 61E 10 | 0.000 | WLD |     | 0     | 680    | AFS  | NY |
| 208   | 9574   | 2205  | 3/18/1932  | CER  | RES | NE | NW  | 2S 61E 01 | 0.006 | STK |     | 0     | 0.93   | MGS  | LI |
| 173B  | 15653  | 5836  | 5/17/1954  | CER  | STR | SW | NW  | 6N 57E 29 | 0.800 | IRD |     | 24.29 | 97.18  | AFS  | NY |

### Hydrographic Basin Abstracts - CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP    | CERT | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|--------|------|------------|------|-----|----|-----|-----------|-------|-----|-----|--------|--------|------|----|
| 173B  | 13004  | 3902 | 8/4/1949   | CER  | STR | SE | NE  | 6N 57E 30 | 0.500 | IRR |     | 82.58  | 330    | AFS  | NY |
| 173B  | 11545  | 4798 | 4/9/1946   | CER  | STR | SW | SE  | 4N 55E 14 | 7.000 | IRR |     | 160    | 640    | AFS  | NY |
| 173B  | 11232  | 3011 | 1/10/1945  | CER  | STR | SE | NE  | 6N 57E 30 | 1.070 | IRR |     | 107.04 | 449.14 | AFS  | NY |
| 173B  | 10955  | 4104 | 5/10/1943  | CER  | STR | SE | NE  | 4N 55E 28 | 1.000 | IRD |     | 67.73  | 269    | AFS  | NY |
| 173B  | 6759   | 2207 | 9/8/1922   | CER  | STR | SE | SE  | 4N 56E 18 | 0.850 | IRR |     | 85.38  | 362    | AFS  | NY |
| 173B  | 4755   | 1110 | 12/4/1917  | CER  | STR | SE | SW  | 5N 57E 05 | 0.450 | IRR |     | 45.03  | 135.09 | AFS  | NY |
| 173B  | 2512   | 2841 | 9/23/1912  | CER  | STR | SE | NE  | 6N 57E 30 | 1.070 | IRR |     | 107.04 | 324    | AFS  | NY |
| 173B  | 1936   | 255  | 1/23/1911  | CER  | STR | SW | SW  | 5N 57E 05 | 0.130 | IRR |     | 13.1   | 39.3   | AFS  | NY |
| 173B  | 1468   | 200  | 10/20/1909 | CER  | SPR | SE | NW  | 5N 57E 30 | 0.110 | IRR |     | 0      | 49.03  | AFS  | NY |
| 173B  | 701    | 324  | 10/3/1907  | CER  | STR |    | SE  | 4N 55E 23 | 0.480 | IRR |     | 48     | 173.23 | AFS  | NY |
| 173B  | 10835  | 3046 | 6/11/1942  | CER  | STR | SE | NE  | 6N 57E 30 | 0.001 | STK |     | 0      | 0.15   | MGS  | NY |
| 173B  | 7937   | 1389 | 11/19/1926 | CER  | SPR | SW | NE  | 7N 58E 13 | 0.020 | STK |     | 0      | 3      | MGS  | NY |
| 149   | V02559 |      | 7/12/1966  | VST  | SPR | NW | SW  | 4N 48E 08 | 2.000 | IRR |     | 37.21  | 234.52 | AFS  | NY |
| 149   | V02552 |      | 10/5/1965  | VST  | SPR | SE | SW  | 4N 48E 08 | 2.000 | IRR |     | 37.21  | 234.52 | AFS  | NY |
| 149   | 5845   | 2155 | 11/7/1919  | CER  | STR | NW | SE  | 2N 49E 11 | 0.070 | IRR |     | 6.98   | 26     | AFS  | NY |
| 149   | 5343   | 1393 | 12/20/1918 | CER  | STR | SW | SE  | 2N 49E 12 | 0.250 | IRR |     | 25.43  | 77.04  | AFS  | NY |
| 149   | 4536   | 1067 | 8/1/1917   | CER  | STR | NW | NW  | 1N 49E 02 | 0.550 | IRR |     | 55.19  | 264.9  | AFS  | NY |
| 171   | 68839  |      | 5/24/2002  | PER  | SPR |    | LT3 | 1S 61E 06 | 0.006 | STK |     | 0      | 1.46   | MGS  | LI |
| 171   | 68838  |      | 5/24/2002  | PER  | SPR |    | LT3 | 1S 61E 06 | 0.006 | STK |     | 0      | 0      | MGS  | LI |



### Hydrographic Basin Abstracts - CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR  | TRS        | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|------|------------|-------|-----|-----|-------|-------|------|----|
| 172   | 9592   | 2156  | 5/31/1932  | CER  | STR | NE | SE   | 3N 57E 07  | 0.100 | IRR |     | 10    | 36    | AFS  | NY |
| 181   | 51776  | 13590 | 1/20/1988  | CER  | SPR | NW | SE   | 1N 65E 22  | 0.010 | STK |     | 0     | 0.3   | MGS  | LI |
| 181   | 10120  | 2356  | 5/17/1937  | CER  | SPR | NW | NE   | 1N 65E 23  | 0.020 | STK |     | 0     | 1.7   | MGS  | LI |
| 181   | 10119  | 2355  | 5/17/1937  | CER  | SPR | NE | SW   | 1N 65E 22  | 0.020 | STK |     | 0     | 1.7   | MGS  | LI |
| 181   | 5356   | 526   | 1/16/1919  | CER  | SPR | SE | NW   | 1N 65E 11  | 0.000 | STK |     | 0     | 0.05  | MGS  | LI |
| 204   | 4234   | 863   | 12/1/1916  | CER  | SPR | SE | SW   | 5S 69E 17  | 0.001 | STK |     | 0     | 0.08  | MGS  | LI |
| 204   | 4233   | 862   | 12/1/1916  | CER  | SPR | NE | SE   | 5S 69E 20  | 0.002 | STK |     | 0     | 0.28  | MGS  | LI |
| 204   | 4232   | 861   | 12/1/1916  | CER  | SPR | NW | NW   | 5S 69E 16  | 0.002 | STK |     | 0     | 0.19  | MGS  | LI |
| 207   | 56658  |       | 8/9/1991   | PER  | UG  |    | SW   | 6N 61E 09  | 0.010 | REC |     | 9.33  | 14.42 | AFA  | NY |
| 207   | V02429 |       | 9/11/1957  | VST  | OSW |    | NE   | 5N 60E 14  | 5.000 | STK |     | 0     | 3.65  | MGS  | NY |
| 207   | V02232 |       | 4/22/1931  | VST  | OSW |    |      | 5N 60E 14  | 0.250 | STK |     | 0     | 24.57 | MGS  | NY |
| 207   | 5486   | 1977  | 5/5/1919   | CER  | OSW | NE | NE   | 5N 60E 23  | 1.530 | IRR |     | 153.7 | 370   | AFS  | NY |
| 207   | 23624  | 7468  | 1/20/1967  | CER  | STR |    | LT03 | 5N 61E 06  | 2.400 | WLD |     | 0     | 1120  | AFS  | NY |
| 208   | 12510  | 4389  | 6/18/1948  | CER  | SPR | SW | NW   | 2S 63E 29  | 0.001 | STK |     | 0     | 0.31  | MGS  | LI |
| 208   | 6497   | 1020  | 6/22/1921  | CER  | SPR | NE | NW   | 2S 62E 24  | 0.006 | STK |     | 0     | 0.54  | MGS  | LI |
| 228   | 25628  | 8454  | 5/22/1970  | CER  | SPR | SW | SE   | 11S 46E 26 | 0.005 | QM  |     | 0     | 1.2   | MGA  | NY |
| 228   | 1197   | 420   | 11/27/1908 | CER  | SPR | SE | SE   | 12S 47E 06 | 0.080 | IRR |     | 8     | 29.19 | AFS  | NY |
| 141   | 45977  | 11452 | 7/23/1982  | CER  | UG  | SE | SE   | 4N 43E 16  | 0.009 | STK |     | 0     | 1.18  | MGS  | NY |
| 141   | 43015  | 10696 | 12/26/1980 | CER  | UG  | SW | SE   | 3N 44E 16  | 0.009 | STK |     | 0     | 1.17  | MGS  | NY |
| 141   | 21270  | 6931  | 5/14/1963  | CER  | UG  | NW | NW   | 4N 44E 05  | 0.060 | STK |     | 0     | 9.44  | MGS  | NY |
| 141   | 11066  | 3016  | 2/14/1944  | CER  | UG  | SW | NE   | 3N 43E 17  | 0.003 | STK |     | 0     | 0.37  | MGS  | NY |
| 141   | 54328  | 15436 | 1/11/1990  | CER  | SPR | SW | SE   | 4N 44E 01  | 0.005 | STK |     | 0     | 1.18  | MGA  | NY |

### Hydrographic Basin Abstracts - CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|------|------|----|
| 141   | 5981   | 592   | 2/10/1920  | CER  | SPR | SW | SW  | 4N 45E 19  | 0.003 | STK |     | 0     | 0.37 | MGA  | NY |
| 141   | 5980   | 591   | 2/10/1920  | CER  | SPR | SE | SE  | 4N 45E 19  | 0.003 | STK |     | 0     | 0.71 | MGA  | NY |
| 141   | 5979   | 590   | 2/10/1920  | CER  | SPR | SE | SE  | 4N 45E 32  | 0.003 | STK |     | 0     | 2.17 | AFA  | NY |
| 141   | 5799   | 858   | 10/8/1919  | CER  | SPR | NW | SE  | 4N 45E 12  | 0.001 | STK |     | 0     | 0.72 | AFA  | NY |
| 141   | 5798   | 857   | 10/8/1919  | CER  | SPR | SE | NE  | 3N 45E 03  | 0.001 | STK |     | 0     | 7.23 | AFA  | NY |
| 144   | V09399 |       | 7/30/2003  | VST  | UG  | NW | NE  | 5S 41E 26  | 0.000 | STK |     | 0     | 0    | AFA  | ES |
| 144   | 44689  | 11442 | 10/26/1981 | CER  | UG  | NW | SW  | 5S 40E 11  | 0.001 | STK |     | 0     | 0.24 | MGA  | ES |
| 144   | 45465  | 12984 | 3/24/1982  | CER  | SPR | NW | NW  | 6S 40E 23  | 0.008 | STK |     | 0     | 1.83 | MGA  | ES |
| 144   | 45465  | 12984 | 3/24/1982  | CER  | SPR | NW | NW  | 6S 40E 23  | 0.008 | STK |     | 0     | 1.83 | MGA  | ES |
| 144   | 29680  | 10606 | 9/29/1975  | CER  | SPR | SW | NW  | 5S 40E 35  | 0.030 | STK |     | 0     | 4.53 | MGA  | ES |
| 144   | 29680  | 10606 | 9/29/1975  | CER  | SPR | SW | NW  | 5S 40E 35  | 0.030 | STK |     | 0     | 4.53 | MGA  | ES |
| 144   | 29675  | 8924  | 9/25/1975  | CER  | SPR | SW | SE  | 6S 40E 22  | 0.006 | STK |     | 0     | 1.32 | MGA  | ES |
| 144   | 29675  | 8924  | 9/25/1975  | CER  | SPR | SW | SE  | 6S 40E 22  | 0.006 | STK |     | 0     | 1.32 | MGA  | ES |
| 144   | 13656  | 4681  | 3/14/1951  | CER  | SPR | SE | SE  | 6S 40E 01  | 0.006 | STK |     | 0     | 1.46 | MGA  | ES |
| 144   | 13656  | 4681  | 3/14/1951  | CER  | SPR | SE | SE  | 6S 40E 01  | 0.006 | STK |     | 0     | 1.46 | MGA  | ES |
| 144   | 13655  | 4680  | 3/14/1951  | CER  | SPR | SW | SE  | 6S 40E 12  | 0.006 | STK |     | 0     | 1.46 | MGA  | ES |
| 144   | 13655  | 4680  | 3/14/1951  | CER  | SPR | SW | SE  | 6S 40E 12  | 0.006 | STK |     | 0     | 1.46 | MGA  | ES |
| 144   | V00742 |       | 5/10/1909  | VST  | SPR |    | SW  | 5S 40E 36  | 0.000 | OTH |     | 0     | 0    |      | ES |
| 144   | V00742 |       | 5/10/1909  | VST  | SPR |    | SW  | 5S 40E 36  | 0.000 | OTH |     | 0     | 0    |      | ES |
| 145   | 13289  | 4171  | 3/6/1950   | CER  | UG  | SE | SW  | 4S 45E 36  | 0.007 | STK |     | 0     | 1.58 | MGA  | NY |
| 145   | 13284  | 4169  | 3/6/1950   | CER  | UG  | NE | SE  | 4S 45E 15  | 0.010 | STK |     | 0     | 2.26 | MGA  | NY |
| 145   | 12784  | 4167  | 12/31/1948 | CER  | SPR | SW | NW  | 3S 46E 05  | 0.010 | STK |     | 0     | 2.26 | MGA  | NY |
| 145   | 5929   | 848   | 1/2/1920   | CER  | SPR | SW | NW  | 3S 46E 05  | 0.020 | STK |     | 0     | 5.9  | MGA  | NY |
| 146   | 4062   | 1184  | 7/17/1916  | CER  | UG  | SE | NW  | 11S 45E 22 | 0.004 | STK |     | 0     | 0.63 | MGS  | NY |
| 149   | 43621  | 11958 | 4/27/1981  | CER  | UG  | NE | SW  | 3N 46E 10  | 0.009 | STK |     | 0     | 0.97 | MGS  | NY |
| 149   | V04560 |       | 4/2/1986   | VST  | SPR | SW | SW  | 6N 49E 35  | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 149   | V03351 |       | 5/23/1980  | VST  | SPR | NW | SE  | 4N 46E 16  | 0.010 | STK |     | 0     | 1.53 | MGA  | NY |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 149   | V03350 |      | 5/23/1980  | VST  | SPR | NW | SE  | 4N 46E 16 | 0.010 | STK |     | 0     | 1.53 | MGA  | NY |
| 149   | V03349 |      | 5/23/1980  | VST  | SPR | NE | SE  | 5N 46E 33 | 0.010 | STK |     | 0     | 1.53 | MGA  | NY |
| 149   | V03348 |      | 5/23/1980  | VST  | SPR | SW | SE  | 5N 46E 33 | 0.010 | STK |     | 0     | 1.53 | MGA  | NY |
| 149   | V03347 |      | 5/23/1980  | VST  | SPR | SE | SW  | 5N 46E 33 | 0.010 | STK |     | 0     | 1.53 | MGA  | NY |
| 149   | V03346 |      | 5/23/1980  | VST  | SPR | SE | SW  | 5N 46E 33 | 0.010 | STK |     | 0     | 1.53 | MGA  | NY |
| 149   | V03345 |      | 5/15/1980  | VST  | SPR | NW | NW  | 4N 46E 35 | 0.010 | STK |     | 0     | 1.53 | MGA  | NY |
| 149   | V03344 |      | 5/15/1980  | VST  | SPR | NE | SW  | 4N 46E 26 | 0.010 | STK |     | 0     | 1.53 | MGA  | NY |
| 149   | 4318   | 7189 | 2/17/1917  | CER  | SPR | SW | SE  | 6N 47E 25 | 0.020 | STK |     | 0     | 5.9  | MGA  | NY |
| 149   | 4317   | 7187 | 2/17/1917  | CER  | SPR | NE | NW  | 5N 47E 13 | 0.020 | STK |     | 0     | 5.9  | MGA  | NY |
| 149   | 4316   | 7186 | 2/17/1917  | CER  | SPR | SW | NW  | 5N 47E 26 | 0.020 | STK |     | 0     | 5.9  | MGA  | NY |
| 149   | 12037  | 3513 | 10/11/1947 | CER  | SPR | SW | SE  | 6N 49E 15 | 0.004 | STK |     | 0     | 0.8  | MGA  | NY |
| 149   | 5925   | 790  | 12/26/1919 | CER  | SPR | SW | SE  | 6N 49E 22 | 0.000 | STK |     | 0     | 0.29 | AFA  | NY |
| 149   | 4689   | 794  | 11/9/1917  | CER  | SPR | SE | SE  | 6N 49E 04 | 0.010 | STK |     | 0     | 2.83 | MGA  | NY |
| 156   | 12597  | 3892 | 8/24/1948  | CER  | UG  | NE | SW  | 8N 51E 34 | 0.010 | STK |     | 0     | 3.65 | MGA  | NY |
| 156   | 12447  | 3495 | 5/13/1938  | CER  | UG  | SW | SW  | 6N 50E 20 | 0.003 | STK |     | 0     | 0.71 | MGA  | NY |
| 156   | 12598  | 3834 | 8/24/1948  | CER  | SPR | NE | NW  | 6N 51E 05 | 0.009 | STK |     | 0     | 2.12 | MGA  | NY |
| 156   | 12446  | 3494 | 5/13/1948  | CER  | SPR | SW | SE  | 7N 50E 19 | 0.003 | STK |     | 0     | 0.71 | MGA  | NY |
| 156   | 12039  | 3514 | 10/11/1947 | CER  | SPR | SE | NE  | 6N 49E 23 | 0.003 | STK |     | 0     | 0.8  | MGA  | NY |
| 156   | 12038  | 3520 | 10/11/1947 | CER  | SPR | NE | NW  | 6N 49E 23 | 0.003 | STK |     | 0     | 0.8  | MGA  | NY |
| 170   | 23218  | 6922 | 7/5/1966   | CER  | UG  | SW | SW  | 3S 54E 24 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 170   | 23217  | 6891 | 7/5/1966   | CER  | UG  | SW | SW  | 4S 55E 02 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 170   | 23216  | 6890 | 7/5/1966   | CER  | UG  | SE | NE  | 4S 54E 12 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 170   | 12541  | 3216 | 7/15/1948  | CER  | UG  | NE | NW  | 3S 54E 25 | 0.008 | STK |     | 0     | 1.82 | MGA  | LI |
| 170   | 12540  | 3215 | 7/15/1948  | CER  | UG  | NW | SW  | 4S 55E 04 | 0.010 | STK |     | 0     | 2.92 | MGA  | LI |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 170   | 11694  | 3441  | 9/17/1946  | CER  | UG  | NW | SE  | 3S 56E 29 | 0.008 | STK |     | 0     | 0.32 | MGS  | LI |
| 170   | 11335  | 2951  | 7/16/1945  | CER  | UG  | SE | SW  | 3S 56E 16 | 0.008 | STK |     | 0     | 1.82 | MGA  | LI |
| 170   | 11332  | 2949  | 7/16/1945  | CER  | UG  | SW | SE  | 3S 55E 23 | 0.009 | STK |     | 0     | 2.19 | MGA  | LI |
| 170   | 3364   | 1984  | 4/24/1915  | CER  | UG  | NW | SE  | 5S 55E 05 | 0.002 | STK |     | 0     | 0.54 | MGA  | LI |
| 170   | 23225  | 6897  | 7/5/1966   | CER  | STR | NE | NW  | 2S 56E 31 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 170   | 3888   | 689   | 4/12/1916  | CER  | SPR | NE | NE  | 5S 54E 02 | 0.001 | STK |     | 0     | 0.36 | MGA  | NY |
| 170   | 12044  | 3454  | 10/14/1947 | CER  | SPR | NE | NE  | 5S 52E 01 | 0.007 | STK |     | 0     | 1.71 | MGA  | NY |
| 170   | 11605  | 3258  | 6/12/1946  | CER  | SPR | NW | NE  | 5S 52E 14 | 0.006 | STK |     | 0     | 1.46 | MGA  | NY |
| 171   | 4665   | 1576  | 11/1/1917  | CER  | SPR | SE | SE  | 1N 61E 30 | 0.001 | STK |     | 0     | 0.06 | MGA  | LI |
| 181   | 35774  | 10871 | 8/18/1978  | CER  | UG  | NW | SE  | 3N 65E 21 | 0.000 | STK |     | 0     | 1.04 | MGA  | LI |
| 181   | 5936   | 854   | 1/5/1920   | CER  | UG  | SE | NW  | 5N 64E 14 | 0.030 | STK |     | 0     | 5.89 | MGA  | LI |
| 181   | V01302 |       | 2/21/1914  | VST  | SPR | NE | SE  | 4N 65E 33 | 0.130 | STK |     | 0     | 1.46 | MGA  | LI |
| 181   | V01301 |       | 2/21/1914  | VST  | SPR | NE | NE  | 5N 64E 18 | 0.040 | STK |     | 0     | 1.1  | MGA  | LI |
| 181   | V01299 |       | 3/10/1914  | VST  | SPR | NW | SW  | 4N 65E 29 | 0.010 | STK |     | 0     | 1.46 | MGA  | LI |
| 181   | V01287 |       | 11/6/1913  | VST  | SPR | NW | SW  | 4N 65E 15 | 0.010 | STK |     | 0     | 1.83 | MGA  | LI |
| 181   | V01250 |       | 6/8/1913   | VST  | SPR | SE | SE  | 2N 65E 24 | 0.010 | STK |     | 0     | 0.45 | MGA  | LI |
| 181   | V01027 |       | 3/10/1911  | VST  | SPR | NW | NW  | 4N 65E 16 | 0.010 | STK |     | 0     | 2.59 | MGA  | LI |

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 181   | 52109 | 13781 | 5/18/1988  | CER  | SPR | SE | SE  | 4S 64E 25 | 0.010 | STK |     | 0     | 2.12 | MGA  | LI |
| 181   | 52108 | 13780 | 5/18/1988  | CER  | SPR | SW | NW  | 4S 65E 29 | 0.010 | STK |     | 0     | 3.07 | MGA  | LI |
| 181   | 52107 | 13779 | 5/18/1988  | CER  | SPR | NW | NW  | 4S 65E 16 | 0.000 | STK |     | 0     | 0.47 | MGA  | LI |
| 181   | 36180 | 10223 | 11/20/1978 | CER  | SPR | SE | SE  | 4N 65E 26 | 0.010 | STK |     | 0     | 1.58 | MGA  | LI |
| 181   | 36179 | 10222 | 11/20/1978 | CER  | SPR | NE | NE  | 5N 64E 18 | 0.010 | STK |     | 0     | 1.89 | MGA  | LI |
| 181   | 35954 | 10220 | 10/3/1978  | CER  | SPR | NW | SW  | 4N 65E 15 | 0.000 | STK |     | 0     | 1.05 | MGA  | LI |
| 181   | 35952 | 10218 | 10/3/1978  | CER  | SPR | NW | SE  | 4N 65E 16 | 0.000 | STK |     | 0     | 1.05 | MGA  | LI |
| 181   | 35843 | 10288 | 9/6/1978   | CER  | SPR | NW | NE  | 5N 65E 21 | 0.000 | STK |     | 0     | 0.38 | MGA  | LI |
| 181   | 35771 | 10211 | 8/18/1978  | CER  | SPR | NW | SW  | 2N 64E 11 | 0.010 | STK |     | 0     | 1.06 | MGA  | LI |
| 181   | 35768 | 10210 | 8/18/1978  | CER  | SPR | NE | SE  | 4N 65E 35 | 0.010 | STK |     | 0     | 1.06 | MGA  | LI |
| 181   | 35767 | 10209 | 8/18/1978  | CER  | SPR | SE | NW  | 4N 65E 26 | 0.010 | STK |     | 0     | 1.58 | MGA  | LI |
| 181   | 35766 | 10208 | 8/18/1978  | CER  | SPR | NW | SE  | 4N 65E 26 | 0.010 | STK |     | 0     | 3.29 | MGA  | LI |
| 181   | 35764 | 10207 | 8/18/1978  | CER  | SPR | SE | NE  | 4N 65E 22 | 0.010 | STK |     | 0     | 1.06 | MGA  | LI |
| 181   | 35763 | 10206 | 8/18/1978  | CER  | SPR | NE | SE  | 4N 65E 22 | 0.010 | STK |     | 0     | 1.06 | MGA  | LI |
| 181   | 35762 | 10205 | 8/18/1978  | CER  | SPR | SE | SE  | 4N 65E 22 | 0.010 | STK |     | 0     | 1.06 | MGA  | LI |
| 181   | 35761 | 10204 | 8/18/1978  | CER  | SPR | NW | NW  | 4N 65E 26 | 0.010 | STK |     | 0     | 1.06 | MGA  | LI |
| 181   | 5200  | 1924  | 8/12/1918  | CER  | STR | SW | SE  | 4N 65E 26 | 0.060 | STK |     | 0     | 14.6 | MGA  | LI |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 181   | 4697   | 733   | 11/12/1917 | CER  | SPR | SW | SE  | 4S 65E 31 | 0.000 | STK |     | 0     | 0.35 | MGA  | LI |
| 181   | 4696   | 732   | 11/12/1917 | CER  | SPR | SE | SE  | 4S 65E 31 | 0.000 | STK |     | 0     | 0.71 | MGA  | LI |
| 197   | 13319  | 3955  | 3/17/1950  | CER  | UG  | SW | NW  | 1S 71E 17 | 0.004 | STK |     | 0     | 0.93 | MGA  | LI |
| 204   | 63248  | 15727 | 7/15/1997  | CER  | UG  | NE | SW  | 5S 70E 34 | 0.002 | STK |     | 0     | 0.53 | MGA  | LI |
| 204   | 44731  | 11963 | 10/29/1981 | CER  | UG  | SW | NE  | 5S 70E 31 | 0.010 | STK |     | 0     | 3.72 | MGA  | LI |
| 204   | 44730  | 12441 | 10/29/1981 | CER  | UG  | SW | SE  | 6S 68E 12 | 0.005 | STK |     | 0     | 1.46 | MGA  | LI |
| 204   | 44729  | 11962 | 10/29/1981 | CER  | UG  | NE | SW  | 5S 70E 34 | 0.030 | STK |     | 0     | 8.83 | MGA  | LI |
| 204   | 44710  | 11961 | 10/29/1981 | CER  | UG  | NW | SW  | 5S 70E 33 | 0.010 | STK |     | 0     | 3.72 | MGA  | LI |
| 204   | 44709  | 11960 | 10/29/1981 | CER  | UG  | SE | NE  | 6S 69E 09 | 0.030 | STK |     | 0     | 7.37 | MGA  | LI |
| 207   | 19472  | 5834  | 1/23/1961  | CER  | UG  | SE | SW  | 6N 59E 31 | 0.010 | STK |     | 0     | 3.68 | MGA  | NY |
| 207   | 19471  | 5833  | 1/23/1961  | CER  | UG  | NE | SE  | 6N 59E 32 | 0.010 | STK |     | 0     | 3.68 | MGA  | NY |
| 207   | 13341  | 4053  | 3/28/1950  | CER  | UG  | NW | NW  | 6N 62E 29 | 0.008 | STK |     | 0     | 1.29 | MGS  | NY |
| 207   | V01963 |       | 1/11/1926  | VST  | SPR | NE | NW  | 6N 62E 24 | 0.002 | STK |     | 0     | 4.38 | MGA  | LI |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 207   | V01962 |       | 1/11/1926  | VST  | SPR | NW | SE  | 6N 62E 35 | 0.002 | STK |     | 0     | 0.47 | MGA  | LI |
| 207   | 20329  | 5898  | 3/1/1962   | CER  | SPR | NW | SW  | 6N 61E 08 | 0.010 | STK |     | 0     | 3.72 | MGA  | WP |
| 207   | 8421   | 1791  | 1/5/1928   | CER  | SPR | NW | NW  | 6N 58E 02 | 0.004 | STK |     | 0     | 0.91 | MGA  | WP |
| 207   | 4819   | 702   | 1/4/1918   | CER  | SPR | NE | SE  | 6N 59E 32 | 0.020 | STK |     | 0     | 5.9  | MGA  | NY |
| 208   | 5970   | 932   | 2/2/1920   | CER  | SPR | NW | NW  | 3S 63E 05 | 0.010 | STK |     | 0     | 0.18 | MGA  | LI |
| 208   | 4720   | 675   | 11/19/1917 | CER  | RES | NW | NE  | 3S 61E 08 | 0.000 | STK |     | 0     | 1.95 | MGA  | LI |
| 228   | 13283  | 4664  | 3/6/1950   | CER  | SPR | NE | NE  | 8S 47E 10 | 0.010 | STK |     | 0     | 2.56 | MGA  | NY |
| 173B  | 47282  | 12327 | 9/30/1983  | CER  | UG  | NW | SE  | 5N 54E 14 | 0.030 | STK |     | 0     | 7.08 | MGA  | NY |
| 173B  | 28626  |       | 8/20/1974  | PER  | UG  | SW | NW  | 6N 56E 27 | 0.010 | STK |     | 0     | 3.65 | MGA  | NY |
| 173B  | 12738  | 3893  | 11/26/1948 | CER  | UG  | NW | SE  | 5N 54E 34 | 0.010 | STK |     | 0     | 1.95 | MGS  | NY |
| 173B  | 11926  | 3845  | 7/24/1947  | CER  | UG  | NE | SE  | 6N 54E 34 | 0.001 | STK |     | 0     | 0.24 | MGS  | NY |
| 173B  | V00736 |       | 8/5/1909   | VST  | SPR | SE | SW  | 5N 57E 31 | 0.000 | IRR |     | 60    | 0    |      | NY |
| 173B  | V02203 |       | 12/15/1928 | VST  | SPR | SE | SE  | 5N 56E 04 | 0.020 | STK |     | 0     | 2.92 | MGA  | NY |
| 173B  | 12668  | 4165  | 10/2/1948  | CER  | SPR | NW | SW  | 7N 59E 18 | 0.010 | STK |     | 0     | 2.55 | MGA  | NY |
| 173B  | 11200  | 3085  | 11/10/1944 | CER  | OSW | NW | NE  | 5N 54E 24 | 0.007 | STK |     | 0     | 1.82 | MGA  | NY |
| 173B  | 11199  | 3429  | 11/10/1944 | CER  | SPR | NE | SW  | 3N 55E 09 | 0.003 | STK |     | 0     | 0.73 | MGA  | NY |
| 173B  | 10866  | 3039  | 9/19/1942  | CER  | STR | SE | NE  | 4N 55E 28 | 0.010 | STK |     | 0     | 3.65 | MGA  | NY |
| 173B  | 9524   | 2244  | 9/4/1931   | CER  | OSW | NW | SW  | 5N 54E 34 | 0.020 | STK |     | 0     | 4.72 | MGA  | NY |
| 173B  | 9465   | 2533  | 6/2/1931   | CER  | STR | SE | SW  | 5N 57E 05 | 0.060 | STK |     | 0     | 14.6 | MGA  | NY |
| 173B  | 9085   | 2208  | 10/11/1929 | CER  | SPR | NW | SW  | 4N 56E 08 | 0.003 | STK |     | 0     | 0.73 | MGA  | NY |

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| Basin | APP    | CERT | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 173B  | 8778   | 2243 | 12/15/1928 | CER  | STR | SW | SE  | 4N 55E 14 | 0.010 | STK |     | 0     | 3.77 | MGA  | NY |
| 173B  | 5663   | 950  | 8/9/1919   | CER  | SPR | NW | NE  | 6N 54E 12 | 0.020 | STK |     | 0     | 4.7  | MGA  | NY |
| 173B  | 5661   | 948  | 8/9/1919   | CER  | SPR | NE | SW  | 6N 54E 24 | 0.020 | STK |     | 0     | 4.7  | MGA  | NY |
| 141   | 7357   | 2253 | 5/6/1925   | CER  | SPR | NW | SE  | 2S 45E 13 | 0.001 | STK |     | 0     | 0.29 | MGA  | NY |
| 142   | 12365  | 3579 | 3/25/1948  | CER  | SPR | SE | NW  | 2N 42E 35 | 0.005 | STK |     | 0     | 1.28 | MGA  | ES |
| 144   | V01437 |      | 12/23/1915 | VST  | SPR | SE | SW  | 5S 41E 18 | 0.000 | STK |     | 0     | 0    |      | ES |
| 144   | V01437 |      | 12/23/1915 | VST  | SPR | SE | SW  | 5S 41E 18 | 0.000 | STK |     | 0     | 0    |      | ES |
| 144   | V04523 |      | 8/26/1985  | VST  | SPR | SE | SW  | 5S 41E 07 | 0.004 | STK |     | 0     | 0    |      | ES |
| 144   | V04523 |      | 8/26/1985  | VST  | SPR | SE | SW  | 5S 41E 07 | 0.004 | STK |     | 0     | 0    |      | ES |
| 144   | V04522 |      | 8/26/1985  | VST  | SPR | SE | SE  | 5S 41E 08 | 0.005 | STK |     | 0     | 0    |      | ES |
| 144   | V04522 |      | 8/26/1985  | VST  | SPR | SE | SE  | 5S 41E 08 | 0.005 | STK |     | 0     | 0    |      | ES |
| 144   | V04223 |      | 10/24/1984 | VST  | SPR | NE | SW  | 5S 41E 33 | 0.001 | STK |     | 0     | 0    |      | ES |
| 144   | V04223 |      | 10/24/1984 | VST  | SPR | NE | SW  | 5S 41E 33 | 0.001 | STK |     | 0     | 0    |      | ES |
| 144   | V04131 |      | 1/30/1984  | VST  | SPR | NW | NW  | 6S 40E 23 | 0.020 | STK |     | 0     | 0    |      | ES |
| 144   | V04131 |      | 1/30/1984  | VST  | SPR | NW | NW  | 6S 40E 23 | 0.020 | STK |     | 0     | 0    |      | ES |
| 144   | 29566  | 8847 | 8/8/1975   | CER  | SPR | NE | NW  | 5S 41E 06 | 0.010 | STK |     | 0     | 0    |      | ES |
| 144   | 29566  | 8847 | 8/8/1975   | CER  | SPR | NE | NW  | 5S 41E 06 | 0.010 | STK |     | 0     | 0    |      | ES |
| 144   | 25783  | 8702 | 9/4/1970   | CER  | SPR | SW | SE  | 6S 41E 07 | 0.002 | STK |     | 0     | 0    |      | ES |
| 144   | 25783  | 8702 | 9/4/1970   | CER  | SPR | SW | SE  | 6S 41E 07 | 0.002 | STK |     | 0     | 0    |      | ES |
| 144   | 6864   | 1130 | 2/17/1923  | CER  | SPR | SW | NE  | 5S 40E 36 | 0.006 | STK |     | 0     | 0    |      | ES |
| 144   | 6864   | 1130 | 2/17/1923  | CER  | SPR | SW | NE  | 5S 40E 36 | 0.006 | STK |     | 0     | 0    |      | ES |
| 145   | 8977   | 2201 | 6/30/1929  | CER  | OSW | SW | SW  | 5S 44E 01 | 0.003 | STK |     | 0     | 0.73 | MGA  | NY |
| 149   | V04770 |      | 4/4/1989   | VST  | SPR | SE | NE  | 2N 49E 24 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 149   | V04760 |      | 12/23/1988 | VST  | SPR | SW | NW  | 1N 49E 01 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 149   | V04681 |      | 5/27/1988  | VST  | SPR | SW | NW  | 2N 49E 14 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |



### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 149   | V04680 |       | 5/27/1988  | VST  | SPR | SW | NE  | 2N 49E 15 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 149   | V04679 |       | 5/27/1988  | VST  | SPR | SW | NW  | 2N 49E 13 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 149   | V04678 |       | 5/27/1988  | VST  | SPR | NW | SW  | 2N 49E 14 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 149   | V04677 |       | 5/27/1988  | VST  | SPR | NE | NW  | 2N 49E 23 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 149   | V02379 |       | 1/25/1951  | VST  | SPR | NW | NW  | 1N 49E 03 | 0.020 | STK |     | 0     | 5.84 | MGA  | NY |
| 149   | 52158  |       | 5/27/1988  | PER  | LAK | SW | SW  | 2N 49E 24 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 149   | 52157  | 15231 | 5/27/1988  | CER  | SPR | NE | NW  | 2N 49E 23 | 0.030 | STK |     | 0     | 7.3  | MGA  | NY |
| 149   | 52156  | 15230 | 5/27/1988  | CER  | SPR | NW | SW  | 2N 49E 14 | 0.030 | STK |     | 0     | 7.3  | MGA  | NY |
| 149   | 52155  | 15229 | 5/27/1988  | CER  | SPR | SW | NW  | 2N 49E 13 | 0.030 | STK |     | 0     | 7.3  | MGA  | NY |
| 149   | 52154  | 13887 | 5/27/1988  | CER  | SPR | SW | NW  | 2N 49E 14 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 149   | 52153  | 15228 | 5/27/1988  | CER  | SPR | SE | NW  | 2N 49E 15 | 0.030 | STK |     | 0     | 7.3  | MGA  | NY |
| 149   | 4315   | 7185  | 2/17/1917  | CER  | SPR | NW | NW  | 4N 47E 11 | 0.020 | STK |     | 0     | 5.9  | MGA  | NY |
| 156   | 13539  | 3696  | 11/16/1950 | CER  | UG  | SE | SW  | 5N 51E 11 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 156   | V04765 |       | 4/4/1989   | VST  | SPR | SE | NW  | 2N 49E 25 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 156   | V04764 |       | 4/4/1989   | VST  | SPR | SE | SE  | 2N 49E 26 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 156   | V04763 |       | 4/4/1989   | VST  | SPR | SW | NE  | 2N 49E 25 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 156   | V04682 |       | 5/27/1988  | VST  | LAK | SW | SW  | 2N 49E 24 | 0.000 | STK |     | 0     | 7.48 | MGA  | NY |

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 156   | 57382 | 15491 | 4/2/1992   | CER  | SPR | SE | NE  | 5N 49E 24 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 56994 | 16247 | 12/10/1991 | CER  | SPR | NE | NE  | 5N 49E 14 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52831 | 13095 | 12/22/1988 | CER  | SPR | NW | SE  | 1N 49E 12 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52830 | 13094 | 12/22/1988 | CER  | SPR | NW | NW  | 1N 49E 13 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52829 | 13093 | 12/22/1988 | CER  | SPR | SE | SW  | 1N 49E 12 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52828 | 13109 | 12/22/1988 | CER  | SPR | NE | NW  | 1N 50E 18 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52827 | 13108 | 12/22/1988 | CER  | SPR | SE | NE  | 1N 50E 18 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52826 | 13107 | 12/22/1988 | CER  | SPR | SE | SE  | 1N 50E 07 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52825 | 13106 | 12/22/1988 | CER  | SPR | SW | SE  | 1N 50E 07 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52824 | 13105 | 12/22/1988 | CER  | SPR | SE | SE  | 1N 50E 07 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52821 | 13103 | 12/22/1988 | CER  | SPR | NE | SE  | 1N 50E 06 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52820 | 13102 | 12/22/1988 | CER  | SPR | SE | SE  | 1N 50E 06 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52817 | 13092 | 12/22/1988 | CER  | SPR | SE | SE  | 1N 49E 01 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52816 | 13091 | 12/22/1988 | CER  | SPR | NE | SW  | 1N 49E 01 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52815 | 13090 | 12/22/1988 | CER  | SPR | NW | SW  | 1N 49E 01 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52814 | 13089 | 12/22/1988 | CER  | SPR | SW | NW  | 1N 49E 01 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|-------|------|----|
| 156   | 52813  | 13099 | 12/22/1988 | CER  | SPR | NW | SW  | 1N 50E 06 | 0.030 | STK |     | 0     | 7.48  | MGA  | NY |
| 156   | 52812  | 13088 | 12/22/1988 | CER  | SPR | SE | SW  | 2N 49E 36 | 0.030 | STK |     | 0     | 7.48  | MGA  | NY |
| 156   | 52811  | 13087 | 12/22/1988 | CER  | SPR | SW | NE  | 2N 49E 25 | 0.030 | STK |     | 0     | 7.48  | MGA  | NY |
| 156   | 52810  | 13086 | 12/22/1988 | CER  | SPR | SE | SE  | 2N 49E 26 | 0.030 | STK |     | 0     | 7.48  | MGA  | NY |
| 156   | 52809  | 13085 | 12/22/1988 | CER  | SPR | SE | NW  | 2N 49E 25 | 0.030 | STK |     | 0     | 7.48  | MGA  | NY |
| 156   | 52808  | 13098 | 12/22/1988 | CER  | SPR | SE | NE  | 2N 49E 24 | 0.030 | STK |     | 0     | 7.48  | MGA  | NY |
| 156   | 45382  | 15322 | 2/23/1982  | CER  | SPR | SW | NW  | 5N 49E 13 | 0.003 | STK |     | 0     | 0.78  | MGA  | NY |
| 156   | 13253  | 3522  | 2/3/1950   | CER  | STR | SW | SE  | 5N 51E 11 | 0.010 | STK |     | 0     | 2.37  | MGA  | NY |
| 156   | V01529 |       | 12/13/1917 | VST  | SPR | SE | SW  | 7N 49E 28 | 0.500 | STK |     | 0     | 0     | *    | NY |
| 156   | V04559 |       | 4/2/1986   | VST  | SPR | NW | SW  | 6N 49E 36 | 0.030 | STK |     | 0     | 0     |      | NY |
| 156   | V04558 |       | 4/2/1986   | VST  | SPR | SW | SW  | 6N 49E 25 | 0.030 | STK |     | 0     | 0     | *    | NY |
| 156   | V02076 |       | 3/27/1927  | VST  | SPR | SE | SW  | 7N 50E 24 | 0.000 | STK |     | 0     | 0     | *    | NY |
| 156   | 12692  | 3521  | 10/14/1948 | CER  | OSW | SE | NE  | 4S 51E 05 | 0.030 | STK |     | 0     | 0     |      | NY |
| 170   | 62607  |       | 11/20/1996 | PER  | UG  | NE | NW  | 3S 55E 36 | 0.220 | COM |     | 0     | 20.92 | MGA  | LI |
| 170   | 23233  | 6900  | 7/5/1966   | CER  | SPR | NW | NW  | 2S 57E 17 | 0.003 | STK |     | 0     | 0.73  | MGA  | LI |
| 170   | 23230  | 6903  | 7/5/1966   | CER  | STR | SE | SE  | 2S 56E 17 | 0.006 | STK |     | 0     | 1.46  | MGA  | LI |
| 170   | 23228  | 6901  | 7/5/1966   | CER  | STR | NE | NW  | 1S 56E 19 | 0.006 | STK |     | 0     | 1.46  | MGA  | LI |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 170   | 23227  | 6899  | 7/5/1966   | CER  | RES | SW | SE  | 1S 55E 35 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 170   | 23226  | 6898  | 7/5/1966   | CER  | STR | NW | NE  | 2S 55E 24 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 170   | 10438  |       | 11/8/1939  | PER  | SPR | SE | NW  | 2S 57E 27 | 0.020 | STK |     | 0     | 5.9  | MGA  | LI |
| 170   | 6070   | 776   | 4/26/1920  | CER  | SPR | NW | NW  | 3S 57E 24 | 0.007 | STK |     | 0     | 3.65 | MGA  | LI |
| 170   | 6068   | 775   | 4/26/1920  | CER  | SPR | SW | SE  | 2S 57E 28 | 0.007 | STK |     | 0     | 1.46 | MGA  | LI |
| 171   | 7915   | 2438  | 10/20/1926 | CER  | SPR | NE | NE  | 1N 61E 03 | 0.001 | STK |     | 0     | 0.2  | MGA  | LI |
| 171   | 7344   | 1284  | 4/26/1925  | CER  | SPR | NW | NW  | 1N 60E 36 | 0.010 | STK |     | 0     | 3.65 | MGA  | LI |
| 181   | V04697 |       | 9/16/1988  | VST  | SPR | NW | NW  | 1N 65E 35 | 0.050 | STK |     | 0     | 4.01 | MGA  | LI |
| 181   | V02351 |       | 9/8/1947   | VST  | SPR | SW | SE  | 4S 65E 14 | 0.020 | STK |     | 0     | 0.44 | MGA  | LI |
| 181   | 52106  | 13778 | 5/18/1988  | CER  | SPR | NW | NE  | 3S 65E 28 | 0.000 | STK |     | 0     | 0.47 | MGA  | LI |
| 181   | 52105  | 13777 | 5/18/1988  | CER  | SPR | NW | SE  | 3S 65E 21 | 0.000 | STK |     | 0     | 0.71 | MGA  | LI |
| 181   | 52104  | 13776 | 5/18/1988  | CER  | SPR | SW | NE  | 3S 65E 21 | 0.000 | STK |     | 0     | 0.15 | MGA  | LI |
| 181   | 52103  | 13775 | 5/18/1988  | CER  | SPR | SW | NW  | 2S 63E 22 | 0.010 | STK |     | 0     | 2.12 | MGA  | LI |
| 181   | 12840  | 4502  | 3/7/1949   | CER  | SPR | NE | SW  | 2S 63E 27 | 0.000 | STK |     | 0     | 0.53 | MGA  | LI |
| 181   | 12793  | 4501  | 1/8/1949   | CER  | SPR | NE | NW  | 2S 63E 27 | 0.010 | STK |     | 0     | 0.91 | MGA  | LI |
| 181   | 12512  | 4391  | 6/18/1948  | CER  | SPR | SW | SW  | 2S 63E 34 | 0.000 | STK |     | 0     | 0.49 | MGA  | LI |
| 181   | 12511  | 4390  | 6/18/1948  | CER  | SPR | NW | SE  | 2S 63E 32 | 0.000 | STK |     | 0     | 0.61 | MGA  | LI |

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| Basin | APP    | CERT | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 181   | 11033  | 3063 | 12/3/1943  | CER  | SPR | SE | NE  | 1N 66E 26 | 0.000 | STK |     | 0     | 0.73 | MGA  | LI |
| 181   | 9618   | 2107 | 8/11/1932  | CER  | OSW | NE | NW  | 3S 64E 11 | 0.010 | STK |     | 0     | 2.21 | MGA  | LI |
| 181   | 6803   | 971  | 10/23/1922 | CER  | SPR | NE | SW  | 1N 65E 22 | 0.000 | STK |     | 0     | 0.52 | MGA  | LI |
| 181   | 6094   | 1053 | 5/6/1920   | CER  | SPR | NE | SE  | 2S 63E 33 | 0.010 | STK |     | 0     | 2.12 | MGA  | LI |
| 181   | 4961   | 525  | 3/14/1918  | CER  | SPR | NW | NE  | 1N 65E 23 | 0.000 | STK |     | 0     | 0.71 | MGA  | LI |
| 181   | V01300 | 233  | 3/10/1914  | VST  | SPR | NW | SW  | 4N 65E 33 | 0.010 | STK |     | 0     | 0    |      | LI |
| 197   | 9739   | 2119 | 4/17/1934  | CER  | SPR | SW | SE  | 1S 71E 30 | 0.009 | STK |     | 0     | 2.19 | MGA  | LI |
| 204   | 6763   | 1650 | 9/16/1922  | CER  | SPR | SE | NW  | 4S 70E 33 | 0.020 | STK |     | 0     | 3.76 | MGA  | LI |
| 204   | V01122 | 179  | 7/6/1912   | VST  | SPR | SE | SW  | 6S 70E 12 | 0.010 | STK |     | 0     | 0    |      | LI |

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| Basin | APP    | CERT | DATE     | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|------|----------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 204   | V01103 | 176  | 6/4/1912 | VST  | SPR | NW | NE  | 7S 69E 02 | 0.020 | STK |     | 0     | 0    |      | LI |
| 204   | V01102 | 175  | 6/4/1912 | VST  | SPR | SW | NW  | 7S 69E 01 | 0.020 | STK |     | 0     | 0    |      | LI |
| 204   | V01101 | 174  | 6/4/1912 | VST  | SPR | NW | NE  | 6S 69E 28 | 0.020 | STK |     | 0     | 0    |      | LI |
| 204   | V01099 | 173  | 6/4/1912 | VST  | SPR | SW | SW  | 6S 69E 34 | 0.020 | STK |     | 0     | 0    |      | LI |

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| Basin | APP    | CERT  | DATE      | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|-----------|------|-----|----|-----|------------|-------|-----|-----|-------|------|------|----|
| 204   | V01098 | 172   | 6/4/1912  | VST  | SPR | NW | NW  | 7S 69E 03  | 0.020 | STK |     | 0     | 0    |      | LI |
| 204   | V01097 | 171   | 6/4/1912  | VST  | SPR | SW | SW  | 7S 69E 03  | 0.020 | STK |     | 0     | 0    |      | LI |
| 204   | V01095 | 170   | 6/4/1912  | VST  | SPR | SW | SE  | 6S 69E 27  | 0.020 | STK |     | 0     | 0    |      | LI |
| 208   | 11308  | 3187  | 6/6/1945  | CER  | SPR | SE | SW  | 2S 62E 24  | 0.002 | STK |     | 0     | 0.53 | MGA  | LI |
| 228   | 6083   | 1167  | 5/1/1920  | CER  | SPR | NW | SW  | 11S 46E 26 | 0.004 | STK |     | 0     | 0.91 | MGA  | NY |
| 228   | 5998   | 1166  | 2/27/1920 | CER  | SPR | SW | SE  | 11S 46E 26 | 0.004 | STK |     | 0     | 0.91 | MGA  | NY |
| 173A  | 46194  | 11458 | 10/7/1982 | CER  | SPR | SW | SW  | 1N 52E 07  | 0.003 | STK |     | 0     | 0.78 | MGA  | NY |
| 173A  | 13501  | 3621  | 9/21/1950 | CER  | SPR | NE | SW  | 1N 52E 22  | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 173A  | 5947   | 666   | 1/12/1920 | CER  | SPR | SE | NW  | 2N 52E 04  | 0.003 | STK |     | 0     | 0.71 | MGA  | NY |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|------|------|----|
| 173B  | 52146  | 15222 | 5/27/1988  | CER  | SPR | NW | SW  | 4N 53E 06  | 0.003 | STK |     | 0     | 0.78 | MGA  | NY |
| 173B  | 12529  | 4050  | 7/8/1948   | CER  | SPR | NE | SE  | 3N 54E 25  | 0.010 | STK |     | 0     | 3.72 | MGA  | NY |
| 173B  | 2902   | 287   | 3/5/1914   | CER  | SPR | NW | NW  | 3N 55E 30  | 0.020 | STK |     | 0     | 3.65 | MGA  | NY |
| 173B  | V02341 |       | 2/10/1947  | VST  | STR |    |     | 4N 55E 23  | 0.250 | STK |     | 0     | 0    |      | NY |
| 173B  | V02249 |       | 9/4/1931   | VST  | SPR | SW | NE  | 6N 54E 11  | 0.020 | STK |     | 0     | 0    |      | NY |
| 173B  | V02248 |       | 9/4/1931   | VST  | STR | NE | SW  | 5N 57E 05  | 1.000 | STK |     | 0     | 0    |      | NY |
| 173B  | V02247 |       | 9/4/1931   | VST  | SPR | NE | SW  | 6N 54E 23  | 0.100 | STK |     | 0     | 0    |      | NY |
| 173B  | 11829  | 3445  | 4/12/1947  | CER  | STR | SE | SW  | 6N 57E 27  | 0.850 | PWR |     | 0     | 0    | *    | NY |
| 227A  | 11120  | 3173  | 5/13/1944  | CER  | SPR | NW | NW  | 12S 51E 05 | 0.006 | STK |     | 0     | 1.42 | MGA  | NY |
| 141   | 13018  | 5896  | 8/8/1949   | CER  | UG  | SE | NE  | 1N 45E 19  | 0.010 | STK |     | 0     | 1.98 | MGS  | NY |
| 141   | 43360  | 11182 | 3/19/1981  | CER  | UG  | NW | NW  | 2N 44E 19  | 0.009 | STK |     | 0     | 0.97 | MGS  | NY |
| 141   | 25630  | 8095  | 5/25/1970  | CER  | UG  | NE | SW  | 3N 43E 36  | 0.050 | IND |     | 0     | 2.56 | MGA  | NY |
| 141   | 13228  | 7368  | 1/11/1950  | CER  | UG  | SW | SW  | 2N 45E 21  | 0.020 | STK |     | 0     | 3.67 | MGS  | NY |
| 141   | 1336   | 380   | 4/16/1909  | CER  | SPR | SE | NE  | 3N 45E 22  | 0.010 | IRR |     | 1     | 4    | AFA  | NY |
| 142   | 10237  | 2443  | 4/7/1938   | CER  | UG  | NW | SW  | 2S 42E 35  | 0.040 | MM  |     | 0     | 8.61 | MGA  | ES |
| 142   | 10124  | 2442  | 6/1/1937   | CER  | UG  | NW | NW  | 2S 42E 24  | 0.040 | MM  |     | 0     | 8.65 | MGA  | ES |
| 142   | 48262  | 12103 | 8/1/1984   | CER  | UG  | SE | NE  | 3S 42E 10  | 0.006 | STK |     | 0     | 1.42 | MGA  | ES |
| 142   | 44219  | 11583 | 7/31/1981  | CER  | UG  | NW | SW  | 2S 42E 35  | 0.010 | STK |     | 0     | 3.54 | MGA  | ES |
| 142   | 17450  | 5160  | 12/24/1957 | CER  | UG  | NE | NE  | 1S 42E 10  | 0.003 | STK |     | 0     | 0.73 | MGA  | ES |
| 142   | 13414  | 3580  | 6/13/1950  | CER  | UG  | NE | SW  | 2S 42E 26  | 0.008 | STK |     | 0     | 1.89 | MGA  | ES |
| 142   | 13113  | 4036  | 10/18/1949 | CER  | UG  | SE | NE  | 3S 42E 03  | 0.007 | STK |     | 0     | 1.64 | MGA  | ES |
| 142   | 44439  | 13629 | 9/17/1981  | CER  | UG  | NW | SW  | 2S 42E 35  | 0.020 | MM  |     | 0     | 2.34 | MGA  | ES |



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|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 142   | 9700   | 2439  | 10/2/1933  | CER  | UG  | SE | SE  | 1N 41E 26 | 0.001 | STK |     | 0     | 0.37 | MGS  | ES |
| 142   | V01207 | 141   | 1/17/1913  | VST  | SPR | SE | SE  | 3S 42E 03 | 0.010 | DOM |     | 0     | 0    |      | ES |
| 142   | 1147   | 46    | 10/16/1908 | CER  | SPR | SE | NE  | 2S 43E 28 | 0.020 | MM  |     | 0     | 5.9  | MGA  | ES |
| 142   | 4309   | 3128  | 2/17/1917  | CER  | SPR | NW | SW  | 2S 41E 36 | 0.001 | STK |     | 0     | 0    |      | ES |
| 142   | 13604  | 7095  | 1/16/1951  | CER  | SPR | NE | SW  | 2S 42E 33 | 0.005 | STK |     | 0     | 1.17 | MGA  | ES |
| 142   | 11112  | 3049  | 4/25/1944  | CER  | SPR | SE | NW  | 3S 42E 03 | 0.002 | STK |     | 0     | 0.37 | MGA  | ES |
| 142   | 7730   | 1542  | 4/26/1926  | CER  | SPR | SW | NE  | 2S 43E 28 | 0.005 | STK |     | 0     | 1.18 | MGA  | NY |
| 142   | 2395   | 126   | 4/1/1912   | CER  | SPR | SW | SW  | 3S 42E 02 | 0.005 | QM  |     | 0     | 1.06 | MGA  | ES |
| 142   | V01208 | 142   | 1/17/1913  | VST  | SPR | S2 | NE  | 1S 41E 26 | 0.100 | MM  |     | 0     | 0    |      | ES |
| 144   | 15885  | 4919  | 12/8/1954  | CER  | UG  | SW | SW  | 5S 43E 17 | 0.005 | DOM |     | 0     | 0    |      | ES |
| 144   | 48008  | 12005 | 4/30/1984  | CER  | UG  | NW | NW  | 5S 43E 20 | 0.010 | STK |     | 0     | 3.68 | MGA  | ES |
| 144   | 29674  | 8849  | 9/25/1975  | CER  | UG  | NE | SW  | 6S 43E 05 | 0.010 | STK |     | 0     | 2.36 |      | ES |
| 144   | 25976  | 8043  | 2/26/1971  | CER  | UG  | NE | NE  | 4S 43E 33 | 0.010 | STK |     | 0     | 2.36 | MGA  | NY |
| 144   | 11765  | 4034  | 2/4/1947   | CER  | UG  | NW | SE  | 6S 43E 05 | 0.009 | STK |     | 0     | 1.97 | MGA  | ES |
| 144   | 44375  | 13750 | 8/28/1981  | CER  | UG  | NE | NE  | 4S 43E 33 | 0.060 | MM  |     | 0     | 0.04 | MGA  | NY |
| 144   | 61321  |       | 6/19/1995  | PER  | UG  | SE | NW  | 6S 41E 06 | 0.500 | MM  |     | 0     | 0.36 | MGA  | ES |
| 144   | 29058  | 13630 | 12/17/1974 | CER  | UG  | NW | NW  | 6S 41E 06 | 0.070 | MM  |     | 0     | 1.78 | MGA  | ES |
| 144   | 9366   | 2304  | 11/4/1930  | CER  | UG  | NW | NW  | 6S 41E 06 | 0.030 | MM  |     | 0     | 7.3  | MGA  | ES |
| 144   | 46880  | 14192 | 5/5/1983   | CER  | SPR | SW | SE  | 6S 40E 22 | 0.010 | MM  |     | 0     | 2.59 | MGA  | ES |
| 144   | 46880  | 14192 | 5/5/1983   | CER  | SPR | SW | SE  | 6S 40E 22 | 0.010 | MM  |     | 0     | 2.59 | MGA  | ES |
| 144   | 45240  | 13632 | 1/18/1982  | CER  | SPR | NW | NW  | 6S 40E 23 | 0.010 | QM  |     | 0     | 0.18 | MGA  | ES |
| 144   | 45240  | 13632 | 1/18/1982  | CER  | SPR | NW | NW  | 6S 40E 23 | 0.010 | QM  |     | 0     | 0.18 | MGA  | ES |
| 144   | 26477  | 8707  | 1/14/1972  | CER  | SPR | SW | NW  | 5S 40E 35 | 0.050 | QM  |     | 0     | 2.56 | MGA  | ES |
| 144   | 26477  | 8707  | 1/14/1972  | CER  | SPR | SW | NW  | 5S 40E 35 | 0.050 | QM  |     | 0     | 2.56 | MGA  | ES |
| 144   | 9923   | 2507  | 12/21/1935 | CER  | SPR | SE | SW  | 6S 40E 22 | 0.010 | MM  |     | 0     | 0    |      | ES |
| 144   | 9923   | 2507  | 12/21/1935 | CER  | SPR | SE | SW  | 6S 40E 22 | 0.010 | MM  |     | 0     | 0    |      | ES |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR  | TRS        | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|------|------------|-------|-----|-----|-------|-------|------|----|
| 144   | 9657   | 2379  | 5/4/1933   | CER  | SPR | NW | SW   | 4S 41E 31  | 0.020 | MM  |     | 0     | 0     |      | ES |
| 144   | 9657   | 2379  | 5/4/1933   | CER  | SPR | NW | SW   | 4S 41E 31  | 0.020 | MM  |     | 0     | 0     |      | ES |
| 144   | 27     | 555X  | 12/20/1905 | CER  | SPR | SW | SE   | 5S 40E 36  | 1.000 | IRR |     | 3     | 9     | AFA  | ES |
| 144   | 27     | 555X  | 12/20/1905 | CER  | SPR | SW | SE   | 5S 40E 36  | 1.000 | IRR |     | 3     | 9     | AFA  | ES |
| 144   | 51301  | 12809 | 9/15/1987  | CER  | SPR | SE | SE   | 5S 40E 36  | 0.001 | DOM |     | 0     | 0.35  | MGA  | ES |
| 144   | 51301  | 12809 | 9/15/1987  | CER  | SPR | SE | SE   | 5S 40E 36  | 0.001 | DOM |     | 0     | 0.35  | MGA  | ES |
| 144   | 2089   | 238   | 6/5/1911   | CER  | SPR |    | LT03 | 5S 41E 07  | 1.000 | DOM |     | 0     | 0     |      | ES |
| 144   | 2089   | 238   | 6/5/1911   | CER  | SPR |    | LT03 | 5S 41E 07  | 1.000 | DOM |     | 0     | 0     |      | ES |
| 145   | 3909   | 1582  | 4/15/1916  | CER  | SPR | SW | SW   | 2S 43E 36  | 0.004 | STK |     | 0     | 0.8   | MGA  | NY |
| 145   | 3908   | 1581  | 4/15/1916  | CER  | SPR | SE | NW   | 2S 44E 31  | 0.004 | STK |     | 0     | 0.8   | MGA  | NY |
| 145   | 12362  | 3773  | 3/25/1948  | CER  | SPR | SE | SE   | 4S 44E 32  | 0.010 | STK |     | 0     | 2.3   | MGA  | NY |
| 146   | 14608  | 4878  | 11/3/1952  | CER  | UG  | NE | SW   | 8S 43E 23  | 0.040 | MM  |     | 0     | 10.61 | MGA  | NY |
| 146   | 58102  |       | 9/17/1992  | PER  | UG  | NW | SW   | 7S 44E 34  | 0.100 | QM  |     | 0     | 8.5   | AFA  | NY |
| 146   | 29175  | 9650  | 1/30/1975  | CER  | UG  | NE | NW   | 9S 46E 20  | 0.009 | STK |     | 0     | 2.12  | MGA  | NY |
| 146   | 29136  | 9627  | 1/13/1975  | CER  | UG  | SW | SE   | 9S 45E 34  | 0.009 | STK |     | 0     | 2.12  | MGA  | NY |
| 146   | 29135  | 9626  | 1/13/1975  | CER  | UG  | SW | NE   | 9S 46E 35  | 0.009 | STK |     | 0     | 2.12  | MGA  | NY |
| 146   | 11287  | 3142  | 5/14/1945  | CER  | UG  | SE | SE   | 8S 44E 11  | 0.005 | STK |     | 0     | 1.18  | MGA  | NY |
| 146   | 11082  | 3358  | 3/9/1944   | CER  | UG  | SE | SE   | 9S 46E 20  | 0.010 | STK |     | 0     | 3.77  | MGA  | NY |
| 146   | 11081  | 3357  | 3/9/1944   | CER  | UG  | NW | SW   | 9S 46E 36  | 0.010 | STK |     | 0     | 3.77  | MGA  | NY |
| 146   | 6726   | 1234  | 7/31/1922  | CER  | UG  | NW | SE   | 9S 46E 29  | 0.001 | STK |     | 0     | 0.24  | MGA  | NY |
| 146   | 48429  | 13619 | 9/21/1984  | CER  | UG  | NW | NW   | 7S 46E 25  | 0.220 | QM  |     | 0     | 4.54  | MGA  | NY |
| 146   | 12364  | 3769  | 3/25/1948  | CER  | UG  | NE | NE   | 7S 42E 26  | 0.010 | STK |     | 0     | 2.3   | MGA  | ES |
| 146   | 11285  | 3360  | 5/14/1945  | CER  | UG  | NW | NE   | 8S 43E 24  | 0.010 | STK |     | 0     | 1.26  | MGS  | NY |
| 146   | 11083  | 3359  | 3/9/1944   | CER  | UG  | NW | NW   | 10S 45E 17 | 0.010 | STK |     | 0     | 3.77  | MGA  | NY |
| 146   | 6534   | 1232  | 8/10/1921  | CER  | UG  | NE | SW   | 11S 46E 08 | 0.001 | STK |     | 0     | 0.24  | MGA  | NY |
| 146   | 4409   | 1194  | 4/25/1917  | CER  | UG  | SW | NW   | 11S 46E 08 | 0.009 | STK |     | 0     | 1.25  | MGS  | NY |
| 149   | V02364 |       | 8/25/1950  | VST  | UG  | SE | SE   | 1N 46E 31  | 0.040 | STK |     | 0     | 0     |      | NY |
| 149   | V02363 |       | 8/25/1950  | VST  | UG  | NE | NE   | 1N 47E 30  | 0.040 | STK |     | 0     | 8.02  | MGA  | NY |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 149   | 43016  | 10697 | 12/26/1980 | CER  | UG  | SW | NE  | 1N 46E 09 | 0.009 | STK |     | 0     | 1.17 | MGS  | NY |
| 149   | 43011  | 10695 | 12/26/1980 | CER  | UG  | SE | SE  | 1N 46E 31 | 0.009 | STK |     | 0     | 1.17 | MGA  | NY |
| 149   | 5341   | 1079  | 12/20/1918 | CER  | UG  | SW | SE  | 3N 49E 11 | 0.009 | STK |     | 0     | 2.12 | MGA  | NY |
| 149   | 5340   | 1078  | 12/20/1918 | CER  | UG  | SE | NW  | 3N 49E 13 | 0.009 | STK |     | 0     | 2.12 | MGA  | NY |
| 149   | 13229  | 5374  | 1/11/1950  | CER  | UG  | NW | SE  | 2N 46E 15 | 0.040 | STK |     | 0     | 6.14 | MGS  | NY |
| 149   | 21657  | 5761  | 11/22/1963 | CER  | UG  | NE | SW  | 3N 46E 10 | 0.100 | DOM |     | 0     | 0.79 | MGA  | NY |
| 149   | V03866 |       | 5/3/1982   | VST  | STR | NE | SE  | 4N 48E 34 | 0.010 | STK |     | 0     | 1.28 | MGS  | NY |
| 149   | V02385 |       | 4/12/1951  | VST  | RES | NE | NE  | 1S 46E 14 | 0.010 | STK |     | 0     | 0    |      | NY |
| 149   | V02362 |       | 8/25/1950  | VST  | STR | NE | SE  | 4N 48E 34 | 0.010 | STK |     | 0     | 2.19 | MGA  | NY |
| 149   | 52160  | 15232 | 5/27/1988  | CER  | SPR | NE | SE  | 3N 49E 36 | 0.005 | STK |     | 0     | 1.06 | MGA  | NY |
| 149   | 47796  |       | 3/14/1984  | PER  | STR | SE | NE  | 4N 48E 34 | 0.050 | STK |     | 0     | 3.5  | AFA  | NY |
| 149   | 47795  |       | 3/14/1984  | PER  | STR | NE | SE  | 4N 48E 34 | 0.050 | STK |     | 0     | 0.5  | AFA  | NY |
| 149   | 4313   | 7182  | 2/17/1917  | CER  | SPR | SE | NE  | 2N 47E 14 | 0.006 | STK |     | 0     | 1.46 | MGA  | NY |
| 149   | 11062  | 2892  | 2/1/1944   | CER  | SPR | NE | NW  | 3N 50E 06 | 0.004 | STK |     | 0     | 0.95 | MGA  | NY |
| 149   | 5339   | 1077  | 12/20/1918 | CER  | SPR | NE | SE  | 2N 49E 04 | 0.009 | STK |     | 0     | 2.12 | MGA  | NY |
| 149   | V02361 |       | 8/25/1950  | VST  | OSW | NW | NE  | 3N 48E 06 | 0.010 | STK |     | 0     | 0    |      | NY |
| 149   | 6835   | 1395  | 12/18/1922 | CER  | SPR | NE | NE  | 2N 49E 13 | 0.020 | MM  |     | 0     | 5.26 | MGA  | NY |
| 156   | 52145  | 15221 | 5/27/1988  | CER  | UG  | SW | SW  | 3N 51E 11 | 0.010 | STK |     | 0     | 3.68 | MGA  | NY |
| 156   | 49019  | 12965 | 4/29/1985  | CER  | UG  | SW | NW  | 5N 51E 07 | 0.030 | IND |     | 0     | 7.08 | MGA  | NY |
| 156   | 49018  | 12964 | 4/29/1985  | CER  | UG  | SE | NW  | 5N 51E 07 | 0.030 | IND |     | 0     | 7.08 | MGA  | NY |
| 156   | 23352  | 6873  | 8/25/1966  | CER  | UG  | NE | NW  | 5N 51E 19 | 0.002 | STK |     | 0     | 0.47 | MGA  | NY |
| 156   | 28909  | 9821  | 11/14/1974 | CER  | UG  | NW | NW  | 6N 50E 10 | 0.008 | MM  |     | 0     | 5.79 | AFA  | NY |
| 156   | 19261  | 5377  | 10/11/1960 | CER  | UG  | NE | NW  | 6N 51E 22 | 0.100 | DOM |     | 0     | 0.65 | MGA  | NY |

### Hydrographic Basin Abstracts - CRC Basins

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|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 156   | V04762 |       | 12/23/1988 | VST  | SPR |    |     | 2N 50E 36 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04754 |       | 12/23/1988 | VST  | SPR | SW | NW  | 1N 50E 05 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04752 |       | 12/23/1988 | VST  | SPR | SW | NE  | 1N 50E 05 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04751 |       | 12/23/1988 | VST  | SPR | SE | NW  | 1N 50E 04 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04676 |       | 5/27/1988  | VST  | SPR | SE | SE  | 1N 50E 08 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04675 |       | 5/27/1988  | VST  | SPR | SE | SE  | 1N 50E 16 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04674 |       | 5/27/1988  | VST  | SPR | NE | NW  | 1N 50E 21 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04673 |       | 5/27/1988  | VST  | SPR | NE | SW  | 1N 50E 20 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V03763 |       | 2/23/1982  | VST  | SPR | NW | NW  | 4N 49E 01 | 0.030 | STK |     | 0     | 0    | *    | NY |
| 156   | V02684 |       | 10/7/1970  | VST  | SPR | SW | SW  | 1N 50E 05 | 0.030 | STK |     | 0     | 0.24 | MGA  | NY |
| 156   | V02683 |       | 10/7/1970  | VST  | SPR | SW | SW  | 1N 50E 08 | 0.030 | STK |     | 0     | 0.24 | MGA  | NY |
| 156   | V02682 |       | 10/7/1970  | VST  | SPR | SE | SE  | 2N 50E 31 | 0.030 | STK |     | 0     | 0.24 | MGA  | NY |
| 156   | V02681 |       | 10/7/1970  | VST  | SPR | NE | SE  | 2N 50E 32 | 0.030 | STK |     | 0     | 0.24 | MGA  | NY |
| 156   | 52806  | 14127 | 12/22/1988 | CER  | SPR | NW | NE  | 2N 50E 21 | 0.002 | STK |     | 0     | 0.52 | MGA  | NY |
| 156   | 52162  | 15233 | 5/27/1988  | CER  | SPR | SW | SE  | 2N 50E 16 | 0.010 | STK |     | 0     | 4.2  | MGA  | NY |
| 156   | 52161  | 15258 | 5/27/1988  | CER  | SPR | NE | NW  | 2N 50E 04 | 0.001 | STK |     | 0     | 0.26 | MGA  | NY |
| 156   | 52152  | 15227 | 5/27/1988  | CER  | SPR | NW | NW  | 1N 50E 20 | 0.010 | STK |     | 0     | 3.68 | MGA  | NY |
| 156   | 52150  | 15225 | 5/27/1988  | CER  | SPR | NE | NW  | 1N 50E 21 | 0.010 | STK |     | 0     | 2.62 | MGA  | NY |

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|-------|--------|------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 156   | 20485  | 5739 | 5/24/1962  | CER  | SPR | SE | SE  | 1N 50E 10 | 0.010 | STK |     | 0     | 3.79 | MGA  | NY |
| 156   | 18731  | 5615 | 4/18/1960  | CER  | STR | NE | SE  | 4N 50E 20 | 0.500 | IRD |     | 10    | 40   | AFS  | NY |
| 156   | 16461  | 5048 | 5/6/1955   | CER  | SPR | SW | SW  | 4N 50E 20 | 0.500 | IRR |     | 7.5   | 30   | AFS  | NY |
| 156   | 12579  | 3430 | 8/17/1948  | CER  | SPR | NE | NW  | 4N 49E 01 | 0.010 | STK |     | 0     | 3.77 | MGA  | NY |
| 156   | 9895   | 4213 | 9/3/1935   | CER  | SPR | NW | SW  | 4N 50E 20 | 0.060 | IRR |     | 5.5   | 22   | AFA  | NY |
| 156   | 4547   | 1937 | 8/23/1917  | CER  | SPR | SE | NE  | 2N 50E 22 | 0.010 | STK |     | 0     | 1.82 | MGS  | NY |
| 156   | V05639 |      | 12/10/1991 | VST  | SPR | NE | NE  | 5N 49E 14 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04814 |      | 4/4/1989   | VST  | SPR | SE | NW  | 1N 50E 07 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04812 |      | 4/4/1989   | VST  | SPR | SW | SW  | 1N 49E 01 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04761 |      | 12/23/1988 | VST  | SPR | NW | SW  | 1N 50E 06 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04759 |      | 12/23/1988 | VST  | SPR | NW | SW  | 1N 49E 01 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04758 |      | 12/23/1988 | VST  | SPR | NE | SW  | 1N 49E 01 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04757 |      | 12/23/1988 | VST  | SPR | SE | SE  | 1N 49E 01 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04755 |      | 12/23/1988 | VST  | SPR | SE | SE  | 1N 50E 06 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04753 |      | 12/23/1988 | VST  | SPR | NE | SE  | 1N 50E 06 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04750 |      | 12/23/1988 | VST  | SPR | SE | SE  | 1N 50E 07 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04749 |      | 12/23/1988 | VST  | SPR | SW | SE  | 1N 50E 07 | 0.030 | STK |     | 0     | 0    |      | NY |

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| Basin | APP    | CERT | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 156   | V04748 |      | 12/23/1988 | VST  | SPR | SE | SE  | 1N 50E 07 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04747 |      | 12/23/1988 | VST  | SPR | SE | NE  | 1N 50E 18 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04746 |      | 12/23/1988 | VST  | SPR | NE | NW  | 1N 50E 18 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04745 |      | 12/23/1988 | VST  | SPR | SE | SW  | 1N 49E 12 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04744 |      | 12/23/1988 | VST  | SPR | NW | NW  | 1N 49E 13 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04743 |      | 12/23/1988 | VST  | OSW | NW | SE  | 1N 49E 12 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | V04683 |      | 5/27/1988  | VST  | LAK | SE | SE  | 2N 49E 23 | 0.000 | STK |     | 0     | 0    |      | NY |
| 156   | V03767 |      | 2/23/1982  | VST  | SPR |    | NE  | 5N 49E 24 | 0.030 | STK |     | 0     | 0    | *    | NY |
| 156   | V03766 |      | 2/23/1982  | VST  | SPR | NE | NE  | 5N 49E 21 | 0.030 | STK |     | 0     | 0    |      | NY |
| 156   | 42522  |      | 9/25/1980  | PER  | STR | SE | SE  | 1N 50E 07 | 0.100 | MM  |     | 0     | 3    | MGA  | NY |
| 156   | V01517 |      | 8/24/1917  | VST  | SPR | SW | SW  | 6N 49E 14 | 2.000 | MM  |     | 0     | 0    |      | NY |
| 156   | 25461  | 8626 | 2/6/1970   | CER  | SPR | SW | NE  | 6N 49E 23 | 0.008 | MM  |     | 0     | 2.1  | MGA  | NY |
| 156   | 25460  | 8625 | 2/6/1970   | CER  | SPR | SW | SW  | 6N 49E 14 | 0.020 | MM  |     | 0     | 6.3  | MGA  | NY |
| 156   | 25459  | 8624 | 2/6/1970   | CER  | SPR | NW | NW  | 6N 49E 23 | 0.010 | MM  |     | 0     | 2.06 | MGA  | NY |
| 170   | 23224  | 6896 | 7/5/1966   | CER  | UG  | SE | NE  | 1S 55E 22 | 0.010 | STK |     | 0     | 3.65 | MGA  | LI |
| 170   | 23513  | 7498 | 11/22/1966 | CER  | UG  | SE | NE  | 2S 56E 06 | 0.010 | STK |     | 0     | 3.65 | MGA  | LI |
| 170   | 23232  | 6904 | 7/5/1966   | CER  | UG  | SE | NE  | 2S 56E 06 | 0.009 | STK |     | 0     | 2.19 | MGA  | LI |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|--------|------|----|
| 170   | 23219  | 6892  | 7/5/1966   | CER  | UG  | SW | SW  | 3S 55E 07 | 0.006 | STK |     | 0     | 1.46   | MGA  | LI |
| 170   | 12542  | 3217  | 7/15/1948  | CER  | UG  | SW | SE  | 2S 55E 17 | 0.008 | STK |     | 0     | 1.82   | MGA  | LI |
| 170   | 11334  | 2950  | 7/16/1945  | CER  | UG  | SE | NW  | 2S 55E 31 | 0.008 | STK |     | 0     | 1.82   | MGA  | LI |
| 170   | 58425  | 14742 | 12/24/1992 | CER  | UG  | SW | NE  | 4S 55E 02 | 1.000 | IRR |     | 31.42 | 157.1  | AFA  | LI |
| 170   | 58424  | 14741 | 12/24/1992 | CER  | UG  | SW | NE  | 4S 55E 02 | 1.200 | IRR |     | 97.5  | 487.5  | AFA  | LI |
| 170   | 56328  | 14475 | 5/17/1991  | CER  | UG  | SW | SW  | 3S 54E 24 | 1.320 | IRR | Y   | 125   | 52     | AFA  | LI |
| 170   | 45902  | 13328 | 7/9/1982   | CER  | UG  | SW | NW  | 3S 55E 34 | 2.670 | IRR |     | 134.6 | 673    | AFA  | LI |
| 170   | 42569  | 15416 | 10/1/1980  | CER  | UG  | NW | SW  | 3S 55E 31 | 4.200 | IRR |     | 250   | 1250   | AFA  | LI |
| 170   | 36458  | 13497 | 1/15/1979  | CER  | UG  | SW | SE  | 3S 55E 28 | 2.010 | IRR |     | 125   | 510    | AFA  | LI |
| 170   | 36457  | 13496 | 1/15/1979  | CER  | UG  | SW | SE  | 4S 55E 05 | 0.170 | IRR | Y   | 10    | 50     | AFA  | LI |
| 170   | 36456  | 13495 | 1/15/1979  | CER  | UG  | SW | SE  | 4S 55E 05 | 0.200 | IRR | Y   | 24    | 120    | AFA  | LI |
| 170   | 36455  | 13494 | 1/15/1979  | CER  | UG  | SW | SE  | 4S 55E 05 | 2.390 | IRR | Y   | 185.8 | 929    | AFA  | LI |
| 170   | 36454  | 13493 | 1/15/1979  | CER  | UG  | SW | SE  | 4S 55E 05 | 0.970 | IRR | Y   | 30.2  | 151    | AFA  | LI |
| 170   | 36451  | 13491 | 1/15/1979  | CER  | UG  | SW | SW  | 3S 55E 28 | 4.020 | IRR |     | 250   | 1250   | AFS  | LI |
| 170   | 36447  | 13490 | 1/15/1979  | CER  | UG  | SW | SE  | 3S 54E 24 | 2.230 | IRR | Y   | 125   | 510    | AFS  | LI |
| 170   | 36446  | 13489 | 1/15/1979  | CER  | UG  | SW | NE  | 3S 54E 24 | 0.440 | IRR | Y   | 20    | 145    | AFS  | LI |
| 170   | 36445  | 13488 | 1/15/1979  | CER  | UG  | SW | NE  | 3S 54E 24 | 0.380 | IRR | Y   | 90    | 267.21 | AFS  | LI |
| 170   | 36443  | 13486 | 1/15/1979  | CER  | UG  | SW | NW  | 3S 54E 24 | 0.490 | IRR | Y   | 15    | 145    | AFS  | LI |
| 170   | 36441  | 13484 | 1/15/1979  | CER  | UG  | SW | NW  | 3S 54E 24 | 0.490 | IRR | Y   | 90    | 267.21 | AFS  | LI |
| 170   | 36440  | 13483 | 1/15/1979  | CER  | UG  | SW | SW  | 3S 54E 24 | 0.040 | IRR | Y   | 5     | 25     | AFA  | LI |
| 170   | 36437  | 13482 | 1/15/1979  | CER  | UG  | SW | SW  | 3S 54E 24 | 0.490 | IRR | Y   | 90    | 267.21 | AFS  | LI |
| 170   | V01526 |       | 11/30/1917 | VST  | SPR | SW | NW  | 1N 56E 10 | 0.500 | STK |     | 0     | 0      | *    | LI |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 170   | V01600 |       | 12/20/1918 | VST  | SPR | NE | NW  | 1N 56E 10 | 0.100 | STK |     | 0     | 0    |      | LI |
| 170   | 54894  | 14636 | 6/1/1990   | CER  | SPR | SW | NE  | 1N 55E 05 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 170   | 46197  | 13924 | 10/7/1982  | CER  | SPR | NE | NW  | 2S 54E 04 | 0.010 | STK |     | 0     | 2.95 | MGA  | NY |
| 170   | 24420  | 8037  | 3/26/1968  | CER  | SPR | SW | SE  | 1S 57E 06 | 0.009 | STK |     | 0     | 2.19 | MGA  | LI |
| 170   | 23229  | 6902  | 7/5/1966   | CER  | STR | SE | NE  | 1S 56E 17 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 170   | 23223  | 6895  | 7/5/1966   | CER  | SPR | SW | SE  | 1N 55E 08 | 0.010 | STK |     | 0     | 3.65 | MGA  | LI |
| 170   | 23222  | 6894  | 7/5/1966   | CER  | SPR | SW | SW  | 1N 55E 10 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 170   | 23221  | 6893  | 7/5/1966   | CER  | SPR | SW | SW  | 1N 55E 10 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 170   | 23220  | 6923  | 7/5/1966   | CER  | STR | SW | NW  | 2S 54E 16 | 0.006 | STK |     | 0     | 1.46 | MGA  | NY |
| 170   | 10974  | 2877  | 8/4/1943   | CER  | SPR | NE | NW  | 1S 56E 12 | 0.007 | STK |     | 0     | 1.53 | MGS  | LI |
| 170   | 2628   | 183   | 1/31/1913  | CER  | SPR | SE | NE  | 1N 55E 09 | 0.010 | STK |     | 0     | 2.36 | MGA  | LI |
| 170   | 2424   | 217   | 5/8/1912   | CER  | STR | NW | NW  | 1N 55E 08 | 0.020 | STK |     | 0     | 2.87 | MGS  | LI |
| 170   | 1433   | 105   | 9/20/1909  | CER  | STR | NW | NE  | 1N 55E 08 | 0.190 | IRR |     | 8     | 32   | AFS  | LI |
| 170   | V01524 |       | 11/30/1917 | VST  | SPR | SE | SE  | 2S 55E 26 | 0.500 | STK |     | 0     | 0    |      | LI |
| 170   | V01508 |       | 5/16/1917  | VST  | SPR | SW | SE  | 2S 57E 28 | 0.100 | STK |     | 0     | 0    |      | LI |



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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|--------|------|----|
| 171   | 62615  |       | 11/22/1996 | PER  | UG  | SW | SW  | 1N 59E 21 | 0.008 | STK |     | 0     | 1.98   | MGA  | LI |
| 171   | 54216  | 15954 | 12/6/1989  | CER  | UG  | SW | SW  | 1S 60E 08 | 0.010 | STK |     | 0     | 2.34   | MGA  | LI |
| 171   | V01540 |       | 2/5/1918   | VST  | SPR | SE | NW  | 1N 59E 13 | 0.100 | STK |     | 0     | 0.37   | MGA  | LI |
| 171   | V01606 |       | 3/5/1919   | VST  | SPR | SW | SE  | 3S 58E 01 | 0.020 | STK |     | 0     | 0      |      | LI |
| 171   | V01509 |       | 5/17/1917  | VST  | SPR | NE | SE  | 3S 58E 12 | 0.100 | STK |     | 0     | 0      |      | LI |
| 171   | V01605 |       | 3/5/1919   | VST  | SPR | NE | SE  | 1N 60E 01 | 0.020 | STK |     | 0     | 0      |      | LI |
| 171   | V01266 |       | 11/20/1913 | VST  | SPR |    |     | 1S 60E 02 | 0.050 | STK |     | 0     | 0      |      | LI |
| 172   | 9922   | 2297  | 12/18/1935 | CER  | UG  | SW | SW  | 2S 57E 10 | 0.003 | STK |     | 0     | 0.79   | MGA  | LI |
| 172   | 8380   | 1973  | 11/9/1927  | CER  | UG  | NW | SE  | 1N 57E 20 | 0.010 | STK |     | 0     | 3.07   | MGA  | LI |
| 172   | 2911   | 302   | 3/16/1914  | CER  | UG  | SE | NW  | 4N 58E 31 | 0.006 | STK |     | 0     | 1.46   | MGA  | NY |
| 172   | 8490   | 2870  | 3/29/1928  | CER  | UG  | SE | SE  | 5N 59E 31 | 0.003 | STK |     | 0     | 0.73   | MGA  | NY |
| 172   | 2912   | 303   | 3/16/1914  | CER  | UG  | SE | NW  | 4N 58E 23 | 0.006 | STK |     | 0     | 1.46   | MGA  | NY |
| 172   | V01539 |       | 2/5/1918   | VST  | SPR | NE | SW  | 1N 58E 02 | 0.001 | STK |     | 0     | 0.12   | MGS  | LI |
| 172   | V01541 |       | 2/5/1918   | VST  | SPR | NW | NE  | 2N 57E 07 | 0.100 | STK |     | 0     | 1.1    | MGA  | NY |
| 172   | V01156 |       | 11/26/1912 | VST  | STR | SE | NW  | 2N 56E 03 | 0.000 | IRR |     | 4.38  | 13.14  | AFS  | NY |
| 172   | V01155 |       | 7/26/1912  | VST  | STR | NE | SW  | 3N 56E 36 | 0.000 | IRR |     | 38.31 | 153.24 | AFS  | NY |
| 172   | V01154 |       | 7/26/1912  | VST  | STR | SW | SW  | 3N 57E 15 | 0.000 | IRR |     | 6.99  | 27.96  | AFS  | NY |
| 172   | V01153 |       | 7/26/1912  | VST  | STR | SW | SE  | 3N 57E 16 | 0.000 | IRR |     | 22.3  | 89.2   | AFS  | NY |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|--------|------|----|
| 172   | V01152 |       | 7/26/1912  | VST  | STR | SE | SW  | 3N 57E 08 | 0.000 | IRR |     | 44.87 | 179.48 | AFS  | NY |
| 172   | V01150 |       | 11/26/1912 | VST  | SPR | SW | SW  | 4N 57E 35 | 0.000 | IRR |     | 10.9  | 43.6   | AFA  | NY |
| 172   | 11374  | 3145  | 9/17/1945  | CER  | SPR | NW | NW  | 2N 56E 23 | 0.003 | STK |     | 0     | 0.73   | MGA  | LI |
| 172   | 10467  | 2956  | 1/29/1940  | CER  | SPR | NE | SW  | 2N 57E 07 | 0.009 | STK |     | 0     | 2.12   | MGA  | LI |
| 172   | 10167  | 2697  | 9/13/1937  | CER  | STR | SE | SE  | 2N 56E 11 | 1.000 | IRR |     | 100   | 424    | AFS  | NY |
| 172   | 9843   | 2583  | 3/11/1935  | CER  | STR | SE | SW  | 2N 57E 06 | 0.170 | IRR |     | 17.83 | 86     | AFA  | NY |
| 172   | 8379   | 1906  | 11/9/1927  | CER  | STR | SE | NW  | 2N 57E 19 | 0.003 | STK |     | 0     | 0.47   | MGS  | LI |
| 172   | 7252   | 1860  | 11/21/1924 | CER  | SPR | NE | SW  | 2N 57E 07 | 0.006 | STK |     | 0     | 1.46   | MGA  | LI |
| 172   | 6679   | 2234  | 5/19/1922  | CER  | STR | SW | SE  | 2N 57E 21 | 0.010 | STK |     | 0     | 4.35   | MGA  | LI |
| 172   | 6047   | 1137  | 4/3/1920   | CER  | SPR | SW | NW  | 3N 57E 14 | 0.070 | STK |     | 0     | 6.06   | MGS  | NY |
| 172   | 5786   | 2265  | 10/1/1919  | CER  | STR | NE | SW  | 3N 56E 36 | 0.170 | IRR |     | 17    | 66.65  | AFS  | NY |
| 172   | 4857   | 942   | 1/22/1918  | CER  | SPR | SE | NE  | 1N 57E 24 | 0.010 | STK |     | 0     | 3.54   | MGA  | LI |
| 172   | 4799   | 1048  | 12/22/1917 | CER  | STR | NE | SW  | 3N 57E 16 | 0.070 | IRR |     | 7.29  | 29.16  | AFS  | NY |
| 172   | 4635   | 1567  | 10/13/1917 | CER  | STR | SW | NW  | 3N 57E 14 | 0.290 | IRR |     | 29    | 141.25 | AFS  | NY |
| 172   | 4563   | 818   | 8/24/1917  | CER  | STR | SE | SW  | 3N 56E 36 | 0.140 | IRR |     | 14.68 | 44.04  | AFS  | NY |
| 172   | 2715   | 392   | 5/16/1913  | CER  | STR | SE | SW  | 3N 57E 08 | 0.190 | IRR |     | 19.56 | 78.81  | AFS  | NY |
| 172   | 1703   | 447   | 6/1/1910   | CER  | STR | SE | SE  | 2N 56E 03 | 0.520 | IRR |     | 52.17 | 208.7  | AFS  | NY |
| 181   | 6718   | 1629  | 7/17/1922  | CER  | UG  | SW | SW  | 1N 66E 32 | 0.030 | MM  |     | 0     | 5.89   | MGA  | LI |
| 181   | 35773  | 10870 | 8/18/1978  | CER  | UG  | SE | NW  | 3N 64E 20 | 0.000 | STK |     | 0     | 1.04   | MGA  | LI |
| 181   | 18756  | 5059  | 4/26/1960  | CER  | UG  | NE | NW  | 1N 64E 24 | 0.020 | STK |     | 0     | 3.53   | MGA  | LI |
| 181   | V01459 |       | 4/12/1916  | VST  | SPR | SE | SW  | 2S 66E 33 | 0.130 | STK |     | 0     | 1.1    | MGS  | LI |
| 181   | V01787 |       | 1/27/1922  | VST  | SPR | NE | SW  | 2S 66E 33 | 0.030 | STK |     | 0     | 2.19   | MGA  | LI |
| 181   | V01268 |       | 11/20/1913 | VST  | SPR | SE | SW  | 2N 63E 13 | 0.010 | STK |     | 0     | 3      | MGA  | LI |
| 181   | V01267 |       | 11/17/1913 | VST  | SPR | NE | SW  | 1N 63E 21 | 0.100 | STK |     | 0     | 2.19   | MGA  | LI |
| 181   | V01265 |       | 11/17/1913 | VST  | SPR |    | SW  | 1N 63E 28 | 0.050 | STK |     | 0     | 0.73   | MGA  | LI |
| 181   | 14732  | 4712  | 12/24/1952 | CER  | STR | SW | NW  | 2S 66E 17 | 0.000 | STK |     | 0     | 1.3    | MGS  | LI |
| 181   | 12247  | 3584  | 2/6/1948   | CER  | SPR | NW | NW  | 2N 63E 35 | 0.010 | STK |     | 0     | 1.46   | MGA  | LI |
| 181   | 12246  | 3583  | 2/6/1948   | CER  | SPR | SW | SE  | 2N 63E 34 | 0.010 | STK |     | 0     | 1.7    | MGS  | LI |
| 181   | 7564   | 2210  | 11/4/1925  | CER  | SPR | SE | NW  | 1N 63E 22 | 0.010 | STK |     | 0     | 1.58   | MGA  | LI |

Hydrographic Basin Abstracts - CRC Basins

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|-------|--------|-------|------------|------|-----|----|------|-----------|-------|-----|-----|-------|-------|------|----|
| 181   | 7563   | 2209  | 11/4/1925  | CER  | SPR | SE | NE   | 1N 63E 22 | 0.010 | STK |     | 0     | 0.85  | MGA  | LI |
| 181   | 7117   | 1466  | 5/16/1924  | CER  | SPR | NW | SW   | 2N 63E 13 | 0.000 | STK |     | 0     | 0.51  | MGA  | LI |
| 181   | 6619   | 835   | 1/27/1922  | CER  | SPR | NE | SW   | 2S 66E 33 | 0.020 | STK |     | 0     | 3.5   | MGA  | LI |
| 181   | V06519 |       | 5/19/1994  | VST  | SPR | NW | NW   | 1N 65E 35 | 0.050 | STK |     | 0     | 0     |      | LI |
| 197   | 50135  | 12420 | 8/29/1986  | CER  | UG  | NW | SE   | 3S 71E 07 | 0.003 | STK |     | 0     | 0.71  | MGA  | LI |
| 197   | 18010  | 5282  | 5/20/1959  | CER  | UG  | SE | NW   | 2S 71E 21 | 0.003 | STK |     | 0     | 0.37  | MGS  | LI |
| 197   | 64710  |       | 12/17/1998 | PER  | UG  | NE | NE   | 1S 71E 04 | 0.250 | MM  | Y   | 0     | 64.89 | AFA  | LI |
| 197   | V04307 |       | 5/3/1985   | VST  | SPR | NW | NW   | 2S 70E 27 | 0.002 | STK |     | 0     | 0     |      | LI |
| 197   | 50137  | 12422 | 8/29/1986  | CER  | RES |    | LT01 | 3S 70E 02 | 0.010 | STK |     | 0     | 3.65  | MGA  | LI |
| 197   | 50136  | 12421 | 8/29/1986  | CER  | RES |    | LT09 | 3S 71E 04 | 0.006 | STK |     | 0     | 3.65  | MGA  | LI |
| 203   | 69429  |       | 12/26/2002 | PER  | UG  | NW | SW   | 3S 67E 10 | 0.003 | QM  |     | 0     | 0.73  | MGA  | LI |
| 203   | 63148  | 15397 | 5/28/1997  | CER  | UG  | NE | NE   | 2S 68E 07 | 0.004 | IRR | Y   | 77.8  | 1.29  | AFS  | LI |
| 203   | 67840  |       | 7/25/2001  | PER  | UG  | NE | NW   | 2S 68E 21 | 0.010 | STK |     | 0     | 2.92  | MGA  | LI |
| 203   | 49055  | 14453 | 5/17/1985  | CER  | UG  | NW | NW   | 2S 68E 17 | 0.003 | STK |     | 0     | 0.73  | MGA  | LI |
| 203   | 4692   | 705   | 11/10/1917 | CER  | UG  | SW | SW   | 1S 67E 32 | 0.010 | STK |     | 0     | 3.93  | MGA  | LI |
| 203   | 40152  | 12708 | 12/20/1979 | CER  | UG  | SW | SW   | 4S 67E 05 | 0.060 | OTH |     | 0     | 0     | *    | LI |
| 203   | 37106  | 10771 | 3/20/1979  | CER  | UG  | NW | NW   | 4S 67E 08 | 0.020 | OTH |     | 0     | 2.37  | MGA  | LI |
| 203   | 37105  | 10144 | 3/20/1979  | CER  | UG  | NW | NW   | 4S 67E 08 | 0.020 | OTH |     | 0     | 2.59  | MGA  | LI |
| 203   | 37104  | 10655 | 3/20/1979  | CER  | UG  | NW | NW   | 4S 67E 08 | 0.020 | OTH |     | 0     | 2.38  | MGA  | LI |
| 203   | 66105  |       | 2/28/2000  | PER  | UG  | NE | NW   | 2S 69E 07 | 0.001 | WLD |     | 0     | 0.87  | AFA  | LI |
| 203   | V01518 |       | 8/30/1917  | VST  | SPR | SW | NE   | 3S 69E 19 | 0.000 | STK |     | 0     | 0     |      | LI |
| 203   | V09448 |       | 5/17/2004  | VST  | SPR | NW | SE   | 2S 69E 34 | 0.005 | WLD |     | 0     | 0     | AFA  | LI |
| 203   | V04352 |       | 5/22/1985  | DEC  | SPR |    |      | 2S 68E 17 | 1.830 | DEC |     | 73.2  | 366   | AFS  | LI |
| 203   | V04281 |       | 4/23/1985  | DEC  | SPR |    | SE   | 2S 68E 05 | 0.006 | DEC |     | 0     | 0     | AFA  | LI |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES  | DUTY    | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|--------|---------|------|----|
| 203   | V03030 |       | 6/16/1978  | VST  | SPR | SE | SW  | 2S 67E 07 | 0.010 | STK |     | 0      | 0       |      | LI |
| 203   | V03029 |       | 6/16/1978  | VST  | SPR | SE | SW  | 2S 67E 07 | 0.100 | IRR |     | 8      | 32      | AFA  | LI |
| 203   | V01547 |       | 3/14/1918  | VST  | STR | NW | NW  | 3S 69E 27 | 0.000 | STK |     | 0      | 0       |      | LI |
| 203   | V01546 |       | 3/14/1918  | VST  | SPR | SW | SE  | 3S 69E 21 | 0.000 | STK |     | 0      | 0       |      | LI |
| 203   | 3353   | 1273  | 4/19/1915  | CER  | SPR | SE | NW  | 2S 68E 04 | 3.880 | IRR |     | 388.12 | 1164.36 | AFS  | LI |
| 203   | 6683   | 1850  | 5/22/1922  | CER  | SPR | NE | NW  | 2S 68E 04 | 0.230 | IRR |     | 49.51  | 100.63  | AFS  | LI |
| 203   | 6295   | 1282  | 10/7/1920  | CER  | SPR | NW | SE  | 3S 69E 20 | 0.006 | STK |     | 0      | 1.42    | MGA  | LI |
| 203   | 5881   | 986   | 11/28/1919 | CER  | SPR | SE | NW  | 2S 67E 05 | 0.003 | STK |     | 0      | 0.71    | MGA  | LI |
| 203   | 5664   | 1202  | 8/11/1919  | CER  | STR | SW | SE  | 3S 67E 29 | 0.490 | IRR |     | 59.2   | 265.68  | AFS  | LI |
| 203   | 4460   | 1912  | 6/7/1917   | CER  | STR | SW | SE  | 1S 68E 32 | 0.200 | IRR |     | 20     | 61      | AFS  | LI |
| 203   | 3072   | 824   | 8/18/1914  | CER  | STR | SE | NE  | 2S 67E 25 | 1.650 | IRR |     | 165.7  | 497.1   | AFS  | LI |
| 204   | 13689  | 4128  | 4/30/1951  | CER  | UG  | SW | NE  | 4S 67E 09 | 0.001 | IRR |     | 0      | 0.26    | AFS  | LI |
| 204   | 62293  | 15427 | 7/11/1996  | CER  | UG  | SW | SE  | 4S 70E 32 | 0.210 | IRR |     | 4.2    | 21      | AFS  | LI |
| 204   | 29247  | 14158 | 2/28/1975  | CER  | UG  | NE | SE  | 4S 67E 10 | 0.050 | QM  |     | 0      | 0.73    | MGA  | LI |
| 204   | V01128 |       | 8/12/1912  | DEC  | UG  | SW | NE  | 4S 67E 08 | 0.250 | DEC |     | 0      | 0       |      | LI |
| 204   | V02873 |       | 4/30/1976  | VST  | UG  | NE | NW  | 4S 67E 08 | 0.000 | COM |     | 0      | 0       |      | LI |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR  | TRS       | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|------|-----------|-------|-----|-----|-------|--------|------|----|
| 204   | 53912  | 13935 | 10/3/1989  | CER  | UG  | NW | SW   | 3S 71E 31 | 0.007 | STK | Y   | 0     | 1.58   | MGA  | LI |
| 204   | 49021  | 12443 | 4/29/1985  | CER  | UG  | NW | SW   | 3S 71E 31 | 0.010 | STK | Y   | 0     | 1.58   | MGA  | LI |
| 204   | 44724  | 12303 | 10/29/1981 | CER  | UG  | NW | NE   | 4S 67E 14 | 0.003 | STK |     | 0     | 0.35   | MGA  | LI |
| 204   | 26762  | 8207  | 6/7/1972   | CER  | UG  | SW | NW   | 4S 67E 09 | 0.003 | STK |     | 0     | 0.73   | MGA  | LI |
| 204   | 57428  | 14355 | 4/13/1992  | CER  | UG  | NE | SE   | 5S 70E 06 | 0.003 | STK |     | 0     | 0.71   | MGA  | LI |
| 204   | 49020  | 12442 | 4/29/1985  | CER  | UG  | SW | SE   | 4S 70E 35 | 0.010 | STK |     | 0     | 1.58   | MGA  | LI |
| 204   | V01447 |       | 2/6/1916   | VST  | SPR | SE | SE   | 5S 68E 06 | 0.050 | STK |     | 0     | 0      |      | LI |
| 204   | V05758 |       | 4/30/1992  | VST  | SPR | NE | NW   | 4S 67E 15 | 0.050 | STK |     | 0     | 0      |      | LI |
| 204   | V04622 |       | 11/10/1987 | DEC  | SPR | NE | NE   | 4S 67E 19 | 0.120 | DEC |     | 5     | 25     | AFA  | LI |
| 204   | V04404 |       | 5/30/1985  | VST  | SPR | NE | NW   | 4S 67E 15 | 0.001 | STK |     | 0     | 0      |      | LI |
| 204   | V02236 |       | 5/2/1931   | DEC  | STR | SW | NW   | 4S 67E 12 | 0.170 | DEC |     | 7.1   | 35.5   | AFA  | LI |
| 204   | 62463  | 15297 | 9/18/1996  | CER  | SPR |    | LT02 | 4S 69E 02 | 0.002 | STK |     | 0     | 0.55   | MGA  | LI |
| 204   | 8877   | 2237  | 4/21/1929  | CER  | SPR | NW | NE   | 4S 68E 26 | 0.003 | STK |     | 0     | 0.58   | MGA  | LI |
| 204   | V01691 |       | 4/16/1920  | DEC  | SPR | SW | NE   | 5S 69E 11 | 0.280 | DEC |     | 11.43 | 57.15  | AFA  | LI |
| 204   | R04292 |       | 5/3/1985   | DEC  | SPR | NW | NW   | 5S 68E 11 | 0.002 | DEC |     | 0     | 0      | MGA  | LI |
| 204   | R04291 |       | 5/3/1985   | DEC  | SPR | SE | NW   | 5S 68E 11 | 0.001 | DEC |     | 0     | 0      | MGA  | LI |
| 204   | 4337   | 1568  | 3/2/1917   | CER  | SPR | SE | NE   | 5S 68E 12 | 0.100 | STK |     | 0     | 0      |      | LI |
| 204   | V01477 |       | 12/1/1916  | DEC  | SPR | SE | NW   | 5S 69E 14 | 1.160 | DEC |     | 46.7  | 233.5  | AFA  | LI |
| 204   | V01476 |       | 12/1/1916  | DEC  | SPR | NW | NW   | 5S 69E 14 | 1.480 | DEC |     | 59.25 | 296.25 | AFA  | LI |
| 204   | V01475 |       | 12/1/1916  | DEC  | SPR | NE | SW   | 5S 69E 13 | 0.460 | DEC |     | 18.5  | 92.5   | AFA  | LI |
| 204   | V01474 |       | 12/1/1916  | DEC  | SPR | NW | SW   | 5S 69E 14 | 2.210 | DEC |     | 88.5  | 442.5  | AFA  | LI |
| 204   | V01803 |       | 8/25/1922  | DEC  | STR | NW | SW   | 5S 69E 13 | 0.470 | DEC |     | 18.9  | 94.5   | AFA  | LI |
| 204   | V01690 |       | 4/16/1920  | DEC  | SPR | NW | SW   | 5S 69E 13 | 2.150 | DEC |     | 86.09 | 430.5  | AFA  | LI |
| 204   | 4614   | 1270  | 10/4/1917  | CER  | SPR | SE | NW   | 5S 69E 24 | 0.200 | IRR |     | 20    | 120    | AFA  | LI |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES  | DUTY    | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|--------|---------|------|----|
| 207   | 67921  |       | 8/17/2001  | PER  | UG  | SW | NW  | 7N 62E 21  | 0.070 | QM  |     | 0      | 5       | AFA  | NY |
| 207   | 55620  | 16242 | 1/10/1991  | CER  | UG  | SW | SW  | 7N 61E 36  | 0.003 | QM  |     | 0      | 0.7     | MGA  | NY |
| 207   | 66127  |       | 3/8/2000   | PER  | UG  | SE | SW  | 5N 60E 24  | 0.010 | STK |     | 0      | 3.65    | MGA  | NY |
| 207   | 23590  | 7240  | 1/9/1967   | CER  | UG  | NW | NW  | 6N 61E 06  | 2.670 | IRR | Y   | 108    | 432     | AFA  | NY |
| 207   | V01351 |       | 1/11/1915  | VST  | STR | SW | NW  | 6N 61E 17  | 0.000 | IRR |     | 29000  | 11600   | AFA  | NY |
| 207   | V04605 |       | 7/16/1987  | VST  | STR | SW | NW  | 7N 62E 33  | 7.690 | IRR |     | 551.59 | 2206.38 |      | NY |
| 207   | V01151 |       | 7/26/1912  | VST  | SPR | NW | NW  | 6N 59E 17  | 0.000 | IRR |     | 85.34  | 341.4   | AFA  | NY |
| 207   | 49476  | 13043 | 10/23/1985 | CER  | SPR | SW | NW  | 7N 62E 33  | 0.020 | QM  |     | 0      | 0.59    | MGA  | NY |
| 207   | 19294  | 5897  | 10/24/1960 | CER  | SPR | NW | NW  | 6N 60E 36  | 0.090 | IRR |     | 13.24  | 52.97   | AFA  | NY |
| 208   | V02418 |       | 8/27/1956  | VST  | UG  | NW | SW  | 3N 62E 08  | 0.020 | STK |     | 0      | 0       |      | NY |
| 208   | 67151  |       | 1/19/2001  | PER  | UG  | SE | SW  | 4N 61E 36  | 0.010 | STK |     | 0      | 3.65    | MGA  | NY |
| 208   | 66124  |       | 3/8/2000   | PER  | UG  | NE | SW  | 3N 62E 17  | 0.010 | STK |     | 0      | 3.65    | MGA  | NY |
| 208   | 7057   | 1216  | 2/26/1924  | CER  | UG  | SE | SW  | 4N 61E 36  | 0.020 | STK |     | 0      | 2.44    | MGS  | LI |
| 208   | 4666   | 1575  | 11/1/1917  | CER  | SPR | NE | SE  | 1N 62E 05  | 0.001 | STK |     | 0      | 0.18    | MGA  | LI |
| 228   | 6725   | 1233  | 7/31/1922  | CER  | UG  | NE | SW  | 10S 46E 13 | 0.001 | STK |     | 0      | 0.36    | MGA  | NY |
| 228   | 44236  | 13628 | 8/5/1981   | CER  | UG  | NW | NE  | 11S 47E 33 | 0.090 | MM  |     | 0      | 0.28    | MGA  | NY |
| 228   | 9606   | 2295  | 7/4/1932   | CER  | UG  | SE | SE  | 10S 49E 17 | 0.002 | STK |     | 0      | 0.36    | MGA  | NY |
| 228   | V01408 |       | 8/10/1915  | VST  | OSW |    |     | 11S 47E 21 | 0.000 | OTH |     | 0      | 0       |      | NY |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|--------|------|----|
| 228   | 54200  | 15730 | 11/29/1989 | CER  | SPR | NE | NE  | 10S 47E 33 | 0.530 | IRR |     | 7.5   | 37.5   | AFA  | NY |
| 228   | 30294  | 10705 | 6/1/1976   | CER  | SPR | NE | SE  | 11S 47E 28 | 0.120 | IRR |     | 6.9   | 34.5   | AFA  | NY |
| 228   | 28808  | 9820  | 10/15/1974 | CER  | SPR | NE | NW  | 11S 47E 33 | 0.040 | IRR |     | 2.5   | 12.5   | AFA  | NY |
| 228   | 12488  | 3700  | 6/10/1948  | CER  | SPR | SW | SE  | 11S 47E 16 | 1.000 | IRR |     | 17.52 | 87.59  | AFA  | NY |
| 228   | 10664  | 2947  | 5/19/1941  | CER  | SPR | NW | NE  | 11S 49E 18 | 0.003 | STK |     | 0     | 0.71   | MGA  | NY |
| 228   | 9908   | 2486  | 11/1/1935  | CER  | SPR | SW | NW  | 11S 47E 10 | 0.020 | IRR |     | 0.25  | 17.7   | AFA  | NY |
| 228   | 1751   | 311   | 7/13/1910  | CER  | SPR | NE | NW  | 10S 47E 14 | 0.410 | IRR |     | 41    | 222.63 | AFS  | NY |
| 229   | 49903  | 12034 | 6/5/1986   | CER  | SPR | NW | NW  | 12S 48E 30 | 0.006 | STK |     | 0     | 1.42   | MGA  | NY |
| 229   | 6031   | 852   | 3/27/1920  | CER  | SPR | SW | SE  | 12S 48E 19 | 0.006 | STK |     | 0     | 1.42   | MGA  | NY |
| 173A  | V03769 |       | 2/23/1982  | VST  | UG  | SW | NE  | 2S 54E 19  | 0.030 | STK |     | 0     | 0      |      | NY |
| 173A  | 45384  | 11563 | 2/23/1982  | CER  | UG  | SW | NE  | 2S 54E 19  | 0.007 | STK |     | 0     | 1.65   | MGA  | NY |
| 173A  | 26597  | 8655  | 3/6/1972   | CER  | UG  | SW | SW  | 1S 54E 09  | 0.002 | STK |     | 0     | 0.66   | MGA  | NY |
| 173A  | 23351  | 6872  | 8/25/1966  | CER  | UG  | NE | NW  | 3N 53E 35  | 0.002 | STK |     | 0     | 0.47   | MGA  | NY |
| 173A  | 13499  | 3619  | 9/21/1950  | CER  | UG  | SW | NE  | 1N 53E 07  | 0.002 | STK |     | 0     | 0.47   | MGA  | NY |
| 173A  | 17211  | 4848  | 3/14/1957  | CER  | UG  | NE | SW  | 1N 53E 32  | 0.100 | OTH |     | 0     | 2.92   | MGA  | NY |
| 173A  | 28912  | 8841  | 11/14/1974 | CER  | UG  | NW | NW  | 2N 52E 36  | 0.010 | STK |     | 0     | 4.01   | MGA  | NY |
| 173A  | 6992   | 1235  | 10/18/1923 | CER  | UG  | NE | NE  | 2N 52E 07  | 0.003 | STK |     | 0     | 0.71   | MGA  | NY |
| 173A  | V03996 |       | 10/7/1982  | VST  | SPR | SW | SW  | 1S 52E 08  | 0.030 | STK |     | 0     | 0      |      | NY |
| 173A  | V03995 |       | 10/7/1982  | VST  | SPR | SE | NE  | 1N 51E 01  | 0.030 | STK |     | 0     | 0      |      | NY |
| 173A  | V03768 |       | 2/23/1982  | VST  | SPR | SE | SW  | 3N 52E 18  | 0.030 | STK |     | 0     | 0      |      | NY |

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|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 173A  | V03764 |       | 2/23/1982  | VST  | SPR | SE | SE  | 1N 54E 17 | 0.030 | STK |     | 0     | 0    |      | NY |
| 173A  | V03762 |       | 2/23/1982  | VST  | SPR | SE | SE  | 1N 54E 17 | 0.030 | STK |     | 0     | 0    |      | NY |
| 173A  | V02157 |       | 12/12/1927 | VST  | SPR | NW | SE  | 2N 54E 10 | 0.250 | STK |     | 0     | 0    |      | NY |
| 173A  | 46193  | 11457 | 10/7/1982  | CER  | SPR | SE | NE  | 1N 51E 01 | 0.010 | STK |     | 0     | 4.25 | MGA  | NY |
| 173A  | 26501  | 8133  | 1/24/1972  | CER  | SPR | NW | SW  | 2S 51E 22 | 0.010 | STK |     | 0     | 3.15 | MGA  | NY |
| 173A  | 14486  | 3932  | 8/14/1952  | CER  | STR | SW | SW  | 1S 51E 18 | 0.010 | STK |     | 0     | 3.77 | MGA  | NY |
| 173A  | 13541  | 3659  | 11/16/1950 | CER  | SPR | NW | NW  | 2S 51E 16 | 0.020 | STK |     | 0     | 4.72 | MGA  | NY |
| 173A  | 12868  | 4254  | 3/25/1949  | CER  | SPR | SE | NW  | 2N 54E 34 | 0.003 | STK |     | 0     | 0.73 | MGA  | NY |
| 173A  | 12867  | 4255  | 3/25/1949  | CER  | SPR | NE | NW  | 1N 54E 02 | 0.003 | STK |     | 0     | 0.73 | MGA  | LI |
| 173A  | 5946   | 665   | 1/12/1920  | CER  | SPR | SW | NE  | 3N 52E 32 | 0.003 | STK |     | 0     | 0.73 | MGA  | NY |
| 173A  | 2903   | 288   | 3/5/1914   | CER  | SPR | SE | NE  | 2N 54E 09 | 0.010 | STK |     | 0     | 0.32 | MGA  | NY |
| 173A  | V03997 |       | 10/7/1982  | VST  | SPR | SW | SW  | 1N 52E 07 | 0.030 | STK |     | 0     | 0    |      | NY |
| 173B  | 45247  | 11854 | 1/19/1982  | CER  | UG  | SW | NE  | 3N 52E 02 | 0.010 | STK |     | 0     | 4.25 | MGA  | NY |
| 173B  | 15247  | 4623  | 8/4/1953   | CER  | UG  | NW | SW  | 3N 54E 05 | 0.010 | STK |     | 0     | 3.65 | MGA  | NY |
| 173B  | 11201  | 3348  | 11/10/1944 | CER  | UG  | NW | SW  | 4N 54E 17 | 0.010 | STK |     | 0     | 3.65 | MGA  | NY |
| 173B  | 69904  |       | 4/22/2003  | PER  | UG  | NE | NE  | 5N 55E 33 | 3.000 | IRR | Y   | 0     | 0    | AFA  | NY |
| 173B  | 64062  |       | 4/24/1998  | PER  | UG  | SE | SE  | 6N 56E 34 | 2.700 | IRR |     | 160   | 640  | AFA  | NY |



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|-------|--------|-------|-----------|------|-----|----|-----|-----------|-------|-----|-----|--------|---------|------|----|
| 173B  | 57466  |       | 4/21/1992 | PER  | UG  | NW | NW  | 5N 55E 33 | 5.230 | IRR | Y   | 630    | 1240    | AFA  | NY |
| 173B  | 51129  | 14757 | 7/20/1987 | CER  | UG  | NE | SW  | 6N 56E 23 | 0.300 | IRR |     | 43.8   | 175.2   | AFA  | NY |
| 173B  | 39894  | 13194 | 12/5/1979 | CER  | UG  | SW | SW  | 5N 55E 28 | 5.800 | IRR |     | 297.58 | 1190.32 | AFA  | NY |
| 173B  | 28627  |       | 8/20/1974 | PER  | UG  | NW | NE  | 6N 56E 27 | 1.000 | IRR |     | 40     | 160     | AFA  | NY |
| 173B  | 25203  | 7999  | 8/11/1969 | CER  | UG  | SE | NW  | 6N 56E 23 | 0.180 | IRR | Y   | 66     | 133.18  | AFA  | NY |
| 173B  | 25202  | 7998  | 8/11/1969 | CER  | UG  | SE | NW  | 6N 56E 23 | 0.120 | IRR | Y   | 45     | 86.84   | AFA  | NY |
| 173B  | 23856  | 7731  | 5/12/1967 | CER  | UG  | SE | NW  | 6N 56E 27 | 0.200 | IRR |     | 40     | 144.75  | AFA  | NY |
| 173B  | 23855  | 7730  | 5/12/1967 | CER  | UG  | SW | NE  | 6N 56E 27 | 0.200 | IRR |     | 20     | 80      | AFA  | NY |
| 173B  | 23854  | 7729  | 5/12/1967 | CER  | UG  | NW | NE  | 6N 56E 23 | 0.200 | IRR |     | 44     | 144.75  | AFA  | NY |
| 173B  | 21964  | 7994  | 4/22/1964 | CER  | UG  | SE | NW  | 6N 56E 23 | 0.120 | IRR | Y   | 45     | 86.84   | AFA  | NY |
| 173B  | V04670 |       | 5/27/1988 | VST  | SPR | NE | SW  | 4N 52E 12 | 0.030 | STK |     | 0      | 0       |      | NY |
| 173B  | V04669 |       | 5/27/1988 | VST  | SPR | NW | NW  | 4N 52E 21 | 0.030 | STK |     | 0      | 0       |      | NY |
| 173B  | V04668 |       | 5/27/1988 | VST  | SPR | NW | SE  | 4N 52E 20 | 0.030 | STK |     | 0      | 0       |      | NY |
| 173B  | 52147  | 15223 | 5/27/1988 | CER  | SPR | NE | SW  | 4N 52E 12 | 0.003 | STK |     | 0      | 0.78    | MGA  | NY |
| 173B  | 52144  | 15256 | 5/27/1988 | CER  | SPR | NW | SE  | 4N 52E 20 | 0.002 | STK |     | 0      | 0.52    | MGA  | NY |

Hydrographic Basin Abstracts - CRC Basins

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|-------|--------|-------|------------|------|-----|----|-----|------------|--------|-----|-----|-------|--------|------|----|
| 173B  | 52143  | 15255 | 5/27/1988  | CER  | SPR | NW | NW  | 4N 52E 21  | 0.008  | STK |     | 0     | 1.84   | MGA  | NY |
| 173B  | 11037  | 2909  | 12/10/1943 | CER  | STR | NE | SW  | 3N 52E 03  | 0.003  | STK |     | 0     | 0.71   | MGA  | NY |
| 173B  | 4533   |       | 7/30/1917  | PER  | STR | NW | SE  | 3N 52E 03  | 0.000  | IRR |     | 3000  | 10000  | AFS  | NY |
| 173B  | V04671 |       | 5/27/1988  | VST  | SPR | NW | SW  | 4N 53E 06  | 0.030  | STK |     | 0     | 0      |      | NY |
| 173B  | V02152 |       | 12/8/1927  | VST  | SPR | NE | SE  | 3N 54E 25  | 0.250  | STK |     | 0     | 0      |      | NY |
| 173B  | 10200  | 2760  | 1/26/1938  | CER  | STR | SE | SW  | 6N 57E 28  | 0.110  | MM  |     | 0     | 26.18  | MGA  | NY |
| 173B  | 2791   | 408   | 9/26/1913  | CER  | STR | NW | NE  | 4N 56E 20  | 0.250  | MM  |     | 0     | 0      | *    | NY |
| 173B  | 1467   | 261   | 10/20/1909 | CER  | STR |    |     | 5N 56E 35  | 0.100  | IRR |     | 10    | 72.4   | AFA  | NY |
| 173B  | 1178   | 48    | 11/7/1908  | CER  | STR |    | NW  | 4N 55E 29  | 0.300  | IRR |     | 26.86 | 0      |      | NY |
| 227A  | 21593  | 5760  | 10/31/1963 | CER  | UG  | SW | SW  | 15S 50E 18 | 0.020  | DOM |     | 0     | 5.26   | MGA  | NY |
| 227A  | 18528  | 5479  | 1/19/1960  | CER  | UG  | SE | SW  | 15S 50E 18 | 0.030  | COM |     | 0     | 8.14   | MGA  | NY |
| 227A  | 11141  | 3172  | 7/19/1944  | CER  | UG  | NE | NW  | 12S 51E 18 | 0.008  | STK |     | 0     | 1.84   | MGA  | NY |
| 141   | 54929  |       | 6/6/1990   | PER  | UG  | SE | SE  | 4N 44E 05  | 1.000  | MUN |     | 0     | 235.9  | MGA  | NY |
| 141   | 45221  | 12822 | 1/14/1982  | CER  | UG  | SE | NE  | 4N 44E 18  | 0.280  | MUN |     | 0     | 27.21  | MGA  | NY |
| 141   | 45151  | 12821 | 12/21/1981 | CER  | UG  | NW | NE  | 4N 44E 08  | 1.130  | MUN |     | 0     | 117.1  | MGA  | NY |
| 141   | 45150  | 12820 | 12/21/1981 | CER  | UG  | SW | SW  | 4N 44E 08  | 0.530  | MUN |     | 0     | 45.59  | MGA  | NY |
| 141   | 45149  | 12819 | 12/21/1981 | CER  | UG  | SE | SE  | 4N 44E 18  | 0.370  | MUN |     | 0     | 44.55  | MGA  | NY |
| 141   | 45148  | 12818 | 12/21/1981 | CER  | UG  | SE | NE  | 4N 44E 18  | 0.370  | MUN |     | 0     | 36     | MGA  | NY |
| 141   | 64331  |       | 7/22/1998  | PER  | UG  | SW | NW  | 4N 43E 31  | 1.000  | IND |     | 0     | 108.75 | AFA  | NY |
| 142   | 52749  |       | 12/1/1988  | PER  | UG  | NE | NW  | 2N 42E 35  | 0.500  | MM  |     | 0     | 117.8  | MGA  | ES |
| 142   | 42606  | 11265 | 10/9/1980  | CER  | UG  | NE | NE  | 1N 42E 30  | 0.470  | MM  |     | 0     | 13.36  | MGA  | ES |
| 142   | 316    | 532X  | 12/17/1906 | CER  | UG  | N2 | NE  | 1S 41E 16  | 10.000 | MM  |     | 0     | 182.5  | MGA  | ES |

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|--------|--------|------|----|
| 142   | 21314 | 6200  | 6/3/1963   | CER  | UG  | SE | SW  | 3S 42E 02 | 0.300 | MUN |     | 0      | 0.2    | MGA  | ES |
| 142   | 21160 | 6221  | 3/25/1963  | CER  | UG  | NW | SW  | 3S 42E 02 | 0.300 | MUN |     | 0      | 0.2    | MGA  | ES |
| 142   | 21159 | 6220  | 3/25/1963  | CER  | UG  | SW | SW  | 3S 42E 02 | 0.110 | MUN |     | 0      | 0.07   | MGA  | ES |
| 142   | 21158 | 6219  | 3/25/1963  | CER  | UG  | SE | SW  | 3S 42E 02 | 0.350 | MUN |     | 0      | 0.24   | MGA  | ES |
| 142   | 21157 | 6218  | 3/25/1963  | CER  | UG  | SE | SW  | 3S 42E 02 | 0.250 | MUN |     | 0      | 0.17   | MGA  | ES |
| 142   | 20552 | 6982  | 7/9/1962   | CER  | UG  | SW | SW  | 3S 42E 02 | 0.250 | MUN |     | 0      | 0.17   | MGA  | ES |
| 142   | 10150 | 2795  | 8/10/1937  | CER  | UG  | NW | SW  | 3S 42E 02 | 0.250 | MUN |     | 0      | 0.17   | MGA  | ES |
| 144   | 64503 |       | 10/5/1998  | PER  | UG  | SW | SW  | 5S 40E 36 | 0.240 | COM |     | 0      | 167.96 | AFA  | ES |
| 144   | 1283  | 205   | 2/8/1909   | CER  | SPR | SE | SE  | 5S 40E 36 | 0.500 | MM  |     | 0      | 117.92 | MGA  | ES |
| 144   | 1283  | 205   | 2/8/1909   | CER  | SPR | SE | SE  | 5S 40E 36 | 0.500 | MM  |     | 0      | 117.92 | MGA  | ES |
| 144   | 5918  | 574   | 12/22/1919 | CER  | SPR | SW | NW  | 5S 40E 35 | 0.250 | OTH |     | 0      | 0      |      | ES |
| 144   | 5918  | 574   | 12/22/1919 | CER  | SPR | SW | NW  | 5S 40E 35 | 0.250 | OTH |     | 0      | 0      |      | ES |
| 146   | 24785 | 8340  | 12/2/1968  | CER  | UG  | NW | NW  | 7S 44E 34 | 2.700 | IRR |     | 160    | 800    | AFS  | NY |
| 146   | 65773 |       | 1/3/2000   | PER  | UG  | NW | SW  | 8S 43E 23 | 1.000 | MM  |     | 0      | 129.78 | AFA  | NY |
| 146   | 57961 |       | 8/12/1992  | PER  | UG  | SE | NE  | 8S 44E 11 | 0.250 | QM  |     | 0      | 1      | MGA  | NY |
| 149   | 57306 | 14639 | 3/17/1992  | CER  | UG  | NE | NW  | 4N 48E 05 | 1.560 | IRR | Y   | 102.06 | 203.24 | AFA  | NY |
| 149   | 55783 | 14139 | 2/7/1991   | CER  | UG  | NE | NW  | 4N 48E 05 | 1.000 | IRR | Y   | 51.25  | 205    | AFA  | NY |
| 149   | 50738 | 14211 | 3/24/1987  | CER  | UG  | NW | SW  | 4N 48E 08 | 1.400 | IRR |     | 78.8   | 315.2  | AFA  | NY |
| 156   | 18354 | 5616  | 9/24/1959  | CER  | UG  | SE | SE  | 4N 51E 03 | 2.000 | IRR |     | 20     | 80     | AFS  | NY |
| 156   | 59707 | 15994 | 1/18/1994  | CER  | UG  | SW | NE  | 5N 50E 13 | 2.000 | IRR |     | 143    | 572    | AFA  | NY |

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|-------|-------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|--------|------|----|
| 156   | 59706 | 15461 | 1/18/1994  | CER  | UG  | NW | NE  | 5N 50E 13 | 2.170 | IRR |     | 141.3 | 565.2  | AFA  | NY |
| 156   | 37398 | 12595 | 3/30/1979  | CER  | UG  | SW | SE  | 5N 50E 13 | 3.000 | IRD |     | 148   | 592    | AFA  | NY |
| 156   | 37391 | 13133 | 3/30/1979  | CER  | UG  | SE | NE  | 5N 50E 13 | 3.000 | IRD |     | 148   | 592    | AFA  | NY |
| 170   | 38960 |       | 9/5/1979   | PER  | UG  | SW | SW  | 3S 55E 30 | 2.000 | QM  | Y   | 0     | 391.02 | MGA  | LI |
| 170   | 38959 |       | 9/5/1979   | PER  | UG  | SW | SW  | 3S 55E 19 | 3.260 | QM  | Y   | 0     | 436.64 | MGA  | LI |
| 170   | 38958 |       | 9/5/1979   | PER  | UG  | SW | NW  | 3S 55E 30 | 2.300 | QM  | Y   | 0     | 391.02 | MGA  | LI |
| 170   | 68277 |       | 12/10/2001 | PER  | UG  | NW | NE  | 3S 55E 33 | 1.880 | IRR |     | 0     | 625    | AFA  | LI |
| 170   | 58423 | 14834 | 12/24/1992 | CER  | UG  | SW | SE  | 3S 55E 33 | 2.360 | IRR | Y   | 133.5 | 400    | AFA  | LI |
| 170   | 58422 | 14833 | 12/24/1992 | CER  | UG  | SW | SE  | 3S 55E 33 | 0.160 | IRR | Y   | 133.5 | 112.5  | AFA  | LI |
| 170   | 58421 | 14832 | 12/24/1992 | CER  | UG  | SW | SE  | 3S 55E 33 | 0.520 | IRR | Y   | 133.5 | 155    | AFA  | LI |
| 170   | 58342 | 15495 | 11/20/1992 | CER  | UG  | SW | SW  | 3S 55E 29 | 1.000 | IRR | Y   | 60    | 300    | AFA  | LI |
| 170   | 58341 | 15494 | 11/20/1992 | CER  | UG  | SW | SW  | 3S 55E 29 | 2.100 | IRR | Y   | 136   | 680    | AFA  | LI |
| 170   | 58340 | 15493 | 11/20/1992 | CER  | UG  | SW | SW  | 3S 55E 29 | 0.980 | IRR | Y   | 54    | 270    | AFA  | LI |
| 170   | 56331 | 14478 | 5/17/1991  | CER  | UG  | SW | NW  | 3S 54E 24 | 0.110 | IRR | Y   | 125   | 79.5   | AFA  | LI |
| 170   | 56330 | 14477 | 5/17/1991  | CER  | UG  | SW | SE  | 3S 54E 24 | 0.250 | IRR | Y   | 125   | 95     | AFA  | LI |
| 170   | 56329 | 14476 | 5/17/1991  | CER  | UG  | SW | SW  | 3S 54E 24 | 0.110 | IRR | Y   | 125   | 79.5   | AFA  | LI |
| 170   | 56327 | 14474 | 5/17/1991  | CER  | UG  | SW | NE  | 3S 54E 24 | 0.250 | IRR | Y   | 125   | 95     | AFA  | LI |
| 170   | 42570 | 13500 | 10/1/1980  | CER  | UG  | SW | SW  | 3S 54E 24 | 0.500 | IRR | Y   | 30    | 150    | AFA  | LI |
| 170   | 36460 | 13499 | 1/15/1979  | CER  | UG  | SW | NW  | 3S 55E 33 | 1.990 | IRR |     | 125   | 625    | AFA  | LI |

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|--------|--------|------|----|
| 170   | 36453 | 13492 | 1/15/1979  | CER  | UG  | SW | SW  | 3S 55E 33 | 1.990 | IRR |     | 125    | 625    | AFA  | LI |
| 170   | 36444 | 13487 | 1/15/1979  | CER  | UG  | SW | NE  | 3S 54E 24 | 1.040 | IRR | Y   | 15     | 99     | AFA  | LI |
| 170   | 36442 | 13485 | 1/15/1979  | CER  | UG  | SW | NW  | 3S 54E 24 | 1.180 | IRR | Y   | 20     | 99     | AFA  | LI |
| 172   | 18644 | 6129  | 3/11/1960  | CER  | UG  | NW | SW  | 3N 57E 16 | 2.000 | IRR |     | 81.81  | 327.26 | AFS  | NY |
| 203   | 67483 |       | 5/4/2001   | PER  | UG  | NW | NW  | 1S 68E 33 | 0.850 | IRR |     | 0      | 116    | AFS  | LI |
| 203   | 64992 |       | 3/29/1999  | PER  | UG  | SE | SE  | 1S 68E 32 | 0.110 | IRR | Y   | 12.45  | 44.03  | AFS  | LI |
| 203   | 64991 |       | 3/29/1999  | PER  | UG  | SW | SW  | 1S 68E 33 | 0.260 | IRR | Y   | 12.45  | 49.8   | AFS  | LI |
| 203   | 63149 | 15398 | 5/28/1997  | CER  | UG  | SE | SE  | 2S 68E 06 | 1.400 | IRR | Y   | 77.8   | 278.86 | AFS  | LI |
| 203   | 50714 | 13652 | 3/20/1987  | CER  | UG  | SW | NE  | 2S 67E 35 | 0.390 | IRR |     | 8      | 40     | AFS  | LI |
| 203   | 49320 | 14827 | 8/30/1985  | CER  | UG  | SE | SE  | 1S 68E 32 | 0.880 | IRR | Y   | 106.8  | 333.69 | AFS  | LI |
| 203   | 22576 | 7597  | 5/7/1965   | CER  | UG  | SE | SE  | 2S 68E 05 | 0.270 | IRR |     | 6.9    | 34.5   | AFS  | LI |
| 203   | 20851 | 7614  | 11/15/1962 | CER  | UG  | NE | SW  | 3S 67E 28 | 2.000 | IRR |     | 74.59  | 373    | AFS  | LI |
| 203   | 20154 | 6328  | 11/13/1961 | CER  | UG  | SW | SE  | 2S 68E 19 | 1.000 | IRR |     | 60     | 300    | AFS  | LI |
| 203   | 19328 | 6789  | 11/14/1960 | CER  | UG  | SE | NE  | 2S 67E 35 | 3.230 | IRR |     | 159.4  | 797    | AFS  | LI |
| 203   | 16912 | 5794  | 4/19/1956  | CER  | UG  | SE | NE  | 1S 68E 32 | 2.000 | IRR |     | 91.5   | 457.5  | AFS  | LI |
| 203   | 16435 | 5793  | 5/2/1955   | CER  | UG  | NW | NW  | 1S 68E 33 | 1.720 | IRR |     | 100    | 500    | AFS  | LI |
| 203   | 14193 | 4869  | 4/2/1952   | CER  | UG  | NE | SW  | 2S 67E 25 | 3.000 | IRR |     | 47.66  | 187    | AFS  | LI |
| 203   | 13047 | 4048  | 9/15/1949  | CER  | UG  | SE | SW  | 2S 68E 05 | 3.000 | IRR |     | 92.7   | 370.8  | AFS  | LI |
| 203   | 13045 | 3943  | 9/12/1949  | CER  | UG  | NE | SE  | 2S 68E 07 | 0.500 | IRR |     | 0      | 32     | AFS  | LI |
| 203   | 12435 | 4062  | 5/5/1948   | CER  | UG  | NW | NW  | 2S 68E 08 | 1.000 | IRR |     | 32.3   | 161.5  | AFS  | LI |
| 203   | 12387 | 3642  | 3/29/1948  | CER  | UG  | SE | SW  | 2S 68E 08 | 1.500 | IRR |     | 100    | 500    | AFS  | LI |
| 203   | 12249 | 3790  | 2/9/1948   | CER  | UG  | SW | SW  | 2S 68E 05 | 0.500 | IRR |     | 20     | 80     | AFS  | LI |
| 203   | 11973 | 4462  | 8/22/1947  | CER  | UG  | SW | SW  | 1S 68E 33 | 0.980 | IRR | Y   | 106.8  | 0.48   | AFS  | LI |
| 203   | 11968 | 4868  | 8/18/1947  | CER  | UG  | SW | SW  | 2S 68E 19 | 2.000 | IRR |     | 164.27 | 821.27 | AFS  | LI |
| 203   | 11723 | 3534  | 11/22/1946 | CER  | UG  | SE | NE  | 1S 68E 32 | 0.490 | IRR |     | 49.3   | 178.9  | AFS  | LI |

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|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|--------|------|----|
| 203   | 11479  | 3038  | 1/9/1946   | CER  | UG  | SE | NW  | 1S 68E 33 | 0.490 | IRR |     | 49.35 | 223.12 | AFS  | LI |
| 203   | 10639  | 4210  | 3/24/1941  | CER  | UG  | NE | NE  | 3S 67E 02 | 0.560 | IRR |     | 55.53 | 204    | AFS  | LI |
| 203   | V04372 |       | 5/21/1985  | DEC  | STR | NW | SW  | 1S 68E 27 | 4.750 | DEC |     | 190.8 | 954    | AFA  | LI |
| 203   | V04353 |       | 5/17/1985  | DEC  | STR | NW | SW  | 1S 68E 27 | 0.970 | DEC |     | 38.7  | 193.5  | AFA  | LI |
| 204   | 48455  |       | 10/4/1984  | PER  | UG  | NW | NW  | 4S 67E 08 | 0.250 | REC |     | 0     | 59     | MGA  | LI |
| 204   | 12708  | 7036  | 11/3/1948  | CER  | UG  | NE | NE  | 4S 67E 08 | 1.000 | IRR |     | 17.5  | 70     | AFS  | LI |
| 204   | V04368 |       | 5/21/1985  | DEC  | UG  | NE | NE  | 5S 69E 16 | 1.520 | DEC |     | 61.1  | 305.5  | AFA  | LI |
| 204   | 58264  | 14556 | 10/23/1992 | CER  | UG  | SE | NW  | 4S 70E 33 | 0.250 | IRR |     | 25.6  | 95.44  | AFA  | LI |
| 204   | 55329  | 15114 | 9/28/1990  | CER  | UG  | SW | NE  | 5S 69E 16 | 1.370 | IRR |     | 43.07 | 215.35 | AFA  | LI |
| 204   | 28632  | 9398  | 8/22/1974  | CER  | UG  | NE | SW  | 5S 69E 11 | 1.200 | IRR |     | 0     | 218.6  | AFA  | LI |
| 204   | 10968  | 2817  | 7/3/1943   | CER  | UG  | SE | NW  | 4S 70E 33 | 0.530 | OTH |     | 0     | 0      |      | LI |
| 204   | V04358 |       | 5/20/1985  | DEC  | UG  | NE | SW  | 4S 70E 33 | 0.340 | DEC |     | 0     | 0      | AFA  | LI |
| 204   | V01473 |       | 12/1/1916  | DEC  | SPR | SW | NW  | 5S 69E 16 | 1.000 | DEC |     | 40    | 200    | AFA  | LI |
| 204   | V01472 |       | 12/1/1916  | DEC  | SPR | NE | NE  | 5S 69E 16 | 1.530 | DEC |     | 61.1  | 305.5  | AFA  | LI |
| 204   | V04575 |       | 9/16/1986  | DEC  | SPR | NE | NW  | 4S 70E 33 | 1.320 | DEC |     | 53    | 265    | AFA  | LI |
| 204   | V04360 |       | 5/20/1985  | DEC  | SPR | SE | NW  | 5S 68E 11 | 2.000 | DEC |     | 0     | 0      | MGA  | LI |
| 204   | 1363   | 603   | 5/24/1909  | CER  | SPR | SW | NW  | 5S 68E 11 | 2.000 | OTH |     | 0     | 471.8  | MGA  | CL |
| 207   | 68233  |       | 11/28/2001 | PER  | UG  | SW | NW  | 5N 60E 24 | 3.500 | IRR |     | 0     | 640    | AFA  | NY |
| 207   | 20797  | 7239  | 10/19/1962 | CER  | UG  | SW | SW  | 6N 61E 06 | 4.450 | IRD | Y   | 90    | 360    | AFA  | NY |
| 207   | 20819  | 7451  | 10/30/1962 | CER  | STR | SW | NW  | 5N 60E 12 | 0.000 | IRR |     | 218   | 507    | AFA  | NY |

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|-------|-------|-------|------------|------|-----|----|-----|------------|--------|-----|-----|--------|---------|------|----|
| 207   | 12517 | 4130  | 6/28/1948  | CER  | STR | NE | NE  | 5N 60E 23  | 10.000 | IRR |     | 463.3  | 1853    | AFA  | NY |
| 207   | 28209 | 9425  | 3/25/1974  | CER  | SPR | NW | NE  | 7N 62E 28  | 2.150  | IRR |     | 450    | 1556.54 | AFA  | NY |
| 207   | 13760 | 4173  | 6/29/1951  | CER  | SPR | SE | NW  | 6N 60E 25  | 5.000  | IRR |     | 378.13 | 1513    | AFA  | NY |
| 207   | 38205 | 12850 | 5/17/1979  | CER  | STR | NW | NW  | 6N 61E 32  | 80.000 | WLD |     | 0      | 1230    | AFA  | WP |
| 207   | 20466 | 6663  | 5/14/1962  | CER  | STR | NW | SW  | 6N 61E 10  | 0.000  | WLD |     | 0      | 3040    | AFA  | NY |
| 228   | 54224 |       | 12/7/1989  | PER  | UG  | SE | NE  | 12S 47E 07 | 0.250  | REC | Y   | 37.02  | 50      | AFA  | NY |
| 228   | 54223 |       | 12/7/1989  | PER  | SPR | SE | NE  | 12S 47E 07 | 0.500  | REC | Y   | 37.02  | 50      | AFA  | NY |
| 229   | 59124 | 15164 | 8/11/1993  | CER  | UG  | NE | NE  | 15S 48E 01 | 0.450  | MM  |     | 0      | 10      | AFA  | NY |
| 173A  | 31590 | 15784 | 5/10/1977  | CER  | UG  | NE | NW  | 2N 53E 19  | 4.900  | IRR |     | 247.52 | 990.08  | AFS  | NY |
| 173B  | 57465 |       | 4/21/1992  | PER  | UG  | SE | SE  | 5N 55E 33  | 2.400  | IRR | Y   | 630    | 1280    | AFA  | NY |
| 173B  | 39895 |       | 12/5/1979  | PER  | UG  | NW | NW  | 5N 55E 32  | 6.000  | IRR | Y   | 600    | 2400    | AFA  | NY |
| 173B  | 39893 |       | 12/5/1979  | PER  | UG  | NE | SW  | 5N 55E 28  | 6.000  | IRR |     | 600    | 2400    | AFA  | NY |
| 173B  | 27377 | 9372  | 3/28/1973  | CER  | UG  | SW | NW  | 5N 55E 27  | 5.400  | IRR |     | 320    | 1280    | AFA  | NY |
| 173B  | 27217 | 10519 | 1/3/1973   | CER  | UG  | SE | SE  | 5N 55E 34  | 4.700  | IRR |     | 320    | 1280    | AFA  | NY |
| 173B  | 26434 | 9396  | 12/13/1971 | CER  | UG  | NW | SW  | 5N 55E 27  | 5.400  | IRR |     | 320    | 1280    | AFA  | NY |
| 173B  | 26137 | 10518 | 5/19/1971  | CER  | UG  | NE | SE  | 5N 55E 36  | 2.010  | IRR |     | 121.46 | 485.84  | AFA  | NY |
| 173B  | 23252 | 7289  | 7/21/1966  | CER  | UG  | SE | SW  | 5N 55E 34  | 5.350  | IRD |     | 320    | 1280    | AFA  | NY |
| 173B  | 23164 | 7087  | 6/6/1966   | CER  | UG  | NE | NE  | 5N 55E 32  | 5.260  | IRD | Y   | 320    | 1280    | AFA  | NY |
| 173B  | 22080 | 7967  | 7/1/1964   | CER  | UG  | SE | NW  | 5N 55E 35  | 2.700  | IRR |     | 114    | 456     | AFA  | NY |
| 173B  | 20781 | 7531  | 10/16/1962 | CER  | UG  | SW | SE  | 5N 55E 35  | 2.700  | IRD |     | 160    | 640     | AFA  | NY |
| 173B  | 10601 | 3062  | 11/29/1940 | CER  | STR | SE | SW  | 6N 57E 27  | 0.500  | MM  |     | 0      | 117.92  | MGA  | NY |

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|-------|--------|-------|------------|------|-----|----|------|-----------|-------|-----|-----|-------|--------|------|----|
| 173B  | 10507  | 3273  | 5/18/1940  | CER  | STR | SW | SE   | 4N 55E 14 | 0.780 | IRR |     | 78.5  | 567.32 | AFA  | NY |
| 141   | 22929  | 7370  | 1/14/1966  | CER  | UG  | NE | SW   | 3N 43E 36 | 0.050 | QM  |     | 0     | 11.79  | MGA  | NY |
| 145   | 5930   | 849   | 1/2/1920   | CER  | SPR | NE | NE   | 5S 44E 05 | 0.020 | STK |     | 0     | 5.9    | MGA  | NY |
| 149   | V02366 |       | 8/25/1950  | VST  | UG  | NW | NE   | 1N 46E 09 | 0.040 | STK |     | 0     | 8.02   | MGA  | NY |
| 149   | V02365 |       | 8/25/1950  | VST  | UG  | NE | NW   | 1N 47E 02 | 0.040 | STK |     | 0     | 8.02   | MGA  | NY |
| 149   | 58114  |       | 9/23/1992  | PER  | UG  | NE | NW   | 1N 48E 11 | 0.050 | STK |     | 0     | 11.8   | MGA  | NY |
| 149   | 58112  |       | 9/23/1992  | PER  | UG  | SW | NE   | 3N 49E 01 | 0.050 | STK |     | 0     | 11.8   | MGA  | NY |
| 149   | 58111  |       | 9/23/1992  | PER  | UG  | SW | NW   | 2N 48E 33 | 0.050 | STK |     | 0     | 11.8   | MGA  | NY |
| 149   | 45862  | 11451 | 6/21/1982  | CER  | UG  | SW | NE   | 4N 49E 32 | 0.030 | STK |     | 0     | 7.3    | MGA  | NY |
| 149   | 13549  | 4228  | 11/16/1950 | CER  | UG  | NE | NW   | 3N 48E 32 | 0.030 | STK |     | 0     | 7.3    | MGA  | NY |
| 149   | V04684 |       | 5/27/1988  | VST  | SPR | NE | SE   | 3N 49E 36 | 0.030 | STK |     | 0     | 7.48   | MGA  | NY |
| 149   | 48204  | 12317 | 7/13/1984  | CER  | STR | SW | SE   | 2N 48E 11 | 0.050 | STK |     | 0     | 11.8   | MGA  | NY |
| 149   | 4311   | 7184  | 2/17/1917  | CER  | SPR | SW | SW   | 2N 49E 07 | 0.020 | STK |     | 0     | 5.9    | MGA  | NY |
| 149   | 4310   | 7183  | 2/17/1917  | CER  | SPR | NW | NW   | 2N 49E 17 | 0.020 | STK |     | 0     | 5.9    | MGA  | NY |
| 156   | V04667 |       | 5/27/1988  | VST  | UG  | SW | SW   | 3N 51E 11 | 0.030 | STK |     | 0     | 7.55   | MGA  | NY |
| 156   | 56690  |       | 8/20/1991  | PER  | UG  |    | LT02 | 2N 51E 15 | 0.030 | STK |     | 0     | 7.48   | MGA  | NY |
| 156   | 13837  | 3779  | 9/13/1951  | CER  | UG  | NE | SW   | 4N 51E 29 | 0.030 | STK |     | 0     | 7.55   | MGA  | NY |
| 156   | 12581  | 3385  | 8/17/1948  | CER  | UG  | SW | NE   | 3N 50E 15 | 0.030 | STK |     | 0     | 7.55   | MGA  | NY |
| 156   | V04813 |       | 4/4/1989   | VST  | SPR | NE | SE   | 2N 50E 19 | 0.030 | STK |     | 0     | 7.55   | MGA  | NY |
| 156   | V04769 |       | 4/4/1989   | VST  | SPR | NW | NE   | 2N 50E 21 | 0.030 | STK |     | 0     | 7.55   | MGA  | NY |
| 156   | V04768 |       | 4/4/1989   | VST  | SPR | SW | NE   | 2N 50E 21 | 0.030 | STK |     | 0     | 7.55   | MGA  | NY |
| 156   | V04767 |       | 4/4/1989   | VST  | SPR | SW | NE   | 2N 50E 28 | 0.030 | STK |     | 0     | 7.55   | MGA  | NY |
| 156   | V04766 |       | 4/4/1989   | VST  | SPR | SE | NW   | 2N 50E 32 | 0.030 | STK |     | 0     | 7.55   | MGA  | NY |
| 156   | V04756 |       | 4/4/1989   | VST  | SPR | NE | SW   | 2N 50E 06 | 0.030 | STK |     | 0     | 7.55   | MGA  | NY |



### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 156   | V04688 |       | 5/27/1988  | VST  | SPR | SW | SE  | 2N 50E 07 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 156   | V04687 |       | 5/27/1988  | VST  | SPR | SW | SE  | 2N 50E 08 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 156   | V04686 |       | 5/27/1988  | VST  | SPR | SW | SE  | 2N 50E 16 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 156   | V04685 |       | 5/27/1988  | VST  | SPR | NE | NW  | 2N 50E 04 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 156   | V04672 |       | 5/27/1988  | VST  | SPR | NW | NW  | 1N 50E 20 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | V03765 |       | 2/23/1982  | VST  | SPR | SW | SE  | 1N 50E 34 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 156   | 52823  | 14000 | 12/22/1988 | CER  | SPR | SE | NW  | 1N 50E 04 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52822  | 13104 | 12/22/1988 | CER  | SPR | SW | NE  | 1N 50E 05 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52819  | 13101 | 12/22/1988 | CER  | SPR | SW | NW  | 1N 50E 05 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52818  | 13100 | 12/22/1988 | CER  | SPR | NE | SW  | 2N 50E 31 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52807  | 14128 | 12/22/1988 | CER  | SPR | SW | NE  | 2N 50E 21 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52805  | 14126 | 12/22/1988 | CER  | SPR | SW | NE  | 2N 50E 28 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52804  | 13097 | 12/22/1988 | CER  | SPR | SE | NW  | 2N 50E 32 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52164  |       | 5/27/1988  | PER  | SPR | SW | SE  | 2N 50E 07 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 52163  | 15234 | 5/27/1988  | CER  | SPR | SW | SE  | 2N 50E 08 | 0.030 | STK |     | 0     | 7.3  | MGA  | NY |
| 156   | 52151  | 15226 | 5/27/1988  | CER  | SPR | NE | SW  | 1N 50E 20 | 0.030 | STK |     | 0     | 7.3  | MGA  | NY |

Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 156   | 52149  | 15257 | 5/27/1988  | CER  | SPR | SE | SE  | 1N 50E 16 | 0.030 | STK |     | 0     | 7.3  | MGA  | NY |
| 156   | 52148  | 15224 | 5/27/1988  | CER  | SPR | SE | SE  | 1N 50E 08 | 0.030 | STK |     | 0     | 7.3  | MGA  | NY |
| 156   | 45381  |       | 2/23/1982  | PER  | SPR | NW | NW  | 4N 49E 12 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 45379  |       | 2/23/1982  | PER  | SPR | SW | SE  | 1N 50E 34 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 38846  | 10715 | 8/20/1979  | CER  | SPR | SW | NE  | 2N 50E 28 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 23354  | 6979  | 8/25/1966  | CER  | SPR | NE | SE  | 2N 50E 22 | 0.020 | STK |     | 0     | 5.66 | MGA  | NY |
| 156   | 17290  | 4624  | 6/3/1957   | CER  | STR | SE | SW  | 4N 50E 14 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 156   | 13377  | 3573  | 5/15/1950  | CER  | SPR | SE | SE  | 1N 50E 10 | 0.030 | STK |     | 0     | 7.48 | MGA  | NY |
| 156   | 13376  | 3572  | 5/15/1950  | CER  | SPR | NE | NE  | 2N 50E 28 | 0.030 | STK |     | 0     | 7.55 | MGA  | NY |
| 170   | 13500  | 3620  | 9/21/1950  | CER  | UG  | SW | SW  | 1S 54E 09 | 0.030 | STK |     | 0     | 7.45 | MGA  | NY |
| 170   | 4860   | 530   | 1/22/1918  | CER  | SPR | SE | NW  | 1N 56E 03 | 0.020 | STK |     | 0     | 7.9  | MGA  | LI |
| 171   | 46737  | 12283 | 3/16/1983  | CER  | UG  | NW | SW  | 3N 59E 10 | 0.030 | STK |     | 0     | 8.1  | MGA  | LI |
| 171   | V01544 |       | 2/23/1918  | VST  | SPR | SE | SE  | 3N 60E 18 | 0.100 | STK |     | 0     | 7.3  | MGA  | NY |
| 171   | 54215  | 16359 | 12/6/1989  | CER  | OSW | SE | SW  | 1S 59E 12 | 0.010 | STK |     | 0     | 11.2 | AFA  | LI |
| 171   | 4859   | 529   | 1/22/1918  | CER  | SPR | NW | NE  | 1N 59E 07 | 0.020 | STK |     | 0     | 5.9  | MGA  | LI |
| 172   | 11047  | 7177  | 1/11/1944  | CER  | UG  | NW | NW  | 1S 57E 02 | 0.020 | STK |     | 0     | 5.26 | MGA  | LI |
| 172   | V01543 |       | 12/22/1917 | VST  | STR | SW | SE  | 3N 57E 14 | 0.500 | STK |     | 0     | 7.3  | MGA  | NY |
| 172   | V01542 |       | 12/22/1917 | VST  | SPR | SW | SE  | 3N 57E 21 | 0.100 | STK |     | 0     | 7.3  | MGA  | NY |
| 172   | 4865   | 944   | 1/24/1918  | CER  | SPR | SE | SW  | 1S 58E 16 | 0.020 | STK |     | 0     | 5.9  | MGA  | LI |
| 172   | 4858   | 943   | 1/22/1918  | CER  | SPR | SW | NE  | 1N 57E 20 | 0.020 | STK |     | 0     | 5.89 | MGA  | LI |
| 203   | 41529  | 11036 | 6/16/1980  | CER  | SPR | SE | NE  | 1N 66E 35 | 0.210 | MUN |     | 0     | 8.02 | MGA  | LI |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|--------|------|----|
| 208   | 2822  | 213   | 11/10/1913 | CER  | SPR |    | NE  | 1S 62E 03  | 0.020 | STK |     | 0     | 5.9    | MGA  | LI |
| 228   | 52045 | 13955 | 4/27/1988  | CER  | UG  | SE | NW  | 12S 46E 02 | 0.330 | MUN | Y   | 0     | 26.78  | MGA  | NY |
| 228   | 52044 |       | 4/27/1988  | PER  | UG  | SW | NE  | 11S 46E 34 | 1.000 | MUN | Y   | 0     | 235.91 | MGA  | NY |
| 228   | 38126 | 13951 | 5/29/1979  | CER  | UG  | SW | NW  | 11S 46E 26 | 0.450 | MUN | Y   | 0     | 45.36  | MGA  | NY |
| 228   | 22839 | 7346  | 11/4/1965  | CER  | UG  | NW | SE  | 12S 47E 07 | 0.520 | MUN | Y   | 0     | 123.36 | MGA  | NY |
| 228   | 22838 | 7345  | 11/4/1965  | CER  | UG  | NW | SE  | 12S 47E 07 | 0.290 | MUN | Y   | 0     | 68.4   | MGA  | NY |
| 228   | 20890 | 6728  | 12/12/1962 | CER  | UG  | SW | SE  | 12S 47E 06 | 0.170 | MUN | Y   | 0     | 40.09  | MGA  | NY |
| 228   | 17328 | 5654  | 7/10/1957  | CER  | SPR | NW | SW  | 11S 46E 26 | 0.050 | QM  |     | 0     | 12.97  | MGA  | NY |
| 228   | 17327 | 5653  | 7/10/1957  | CER  | SPR | NE | SW  | 11S 46E 26 | 0.050 | QM  |     | 0     | 12.97  | MGA  | NY |
| 173A  | 45248 | 11446 | 1/19/1982  | CER  | UG  | SE | NE  | 2N 53E 08  | 0.030 | STK |     | 0     | 7.48   | MGA  | NY |
| 173A  | 21315 | 5763  | 6/3/1963   | CER  | UG  | NE | SE  | 2N 53E 22  | 0.020 | STK |     | 0     | 5.11   | MGA  | NY |
| 173A  | 18526 | 5209  | 1/18/1960  | CER  | UG  | SW | NE  | 1S 51E 19  | 0.030 | STK |     | 0     | 7.3    | MGA  | NY |
| 173A  | 13540 | 3615  | 11/16/1950 | CER  | UG  | NE | NE  | 1S 53E 29  | 0.030 | STK |     | 0     | 7.48   | MGA  | NY |
| 173A  | 13498 | 3618  | 9/21/1950  | CER  | UG  | SW | SE  | 1N 53E 03  | 0.030 | STK |     | 0     | 7.48   | MGA  | NY |
| 173A  | 12682 | 3386  | 10/8/1948  | CER  | UG  | NW | NW  | 1N 53E 27  | 0.030 | STK |     | 0     | 7.48   | MGA  | NY |
| 173A  | 11862 | 3123  | 5/29/1947  | CER  | UG  | SW | SE  | 1S 50E 11  | 0.030 | STK |     | 0     | 7.48   | MGA  | NY |
| 173A  | 11860 | 3797  | 5/29/1947  | CER  | UG  | SW | SE  | 1N 53E 31  | 0.030 | STK |     | 0     | 7.48   | MGA  | NY |
| 173A  | 46198 | 16198 | 10/7/1982  | CER  | SPR | SW | SE  | 1N 54E 17  | 0.030 | STK |     | 0     | 7.48   | MGA  | NY |

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|-------|-------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|-------|------|----|
| 173A  | 46195 | 11459 | 10/7/1982  | CER  | SPR | SW | SW  | 1S 52E 08  | 0.000 | STK |     | 0     | 7.48  | MGA  | NY |
| 173A  | 45377 | 15483 | 2/23/1982  | CER  | SPR | SE | SW  | 3N 52E 18  | 0.030 | STK |     | 0     | 7.48  | MGA  | NY |
| 173A  | 13542 | 3660  | 11/16/1950 | CER  | SPR | NW | SW  | 2S 51E 22  | 0.020 | STK |     | 0     | 5.89  | MGA  | NY |
| 173A  | 11863 | 3844  | 5/29/1947  | CER  | SPR | SW | NW  | 1S 51E 08  | 0.030 | STK |     | 0     | 7.48  | MGA  | NY |
| 173B  | 28911 | 9791  | 11/14/1974 | CER  | UG  | NW | NE  | 4N 53E 32  | 0.020 | STK |     | 0     | 4.38  | MGA  | NY |
| 173B  | 29232 | 10602 | 2/20/1975  | CER  | RES | SE | NW  | 3N 52E 03  | 0.000 | STK |     | 0     | 7.66  | MGA  | NY |
| 173B  | 11753 | 3104  | 1/15/1947  | CER  | STR | NE | SW  | 3N 52E 03  | 0.030 | STK |     | 0     | 7.48  | MGA  | NY |
| 173B  | 11701 | 3103  | 10/5/1946  | CER  | STR | NE | NE  | 4N 53E 31  | 0.030 | STK |     | 0     | 7.44  | MGA  | NY |
| 173B  | 11467 | 3383  | 12/21/1945 | CER  | STR | NE | SW  | 3N 52E 03  | 0.030 | STK |     | 0     | 7.48  | MGA  | NY |
| 227A  | 12729 | 3750  | 11/22/1948 | CER  | UG  | SW | SE  | 14S 50E 30 | 0.010 | STK |     | 0     | 3.77  | MGA  | NY |
| 203   | 30204 | 9095  | 4/30/1976  | CER  | UG  | NE | NW  | 4S 67E 08  | 0.100 | COM |     | 0     | 6.13  | MGA  | LI |
| 203   | 25711 | 9153  | 7/15/1970  | CER  | UG  | SE | SW  | 4S 67E 05  | 0.120 | COM |     | 0     | 5.91  | MGA  | LI |
| 203   | 24407 | 11286 | 3/18/1968  | CER  | UG  | NE | SW  | 4S 67E 05  | 0.500 | COM |     | 0     | 5.48  | MGA  | LI |
| 228   | 62558 |       | 11/1/1996  | PER  | UG  | NE | SW  | 11S 47E 33 | 0.090 | COM |     | 0     | 2     | AFA  | NY |
| 228   | 62264 |       | 6/25/1996  | PER  | UG  | NW | NE  | 10S 47E 31 | 0.200 | COM |     | 0     | 5     | AFA  | NY |
| 228   | 47342 | 14114 | 10/21/1983 | CER  | UG  | SE | SE  | 11S 47E 28 | 0.020 | COM |     | 0     | 1.18  | MGA  | NY |
| 142   | 22691 | 7670  | 7/15/1965  | CER  | UG  | SE | SW  | 2S 42E 34  | 0.020 | IRR |     | 40    | 16.29 | AFA  | ES |
| 142   | 64822 |       | 1/29/1999  | PER  | UG  | NE | SW  | 2S 42E 26  | 1.000 | MM  |     | 0     | 202   | AFA  | ES |
| 142   | 10049 | 2444  | 11/4/1936  | CER  | UG  | NE | SE  | 2S 42E 20  | 0.070 | MM  |     | 0     | 18.16 | MGA  | ES |
| 146   | 65756 |       | 12/27/1999 | PER  | UG  | NW | NE  | 8S 44E 10  | 5.400 | IRR |     | 320   | 1600  | AFA  | NY |
| 146   | 65742 |       | 12/21/1999 | PER  | UG  | SE | SW  | 7S 44E 34  | 0.500 | IRR |     | 28.7  | 140   | AFA  | NY |
| 146   | 65620 |       | 10/20/1999 | PER  | UG  | NW | NW  | 8S 44E 11  | 2.000 | IRR |     | 100   | 500   | AFA  | NY |

### Hydrographic Basin Abstracts - CRC Basins

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|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|--------|------|----|
| 146   | 30703  | 10471 | 9/30/1976  | CER  | UG  | NE | SW  | 7S 44E 34 | 1.240 | IRR |     | 15.45 | 61.8   | AFA  | NY |
| 146   | 28186  | 8836  | 3/14/1974  | CER  | UG  | NE | NW  | 8S 44E 02 | 0.490 | IRR |     | 24    | 120    | AFA  | NY |
| 149   | 69434  |       | 1/2/2003   | PER  | UG  | SE | NW  | 3N 48E 09 | 2.090 | IRR | Y   | 0     | 256    | AFA  | NY |
| 149   | 69336  |       | 11/26/2002 | PER  | UG  | SE | NW  | 3N 48E 09 | 1.080 | IRR | Y   | 0     | 256    | AFA  | NY |
| 149   | 69335  |       | 11/26/2002 | PER  | UG  | SE | NW  | 3N 48E 09 | 1.080 | IRR | Y   | 0     | 192    | AFA  | NY |
| 149   | 69334  |       | 11/26/2002 | PER  | UG  | SE | NW  | 3N 48E 09 | 1.080 | IRR | Y   | 0     | 256    | AFA  | NY |
| 149   | 65215  |       | 6/18/1999  | PER  | UG  | SW | SW  | 3N 48E 09 | 4.320 | IRR | Y   | 880   | 1024   | AFA  | NY |
| 149   | 65214  |       | 6/18/1999  | PER  | UG  | SW | NW  | 3N 48E 09 | 4.320 | IRR | Y   | 880   | 768    | AFA  | NY |
| 149   | 65213  |       | 6/18/1999  | PER  | UG  | NE | SW  | 3N 48E 16 | 2.230 | IRR | Y   | 880   | 768    | AFA  | NY |
| 149   | 64415  | 16130 | 8/24/1998  | CER  | UG  | SE | NE  | 1N 46E 26 | 2.450 | IRR | Y   | 0     | 496.2  | AFA  | NY |
| 149   | 63103  | 16129 | 5/12/1997  | CER  | UG  | SW | NW  | 1N 46E 24 | 2.450 | IRR |     | 320   | 498.96 | AFA  | NY |
| 149   | 63102  | 16128 | 5/12/1997  | CER  | UG  | SW | NE  | 1N 46E 24 | 2.450 | IRR |     | 320   | 496.12 | AFA  | NY |
| 149   | 63100  | 16127 | 5/12/1997  | CER  | UG  | SE | NE  | 1N 46E 26 | 2.450 | IRR | Y   | 0     | 495.32 | AFA  | NY |
| 149   | 48406  |       | 9/17/1984  | PER  | UG  | SW | SW  | 3N 48E 03 | 5.400 | IRR |     | 320   | 1280   | AFA  | NY |
| 149   | 22622  | 7062  | 6/9/1965   | CER  | UG  | SW | SW  | 3N 48E 09 | 0.470 | IRR | Y   | 320   | 240    | AFA  | NY |
| 149   | 22621  | 7061  | 6/9/1965   | CER  | UG  | SW | NW  | 3N 48E 09 | 0.830 | IRR | Y   | 320   | 260    | AFA  | NY |
| 156   | 3180   | 388   | 11/23/1914 | CER  | SPR | NW | SW  | 4N 50E 20 | 0.180 | IRR |     | 18    | 0      |      | NY |
| 156   | 4485   | 812   | 6/30/1917  | CER  | STR | NW | NE  | 1N 50E 04 | 0.480 | IRR |     | 48.4  | 145.2  | AFA  | NY |
| 172   | 70669  |       | 12/2/2003  | PER  | UG  | NW | SW  | 2N 58E 14 | 0.500 | IRR |     | 0     | 88     | AFA  | LI |
| 172   | 9820   | 2582  | 12/4/1934  | CER  | SPR | SW | NE  | 2N 57E 07 | 0.020 | DOM |     | 0     | 5.89   | MGA  | NY |
| 203   | V04588 |       | 3/11/1987  | VST  | UG  | SE | NW  | 1S 68E 33 | 0.780 | IRR |     | 49.35 | 0      |      | LI |
| 203   | V04399 |       | 5/22/1985  | DEC  | UG  | NW | NE  | 2S 68E 08 | 1.000 | DEC |     | 40    | 200    | AFA  | LI |
| 203   | V04398 |       | 5/22/1985  | DEC  | UG  | SE | NE  | 2S 68E 08 | 0.390 | DEC |     | 15.75 | 78.75  | AFA  | LI |
| 203   | V04354 |       | 5/17/1985  | DEC  | UG  | SW | SE  | 2S 67E 35 | 0.590 | DEC |     | 23.9  | 119.5  | AFA  | LI |

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES  | DUTY    | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|--------|---------|------|----|
| 203   | 70019 |       | 5/9/2003   | PER  | UG  | SW | SW  | 2S 68E 05 | 0.880 | IRR | Y   | 0      | 300     | AFA  | LI |
| 203   | 69447 |       | 1/6/2003   | PER  | UG  | SE | NW  | 2S 67E 24 | 1.970 | IRR | Y   | 0      | 1426.22 | AFA  | LI |
| 203   | 67352 |       | 3/19/2001  | PER  | UG  | NW | NE  | 2S 68E 19 | 0.550 | IRR | Y   | 0      | 125     | AFA  | LI |
| 203   | 67351 |       | 3/19/2001  | PER  | UG  | SW | SE  | 2S 68E 18 | 2.780 | IRR | Y   | 0      | 700     | AFA  | LI |
| 203   | 67350 |       | 3/19/2001  | PER  | UG  | SW | SE  | 2S 68E 18 | 2.500 | IRR | Y   | 0      | 725     | AFA  | LI |
| 203   | 67192 |       | 2/5/2001   | PER  | UG  | SE | NE  | 2S 67E 24 | 0.200 | IRR |     | 8.94   | 44.75   | AFA  | LI |
| 203   | 65704 |       | 12/8/1999  | PER  | UG  | SE | SW  | 2S 67E 13 | 2.480 | IRR | Y   | 0      | 1796.89 | AFA  | LI |
| 203   | 65703 |       | 12/8/1999  | PER  | UG  | NW | NW  | 2S 67E 24 | 2.480 | IRR | Y   | 0      | 1796.89 | AFA  | LI |
| 203   | 65702 |       | 2/8/1999   | PER  | UG  | NW | SW  | 2S 67E 13 | 0.990 | IRR | Y   | 0      | 723.24  | AFA  | LI |
| 203   | 65119 |       | 5/13/1999  | PER  | UG  | SE | SW  | 3S 67E 02 | 0.250 | IRR |     | 0      | 100.15  | AFA  | LI |
| 203   | 61614 | 15120 | 10/16/1995 | CER  | UG  | SW | SW  | 2S 68E 17 | 2.040 | IRR | Y   | 177.83 | 571     | AFA  | LI |
| 203   | 61613 | 15119 | 10/16/1995 | CER  | UG  | NW | SW  | 2S 68E 17 | 1.400 | IRR | Y   | 177.83 | 229.16  | AFA  | LI |
| 203   | 61612 | 15118 | 10/16/1995 | CER  | UG  | SW | NW  | 2S 68E 17 | 0.640 | IRR | Y   | 177.83 | 89      | AFA  | LI |
| 203   | 58579 |       | 3/3/1993   | PER  | UG  | SW | NE  | 2S 68E 05 | 2.700 | IRR | Y   | 190.21 | 531.3   | AFA  | LI |
| 203   | 58578 |       | 3/3/1993   | PER  | UG  | SE | NW  | 2S 68E 05 | 2.160 | IRR | Y   | 190.21 | 531.3   | AFA  | LI |
| 203   | 58577 |       | 3/3/1993   | PER  | UG  | SW | NW  | 2S 68E 05 | 1.750 | IRR | Y   | 190.21 | 531.3   | AFA  | LI |
| 203   | 57680 | 16181 | 5/20/1992  | CER  | UG  | SE | NW  | 3S 67E 22 | 2.670 | IRR | Y   | 0      | 1130    | AFA  | LI |
| 203   | 57679 | 16180 | 5/20/1992  | CER  | UG  | SW | SE  | 3S 67E 15 | 2.120 | IRR | Y   | 0      | 1130    | AFA  | LI |
| 203   | 29105 | 10149 | 12/24/1974 | CER  | UG  | NE | SE  | 2S 67E 25 | 4.020 | IRR |     | 128.7  | 643.5   | AFA  | LI |
| 203   | 28235 |       | 4/4/1974   | PER  | UG  | NE | SW  | 2S 67E 25 | 3.500 | IRR |     | 27.8   | 139     | AFA  | LI |
| 203   | 25873 | 9286  | 11/27/1970 | CER  | UG  | NW | NE  | 3S 67E 22 | 3.340 | IRR |     | 334.99 | 1675    | AFA  | LI |
| 203   | 24680 | 8471  | 9/9/1968   | CER  | UG  | SE | NW  | 2S 68E 19 | 4.800 | IRR | Y   | 219.28 | 1096.4  | AFA  | LI |
| 203   | 24349 | 7865  | 2/2/1968   | CER  | UG  | NE | NW  | 2S 68E 08 | 0.700 | IRR |     | 20     | 100     | AFA  | LI |
| 203   | 24327 | 14438 | 1/15/1968  | CER  | UG  | NW | NE  | 3S 67E 28 | 1.280 | IRR |     | 223.12 | 1115.6  | AFA  | LI |

### Hydrographic Basin Abstracts - CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP    | CERT | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS    | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|--------|------|------------|------|-----|----|-----|-----------|--------|-----|-----|-------|--------|------|----|
| 203   | 23197  | 7256 | 6/24/1966  | CER  | UG  | NE | SW  | 2S 68E 08 | 1.400  | IRR |     | 64.5  | 322.5  | AFA  | LI |
| 203   | 23105  | 6670 | 4/22/1966  | CER  | UG  | NW | SE  | 3S 67E 02 | 1.000  | IRR |     | 49    | 245    | AFA  | LI |
| 203   | 22935  | 6793 | 1/24/1966  | CER  | UG  | SE | SW  | 2S 67E 24 | 2.500  | IRR |     | 130   | 650    | AFA  | LI |
| 203   | 22477  | 7554 | 3/4/1965   | CER  | UG  | NW | NE  | 3S 67E 22 | 2.100  | IRD |     | 112   | 560    | AFA  | LI |
| 203   | 21452  | 6863 | 8/13/1963  | CER  | UG  | SW | SE  | 2S 67E 26 | 0.300  | IRR |     | 12    | 60     | AFA  | LI |
| 203   | 21237  | 6811 | 5/1/1963   | CER  | UG  | SE | NE  | 2S 67E 24 | 0.900  | IRR | Y   | 75.3  | 376.5  | AFA  | LI |
| 203   | 21236  | 6810 | 5/1/1963   | CER  | UG  | NE | SE  | 2S 67E 24 | 0.280  | IRR | Y   | 34    | 170    | AFA  | LI |
| 203   | 21206  | 6536 | 4/19/1963  | CER  | UG  | SE | SW  | 3S 67E 02 | 0.590  | IRR |     | 66.8  | 233.85 | AFA  | LI |
| 203   | 21038  | 6703 | 2/12/1963  | CER  | UG  | NW | NW  | 2S 68E 17 | 0.680  | IRR |     | 37.2  | 186    | AFA  | LI |
| 203   | 21037  | 6701 | 2/12/1963  | CER  | UG  | SW | NE  | 3S 67E 02 | 0.930  | IRR |     | 56    | 280    | AFA  | LI |
| 203   | 20264  | 6792 | 1/24/1962  | CER  | UG  | NW | NE  | 2S 67E 25 | 1.280  | IRD |     | 96.2  | 481    | AFA  | LI |
| 203   | 19790  | 6748 | 4/28/1961  | CER  | UG  | SW | SW  | 2S 67E 25 | 2.050  | IRD |     | 88.4  | 442    | AFA  | LI |
| 203   | 19789  | 6747 | 4/28/1961  | CER  | UG  | NE | SE  | 2S 67E 26 | 1.150  | IRD |     | 88.4  | 442    | AFA  | LI |
| 203   | 19788  | 6790 | 4/28/1961  | CER  | UG  | NW | SW  | 2S 67E 25 | 1.000  | IRD |     | 22.7  | 113.5  | AFA  | LI |
| 203   | 19753  | 6077 | 4/17/1961  | CER  | UG  | SE | NE  | 2S 68E 07 | 1.000  | IRR |     | 40    | 158.6  | AFA  | LI |
| 203   | 19119  | 415  | 8/15/1960  | CER  | UG  | SW | SW  | 2S 68E 08 | 1.670  | IRR |     | 155   | 620    | AFA  | LI |
| 203   | 16721  | 4847 | 8/17/1955  | CER  | UG  | SW | NW  | 2S 68E 08 | 1.780  | IRR |     | 209.3 | 837.2  | AFA  | LI |
| 203   | 14834  | 5346 | 2/6/1953   | CER  | UG  | NW | NE  | 2S 67E 25 | 1.000  | IRR |     | 77.3  | 386.5  | AFA  | LI |
| 203   | 11992  | 3511 | 9/1/1947   | CER  | UG  | SW | NW  | 1S 68E 33 | 0.400  | IRR |     | 40.6  | 243.6  | AFA  | LI |
| 203   | 11724  | 3744 | 11/25/1946 | CER  | UG  | SW | NW  | 2S 68E 08 | 1.610  | IRR |     | 105   | 420    | AFA  | LI |
| 203   | V04371 |      | 5/21/1985  | DEC  | SPR | NE | NW  | 2S 68E 04 | 3.590  | DEC |     | 143.7 | 718.5  | AFA  | LI |
| 203   | V04355 |      | 5/17/1985  | DEC  | STR | NW | NE  | 2S 68E 19 | 5.480  | DEC |     | 219.8 | 1099   | AFA  | LI |
| 203   | V04150 |      | 5/4/1984   | DEC  | SPR | NE | NW  | 2S 68E 04 | 10.000 | DEC |     | 800   | 4000   | AFA  | LI |
| 203   | 10461  | 2957 | 12/22/1939 | CER  | OSW | NE | SE  | 2S 67E 24 | 0.480  | IRR |     | 47.66 | 347    | AFA  | LI |
| 204   | 11582  | 3719 | 5/24/1946  | CER  | UG  | NW | NW  | 4S 67E 08 | 1.250  | DOM |     | 0     | 294.98 | MGA  | LI |

Hydrographic Basin Abstracts - CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP    | CERT  | DATE      | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY    | UNIT | CO |
|-------|--------|-------|-----------|------|-----|----|-----|-----------|-------|-----|-----|-------|---------|------|----|
| 204   | V04397 |       | 5/16/1985 | DEC  | UG  | NE | NW  | 4S 67E 08 | 0.500 | DEC |     | 0     | 0       | MGA  | LI |
| 204   | V04363 |       | 5/20/1985 | DEC  | UG  | SW | NE  | 4S 67E 08 | 0.670 | DEC |     | 0     | 0       | MGA  | LI |
| 204   | V04362 |       | 5/20/1985 | DEC  | UG  | SW | NE  | 4S 67E 08 | 1.230 | DEC |     | 0     | 0       | MGA  | LI |
| 204   | V04361 |       | 5/20/1985 | DEC  | UG  | SE | NW  | 4S 67E 08 | 0.670 | DEC |     | 0     | 0       | MGA  | LI |
| 204   | 61675  |       | 11/8/1995 | PER  | UG  | NE | SW  | 3S 70E 36 | 5.350 | IRR |     | 0     | 1567.42 | AFA  | LI |
| 204   | 58004  | 14499 | 8/25/1992 | CER  | UG  | NW | SE  | 4S 67E 10 | 3.300 | IRR |     | 115.1 | 575.5   | AFA  | LI |
| 204   | 24603  | 7971  | 7/25/1968 | CER  | UG  | SE | NW  | 4S 67E 09 | 1.000 | IRR |     | 33.4  | 167     | AFA  | LI |
| 204   | 24602  | 7970  | 7/25/1968 | CER  | UG  | SE | NE  | 4S 67E 09 | 1.000 | IRR | Y   | 22.2  | 111     | AFA  | LI |
| 204   | 24601  | 7969  | 7/25/1968 | CER  | UG  | SE | NE  | 4S 67E 09 | 0.440 | IRR | Y   | 22.2  | 111     | AFA  | LI |



### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP    | CERT | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|--------|------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|--------|------|----|
| 204   | 24600  | 7968 | 7/25/1968  | CER  | UG  | SE | NE  | 4S 67E 09  | 0.150 | IRR | Y   | 22.2  | 108.4  | AFA  | LI |
| 204   | V04402 |      | 5/28/1985  | DEC  | STR | SE | SW  | 2S 68E 18  | 0.006 | DEC |     | 0     | 0      |      | LI |
| 204   | V04400 |      | 5/22/1985  | DEC  | STR | SW | NW  | 4S 67E 12  | 0.060 | DEC |     | 0     | 0      |      | LI |
| 204   | V02235 |      | 5/2/1931   | DEC  | STR | SW | NW  | 4S 67E 12  | 0.060 | DEC |     | 0     | 0      |      | LI |
| 204   | V01588 |      | 2/25/1918  | DEC  | SPR | SW | NW  | 4S 67E 11  | 0.620 | DEC |     | 24.8  | 124    | AFA  | LI |
| 204   | V01284 |      | 1/10/1914  | DEC  | STR | NE | NW  | 4S 67E 08  | 2.500 | DEC |     | 100   | 500    | AFA  | LI |
| 204   | V01071 |      | 8/1/1910   | VST  | SPR |    |     | 4S 67E 08  | 0.000 | IRR |     | 150   | 0      |      | LI |
| 204   | V01595 |      | 10/10/1918 | DEC  | SPR | SE | NE  | 4S 67E 11  | 0.330 | DEC |     | 13.2  | 66     | AFA  | LI |
| 207   | 68238  |      | 11/28/2001 | PER  | UG  | NW | NE  | 4N 61E 27  | 3.500 | IRR |     | 0     | 480    | AFA  | NY |
| 207   | 68237  |      | 11/28/2001 | PER  | UG  | NE | NE  | 4N 61E 07  | 3.500 | IRR |     | 0     | 480    | AFA  | NY |
| 207   | 68236  |      | 11/28/2001 | PER  | UG  | NW | SE  | 4N 61E 06  | 3.500 | IRR |     | 0     | 480    | AFA  | NY |
| 207   | 68235  |      | 11/28/2001 | PER  | UG  | NW | SW  | 5N 61E 31  | 3.500 | IRR |     | 0     | 640    | AFA  | NY |
| 207   | 68234  |      | 11/28/2001 | PER  | UG  | NW | NE  | 5N 60E 25  | 3.500 | IRR |     | 0     | 640    | AFA  | NY |
| 228   | 12489  | 3701 | 6/10/1948  | CER  | UG  | NE | NE  | 11S 47E 21 | 0.220 | IRR |     | 10.84 | 54.2   | AFA  | NY |
| 228   | 12075  | 4135 | 11/15/1947 | CER  | UG  | SW | SE  | 10S 47E 30 | 0.070 | IRR |     | 4.08  | 20.4   | AFA  | NY |
| 228   | V04626 |      | 12/14/1987 | VST  | SPR | SW | NE  | 11S 47E 04 | 0.000 | IRR |     | 95.44 | 477.2  | AFA  | NY |
| 228   | V04586 |      | 2/5/1987   | VST  | SPR | SE | SW  | 12S 47E 05 | 5.000 | IRR |     | 0     | 0      |      | NY |
| 228   | V03150 |      | 3/27/1979  | VST  | SPR | NE | SW  | 11S 47E 04 | 0.900 | IRR |     | 60.72 | 212.52 | AFA  | NY |
| 228   | V03149 |      | 3/27/1979  | VST  | SPR | SW | NE  | 11S 47E 04 | 0.000 | IRR |     | 95.44 | 334.04 | AFA  | NY |
| 228   | V02289 |      | 2/20/1937  | VST  | SPR | NE | NW  | 11S 47E 10 | 0.370 | IRR |     | 37.8  | 273.18 | AFA  | NY |
| 228   | V02288 |      | 2/20/1937  | VST  | SPR | NW | SE  | 11S 47E 10 | 0.370 | IRR |     | 37.8  | 273.18 | AFA  | NY |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|--------|------|----|
| 228   | 24460 | 7015  | 5/3/1968   | CER  | SPR | NE | NE  | 10S 47E 33 | 0.530 | IRR |     | 42.5  | 212.5  | AFA  | NY |
| 228   | 23306 |       | 8/10/1966  | PER  | SPR | SE | SW  | 12S 47E 05 | 0.750 | IRR |     | 400   | 540    | AFA  | NY |
| 228   | 21514 |       | 9/11/1963  | PER  | SPR | SW | NE  | 10S 47E 33 | 2.170 | IRR |     | 160   | 427.5  | AFA  | NY |
| 228   | 11850 | 3137  | 5/17/1947  | CER  | SPR | NE | NE  | 11S 47E 28 | 0.750 | IRR |     | 65    | 299.98 | AFA  | NY |
| 228   | 10563 | 2750  | 10/1/1940  | CER  | SPR | NE | NE  | 11S 47E 18 | 0.030 | DOM |     | 0     | 16.8   | MGA  | NY |
| 228   | 2411  | 316   | 4/17/1912  | CER  | SPR | NW | NE  | 11S 47E 21 | 0.400 | IRR |     | 40    | 0      |      | NY |
| 228   | 270   | 539   | 11/3/1906  | CER  | SPR | NE | NE  | 10S 47E 31 | 2.000 | IRR |     | 80    | 400    | AFA  | NY |
| 228   | 269   | 540   | 11/3/1906  | CER  | SPR | SE | SE  | 10S 47E 30 | 5.000 | IRR |     | 80    | 400    | AFA  | NY |
| 229   | 62375 |       | 8/9/1996   | PER  | UG  | NW | SW  | 12S 48E 04 | 0.500 | MM  | Y   | 0     | 362    | AFA  | NY |
| 229   | 60985 |       | 3/3/1995   | PER  | UG  | NW | SE  | 12S 48E 04 | 0.500 | MM  | Y   | 0     | 362    | AFA  | NY |
| 229   | 52847 | 13788 | 1/5/1989   | CER  | UG  | NW | SE  | 12S 48E 04 | 0.690 | MM  | Y   | 0     | 44.4   | MGA  | NY |
| 229   | 51555 | 13786 | 11/12/1987 | CER  | UG  | SE | NE  | 12S 48E 07 | 0.240 | MM  | Y   | 0     | 2.63   | MGA  | NY |
| 229   | 48436 |       | 9/26/1984  | PER  | UG  | NE | SE  | 13S 48E 20 | 0.590 | MM  |     | 0     | 140    | MGA  | NY |
| 173A  | 31591 | 16240 | 5/16/1977  | CER  | UG  | NE | SW  | 2N 53E 19  | 4.010 | IRR |     | 320   | 889.09 | AFA  | NY |
| 173A  | 31588 | 16239 | 5/10/1977  | CER  | UG  | NE | SW  | 2N 53E 16  | 4.230 | IRR |     | 320   | 807.26 | AFA  | NY |
| 173A  | 31568 | 16238 | 5/10/1977  | CER  | UG  | NE | NW  | 2N 53E 16  | 4.010 | IRR |     | 320   | 990.08 | AFA  | NY |
| 142   | 60963 |       | 2/21/1995  | PER  | UG  | NE | NE  | 1S 42E 10  | 1.500 | MUN | Y   | 0     | 300    | AFA  | ES |
| 142   | 55627 |       | 1/11/1991  | PER  | UG  | NE | NW  | 1S 42E 10  | 1.500 | QM  | Y   | 0     | 48.88  | MGA  | ES |
| 142   | 41861 | 13195 | 7/22/1980  | CER  | UG  | NE | NE  | 1S 42E 10  | 0.180 | QM  | Y   | 0     | 44.35  | MGA  | ES |
| 142   | 21162 | 6222  | 3/25/1963  | CER  | UG  | SE | NW  | 3S 42E 11  | 4.000 | MUN |     | 0     | 2.79   | MGA  | ES |
| 142   | 20555 | 6217  | 7/9/1962   | CER  | UG  | SW | NW  | 3S 42E 02  | 4.000 | MUN |     | 0     | 2.78   | MGA  | ES |
| 142   | 20553 | 6216  | 7/9/1962   | CER  | UG  | SE | SE  | 3S 42E 03  | 2.000 | MUN |     | 0     | 1.39   | MGA  | ES |
| 142   | 27309 | 8754  | 2/23/1973  | CER  | SPR | NE | NW  | 2S 42E 30  | 0.250 | MUN |     | 0     | 58.98  | MGA  | ES |
| 146   | 53898 |       | 9/28/1989  | PER  | UG  | NE | SW  | 7S 44E 28  | 3.000 | QM  |     | 0     | 32.58  | MGA  | NY |
| 149   | 58150 | 14286 | 9/29/1992  | CER  | UG  | SE | SE  | 1S 46E 13  | 1.000 | QM  | Y   | 0     | 150    | MGA  | NY |
| 149   | 58149 | 14285 | 9/29/1992  | CER  | UG  | NE | SE  | 1S 46E 13  | 1.000 | QM  | Y   | 0     | 104.45 | MGA  | NY |
| 149   | 56916 | 14097 | 11/13/1991 | CER  | UG  | NE | SW  | 1N 46E 25  | 0.420 | QM  | Y   | 0     | 7.47   | MGA  | NY |
| 149   | 53885 | 14093 | 9/25/1989  | CER  | UG  | NW | NE  | 1S 46E 02  | 0.890 | QM  | Y   | 0     | 47.87  | MGA  | NY |

### Hydrographic Basin Abstracts - CRC Basins

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|--------|------|----|
| 156   | 45380 | 12752 | 2/23/1982  | CER  | UG  | NE | SW  | 4N 50E 20  | 0.050 | QM  |     | 0     | 2.1    | MGA  | NY |
| 203   | 69300 |       | 11/4/2002  | PER  | UG  | NW | NW  | 2S 68E 08  | 1.000 | MUN | Y   | 0     | 128    | MGA  | LI |
| 203   | 62064 |       | 4/22/1996  | PER  | UG  | SE | NE  | 3S 67E 03  | 0.090 | QM  |     | 0     | 12.41  | MGA  | LI |
| 203   | 56334 |       | 5/20/1991  | PER  | UG  | NW | NE  | 2S 68E 09  | 1.000 | MUN | Y   | 0     | 235.9  | MGA  | LI |
| 203   | 48554 |       | 11/16/1984 | PER  | UG  | SE | SW  | 2S 68E 05  | 1.500 | MUN | Y   | 0     | 128    | MGA  | LI |
| 203   | 38460 | 11305 | 6/29/1979  | CER  | UG  | SE | SW  | 2S 68E 05  | 0.500 | MUN | Y   | 0     | 117.95 | MGA  | LI |
| 203   | 16431 | 5580  | 5/2/1955   | CER  | UG  | SE | SW  | 2S 68E 05  | 1.000 | MUN | Y   | 0     | 723    | AFA  | LI |
| 204   | 54597 |       | 3/23/1990  | PER  | UG  | SE | NE  | 4S 67E 08  | 6.000 | QM  |     | 0     | 500    | AFA  | LI |
| 229   | 57375 |       | 4/2/1992   | PER  | UG  | NW | SW  | 13S 48E 27 | 1.000 | IND | Y   | 0     | 61.38  | AFA  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|-------|------|----|
| 148   | 4943   | 1111  | 3/1/1918   | CER  | STR | SE | SW  | 1S 49E 04 | 0.150 | IRR |     | 14.96 | 44.88 | AFS  | NY |
| 182   | 3475   | 427   | 6/30/1915  | CER  | SPR | SW | SE  | 6S 65E 17 | 0.030 | IRR |     | 12    | 25.15 | AFS  | LI |
| 182   | V01022 |       | 2/6/1911   | VST  | SPR | SW | SE  | 6S 64E 36 | 0.060 | STK |     | 0     | 0.68  | MGS  | LI |
| 182   | 51260  | 12370 | 9/2/1987   | CER  | SPR | SW | SE  | 6S 65E 17 | 0.010 | STK |     | 0     | 2.45  | MGS  | LI |
| 182   | 51259  | 12369 | 9/2/1987   | CER  | SPR | SW | SE  | 6S 65E 17 | 0.010 | STK |     | 0     | 2.33  | MGS  | LI |
| 182   | 6576   | 1500  | 10/13/1921 | CER  | RES | NW | SW  | 4S 63E 21 | 0.010 | STK |     | 0     | 1.62  | MGS  | LI |
| 182   | 5318   | 582   | 11/20/1918 | CER  | RES | SW | SE  | 4S 63E 26 | 0.010 | STK |     | 0     | 1.3   | MGS  | LI |
| 182   | 5316   | 581   | 11/20/1918 | CER  | RES | NW | NE  | 4S 64E 31 | 0.000 | STK |     | 0     | 5.11  | MGS  | LI |
| 198   | 1748   | 113   | 7/11/1910  | CER  | SPR | NW | SE  | 1N 70E 25 | 0.050 | IRR |     | 5.5   | 22    | AFS  | LI |
| 200   | 11759  | 3918  | 1/23/1947  | CER  | STR | SW | SW  | 1N 69E 15 | 3.500 | IRR |     | 270.3 | 1080  | AFS  | LI |
| 200   | 6570   | 1084  | 10/4/1921  | CER  | SPR | NE | SE  | 1N 71E 06 | 0.008 | STK |     | 0     | 1.77  | MGS  | LI |
| 201   | 21622  | 6400  | 1/16/1963  | CER  | STR | NE | NW  | 2N 69E 24 | 0.000 | WLD |     | 0     | 825   | AFA  | LI |
| 202   | 63229  | 16265 | 7/7/1997   | CER  | UG  | SE | SW  | 3N 67E 20 | 0.002 | WLD |     | 0     | 0.32  | MGA  | LI |
| 202   | V04392 |       | 5/21/1985  | VST  | SPR | NW | NW  | 2N 68E 26 | 0.020 | STK |     | 0     | 2.36  | MGS  | LI |

### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP    | CERT  | DATE      | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|--------|-------|-----------|------|-----|----|-----|------------|-------|-----|-----|-------|-------|------|----|
| 205   | 22047  | 6989  | 6/15/1964 | CER  | STR | NW | NE  | 7S 67E 20  | 1.500 | IRR |     | 0     | 157.2 | AFS  | LI |
| 205   | 6493   | 1499  | 6/20/1921 | CER  | STR | SW | NW  | 7S 68E 20  | 0.040 | IRR |     | 4     | 14.65 | AFS  | LI |
| 205   | 4974   | 631   | 3/23/1918 | CER  | STR | SE | SW  | 7S 67E 17  | 0.080 | IRR |     | 8.35  | 30.1  | AFS  | LI |
| 205   | V04348 |       | 5/13/1985 | VST  | SPR | NW | NE  | 6S 69E 31  | 0.020 | STK |     | 0     | 0.91  | MGS  | LI |
| 205   | 4338   | 1569  | 3/2/1917  | CER  | RES | SW | SW  | 7S 68E 17  | 0.010 | STK |     | 0     | 1.53  | MGS  | LI |
| 205   | 4341   | 1571  | 2/2/1917  | CER  | SPR | NW | NW  | 6S 68E 18  | 0.010 | STK |     | 0     | 2.06  | MGS  | LI |
| 205   | 4340   | 426   | 3/2/1917  | CER  | STR | SE | SE  | 6S 67E 23  | 0.020 | STK |     | 0     | 2.21  | MGS  | LI |
| 205   | 4339   | 1570  | 3/2/1917  | CER  | RES | SE | SW  | 7S 68E 05  | 0.010 | STK |     | 0     | 1.53  | MGS  | LI |
| 205   | 47798  | 13579 | 3/14/1984 | CER  | SPR | NE | NW  | 6S 67E 22  | 0.010 | QM  |     | 0     | 0.72  | MGA  | LI |
| 209   | 25907  | 8525  | 1/13/1971 | CER  | UG  | NW | SW  | 4S 60E 23  | 1.110 | WLD |     | 0     | 401.8 | AFA  | LI |
| 209   | 12882  | 6566  | 4/21/1929 | CER  | SPR | NW | SE  | 4S 60E 14  | 6.720 | IRR |     | 633   | 2400  | AFS  | LI |
| 222   | V00782 |       | 9/2/1910  | VST  | STR | NW | SE  | 5S 71E 21  | 0.000 | IRR |     | 27    | 135   | AFS  | LI |
| 222   | 7508   | 1857  | 9/19/1925 | CER  | STR | SW | SE  | 5S 71E 21  | 0.340 | IRR |     | 34.12 | 186   | AFS  | LI |
| 222   | V01121 |       | 7/6/1912  | VST  | SPR | NE | SW  | 6S 70E 14  | 0.010 | STK |     | 0     | 1.47  | MGS  | LI |
| 222   | V01120 |       | 7/5/1912  | VST  | SPR | SE | SE  | 6S 71E 06  | 0.010 | STK |     | 0     | 1.47  | MGS  | LI |
| 222   | V01100 |       | 6/3/1912  | VST  | SPR |    | NE  | 7S 69E 12  | 0.010 | STK |     | 0     | 3.73  | MGS  | LI |
| 222   | V01094 |       | 6/3/1912  | VST  | SPR |    | NE  | 7S 69E 12  | 0.010 | STK |     | 0     | 3.73  | MGS  | LI |
| 230   | 62294  | 15307 | 7/11/1996 | CER  | SPR | SW | NE  | 17S 50E 12 | 0.001 | WLD |     | 0     | 0.45  | AFA  | NY |

Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR  | TRS        | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|------|------------|-------|-----|-----|--------|--------|------|----|
| 230   | 54259  | 14394 | 12/19/1989 | CER  | SPR | NE | NE   | 17S 50E 12 | 0.001 | WLD |     | 0      | 0.51   | AFA  | NY |
| 230   | 54251  | 14351 | 12/19/1989 | CER  | SPR | SW | NE   | 17S 50E 22 | 0.006 | WLD |     | 0      | 4.54   | AFA  | NY |
| 230   | 54250  | 14408 | 12/19/1989 | CER  | SPR | SW | NW   | 17S 50E 23 | 0.060 | WLD |     | 0      | 49.95  | AFA  | NY |
| 230   | 54249  | 14343 | 6/30/1989  | CER  | SPR | SW | SE   | 17S 50E 21 | 0.010 | WLD |     | 0      | 2.5    | AFA  | NY |
| 230   | 53637  | 14387 | 6/30/1989  | CER  | SPR | NW | NE   | 17S 50E 22 | 0.310 | WLD |     | 0      | 225    | AFA  | NY |
| 230   | 53636  | 14406 | 6/30/1989  | CER  | SPR | SW | NW   | 17S 50E 23 | 0.080 | WLD |     | 0      | 50     | AFA  | NY |
| 230   | 53615  | 14344 | 6/30/1989  | CER  | SPR |    | LT12 | 17S 50E 10 | 0.090 | WLD |     | 0      | 65.16  | AFA  | NY |
| 230   | 53611  | 14326 | 6/30/1989  | CER  | SPR | SE | NE   | 17S 50E 09 | 0.330 | WLD |     | 0      | 140    | AFA  | NY |
| 230   | 53610  | 14325 | 6/30/1989  | CER  | SPR | SE | NE   | 17S 50E 09 | 0.630 | WLD |     | 0      | 456    | AFA  | NY |
| 230   | 53608  | 14349 | 6/30/1989  | CER  | SPR | NW | SE   | 17S 50E 21 | 0.020 | WLD |     | 0      | 12     | AFA  | NY |
| 230   | 53606  | 14348 | 6/30/1989  | CER  | SPR | SW | NE   | 17S 50E 21 | 0.010 | WLD |     | 0      | 8.06   | AFA  | NY |
| 230   | 53605  | 14400 | 6/30/1989  | CER  | SPR | SW | NW   | 17S 50E 23 | 0.060 | WLD |     | 0      | 49.95  | AFA  | NY |
| 230   | 53604  | 14350 | 6/30/1989  | CER  | SPR | SW | NE   | 17S 50E 22 | 0.006 | WLD |     | 0      | 4.54   | AFA  | NY |
| 230   | 53603  | 14341 | 6/30/1989  | CER  | SPR | SW | SE   | 17S 50E 21 | 0.010 | WLD |     | 0      | 2.5    | AFA  | NY |
| 230   | 53599  | 14393 | 6/30/1989  | CER  | SPR | NE | NE   | 17S 50E 12 | 0.001 | WLD |     | 0      | 0.58   | AFA  | NY |
| 155C  | 12754  | 3857  | 12/7/1948  | CER  | OSW | SW | SE   | 6N 53E 10  | 0.001 | STK |     | 0      | 0.6    | MGS  | NY |
| 155C  | 12753  | 3856  | 12/7/1948  | CER  | OSW | SW | SE   | 7N 53E 32  | 0.001 | STK |     | 0      | 0.6    | MGS  | NY |
| 169A  | 4746   | 1983  | 11/26/1917 | CER  | SPR | SE | NW   | 4S 58E 27  | 0.001 | STK |     | 0      | 0.27   | MGS  | LI |
| 143   | 13255  | 4037  | 2/3/1950   | CER  | SPR | NW | SW   | 1S 40E 30  | 0.005 | REC |     | 0      | 1.18   | MGA  | ES |
| 148   | 4910   | 1066  | 2/16/1918  | CER  | SPR | NW | SW   | 1N 49E 23  | 0.300 | IRR |     | 30     | 144    | AFS  | NY |
| 198   | 57149  |       | 2/5/1992   | PER  | UG  | NW | NE   | 1N 69E 32  | 0.600 | REC |     | 0      | 3      | MGA  | LI |
| 198   | 34094  | 10059 | 10/13/1977 | CER  | UG  | NW | NE   | 1N 69E 32  | 0.600 | REC |     | 0      | 0.31   | MGA  | LI |
| 198   | 12963  | 4275  | 6/11/1949  | CER  | STR | SW | SE   | 1S 69E 06  | 3.000 | IRR |     | 261    | 832    | AFS  | LI |
| 198   | 7005   | 2106  | 11/19/1923 | CER  | STR | SW | SE   | 1S 69E 06  | 1.190 | IRR |     | 119.24 | 432.05 | AFS  | LI |
| 201   | 34093  | 10058 | 10/13/1977 | CER  | UG  | NW | NW   | 2N 69E 24  | 0.010 | REC | Y   | 0      | 0.28   | MGA  | LI |
| 202   | 5804   | 999   | 10/8/1919  | CER  | SPR | NE | NW   | 1N 66E 26  | 0.050 | IRR |     | 5.74   | 17.22  | AFA  | LI |
| 202   | 5803   | 998   | 10/8/1919  | CER  | SPR | SE | SW   | 1N 66E 26  | 0.001 | STK |     | 0      | 0.26   | MGS  | LI |
| 205   | 9857   | 2342  | 4/24/1935  | CER  | STR | NW | SE   | 5S 66E 15  | 0.430 | IRR |     | 43.34  | 210    | AFS  | LI |
| 222   | 21885  | 6937  | 3/20/1964  | CER  | UG  | NW | NE   | 5S 71E 17  | 0.010 | REC |     | 0      | 2.35   | MGA  | LI |
| 222   | 21884  | 6936  | 3/20/1964  | CER  | UG  | NE | SW   | 5S 71E 21  | 0.010 | REC |     | 0      | 2.35   | MGA  | LI |
| 222   | V01113 |       | 7/6/1912   | VST  | STR | SE | NW   | 4S 71E 32  | 0.250 | IRR |     | 15     | 75     | AFS  | LI |
| 222   | 21883  | 6933  | 3/20/1964  | CER  | SPR | NE | NW   | 5S 71E 17  | 0.005 | REC |     | 0      | 1.36   | MGA  | LI |

### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|-------|------|----|
| 222   | 21882  | 6932  | 3/20/1964  | CER  | SPR | SW | NE  | 5S 71E 17  | 0.010 | REC |     | 0     | 2.35  | MGA  | LI |
| 222   | 18516  | 5283  | 1/11/1960  | CER  | STR | NE | SE  | 5S 71E 17  | 0.000 | REC |     | 0     | 272   | AFA  | LI |
| 230   | 26673  | 9552  | 4/19/1972  | CER  | UG  | NW | NE  | 15S 49E 24 | 0.004 | QM  |     | 0     | 0.32  | MGA  | NY |
| 230   | 12046  | 3840  | 10/14/1947 | CER  | SPR | SE | SW  | 12S 46E 04 | 0.010 | IRR |     | 0     | 10.86 | AFA  | NY |
| 230   | 28140  | 9054  | 2/25/1974  | CER  | SPR | NW | SW  | 12S 46E 05 | 0.003 | QM  |     | 0     | 0.51  | MGA  | NY |
| 230   | 26678  | 8606  | 4/24/1972  | CER  | SPR | NE | SE  | 12S 46E 05 | 0.060 | QM  |     | 0     | 0.11  | MGA  | NY |
| 143   | 44250  | 11268 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 40E 32  | 0.003 | STK |     | 0     | 2.12  | MGA  | ES |
| 143   | 29235  | 9658  | 2/20/1975  | CER  | UG  | NE | NW  | 1S 40E 13  | 0.004 | STK |     | 0     | 1.08  | MGA  | ES |
| 147   | 13365  | 4172  | 5/3/1950   | CER  | UG  | SW | NW  | 4S 47E 21  | 0.010 | STK |     | 0     | 3.67  | MGA  | NY |
| 147   | 13625  | 3956  | 1/29/1951  | CER  | SPR | NW | NE  | 1S 49E 09  | 0.030 | STK |     | 0     | 7.08  | MGA  | NY |
| 147   | 11609  | 4243  | 6/12/1946  | CER  | OSW | SE | SE  | 5S 50E 09  | 0.010 | STK |     | 0     | 2.28  | MGA  | NY |
| 147   | 10863  | 3141  | 9/14/1942  | CER  | SPR | NW | NE  | 7S 47E 08  | 0.005 | STK |     | 0     | 1.18  | MGA  | NY |
| 148   | 13288  | 4170  | 3/6/1950   | CER  | SPR | SW | NW  | 4S 47E 04  | 0.007 | STK |     | 0     | 1.58  | MGA  | NY |
| 148   | 12785  | 4168  | 12/31/1948 | CER  | SPR | SE | NW  | 2S 46E 34  | 0.010 | STK |     | 0     | 2.3   | MGA  | NY |
| 157   | 11865  | 3297  | 5/29/1947  | CER  | OSW | NW | SW  | 5S 51E 13  | 0.030 | STK |     | 0     | 7.08  | MGA  | NY |
| 157   | 11669  | 3266  | 8/19/1946  | CER  | LAK | NE | NE  | 5S 51E 24  | 0.006 | STK |     | 0     | 1.46  | MGA  | NY |
| 157   | 11668  | 3265  | 8/19/1946  | CER  | SPR | SW | NW  | 5S 52E 26  | 0.006 | STK |     | 0     | 1.46  | MGA  | NY |
| 157   | 11626  | 3536  | 7/1/1946   | CER  | STR | SW | SW  | 4S 51E 29  | 0.006 | STK |     | 0     | 1.46  | MGA  | NY |
| 157   | 11606  | 3259  | 6/12/1946  | CER  | RES | NE | SE  | 5S 51E 36  | 0.006 | STK |     | 0     | 1.48  | MGA  | NY |
| 157   | 2357   | 350   | 2/28/1912  | CER  | SPR |    |     | 5S 52E 14  | 0.010 | STK |     | 0     | 2.36  | MGA  | NY |
| 159   | 3892   | 691   | 4/12/1916  | CER  | SPR | SW | SE  | 10S 51E 26 | 0.010 | STK |     | 0     | 3.54  | MGA  | NY |
| 160   | 3890   | 687   | 4/12/1916  | CER  | SPR | NW | SW  | 13S 52E 26 | 0.006 | STK |     | 0     | 1.42  | MGA  | NY |
| 180   | 7397   | 1175  | 6/14/1925  | CER  | UG  | SW | SE  | 6N 63E 31  | 0.010 | STK |     | 0     | 0.61  | MGS  | LI |
| 180   | 6638   | 2105  | 2/27/1922  | CER  | UG  | NE | SE  | 5N 63E 21  | 0.003 | STK |     | 0     | 0.7   | MGA  | LI |
| 180   | 9702   | 2135  | 10/9/1933  | CER  | SPR | SE | NE  | 6N 63E 19  | 0.010 | STK |     | 0     | 2.36  | MGA  | LI |
| 182   | V01822 |       | 7/10/1923  | VST  | SPR | NE | SW  | 6S 65E 17  | 0.050 | STK |     | 0     | 0.55  | MGA  | LI |
| 182   | V01654 |       | 11/29/1919 | VST  | SPR | SW | SE  | 4S 63E 36  | 0.020 | STK |     | 0     | 0.22  | MGA  | LI |

### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 182   | 52118 | 14740 | 5/18/1988  | CER  | SPR | NE | NW  | 6S 65E 17 | 0.001 | STK |     | 0     | 0.11 | MGA  | LI |
| 182   | 52115 | 14739 | 5/18/1988  | CER  | SPR | SW | NE  | 5S 65E 20 | 0.002 | STK |     | 0     | 0.37 | MGA  | LI |
| 182   | 52114 | 14738 | 5/18/1988  | CER  | SPR | NE | NE  | 5S 65E 18 | 0.003 | STK |     | 0     | 0.78 | MGA  | LI |
| 182   | 52113 | 14737 | 5/18/1988  | CER  | SPR | SE | SE  | 5S 65E 06 | 0.008 | STK |     | 0     | 1.84 | MGA  | LI |
| 182   | 52112 | 13782 | 5/18/1988  | CER  | SPR | NW | SW  | 5S 64E 02 | 0.008 | STK |     | 0     | 1.89 | MGA  | LI |
| 182   | 11378 | 4047  | 10/1/1945  | CER  | SPR | SE | NW  | 6S 65E 19 | 0.002 | STK |     | 0     | 0.47 | MGA  | LI |
| 182   | 10736 | 2668  | 10/2/1941  | CER  | RES | NW | NE  | 4S 63E 35 | 0.005 | STK |     | 0     | 1.3  | MGA  | LI |
| 182   | 10629 | 2596  | 2/24/1941  | CER  | SPR | SW | NW  | 6S 65E 20 | 0.006 | STK |     | 0     | 1.41 | MGA  | LI |
| 182   | 10189 | 2403  | 12/3/1937  | CER  | SPR | NE | SE  | 5S 64E 03 | 0.020 | STK |     | 0     | 5.9  | MGA  | LI |
| 182   | 5783  | 1006  | 9/29/1919  | CER  | SPR | NW | NE  | 5S 64E 07 | 0.010 | STK |     | 0     | 3.54 | MGA  | LI |
| 182   | 5782  | 1005  | 9/29/1919  | CER  | SPR | NW | NE  | 5S 64E 07 | 0.010 | STK |     | 0     | 2.95 | MGA  | LI |
| 182   | 5301  | 736   | 10/25/1918 | CER  | RES | SE | NE  | 5S 64E 16 | 0.010 | STK |     | 0     | 3.26 | MGA  | LI |
| 182   | 4693  | 730   | 11/12/1917 | CER  | SPR | SW | SW  | 5S 65E 32 | 0.010 | STK |     | 0     | 2.6  | MGA  | LI |



### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 182   | 4621   | 728   | 10/8/1917  | CER  | SPR |    |     | 5S 64E 02 | 0.003 | STK |     | 0     | 0.71 | MGA  | LI |
| 198   | 65386  | 16306 | 8/6/1999   | CER  | UG  | SE | SW  | 1S 70E 16 | 0.003 | STK |     | 0     | 0.73 | MGA  | LI |
| 202   | 63228  | 15429 | 7/7/1997   | CER  | UG  | SE | SW  | 3N 67E 20 | 0.010 | STK |     | 0     | 2.02 | MGA  | LI |
| 202   | 41412  | 10836 | 5/21/1980  | CER  | UG  | NE | SW  | 2N 67E 16 | 0.001 | STK |     | 0     | 0.08 | MGA  | LI |
| 202   | 35850  | 10214 | 9/6/1978   | CER  | UG  | NE | SE  | 3N 66E 08 | 0.006 | STK |     | 0     | 1.36 | MGA  | WP |
| 202   | 35349  | 10202 | 4/26/1978  | CER  | UG  | NE | SE  | 3N 66E 23 | 0.005 | STK |     | 0     | 1.06 | MGA  | LI |
| 202   | 35347  | 10201 | 4/26/1978  | CER  | UG  | NW | SW  | 3N 66E 15 | 0.005 | STK |     | 0     | 1.06 | MGA  | LI |
| 202   | V02069 |       | 3/3/1927   | VST  | SPR | SW | NE  | 2N 68E 24 | 0.007 | STK |     | 0     | 1.46 | MGA  | LI |
| 202   | 35953  | 10219 | 10/3/1978  | CER  | SPR | NE | NE  | 4N 65E 23 | 0.004 | STK |     | 0     | 1.05 | MGA  | LI |
| 205   | 58026  | 14244 | 8/31/1992  | CER  | UG  | NW | NE  | 7S 67E 20 | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 205   | 52417  | 12841 | 8/12/1988  | CER  | SPR | SW | SE  | 5S 65E 23 | 0.001 | STK |     | 0     | 0.26 | MGA  | LI |
| 205   | 11040  | 3020  | 12/20/1943 | CER  | SPR | SE | SE  | 6S 66E 18 | 0.003 | STK |     | 0     | 0.83 | MGA  | LI |
| 205   | 10899  | 2689  | 12/15/1942 | CER  | OSW | NE | NW  | 5S 65E 14 | 0.009 | STK |     | 0     | 2.12 | MGA  | LI |
| 205   | 10897  | 2770  | 12/3/1942  | CER  | SPR | NE | SW  | 6S 66E 18 | 0.010 | STK |     | 0     | 3.65 | MGA  | LI |
| 205   | 10862  | 2680  | 9/14/1942  | CER  | SPR | NE | NW  | 5S 65E 11 | 0.003 | STK |     | 0     | 0.73 | MGA  | LI |
| 205   | 10656  | 2612  | 4/30/1941  | CER  | SPR | SE | NW  | 4S 65E 34 | 0.008 | STK |     | 0     | 1.89 | MGA  | LI |
| 205   | 10062  | 3404  | 12/9/1936  | CER  | SPR | SW | NW  | 6S 67E 33 | 0.003 | STK |     | 0     | 0.71 | MGA  | LI |
| 205   | 8553   | 2062  | 6/3/1928   | CER  | STR | NW | SW  | 7S 68E 20 | 0.010 | STK |     | 0     | 3.65 | MGA  | LI |
| 209   | 59308  | 15091 | 10/11/1993 | CER  | UG  | NW | NE  | 5S 60E 10 | 0.010 | STK |     | 0     | 2.56 | MGA  | LI |
| 209   | V01567 |       | 4/16/1918  | VST  | SPR | SW | SE  | 4S 59E 07 | 0.020 | STK |     | 0     | 0.71 | MGA  | LI |

### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|-------|------|----|
| 209   | 3853   | 2331  | 4/1/1916   | CER  | SPR | NE | SE  | 4S 58E 36  | 0.001 | STK |     | 0     | 0.21  | MGA  | LI |
| 222   | 9009   | 2046  | 8/12/1929  | CER  | STR | NW | SW  | 5S 71E 28  | 0.006 | STK |     | 0     | 1.42  | MGA  | LI |
| 230   | 3386   | 3034  | 5/8/1915   | CER  | SPR | SE | NW  | 12S 44E 25 | 0.005 | STK |     | 0     | 1.11  | MGA  | NY |
| 230   | 4372   | 3033  | 3/24/1917  | CER  | SPR | SE | SW  | 12S 44E 11 | 0.002 | STK |     | 0     | 0.35  | MGA  | NY |
| 231   | 44718  | 12287 | 10/29/1981 | CER  | UG  | SE | SW  | 10S 42E 02 | 0.006 | STK |     | 0     | 1.46  | MGA  | ES |
| 231   | 29673  | 8848  | 9/25/1975  | CER  | UG  | NW | SW  | 8S 43E 32  | 0.010 | STK |     | 0     | 2.59  | MGA  | ES |
| 232   | 28971  | 8738  | 11/26/1974 | CER  | UG  | NE | SW  | 8S 41E 12  | 0.002 | STK |     | 0     | 1.46  | MGA  | ES |
| 232   | 28832  | 8737  | 10/29/1974 | CER  | UG  | SW | NE  | 8S 41E 11  | 0.002 | STK |     | 0     | 0     |      | ES |
| 232   | 14305  | 4383  | 5/23/1952  | CER  | SPR | SE | NW  | 8S 41E 11  | 0.001 | STK |     | 0     | 0.31  | MGA  | ES |
| 137A  | 8007   | 1900  | 2/17/1927  | CER  | UG  | SW | SW  | 4N 42E 12  | 0.010 | STK |     | 0     | 13.74 | AFA  | NY |
| 137A  | 40075  | 11407 | 12/20/1979 | CER  | UG  | NW | NW  | 3N 41E 28  | 0.006 | STK |     | 0     | 1.46  | MGA  | ES |
| 137A  | 13191  | 4266  | 12/15/1949 | CER  | UG  | NW | NW  | 3N 41E 28  | 0.007 | STK |     | 0     | 0.8   | MGS  | ES |
| 137A  | 9864   | 2520  | 6/3/1935   | CER  | SPR | SW | NW  | 2N 40E 14  | 0.004 | STK |     | 0     | 0.8   | MGA  | ES |
| 137A  | 8008   | 1901  | 2/17/1927  | CER  | SPR | SE | NE  | 4N 42E 35  | 0.020 | STK |     | 0     | 14.52 | AFA  | NY |
| 155C  | 11938  | 3855  | 7/24/1947  | CER  | SPR | NW | NE  | 7N 52E 33  | 0.001 | STK |     | 0     | 1.09  | MGA  | NY |
| 155C  | 11933  | 3850  | 7/24/1947  | CER  | OSW | NE | NW  | 7N 53E 26  | 0.001 | STK |     | 0     | 1.46  | MGA  | NY |
| 158A  | 3889   | 688   | 4/12/1916  | CER  | SPR | SW | SE  | 5S 54E 05  | 3.000 | STK |     | 0     | 0.1   | MGA  | NY |
| 158A  | 3887   | 690   | 4/12/1916  | CER  | SPR | SE | SW  | 5S 53E 31  | 0.003 | STK |     | 0     | 0.1   | MGA  | LI |
| 169A  | V01377 |       | 4/24/1915  | VST  | SPR | NE | NE  | 5S 55E 02  | 0.100 | STK |     | 0     | 0.43  | MGA  | LI |
| 169A  | 5552   | 2332  | 6/21/1919  | CER  | SPR | SW | SW  | 4S 58E 12  | 0.003 | STK |     | 0     | 3.72  | MGA  | LI |
| 143   | 29176  | 12155 | 1/30/1975  | CER  | UG  | SE | SE  | 3S 41E 03  | 0.030 | STK |     | 0     | 7.76  | MGA  | ES |
| 143   | V01436 |       | 12/23/1915 | VST  | SPR | SW | NE  | 5S 40E 09  | 0.000 | STK |     | 0     | 0     |      | ES |
| 143   | V05322 |       | 7/24/1991  | VST  | SPR | SE | SW  | 5S 40E 05  | 0.010 | STK |     | 0     | 0     |      | ES |
| 143   | V04816 |       | 4/12/1989  | VST  | SPR | SW | NE  | 5S 40E 09  | 0.040 | STK |     | 0     | 0     |      | ES |

### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|------|------|----|
| 147   | 12143  | 3253  | 12/27/1947 | CER  | UG  | SE | SW  | 3S 51E 11 | 0.030 | STK |     | 0     | 7.41 | MGA  | NY |
| 148   | V02376 |       | 1/29/1951  | VST  | SPR | NW | NE  | 1S 49E 09 | 0.020 | STK |     | 0     | 0    |      | NY |
| 148   | V02370 |       | 8/25/1950  | VST  | RES | NW | NE  | 3S 48E 19 | 0.020 | STK |     | 0     | 0    |      | NY |
| 148   | V02369 |       | 8/25/1950  | VST  | RES | SE | NE  | 3S 47E 02 | 0.020 | STK |     | 0     | 0    |      | NY |
| 180   | V01965 |       | 1/11/1926  | VST  | SPR | NE | SW  | 6N 63E 30 | 0.002 | STK |     | 0     | 0    | *    | LI |
| 180   | V01964 |       | 1/11/1926  | VST  | SPR | SE | NE  | 6N 63E 19 | 0.004 | STK |     | 0     | 0    | *    | LI |
| 182   | V01449 |       | 3/13/1916  | VST  | SPR | SW | SW  | 3S 62E 25 | 0.100 | STK |     | 0     | 0    | *    | LI |
| 182   | V01419 |       | 9/2/1915   | VST  | SPR | SW | NW  | 5S 65E 20 | 0.020 | STK |     | 0     | 0    |      | LI |
| 182   | V01400 |       | 7/12/1915  | VST  | SPR | NE | SE  | 5S 64E 03 | 0.020 | STK |     | 0     | 0    |      | LI |
| 182   | V01399 |       | 7/3/1915   | VST  | SPR | SE | SE  | 5S 65E 06 | 0.020 | STK |     | 0     | 0    |      | LI |
| 182   | V01598 |       | 10/25/1918 | VST  | SPR | SE | SW  | 6S 64E 01 | 0.020 | STK |     | 0     | 0    |      | LI |
| 182   | 3879   | 1090  | 4/10/1916  | CER  | SPR | SE | SE  | 3S 63E 30 | 0.009 | STK |     | 0     | 0    |      | LI |
| 182   | 4695   | 731   | 11/12/1917 | CER  | SPR | SW | SW  | 5S 65E 32 | 0.010 | STK |     | 0     | 0    |      | LI |
| 198   | 65563  |       | 9/24/1999  | PER  | UG  | NW | NE  | 1S 69E 29 | 0.003 | STK |     | 0     | 0.73 | MGA  | LI |
| 198   | 65388  | 16268 | 8/6/1999   | CER  | UG  | NW | NE  | 1S 69E 29 | 0.003 | STK |     | 0     | 0.73 | MGA  | LI |
| 198   | 9269   | 2258  | 6/5/1930   | CER  | STR | SW | SE  | 1S 69E 06 | 0.020 | STK |     | 0     | 5.11 | MGA  | LI |
| 198   | 650    | 534X  | 8/28/1907  | CER  | SPR |    | SE  | 1S 68E 13 | 0.020 | OTH |     | 0     | 5.9  | MGA  | LI |
| 198   | V04579 |       | 1/26/1987  | VST  | SPR | SW | NE  | 1S 70E 21 | 0.040 | STK |     | 0     | 0    |      | LI |
| 198   | V04306 |       | 5/3/1985   | VST  | SPR | NW | SE  | 1N 71E 18 | 0.000 | STK |     | 0     | 0    |      | LI |
| 200   | V04391 |       | 5/21/1985  | VST  | SPR | SW | SW  | 2N 69E 15 | 0.020 | STK |     | 0     | 0    |      | LI |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|------|------|----|
| 205   | 52416  | 12840 | 8/12/1988  | CER  | SPR | SW | NE  | 5S 66E 18  | 0.002 | STK |     | 0     | 0.51 | MGA  | LI |
| 205   | 52415  | 12839 | 8/12/1988  | CER  | SPR | NE | SW  | 5S 66E 09  | 0.001 | STK |     | 0     | 0.25 | MGA  | LI |
| 205   | 52414  | 12838 | 8/12/1988  | CER  | SPR | NE | SW  | 5S 66E 03  | 0.003 | STK |     | 0     | 0.77 | MGA  | LI |
| 205   | 10924  | 2714  | 2/15/1943  | CER  | SPR | SE | SE  | 5S 66E 17  | 0.002 | STK |     | 0     | 0.58 | MGA  | LI |
| 205   | 10923  | 2713  | 2/15/1943  | CER  | SPR | SE | SE  | 5S 66E 07  | 0.001 | STK |     | 0     | 0.37 | MGA  | LI |
| 205   | 10922  | 2712  | 2/15/1943  | CER  | SPR | NE | SW  | 5S 66E 21  | 0.006 | STK |     | 0     | 1.46 | MGA  | LI |
| 205   | 10655  | 2611  | 4/30/1941  | CER  | SPR | NW | NE  | 4S 66E 19  | 0.007 | STK |     | 0     | 1.65 | MGA  | LI |
| 205   | V01503 |       | 4/21/1917  | VST  | SPR | NW | NW  | 6S 68E 32  | 0.100 | STK |     | 0     | 0    |      | LI |
| 205   | V01448 |       | 2/7/1916   | VST  | SPR | SW | SW  | 6S 67E 01  | 0.100 | STK |     | 0     | 0    |      | LI |
| 205   | V04350 |       | 5/13/1985  | VST  | SPR | NE | SW  | 6S 68E 14  | 0.020 | STK |     | 0     | 0    |      | LI |
| 205   | V04349 |       | 5/13/1985  | VST  | SPR | NW | NW  | 6S 68E 25  | 0.020 | STK |     | 0     | 0    |      | LI |
| 205   | V04347 |       | 5/13/1985  | VST  | SPR | SW | SW  | 7S 68E 01  | 0.020 | STK |     | 0     | 0    |      | LI |
| 205   | V02320 |       | 9/14/1942  | VST  | STR | SE | NE  | 5S 65E 03  | 0.250 | STK |     | 0     | 0    |      | LI |
| 205   | V01632 |       | 7/15/1919  | VST  | SPR | NW | NE  | 6S 65E 12  | 0.100 | STK |     | 0     | 0    |      | LI |
| 205   | V01628 |       | 6/23/1919  | VST  | SPR | SW | SW  | 6S 66E 36  | 0.050 | STK |     | 0     | 0    |      | LI |
| 206   | 5643   | 1528  | 7/29/1919  | CER  | SPR | SW | SE  | 7S 66E 16  | 0.010 | STK |     | 0     | 0    |      | LI |
| 209   | 6114   | 777   | 5/12/1920  | CER  | SPR | NW | SW  | 3S 59E 21  | 0.003 | STK |     | 0     | 0.71 | MGA  | LI |
| 209   | 4719   | 1579  | 11/19/1917 | CER  | SPR | SW | SE  | 3S 59E 11  | 0.001 | STK |     | 0     | 0.24 | MGA  | LI |
| 209   | 4718   | 1578  | 11/19/1917 | CER  | SPR | SE | NE  | 3S 59E 24  | 0.002 | STK |     | 0     | 0.36 | MGA  | LI |
| 222   | 52358  | 13334 | 8/1/1988   | CER  | OSW | SW | NE  | 4S 71E 20  | 0.007 | STK |     | 0     | 1.65 | MGA  | LI |
| 230   | 70417  |       | 9/18/2003  | PER  | UG  |    | LT1 | 16S 48E 35 | 0.050 | COM |     | 0     | 10   | AFA  | NY |
| 230   | 70232  |       | 7/17/2003  | PER  | UG  |    | LT7 | 16S 49E 35 | 0.008 | COM |     | 0     | 2    | AFA  | NY |
| 230   | 70231  |       | 7/17/2003  | PER  | UG  | NE | SW  | 16S 48E 07 | 0.100 | COM |     | 0     | 25.5 | AFA  | NY |
| 230   | 70035  |       | 5/19/2003  | PER  | UG  | SW | SE  | 16S 49E 09 | 0.200 | COM |     | 0     | 15   | AFA  | NY |
| 230   | 69834  |       | 4/9/2003   | PER  | UG  | NE | NW  | 16S 48E 15 | 0.008 | COM |     | 0     | 2    | AFA  | NY |
| 230   | 69729  |       | 3/13/2003  | PER  | UG  | NW | NW  | 16S 49E 27 | 0.170 | COM |     | 0     | 16   | AFA  | NY |
| 230   | 69728  |       | 3/13/2003  | PER  | UG  | SE | SW  | 16S 49E 28 | 0.670 | COM |     | 0     | 60   | AFA  | NY |
| 230   | 68342  |       | 1/4/2002   | PER  | UG  | SE | SW  | 16S 49E 09 | 0.080 | COM |     | 0     | 2    | AFA  | NY |

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| Basin | APP     | CERT  | DATE       | STAT | SRC | QQ | QTR  | TRS        | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|---------|-------|------------|------|-----|----|------|------------|-------|-----|-----|-------|-------|------|----|
| 230   | 68086   |       | 10/12/2001 | PER  | UG  | SE | NW   | 16S 48E 15 | 0.060 | COM |     | 0     | 15    | AFA  | NY |
| 230   | 66042   | 16276 | 2/3/2000   | CER  | UG  | NW | NE   | 17S 49E 10 | 0.170 | COM | Y   | 0     | 59.83 | AFA  | NY |
| 230   | 66041   |       | 2/3/2000   | PER  | UG  | NE | NE   | 17S 49E 09 | 1.000 | COM | Y   | 0     | 59.83 | AFA  | NY |
| 230   | 65237   |       | 6/24/1999  | PER  | UG  |    | LT02 | 16S 48E 07 | 0.050 | COM |     | 0     | 2     | AFA  | NY |
| 230   | 65145   | 16275 | 5/27/1999  | CER  | UG  | NW | NE   | 17S 49E 10 | 0.130 | COM | Y   | 0     | 100   | AFA  | NY |
| 230   | 64767   | 16274 | 1/13/1999  | CER  | UG  | NW | NE   | 17S 49E 10 | 0.140 | COM | Y   | 0     | 57.5  | AFA  | NY |
| 230   | 64766   |       | 1/13/1999  | PER  | UG  | NE | NE   | 17S 49E 09 | 1.000 | COM | Y   | 0     | 57.5  | AFA  | NY |
| 230   | 63715   | 15815 | 1/6/1998   | CER  | UG  | NE | NW   | 16S 48E 15 | 0.020 | COM |     | 0     | 5.08  | AFA  | NY |
| 230   | 61080   | 15366 | 3/28/1995  | CER  | UG  | NW | NE   | 17S 49E 10 | 0.100 | COM | Y   | 0     | 50    | AFA  | NY |
| 230   | 59729   |       | 1/28/1994  | PER  | UG  | NE | NE   | 17S 49E 09 | 0.100 | COM |     | 0     | 50    | AFA  | NY |
| 230   | 59180   | 15424 | 8/26/1993  | CER  | UG  |    | SE   | 16S 49E 35 | 0.007 | COM |     | 0     | 0.53  | MGA  | NY |
| 230   | 51915   |       | 3/11/1988  | PER  | UG  | SE | SE   | 16S 49E 26 | 1.000 | COM |     | 0     | 3.16  | MGA  | NY |
| 230   | 46218   | 12399 | 10/13/1982 | CER  | UG  | NE | NE   | 16S 49E 14 | 0.010 | COM |     | 0     | 0.03  | MGA  | NY |
| 230   | 3385A02 | 7430  | 5/8/1915   | CER  | SPR | NW | SW   | 12S 46E 05 | 0.007 | STK |     | 0     | 1.58  | MGA  | NY |
| 230   | 6050    | 1231  | 4/9/1920   | CER  | SPR | NE | NE   | 12S 46E 11 | 0.001 | STK |     | 0     | 0.18  | MGA  | NY |
| 232   | 29848   | 8851  | 12/8/1975  | CER  | SPR | SE | SE   | 8S 41E 13  | 0.010 | STK |     | 0     | 0     |      | ES |
| 232   | 25329   | 8736  | 10/24/1969 | CER  | SPR | NE | SE   | 8S 41E 11  | 0.020 | STK |     | 0     | 0     |      | ES |
| 232   | 25328   | 8735  | 10/24/1969 | CER  | SPR | NE | SW   | 8S 41E 12  | 0.020 | STK |     | 0     | 0     |      | ES |
| 137A  | V01383  |       | 4/28/1915  | VST  | SPR | NE | NW   | 2N 40E 15  | 0.500 | STK |     | 0     | 0     |      | ES |
| 137A  | V05504  |       | 11/18/1991 | VST  | SPR | SE | NE   | 2N 40E 04  | 0.100 | STK |     | 0     | 0     |      | ES |
| 137A  | V05502  |       | 11/18/1991 | VST  | SPR | SW | SW   | 2N 40E 20  | 0.100 | STK |     | 0     | 0     |      | ES |
| 137A  | V05501  |       | 11/18/1991 | VST  | SPR | NW | NW   | 2N 40E 10  | 0.100 | STK |     | 0     | 0     |      | ES |
| 137A  | V05499  |       | 11/18/1991 | VST  | SPR | NE | NE   | 2N 40E 15  | 0.100 | STK |     | 0     | 0     |      | ES |
| 137A  | 7267    | 1152  | 12/8/1924  | CER  | SPR | SE | NE   | 3N 42E 14  | 0.010 | COM |     | 0     | 2.59  | MGA  | NY |
| 158A  | 3746    | 334   | 12/20/1915 | CER  | SPR | SE | SE   | 6N 52E 12  | 0.020 | STK |     | 0     | 0     |      | NY |
| 169A  | 6069    | 804   | 4/26/1920  | CER  | SPR | NE | SE   | 3S 58E 31  | 0.002 | STK |     | 0     | 0.35  | MGA  | LI |

Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY   | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|--------|------|----|
| 169A  | 6067   | 774   | 4/26/1920  | CER  | SPR | NE | NE  | 3S 58E 16 | 0.004 | STK |     | 0     | 1.06   | MGA  | LI |
| 169A  | 6066   | 803   | 4/26/1920  | CER  | SPR | SE | SE  | 3S 58E 17 | 0.001 | STK |     | 0     | 0.35   | MGA  | LI |
| 169A  | V01505 |       | 5/17/1917  | VST  | SPR | NE | NE  | 4S 58E 03 | 0.050 | STK |     | 0     | 0      |      | LI |
| 169A  | V01382 |       | 4/24/1915  | VST  | SPR | NW | SE  | 5S 55E 12 | 0.050 | STK |     | 0     | 0      |      | LI |
| 169A  | V01381 |       | 4/24/1915  | VST  | SPR | SE | NW  | 5S 55E 12 | 0.050 | STK |     | 0     | 0      |      | LI |
| 169A  | V01380 |       | 4/27/1915  | VST  | SPR | NW | NE  | 5S 55E 12 | 0.050 | STK |     | 0     | 0      |      | LI |
| 169A  | V01374 |       | 4/24/1915  | VST  | SPR | SE | SW  | 5S 55E 01 | 0.050 | STK |     | 0     | 0      |      | LI |
| 169A  | V01607 |       | 3/5/1919   | VST  | SPR | SE | NW  | 4S 58E 13 | 0.020 | STK |     | 0     | 0      |      | LI |
| 169A  | V01566 |       | 4/16/1918  | VST  | SPR | SW | NE  | 4S 58E 13 | 0.020 | STK |     | 0     | 0      |      | LI |
| 142   | 9681   | 2519  | 7/20/1933  | CER  | UG  | SW | SW  | 1S 42E 02 | 0.003 | STK |     | 0     | 0.73   | MGA  | ES |
| 143   | 44269  | 12781 | 8/10/1981  | CER  | UG  | SW | NE  | 1S 40E 29 | 0.260 | MM  | Y   | 0     | 61.33  | MGA  | ES |
| 143   | 44260  | 12777 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 40E 17 | 0.200 | MM  | Y   | 0     | 47.17  | MGA  | ES |
| 143   | 44258  | 12776 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 40E 08 | 0.270 | MM  | Y   | 0     | 63.69  | MGA  | ES |
| 143   | 44257  | 12775 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 40E 07 | 0.350 | MM  | Y   | 0     | 82.56  | MGA  | ES |
| 143   | 44256  | 12774 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 40E 04 | 0.220 | MM  | Y   | 0     | 51.89  | MGA  | ES |
| 143   | 44255  | 12773 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 40E 03 | 0.390 | MM  | Y   | 0     | 92     | MGA  | ES |
| 147   | V02374 |       | 8/25/1950  | VST  | SPR | SE | SE  | 2S 50E 24 | 0.030 | STK |     | 0     | 0      |      | NY |
| 147   | V02373 |       | 8/25/1950  | VST  | SPR | SE | SE  | 2S 50E 04 | 0.010 | STK |     | 0     | 0      |      | NY |
| 148   | V02368 |       | 8/25/1950  | VST  | RES | NW | NW  | 1S 47E 22 | 0.020 | STK |     | 0     | 0      |      | NY |
| 148   | V02378 |       | 1/29/1951  | VST  | SPR | SE | NW  | 1N 49E 28 | 0.020 | STK |     | 0     | 0      |      | NY |
| 148   | V02377 |       | 1/29/1951  | VST  | SPR | SW | SW  | 1N 49E 23 | 0.050 | STK |     | 0     | 0      |      | NY |
| 148   | V02375 |       | 1/29/1951  | VST  | SPR | NW | NE  | 1S 50E 08 | 0.020 | STK |     | 0     | 0      |      | NY |
| 148   | V02367 |       | 8/25/1950  | VST  | SPR | SW | NW  | 1N 49E 32 | 0.010 | STK |     | 0     | 0      |      | NY |
| 148   | V01689 |       | 4/9/1920   | VST  | SPR | SW | NW  | 1N 49E 32 | 0.020 | STK |     | 0     | 0      |      | NY |
| 148   | 1580   | 377   | 1/20/1910  | CER  | SPR | SE | NW  | 2S 46E 34 | 0.010 | IRR |     | 0.25  | 7.24   | AFA  | NY |
| 182   | 9713   | 2423  | 11/25/1933 | CER  | SPR | NE | SW  | 6S 65E 17 | 0.050 | MM  |     | 0     | 25     | AFS  | LI |
| 182   | 4894   |       | 2/7/1918   | PER  | SPR | SE | SE  | 5S 64E 16 | 0.020 | DOM |     | 0     | 0      |      | LI |
| 198   | 43771  | 15185 | 5/20/1981  | CER  | UG  | SW | NW  | 1N 69E 32 | 4.000 | IRR | Y   | 245.7 | 1228.5 | AFS  | LI |
| 198   | 43770  | 15184 | 5/20/1981  | CER  | UG  | NE | SW  | 1N 69E 32 | 4.000 | IRR | Y   | 248   | 1240   | AFS  | LI |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|-------|------|----|
| 198   | 39271  | 13501 | 10/2/1979  | CER  | UG  | NW | NW  | 1N 69E 32 | 2.500 | IRR |     | 83    | 415   | AFS  | LI |
| 198   | 24218  | 8727  | 11/13/1967 | CER  | UG  | NE | SW  | 1N 69E 31 | 2.000 | IRR | Y   | 50    | 200   | AFS  | LI |
| 198   | 24217  | 8726  | 11/13/1967 | CER  | UG  | SE | SW  | 1N 69E 31 | 1.700 | IRR | Y   | 50    | 200   | AFS  | LI |
| 198   | 18352  | 6252  | 9/23/1959  | CER  | UG  | NE | SW  | 1N 69E 31 | 2.000 | IRR |     | 112.8 | 451.2 | AFS  | LI |
| 198   | V01795 |       | 4/27/1922  | DEC  | STR | SE | SE  | 1N 69E 34 | 0.900 | DEC |     | 36.3  | 181.5 | AFA  | LI |
| 198   | 22260  | 7596  | 9/24/1964  | CER  | SPR | SE | SE  | 1N 69E 34 | 0.500 | IRD |     | 16.8  | 67.2  | AFA  | LI |
| 199   | 24199  | 7042  | 11/2/1967  | CER  | UG  | NW | SE  | 1N 69E 21 | 1.250 | IRR |     | 50    | 250   | AFA  | LI |
| 199   | 20861  | 7145  | 11/26/1962 | CER  | UG  | NW | NE  | 1N 69E 21 | 2.200 | IRR |     | 118.2 | 591   | AFA  | LI |
| 199   | 11060  | 3150  | 1/29/1944  | CER  | UG  | NE | NE  | 1N 69E 21 | 0.890 | IRR |     | 88.5  | 293   | AFA  | LI |
| 200   | 68688  |       | 4/8/2002   | PER  | UG  | SE | SE  | 1N 69E 10 | 0.550 | IRR |     | 0     | 140   | AFA  | LI |
| 200   | 28692  | 10502 | 9/16/1974  | CER  | UG  | SW | NE  | 2N 69E 35 | 0.100 | QM  |     | 0     | 0.4   | MGA  | LI |
| 200   | 28691  | 10501 | 9/16/1974  | CER  | UG  | SW | NE  | 2N 69E 35 | 0.100 | QM  |     | 0     | 0.75  | MGA  | LI |
| 200   | 13071  | 3968  | 10/3/1949  | CER  | UG  | SE | NE  | 1N 69E 10 | 2.000 | IRR |     | 29    | 116   | AFA  | LI |
| 201   | 63031  | 15858 | 4/14/1997  | CER  | UG  | NE | NW  | 2N 69E 24 | 0.100 | QM  | Y   | 0     | 1.99  | MGA  | LI |
| 201   | 50718  | 13379 | 3/20/1987  | CER  | UG  | NE | NW  | 2N 69E 24 | 0.030 | QM  | Y   | 0     | 0.8   | MGA  | LI |
| 201   | V01352 |       | 3/1/1915   | DEC  | SPR | NW | SW  | 5S 69E 13 | 3.790 | DEC |     | 151.8 | 759   | AFA  | LI |
| 201   | V04192 |       | 9/28/1984  | VST  | SPR | SE | NW  | 2N 70E 18 | 0.000 | IRR |     | 0     | 0     |      | LI |
| 202   | 65881  |       | 1/19/2000  | PER  | UG  | SE | NW  | 2N 67E 22 | 1.350 | IRR | Y   | 68.64 | 0     |      | LI |
| 202   | 50114  | 14553 | 8/25/1986  | CER  | UG  | SE | NE  | 1N 67E 14 | 0.220 | QM  |     | 0     | 0.97  | MGA  | LI |

Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|-------|-------|------|----|
| 202   | 43265  | 12068 | 2/27/1981  | CER  | UG  | SE | NE  | 1N 67E 14 | 0.110 | QM  |     | 0     | 0.49  | MGA  | LI |
| 202   | 28248  | 8547  | 4/9/1974   | CER  | UG  | SE | NE  | 1N 67E 15 | 2.000 | MM  |     | 0     | 1.87  | MGA  | LI |
| 202   | 26328  | 9402  | 9/22/1971  | CER  | UG  | NE | NE  | 2N 67E 27 | 0.100 | IRR |     | 5     | 20    | AFA  | LI |
| 205   | 58908E |       | 6/7/1993   | PER  | UG  | NW | SW  | 4S 67E 08 | 0.050 | ENV |     | 0     | 13.14 | MGA  | LI |
| 205   | 61081  |       | 3/28/1995  | PER  | UG  | SW | NW  | 5S 66E 02 | 0.100 | COM |     | 0     | 3     | AFA  | LI |
| 205   | V04365 |       | 5/20/1985  | DEC  | UG  | NE | SW  | 7S 67E 07 | 0.020 | DEC |     | 0     | 0     | MGA  | LI |
| 205   | V01229 |       | 2/20/1913  | DEC  | UG  |    |     | 7S 67E 07 | 0.250 | DEC |     | 0     | 0     |      | LI |
| 205   | 47799  | 13580 | 3/14/1984  | CER  | UG  | NW | NE  | 6S 67E 22 | 0.100 | MM  |     | 0     | 2.08  | MGA  | LI |
| 205   | V01076 |       | 12/16/1911 | DEC  | OSW | NW | SE  | 4S 66E 25 | 1.640 | DEC |     | 65.8  | 329   | AFS  | LI |
| 205   | 55879  |       | 2/25/1991  | PER  | SPR | SE | SE  | 4S 66E 01 | 0.002 | QM  |     | 0     | 1.59  | AFA  | LI |
| 205   | 55877  |       | 2/25/1991  | PER  | SPR | NE | NE  | 4S 66E 12 | 0.006 | QM  |     | 0     | 4.85  | AFA  | LI |
| 205   | 55876  |       | 2/25/1991  | PER  | SPR | NE | NE  | 4S 66E 12 | 0.004 | QM  |     | 0     | 3.19  | AFA  | LI |
| 205   | 41000  | 14904 | 4/1/1980   | CER  | SPR | NE | NE  | 4S 67E 19 | 0.007 | REC |     | 0     | 1.58  | MGA  | LI |
| 205   | 40999  | 14903 | 4/1/1980   | CER  | SPR | NE | NE  | 4S 67E 19 | 0.010 | REC |     | 0     | 2.62  | MGA  | LI |
| 205   | 40998  | 14226 | 4/1/1980   | CER  | SPR | NE | NE  | 4S 67E 19 | 0.003 | REC |     | 0     | 0.79  | MGA  | LI |
| 205   | 10625  | 4433  | 2/19/1941  | CER  | SPR | NE | SW  | 4S 67E 08 | 0.480 | IRR |     | 47.66 | 240   | AFS  | LI |
| 205   | 9935   | 2483  | 2/1/1936   | CER  | STR | NW | NE  | 4S 66E 25 | 0.160 | IRR |     | 16.7  | 71    | AFS  | LI |
| 205   | 2873   | 237   | 1/10/1914  | CER  | STR | NE | NW  | 4S 67E 08 | 0.140 | IRR |     | 14    | 0     | *    | LI |
| 205   | V02321 |       | 9/14/1942  | VST  | SPR | NE | SW  | 5S 65E 12 | 0.020 | STK |     | 0     | 0     |      | LI |
| 205   | V00804 |       | 10/31/1910 | VST  | SPR | NW | SE  | 4S 66E 32 | 0.000 | STK |     | 0     | 0     |      | LI |
| 205   | V04345 |       | 5/9/1985   | DEC  | SPR | NE | SW  | 7S 66E 12 | 3.970 | DEC |     | 158.7 | 793.5 | AFA  | LI |
| 205   | V02274 |       | 10/26/1933 | DEC  | STR | SE | NE  | 7S 66E 12 | 3.970 | DEC |     | 158.7 | 0     | AFA  | LI |
| 205   | V01557 |       | 3/9/1918   | DEC  | STR | SW | SW  | 7S 67E 26 | 1.700 | DEC |     | 68    | 340   | AFA  | LI |



### Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP      | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|----------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|--------|--------|------|----|
| 205   | 9988     | 2401  | 5/11/1936  | CER  | STR | NE | NE  | 6S 65E 13  | 0.040 | MM  |     | 0      | 0      | *    | LI |
| 205   | 6396     | 786   | 2/5/1921   | CER  | SPR | SE | NE  | 6S 67E 27  | 0.020 | MM  |     | 0      | 0      | *    | LI |
| 209   | 68334    |       | 12/28/2001 | PER  | UG  | NE | NE  | 4S 60E 34  | 0.250 | IRR | Y   | 0      | 100    | AFA  | LI |
| 209   | 62864    |       | 2/19/1997  | PER  | UG  | NE | NE  | 4S 60E 34  | 0.200 | IRR | Y   | 20     | 100    | AFA  | LI |
| 209   | 52120    | 14481 | 5/20/1988  | CER  | UG  | NE | SW  | 5S 60E 10  | 0.200 | IRR | Y   | 112.38 | 120.2  | AFS  | LI |
| 209   | 35739    | 12877 | 8/14/1978  | CER  | UG  | NW | NW  | 4S 60E 23  | 0.100 | IRR |     | 29     | 66.83  | AFA  | LI |
| 209   | 35256    | 12847 | 4/7/1978   | CER  | UG  | NE | SW  | 5S 60E 10  | 1.110 | IRR | Y   | 160    | 800    | AFA  | LI |
| 209   | 35055    | 10691 | 3/3/1978   | CER  | UG  | NW | NW  | 4S 60E 14  | 0.840 | IRR | Y   | 24     | 120    | AFA  | LI |
| 209   | 28642    | 9636  | 9/3/1974   | CER  | UG  | NE | SW  | 5S 60E 10  | 1.340 | IRR | Y   | 120    | 600    | AFA  | LI |
| 209   | 25913    | 7915  | 1/15/1971  | CER  | UG  | NW | SW  | 4S 60E 23  | 0.740 | IRR | Y   | 116.6  | 270    | AFS  | LI |
| 209   | 25906    | 8904  | 1/13/1971  | CER  | UG  | NW | SW  | 4S 60E 23  | 1.110 | IRR | Y   | 107    | 405    | AFS  | LI |
| 209   | 19475    | 6094  | 1/23/1961  | CER  | UG  | NE | NE  | 4S 60E 34  | 0.800 | IRR |     | 14.7   | 73.5   | AFA  | LI |
| 209   | 13442    | 5313  | 7/7/1950   | CER  | UG  | NE | NE  | 4S 60E 02  | 1.000 | IRR | Y   | 14.5   | 72.5   | AFS  | LI |
| 209   | 13441    | 5312  | 7/7/1950   | CER  | UG  | NW | SE  | 4S 60E 02  | 2.000 | IRR | Y   | 77.15  | 385.75 | AFS  | LI |
| 230   | 67393    |       | 3/30/2001  | PER  | UG  | SW | SE  | 13S 47E 26 | 0.220 | COM |     | 0      | 20     | AFA  | NY |
| 230   | 63480    |       | 10/6/1997  | PER  | UG  | SW | SE  | 13S 47E 26 | 0.010 | COM |     | 0      | 4.3    | MGA  | NY |
| 230   | 62309    |       | 7/17/1996  | PER  | UG  | SW | SW  | 15S 50E 18 | 0.030 | COM |     | 0      | 5      | AFA  | NY |
| 230   | 60705    |       | 12/14/1994 | PER  | UG  | SE | SW  | 15S 50E 18 | 0.010 | COM |     | 0      | 4.46   | MGA  | NY |
| 230   | 59400    |       | 11/29/1993 | PER  | UG  | SE | SW  | 15S 50E 18 | 0.020 | COM |     | 0      | 4      | AFA  | NY |
| 230   | 47528    |       | 12/21/1983 | PER  | UG  | SE | SE  | 15S 49E 13 | 0.500 | COM |     | 0      | 3.53   | MGA  | NY |
| 230   | 13574    | 4276  | 12/19/1950 | CER  | UG  | SW | NE  | 12S 46E 09 | 0.010 | DOM |     | 0      | 1.05   | MGA  | NY |
| 230   | 17657A02 | 7011  | 9/9/1958   | CER  | UG  | NE | NW  | 16S 48E 15 | 0.040 | IRR |     | 5      | 10     | AFS  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP      | CERT | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|----------|------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|-------|------|----|
| 230   | 17657A01 | 6978 | 9/9/1958   | CER  | UG  | NE | NW  | 16S 48E 15 | 0.520 | IRR |     | 150   | 135.8 | AFS  | NY |
| 230   | 70718    |      | 1/5/2004   | PER  | UG  | SE | NW  | 16S 49E 35 | 0.430 | IRR | Y   | 0     | 65.7  | AFA  | NY |
| 230   | 70717    |      | 1/5/2004   | PER  | UG  | SE | NW  | 16S 49E 35 | 0.150 | IRR | Y   | 0     | 40    | AFA  | NY |
| 230   | 70716    |      | 1/5/2004   | PER  | UG  | SE | NW  | 16S 49E 35 | 0.030 | IRR | Y   | 0     | 10    | AFA  | NY |
| 230   | 70715    |      | 1/5/2004   | PER  | UG  | SE | NW  | 16S 49E 35 | 0.030 | IRR | Y   | 0     | 10    | AFA  | NY |
| 230   | 70679    |      | 12/8/2003  | PER  | UG  | SW | SE  | 16S 49E 09 | 0.200 | QM  |     | 0     | 15    | AFA  | NY |
| 230   | 70487    |      | 10/1/2003  | PER  | UG  | NW | NE  | 16S 49E 08 | 0.060 | QM  |     | 0     | 1.68  | AFA  | NY |
| 230   | 70416    |      | 9/18/2003  | PER  | UG  |    | LT1 | 16S 49E 32 | 0.050 | IRR |     | 0     | 10    | AFA  | NY |
| 230   | 70349    |      | 8/25/2003  | PER  | UG  | NW | SW  | 17S 49E 09 | 0.110 | QM  |     | 0     | 5     | AFA  | NY |
| 230   | 70188    |      | 7/2/2003   | PER  | UG  | SE | SW  | 16S 48E 18 | 0.080 | QM  |     | 0     | 1.12  | AFA  | NY |
| 230   | 70150    |      | 6/25/2003  | PER  | UG  | NW | NE  | 17S 49E 07 | 0.110 | QM  |     | 0     | 4.48  | AFA  | NY |
| 230   | 70047    |      | 5/22/2003  | PER  | UG  | NW | NW  | 17S 49E 07 | 0.090 | QM  |     | 0     | 1.68  | AFA  | NY |
| 230   | 69835    |      | 4/9/2003   | PER  | UG  | NE | NW  | 16S 48E 15 | 0.004 | QM  |     | 0     | 1     | AFA  | NY |
| 230   | 69693    |      | 2/27/2003  | PER  | UG  |    | LT3 | 17S 48E 12 | 0.040 | QM  |     | 0     | 2.24  | AFA  | NY |
| 230   | 69692    |      | 2/27/2003  | PER  | UG  | SW | LT3 | 17S 48E 12 | 0.040 | QM  |     | 0     | 2.24  | AFA  | NY |
| 230   | 69661    |      | 2/25/2003  | PER  | UG  | NE | SW  | 16S 49E 22 | 0.040 | QM  |     | 0     | 2.24  | AFA  | NY |
| 230   | 69660    |      | 2/25/2003  | PER  | UG  | NE | SW  | 16S 49E 22 | 0.040 | QM  |     | 0     | 2.24  | AFA  | NY |
| 230   | 69659    |      | 2/25/2003  | PER  | UG  | NE | SW  | 16S 49E 22 | 0.040 | QM  |     | 0     | 2.24  | AFA  | NY |
| 230   | 69540    |      | 2/5/2003   | PER  | UG  | SW | NW  | 16S 48E 15 | 0.160 | IRR |     | 0     | 33.68 | AFA  | NY |
| 230   | 68993    |      | 7/29/2002  | PER  | UG  | NE | NW  | 17S 49E 02 | 0.070 | IRR |     | 0     | 20    | AFA  | NY |
| 230   | 68451    |      | 2/6/2002   | PER  | UG  | SW | NW  | 16S 48E 23 | 0.190 | IRR | Y   | 0     | 50    | AFA  | NY |
| 230   | 68242    |      | 11/29/2001 | PER  | UG  | NW | NW  | 16S 49E 27 | 0.230 | IRR | Y   | 0     | 36.4  | AFA  | NY |
| 230   | 68218    |      | 11/21/2001 | PER  | UG  | NE | SE  | 17S 49E 09 | 1.280 | IRR | Y   | 0     | 0     | AFA  | NY |
| 230   | 68217    |      | 11/21/2001 | PER  | UG  | NW | SW  | 17S 49E 09 | 0.990 | IRR | Y   | 0     | 95    | AFA  | NY |
| 230   | 68184    |      | 11/9/2001  | PER  | UG  | SW | NW  | 16S 48E 07 | 0.030 | IRR |     | 0     | 9.95  | AFA  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP   | CERT | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY  | UNIT | CO |
|-------|-------|------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|-------|------|----|
| 230   | 68087 |      | 10/12/2001 | PER  | UG  | SE | NE  | 16S 48E 16 | 0.090 | IRR |     | 0     | 22.4  | AFA  | NY |
| 230   | 67957 |      | 8/30/2001  | PER  | UG  | NE | NE  | 17S 49E 09 | 0.120 | IRR | Y   | 0     | 75    | AFA  | NY |
| 230   | 67956 |      | 8/30/2001  | PER  | UG  | NE | NE  | 17S 49E 09 | 0.240 | IRR | Y   | 0     | 17.5  | AFA  | NY |
| 230   | 67955 |      | 8/29/2001  | PER  | UG  | SW | NW  | 16S 48E 23 | 0.160 | IRR | Y   | 0     | 44.8  | AFA  | NY |
| 230   | 67843 |      | 7/26/2001  | PER  | UG  | NW | NW  | 16S 49E 27 | 0.070 | IRR | Y   | 0     | 18    | AFA  | NY |
| 230   | 67643 |      | 6/6/2001   | PER  | UG  | NE | NE  | 16S 48E 36 | 0.230 | IRR |     | 0     | 45    | AFA  | NY |
| 230   | 66789 |      | 8/25/2000  | PER  | UG  | NW | NW  | 17S 49E 15 | 0.070 | IRR | Y   | 113.8 | 25    | AFA  | NY |
| 230   | 66788 |      | 8/25/2000  | PER  | UG  | NW | NW  | 17S 49E 15 | 0.330 | IRR | Y   | 113.8 | 111   | AFA  | NY |
| 230   | 66787 |      | 8/25/2000  | PER  | UG  | NW | NW  | 17S 49E 15 | 0.130 | IRR | Y   | 113.8 | 42.98 | AFA  | NY |
| 230   | 66445 |      | 6/9/2000   | PER  | UG  | SE | NE  | 16S 48E 16 | 0.140 | IRR |     | 19.95 | 34.85 | AFA  | NY |
| 230   | 66324 |      | 5/3/2000   | PER  | UG  | SW | NW  | 16S 48E 23 | 0.660 | IRR | Y   | 20    | 100   | AFA  | NY |
| 230   | 66323 |      | 5/3/2000   | PER  | UG  | SW | NW  | 16S 48E 23 | 0.750 | IRR | Y   | 20    | 100   | AFA  | NY |
| 230   | 66281 |      | 4/10/2000  | PER  | UG  | NE | SE  | 16S 49E 22 | 0.070 | IRR |     | 3.98  | 19.8  | AFA  | NY |
| 230   | 66276 |      | 4/10/2000  | PER  | UG  | SW | SE  | 16S 49E 22 | 0.080 | IRR |     | 4.77  | 23.85 | AFA  | NY |
| 230   | 66274 |      | 4/10/2000  | PER  | UG  | SE | SE  | 16S 49E 22 | 0.030 | IRR |     | 1.99  | 0     | AFA  | NY |
| 230   | 66150 |      | 3/15/2000  | PER  | UG  | SE | SW  | 16S 48E 18 | 0.030 | IRR |     | 0     | 11.7  | AFA  | NY |
| 230   | 66083 |      | 2/16/2000  | PER  | UG  | NW | NE  | 16S 49E 36 | 0.030 | IRR |     | 5     | 10    | AFA  | NY |
| 230   | 66065 |      | 2/11/2000  | PER  | UG  | NW | NW  | 16S 48E 15 | 0.010 | QM  |     | 0     | 2.8   | AFA  | NY |
| 230   | 66057 |      | 2/8/2000   | PER  | UG  | NW | NW  | 16S 48E 20 | 0.600 | IRR |     | 39.9  | 200   | AFA  | NY |
| 230   | 65746 |      | 12/23/1999 | PER  | UG  | SW | NW  | 16S 48E 23 | 0.190 | IRR | Y   | 0     | 50    | AFA  | NY |

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR  | TRS        | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|------|------------|-------|-----|-----|--------|--------|------|----|
| 230   | 65637 |       | 10/26/1999 | PER  | UG  | NW | SW   | 17S 49E 15 | 0.020 | IRR |     | 87.5   | 6      | AFA  | NY |
| 230   | 65636 |       | 10/26/1999 | PER  | UG  | NW | SW   | 17S 49E 15 | 0.020 | IRR | Y   | 87.5   | 5.08   | AFA  | NY |
| 230   | 65635 |       | 10/26/1999 | PER  | UG  | NW | SW   | 17S 49E 15 | 0.020 | IRR | Y   | 87.5   | 5.08   | AFA  | NY |
| 230   | 65474 |       | 8/30/1999  | PER  | UG  |    | SE   | 17S 48E 12 | 0.040 | IRR |     | 0      | 10     | AFA  | NY |
| 230   | 65473 |       | 8/30/1999  | PER  | UG  |    | SE   | 17S 48E 12 | 0.060 | IRR |     | 0      | 24     | AFA  | NY |
| 230   | 65401 |       | 8/10/1999  | PER  | UG  | NW | SW   | 17S 49E 15 | 0.900 | IRR | Y   | 87.5   | 300    | AFA  | NY |
| 230   | 65327 |       | 7/20/1999  | PER  | UG  | NW | NW   | 17S 49E 15 | 0.150 | IRR | Y   | 0      | 50     | AFA  | NY |
| 230   | 65236 |       | 6/24/1999  | PER  | UG  |    | LT08 | 16S 48E 35 | 0.030 | IRR | Y   | 0      | 10     | AFA  | NY |
| 230   | 65235 |       | 6/24/1999  | PER  | UG  |    | LT08 | 16S 48E 35 | 0.030 | IRR | Y   | 0      | 10     | AFA  | NY |
| 230   | 64997 | 15733 | 4/1/1999   | CER  | UG  | SE | SW   | 16S 49E 09 | 0.150 | IRR |     | 9.99   | 39.96  | AFA  | NY |
| 230   | 64856 |       | 2/17/1999  | PER  | UG  | SE | SE   | 16S 47E 12 | 0.080 | MM  |     | 0      | 6      | AFA  | NY |
| 230   | 64737 |       | 1/5/1999   | PER  | UG  | NE | SE   | 17S 48E 01 | 0.550 | IRR | Y   | 117.18 | 185.9  | AFA  | NY |
| 230   | 64736 |       | 1/5/1999   | PER  | UG  | NW | SE   | 17S 48E 01 | 1.350 | IRR | Y   | 117.18 | 400    | AFA  | NY |
| 230   | 64552 |       | 10/27/1998 | PER  | UG  | NE | NE   | 16S 48E 15 | 0.008 | IRR |     | 0      | 2      | AFA  | NY |
| 230   | 64491 |       | 9/29/1998  | PER  | UG  | NE | SW   | 17S 49E 09 | 3.120 | IRR | Y   | 210    | 250    | AFA  | NY |
| 230   | 64490 |       | 9/29/1998  | PER  | UG  | NE | NW   | 17S 49E 09 | 1.110 | IRR | Y   | 210    | 200    | AFA  | NY |
| 230   | 64489 |       | 9/29/1998  | PER  | UG  | NE | SE   | 17S 49E 09 | 2.450 | IRR | Y   | 210    | 790    | AFA  | NY |
| 230   | 64457 | 16054 | 9/17/1998  | CER  | UG  | NE | NW   | 17S 48E 12 | 1.080 | IRR | Y   | 125.6  | 524.83 | AFA  | NY |
| 230   | 64456 | 16053 | 9/17/1998  | CER  | UG  | NE | NW   | 17S 48E 12 | 0.280 | MM  |     | 0      | 68.8   | AFA  | NY |
| 230   | 63566 |       | 11/14/1997 | PER  | UG  |    | LT03 | 17S 48E 12 | 0.030 | IRR |     | 0      | 10     | AFA  | NY |
| 230   | 63565 |       | 11/14/1997 | PER  | UG  |    | LT01 | 17S 48E 12 | 0.090 | IRR |     | 0      | 24.68  | AFA  | NY |
| 230   | 63235 |       | 7/8/1997   | PER  | UG  | SE | NE   | 16S 49E 08 | 0.110 | IRR |     | 4.55   | 18.2   | AFA  | NY |
| 230   | 63234 |       | 7/8/1997   | PER  | UG  | SE | NE   | 16S 49E 08 | 0.110 | IRR |     | 4.7    | 18.2   | AFA  | NY |
| 230   | 63174 | 15764 | 6/11/1997  | CER  | UG  | NE | SW   | 16S 48E 23 | 0.950 | IRR | Y   | 111.96 | 94.5   | AFA  | NY |
| 230   | 63153 | 15763 | 5/29/1997  | CER  | UG  | NE | SW   | 16S 48E 23 | 0.060 | IRR | Y   | 111.96 | 23.9   | AFA  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP   | CERT  | DATE      | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|-------|-------|-----------|------|-----|----|-----|------------|-------|-----|-----|--------|--------|------|----|
| 230   | 63152 | 15762 | 5/29/1997 | CER  | UG  | NE | SW  | 16S 48E 23 | 0.060 | IRR | Y   | 111.96 | 24     | AFA  | NY |
| 230   | 63151 | 15761 | 5/29/1997 | CER  | UG  | NE | SW  | 16S 48E 23 | 0.200 | IRR | Y   | 111.96 | 71.84  | AFA  | NY |
| 230   | 63143 | 15842 | 5/27/1997 | CER  | UG  | SE | NE  | 16S 49E 08 | 0.100 | QM  |     | 0      | 3.95   | AFA  | NY |
| 230   | 63082 |       | 5/5/1997  | PER  | UG  | NE | NW  | 16S 49E 33 | 1.250 | IRR |     | 39.4   | 157.6  | AFA  | NY |
| 230   | 62919 | 15760 | 3/13/1997 | CER  | UG  | NE | SW  | 16S 48E 23 | 0.520 | IRR | Y   | 111.96 | 148.55 | AFA  | NY |
| 230   | 62918 | 15759 | 3/13/1997 | CER  | UG  | NE | SW  | 16S 48E 23 | 0.860 | IRR | Y   | 111.96 | 197    | AFA  | NY |
| 230   | 62465 | 16051 | 9/19/1996 | CER  | UG  | SW | NW  | 16S 48E 07 | 0.020 | IRR |     | 0      | 6.43   | AFA  | NY |
| 230   | 62373 |       | 8/8/1996  | PER  | UG  | SE | SE  | 16S 49E 22 | 0.040 | IRR |     | 2.27   | 11.35  | AFA  | NY |
| 230   | 62322 |       | 7/24/1996 | PER  | UG  | NW | SE  | 16S 49E 05 | 0.040 | IRR |     | 10     | 7      | AFA  | NY |
| 230   | 61205 | 15738 | 5/5/1995  | CER  | UG  |    | SE  | 16S 49E 32 | 0.320 | IRR |     | 17.9   | 89.5   | AFA  | NY |
| 230   | 60472 | 15364 | 9/14/1994 | CER  | UG  | SE | NW  | 16S 48E 15 | 0.030 | IRR |     | 2.5    | 8      | AFA  | NY |
| 230   | 60471 | 15031 | 9/14/1994 | CER  | UG  | NW | NW  | 16S 48E 15 | 0.010 | IRR |     | 1      | 4      | AFA  | NY |
| 230   | 60468 |       | 9/14/1994 | PER  | UG  | SW | NW  | 16S 48E 15 | 0.030 | IRR |     | 2.26   | 9.08   | AFA  | NY |
| 230   | 60466 | 15302 | 9/14/1994 | CER  | UG  | SE | NW  | 16S 48E 15 | 0.030 | IRR |     | 1.5    | 4.3    | AFA  | NY |
| 230   | 60463 | 15632 | 9/14/1994 | CER  | UG  | NW | NW  | 16S 48E 15 | 0.030 | IRR |     | 2.5    | 10     | AFA  | NY |
| 230   | 60462 | 15363 | 9/14/1994 | CER  | UG  | SE | NW  | 16S 48E 15 | 0.030 | IRR |     | 2.5    | 10     | AFA  | NY |
| 230   | 60455 | 15696 | 9/14/1994 | CER  | UG  | NW | NW  | 16S 48E 15 | 0.030 | IRR |     | 2.5    | 10     | AFA  | NY |
| 230   | 60450 | 14925 | 9/14/1994 | CER  | UG  | NW | NW  | 16S 48E 15 | 0.020 | IRR |     | 1.36   | 5.44   | AFA  | NY |
| 230   | 60439 |       | 9/12/1994 | PER  | UG  | NE | NW  | 16S 48E 15 | 0.120 | IRR |     | 9.08   | 33.32  | AFA  | NY |
| 230   | 60438 |       | 9/12/1994 | PER  | UG  | SE | NW  | 16S 48E 15 | 0.150 | IRR |     | 10     | 40     | AFA  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|--------|--------|------|----|
| 230   | 60437 | 14999 | 9/12/1994  | CER  | UG  | NW | NW  | 16S 48E 15 | 0.030 | IRR |     | 2.5    | 10     | AFA  | NY |
| 230   | 60435 | 15810 | 9/12/1994  | CER  | UG  | NW | NW  | 16S 48E 15 | 0.020 | IRR |     | 2.5    | 7.2    | AFA  | NY |
| 230   | 60434 | 15324 | 9/12/1994  | CER  | UG  | SW | NW  | 16S 48E 15 | 0.030 | IRR |     | 2.5    | 8      | AFA  | NY |
| 230   | 60433 | 14924 | 9/12/1994  | CER  | UG  | NW | NW  | 16S 48E 15 | 0.030 | IRR |     | 2.5    | 10     | AFA  | NY |
| 230   | 60431 | 15631 | 9/9/1994   | CER  | UG  | SW | NW  | 16S 48E 15 | 0.030 | IRR |     | 2.27   | 9.08   | AFA  | NY |
| 230   | 60233 |       | 7/22/1994  | PER  | UG  | NW | NW  | 16S 48E 15 | 0.040 | IRR |     | 2.5    | 10     | AFA  | NY |
| 230   | 60162 | 15301 | 6/27/1994  | CER  | UG  | NW | NW  | 16S 48E 15 | 0.030 | IRR |     | 2.5    | 10     | AFA  | NY |
| 230   | 55156 | 14283 | 8/7/1990   | CER  | UG  | NW | SW  | 16S 48E 10 | 0.240 | IRR |     | 5      | 25     | AFA  | NY |
| 230   | 49885 | 13475 | 5/20/1986  | CER  | UG  | SE | NW  | 17S 48E 12 | 0.250 | IRR |     | 13     | 65     | AFA  | NY |
| 230   | 49804 | 13202 | 3/31/1986  | CER  | UG  | SE | SE  | 16S 49E 26 | 0.010 | QM  |     | 0      | 0.04   | MGA  | NY |
| 230   | 49220 | 13040 | 7/24/1985  | CER  | UG  | NE | NE  | 16S 49E 28 | 0.890 | IRR |     | 14.7   | 73.5   | AFA  | NY |
| 230   | 45740 | 12833 | 6/2/1982   | CER  | UG  | NE | NW  | 16S 49E 27 | 0.020 | QM  |     | 0      | 1.1    | MGA  | NY |
| 230   | 45163 | 14014 | 12/29/1981 | CER  | UG  | SE | SW  | 17S 49E 02 | 0.440 | QM  | Y   | 0      | 3.18   | MGA  | NY |
| 230   | 45162 | 14013 | 12/29/1981 | CER  | UG  | SE | SW  | 17S 49E 02 | 0.440 | QM  | Y   | 0      | 3.18   | MGA  | NY |
| 230   | 43524 | 11303 | 4/13/1981  | CER  | UG  | NE | NE  | 17S 49E 09 | 1.450 | IRR |     | 125.6  | 628    | AFA  | NY |
| 230   | 40954 | 11260 | 3/26/1980  | CER  | UG  | SE | SE  | 16S 49E 22 | 0.170 | IRR |     | 9.53   | 47.69  | AFA  | NY |
| 230   | 38363 | 10657 | 6/18/1979  | CER  | UG  | SE | NE  | 16S 48E 26 | 1.660 | IRR |     | 116.67 | 583.35 | AFA  | NY |
| 230   | 38127 | 9939  | 5/10/1979  | CER  | UG  | SE | NW  | 16S 48E 26 | 1.660 | IRR |     | 116.67 | 583.33 | AFA  | NY |
| 230   | 36584 | 10676 | 1/31/1979  | CER  | UG  | NW | NW  | 16S 48E 15 | 0.040 | IRR |     | 5      | 10     | AFA  | NY |
| 230   | 35592 |       | 7/5/1978   | PER  | UG  | SE | SW  | 17S 48E 01 | 0.500 | QM  |     | 0      | 3.08   | MGA  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|--------|--------|------|----|
| 230   | 31727 | 9318  | 5/16/1977  | CER  | UG  | SE | SW  | 16S 49E 09 | 0.160 | IRR |     | 5      | 25     | AFA  | NY |
| 230   | 31204 | 10684 | 3/21/1977  | CER  | UG  | NW | NE  | 16S 49E 08 | 0.010 | IRR |     | 4.56   | 2.78   | AFS  | NY |
| 230   | 30411 | 9788  | 7/22/1976  | CER  | UG  | NE | SE  | 16S 48E 23 | 2.140 | IRR |     | 151    | 606.45 | AFA  | NY |
| 230   | 29521 | 9265  | 7/1/1975   | CER  | UG  | SE | SW  | 16S 49E 09 | 0.160 | IRR |     | 5      | 25     | AFA  | NY |
| 230   | 29452 | 9945  | 6/16/1975  | CER  | UG  | SE | NE  | 17S 49E 29 | 0.080 | MM  | Y   | 0      | 1.62   | MGA  | NY |
| 230   | 29451 | 9944  | 6/16/1975  | CER  | UG  | SW | NW  | 17S 49E 28 | 0.080 | MM  | Y   | 0      | 1.62   | MGA  | NY |
| 230   | 29069 | 8680  | 12/19/1974 | CER  | UG  | NE | NE  | 16S 49E 08 | 0.240 | IRR | Y   | 6.18   | 30.9   | AFA  | NY |
| 230   | 28777 | 10664 | 10/7/1974  | CER  | UG  | SE | NW  | 17S 49E 02 | 0.100 | QM  |     | 0      | 2.77   | MGA  | NY |
| 230   | 26718 | 8438  | 5/12/1972  | CER  | UG  | NE | NE  | 16S 49E 08 | 0.100 | IRR | Y   | 3.78   | 18.9   | AFA  | NY |
| 230   | 26152 | 8652  | 6/2/1971   | CER  | UG  | SW | SE  | 16S 48E 08 | 1.000 | IRR |     | 12     | 60     | AFA  | NY |
| 230   | 25744 | 10309 | 8/6/1970   | CER  | UG  | NW | SW  | 16S 48E 10 | 0.210 | IRR |     | 4.5    | 22.5   | AFA  | NY |
| 230   | 25743 | 10308 | 8/6/1970   | CER  | UG  | NW | SW  | 16S 48E 10 | 0.140 | IRR |     | 3.5    | 17.5   | AFA  | NY |
| 230   | 25742 | 10307 | 8/6/1970   | CER  | UG  | NW | SW  | 16S 48E 10 | 0.140 | IRR |     | 3.5    | 17.5   | AFA  | NY |
| 230   | 25636 | 7696  | 5/28/1970  | CER  | UG  | SW | SE  | 16S 49E 05 | 0.040 | IRR |     | 18     | 7.04   | AFA  | NY |
| 230   | 22233 | 7532  | 8/30/1964  | CER  | UG  | NE | NE  | 16S 48E 36 | 0.760 | IRR |     | 38     | 145    | AFA  | NY |
| 230   | 21584 | 6661  | 10/15/1963 | CER  | UG  | SE | SE  | 17S 49E 08 | 0.810 | IRR | Y   | 185.95 | 500    | AFA  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

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| Basin | APP    | CERT | DATE       | STAT | SRC | QQ | QTR  | TRS        | CFS   | USE | SUP | ACRES  | DUTY    | UNIT | CO |
|-------|--------|------|------------|------|-----|----|------|------------|-------|-----|-----|--------|---------|------|----|
| 230   | 20352  | 5764 | 3/8/1962   | CER  | UG  |    | LT10 | 16S 48E 36 | 2.940 | IRD |     | 233.9  | 980     | AFS  | NY |
| 230   | 20162  | 6236 | 11/21/1961 | CER  | UG  | NE | NW   | 16S 49E 35 | 0.570 | IRR | Y   | 30     | 120     | AFA  | NY |
| 230   | 19034  | 6705 | 7/18/1960  | CER  | UG  | SE | SE   | 17S 49E 08 | 1.350 | IRR | Y   | 185.95 | 500     | AFA  | NY |
| 230   | 18764  | 7276 | 4/28/1960  | CER  | UG  | NE | NE   | 16S 48E 08 | 0.850 | IRR |     | 52.5   | 173.5   | AFS  | NY |
| 230   | 18222  | 6610 | 8/10/1959  | CER  | UG  | NE | NW   | 16S 49E 30 | 2.890 | IRR | Y   | 268.5  | 717.5   | AFA  | NY |
| 230   | 17404  | 5158 | 10/2/1957  | CER  | UG  | NE | SW   | 16S 48E 25 | 2.500 | IRR |     | 160    | 800     | AFA  | NY |
| 230   | 16545  | 5477 | 6/2/1955   | CER  | UG  | NE | NE   | 16S 49E 28 | 2.500 | IRD |     | 21.98  | 109.9   | AFA  | NY |
| 230   | 15893  | 5717 | 12/13/1954 | CER  | UG  | NE | NE   | 16S 48E 23 | 2.640 | IRR |     | 160    | 603     | AFA  | NY |
| 230   | 14059  | 5156 | 2/20/1952  | CER  | UG  | NW | SW   | 17S 48E 01 | 2.010 | IRD | Y   | 80     | 251.2   | AFA  | NY |
| 230   | 14054  | 6019 | 2/18/1952  | CER  | UG  | SE | NE   | 17S 48E 12 | 1.520 | IRR |     | 25.4   | 127     | AFA  | NY |
| 137A  | 11321  | 4797 | 6/29/1945  | CER  | UG  | NE | NE   | 3N 42E 14  | 0.020 | IRR | Y   | 15.03  | 60.1    | AFA  | NY |
| 137A  | 10501  | 4795 | 5/9/1940   | CER  | UG  | SE | NE   | 3N 42E 14  | 0.150 | IRR | Y   | 0      | 60.1    | AFA  | NY |
| 137A  | 10493  | 4794 | 4/10/1940  | CER  | UG  | NE | NE   | 3N 42E 15  | 0.150 | IRR | Y   | 15.03  | 60.1    | AFA  | NY |
| 137A  | 13115  | 5284 | 10/18/1949 | CER  | STR | SE | NW   | 3N 42E 34  | 1.000 | IRR |     | 10     | 40      | AFA  | ES |
| 169A  | 4721   | 1577 | 11/19/1917 | CER  | SPR | SE | SE   | 2S 58E 11  | 0.000 | STK |     | 0      | 0.18    | MGA  | LI |
| 169A  | V01510 |      | 5/17/1917  | VST  | SPR | NE | NE   | 3S 58E 16  | 0.100 | STK |     | 0      | 0       |      | LI |
| 169A  | V01507 |      | 5/17/1917  | VST  | SPR | SE | SE   | 3S 58E 17  | 0.050 | STK |     | 0      | 0       |      | LI |
| 169A  | V01506 |      | 5/17/1917  | VST  | SPR | NW | NW   | 3S 58E 33  | 0.050 | STK |     | 0      | 0       |      | LI |
| 143   | 52921  |      | 2/9/1989   | PER  | UG  | SW | NE   | 2S 39E 10  | 5.000 | MM  | Y   | 0      | 3619.85 | AFA  | ES |



### Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES  | DUTY    | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|-----------|-------|-----|-----|--------|---------|------|----|
| 143   | 52920 |       | 2/9/1989   | PER  | UG  | SW | NE  | 1S 40E 23 | 5.000 | MM  | Y   | 0      | 3619.85 | AFA  | ES |
| 143   | 52919 |       | 2/9/1989   | PER  | UG  | SW | NE  | 2S 39E 13 | 5.000 | MM  | Y   | 0      | 3619.85 | AFA  | ES |
| 143   | 52918 |       | 2/9/1989   | PER  | UG  | NW | SE  | 1S 40E 19 | 5.000 | MM  | Y   | 0      | 3619.85 | AFA  | ES |
| 143   | 49988 | 14295 | 7/15/1986  | CER  | UG  | SE | SW  | 1S 40E 34 | 2.000 | MM  | Y   | 0      | 1448    | AFA  | ES |
| 143   | 44270 | 12782 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 40E 20 | 1.000 | MM  | Y   | 0      | 235.9   | MGA  | ES |
| 143   | 44268 | 12780 | 8/10/1981  | CER  | UG  | SW | NE  | 1S 40E 26 | 0.460 | MM  | Y   | 0      | 108.98  | MGA  | ES |
| 143   | 44267 | 12779 | 8/10/1981  | CER  | UG  | SW | NE  | 1S 40E 33 | 0.440 | MM  | Y   | 0      | 103.78  | MGA  | ES |
| 143   | 44261 | 12778 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 40E 19 | 0.220 | MM  | Y   | 0      | 159.27  | MGA  | ES |
| 143   | 44253 | 12772 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 39E 13 | 0.840 | MM  | Y   | 0      | 198.15  | MGA  | ES |
| 143   | 44252 | 12771 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 39E 10 | 0.430 | MM  | Y   | 0      | 101.43  | MGA  | ES |
| 143   | 44251 | 12770 | 8/10/1981  | CER  | UG  | SW | NE  | 2S 39E 01 | 1.000 | MM  | Y   | 0      | 235.91  | MGA  | ES |
| 147   | 62503 |       | 10/7/1996  | PER  | UG  | NW | SE  | 2S 49E 22 | 0.500 | QM  |     | 0      | 361.98  | AFA  | NY |
| 147   | 54178 | 15421 | 11/16/1989 | CER  | UG  | SW | NW  | 3S 50E 05 | 0.080 | QM  |     | 0      | 5.89    | MGA  | NY |
| 198   | 52000 | 13653 | 4/11/1988  | CER  | UG  | SE | NE  | 1S 69E 06 | 2.000 | IRR |     | 59.24  | 269.2   | AFS  | LI |
| 198   | 48410 | 13645 | 9/18/1984  | CER  | UG  | SE | NE  | 1S 69E 06 | 1.000 | IRR | Y   | 161.73 | 545.46  | AFS  | LI |
| 198   | 48184 | 13644 | 7/12/1984  | CER  | UG  | SE | NE  | 1S 69E 06 | 2.500 | IRR | Y   | 113.43 | 567.15  | AFS  | LI |
| 198   | 39270 | 13638 | 10/2/1979  | CER  | UG  | SW | NE  | 1S 69E 06 | 1.250 | IRR | Y   | 161.73 | 681.82  | AFS  | LI |
| 198   | 24219 | 8728  | 11/13/1967 | CER  | UG  | SE | NE  | 1S 69E 06 | 2.100 | IRR | Y   | 50     | 200     | AFS  | LI |
| 198   | 21497 | 6547  | 9/3/1963   | CER  | UG  | SW | SE  | 1S 69E 06 | 1.120 | IRR | Y   | 313.35 | 406.44  | AFS  | LI |
| 198   | 20829 | 7402  | 11/5/1962  | CER  | UG  | SE | NE  | 1S 69E 06 | 2.100 | IRR | Y   | 128.5  | 642.5   | AFA  | LI |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS       | CFS    | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|-----------|--------|-----|-----|--------|--------|------|----|
| 198   | 14600  | 4805  | 10/27/1952 | CER  | UG  | SE | SE  | 1S 69E 06 | 3.000  | IRR | Y   | 153.5  | 614    | AFA  | LI |
| 198   | 13803  | 4994  | 8/22/1951  | CER  | UG  | NW | NE  | 1S 69E 07 | 3.000  | IRR | Y   | 248.12 | 1240.6 | AFA  | LI |
| 198   | 37561  | 15183 | 4/2/1979   | CER  | UG  | SW | SE  | 1N 69E 34 | 1.200  | IRD | Y   | 114.4  | 572    | AFA  | LI |
| 198   | 37560  | 15182 | 4/2/1979   | CER  | UG  | SW | NW  | 1S 69E 02 | 1.200  | IRR | Y   | 36.6   | 183    | AFA  | LI |
| 198   | 24509  | 9259  | 5/23/1968  | CER  | UG  | SW | NW  | 1N 69E 32 | 3.150  | IRD | Y   | 136.9  | 684.5  | AFA  | LI |
| 198   | 22469  | 7896  | 3/2/1965   | CER  | UG  | NE | SW  | 1N 69E 32 | 2.530  | IRD | Y   | 31.8   | 127.2  | AFA  | LI |
| 198   | 16493  | 5629  | 5/25/1955  | CER  | UG  | SE | SW  | 1N 69E 31 | 1.700  | IRR | Y   | 82.59  | 413    | AFA  | LI |
| 198   | 24402  | 15121 | 3/13/1968  | CER  | STR | NW | NE  | 1N 69E 32 | 0.000  | REC |     | 0      | 1400   | AFA  | LI |
| 199   | 20833  | 7144  | 11/7/1962  | CER  | UG  | SW | NE  | 1N 69E 21 | 2.630  | IRR |     | 105.3  | 526.5  | AFA  | LI |
| 200   | 21783  | 6935  | 2/3/1964   | CER  | UG  | SE | SE  | 1N 69E 10 | 1.000  | IRR |     | 33     | 165    | AFA  | LI |
| 200   | V02933 |       | 6/21/1977  | DEC  | SPR | NE | NE  | 2N 69E 35 | 13.560 | DEC |     | 542.72 | 2713.6 | AFA  | LI |
| 202   | 65639  |       | 10/28/1999 | PER  | UG  | SE | NW  | 2N 67E 22 | 0.900  | IRR | Y   | 120    | 274.56 | AFA  | LI |
| 202   | 63200  | 16176 | 6/20/1997  | CER  | UG  | NW | SW  | 2N 67E 22 | 2.220  | IRD | Y   | 360    | 502.64 | AFA  | LI |
| 202   | 63199  | 16175 | 6/20/1997  | CER  | UG  | NE | NE  | 2N 67E 21 | 2.220  | IRD | Y   | 360    | 502.64 | AFA  | LI |
| 202   | 58447  | 14493 | 12/30/1992 | CER  | UG  | NE | NW  | 2N 67E 21 | 1.890  | IRD | Y   | 78     | 224.23 | AFA  | LI |
| 202   | 58314  | 14152 | 11/9/1992  | CER  | UG  | NW | SE  | 1N 68E 07 | 2.700  | IRD |     | 160    | 640    | AFA  | LI |
| 202   | 56962  | 14540 | 11/26/1991 | CER  | UG  | SE | NE  | 1N 67E 14 | 0.500  | MUN | Y   | 0      | 26.07  | MGA  | LI |
| 202   | 53930  |       | 10/12/1989 | PER  | UG  | SE | NE  | 1N 67E 14 | 0.420  | MUN | Y   | 0      | 99.08  | MGA  | LI |
| 202   | 50046  | 13865 | 7/28/1986  | CER  | UG  | NE | SE  | 1N 67E 12 | 1.120  | MUN | Y   | 0      | 62.83  | MGA  | LI |
| 202   | 49041  | 14141 | 5/9/1985   | CER  | UG  | NW | SE  | 1N 68E 07 | 2.700  | IRD |     | 160    | 640    | AFA  | LI |
| 202   | 48540  | 14229 | 11/6/1984  | CER  | UG  | SE | SW  | 2N 67E 16 | 2.850  | IRR | Y   | 400    | 537.04 | AFA  | LI |

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| Basin | APP    | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES  | DUTY    | UNIT | CO |
|-------|--------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|--------|---------|------|----|
| 202   | 46205  | 14228 | 10/8/1982  | CER  | UG  | NW | NW  | 2N 67E 21  | 1.000 | IRD | Y   | 62.84  | 251.36  | AFA  | LI |
| 202   | 41411  | 12350 | 5/21/1980  | CER  | UG  | NW | NW  | 2N 67E 21  | 1.700 | IRR | Y   | 75.83  | 303.32  | AFA  | LI |
| 202   | 23150  | 8027  | 5/25/1966  | CER  | UG  | SE | SW  | 1N 67E 12  | 0.390 | MUN |     | 0      | 92      | MGA  | LI |
| 202   | 23149  | 8026  | 5/25/1966  | CER  | UG  | NE | SE  | 1N 67E 12  | 0.780 | MUN |     | 0      | 184.01  | MGA  | LI |
| 202   | 11032  | 3179  | 12/2/1943  | CER  | UG  | SE | NW  | 1N 67E 23  | 0.150 | MUN |     | 0      | 36.5    | MGA  | LI |
| 205   | 24461  | 7822  | 5/3/1968   | CER  | UG  | NE | NW  | 4S 67E 08  | 0.350 | IRR |     | 5.27   | 26.35   | AFA  | LI |
| 205   | 45945  | 10739 | 7/16/1982  | CER  | UG  | SW | NW  | 5S 66E 02  | 2.370 | IRR |     | 66.9   | 334.5   | AFA  | LI |
| 205   | 58003  | 14121 | 8/25/1992  | CER  | UG  | NW | NE  | 7S 67E 20  | 1.670 | IRR |     | 54.31  | 271.55  | AFA  | LI |
| 205   | 21586  | 6988  | 10/17/1963 | CER  | UG  | NW | SW  | 7S 67E 21  | 1.500 | IRR |     | 31.44  | 157.2   | AFA  | LI |
| 205   | V01262 |       | 9/6/1913   | DEC  | STR | SE | SE  | 4S 66E 34  | 1.690 | DEC |     | 67.7   | 338.5   | AFA  | LI |
| 205   | V01245 |       | 5/22/1913  | DEC  | STR | SE | NE  | 5S 66E 27  | 0.910 | DEC |     | 36.48  | 182.4   | AFA  | LI |
| 209   | 35054  | 10690 | 3/3/1978   | CER  | UG  | SW | SW  | 4S 60E 11  | 1.160 | IRR | Y   | 75.8   | 379     | AFA  | LI |
| 209   | 27730  | 11006 | 9/4/1973   | CER  | UG  | NE | NE  | 4S 60E 02  | 3.870 | IRR | Y   | 280.77 | 1403.85 | AFA  | LI |
| 209   | 27729  | 11005 | 9/4/1973   | CER  | UG  | NE | NE  | 4S 60E 02  | 3.620 | IRR | Y   | 280.77 | 1403.85 | AFA  | LI |
| 209   | 20544  | 6859  | 6/27/1962  | CER  | SPR | NW | SE  | 4S 60E 14  | 3.000 | IRR |     | 633.6  | 2171.39 | AFA  | LI |
| 230   | 61412  | 16384 | 7/19/1995  | CER  | UG  | SW | NW  | 12S 46E 35 | 0.890 | DWR | Y   | 0      | 103.42  | MGA  | NY |
| 230   | 70142  |       | 6/23/2003  | PER  | UG  | NW | NE  | 16S 48E 16 | 2.080 | IRR | Y   | 120    | 500     | AFA  | NY |
| 230   | 69730  |       | 3/13/2003  | PER  | UG  | NE | SE  | 16S 49E 28 | 1.230 | COM |     | 0      | 110     | AFA  | NY |
| 230   | 66370  |       | 5/16/2000  | PER  | UG  | SW | SE  | 16S 49E 22 | 0.320 | IRR |     | 17.12  | 85.59   | AFA  | NY |
| 230   | 66121  |       | 3/7/2000   | PER  | UG  | NW | SW  | 13S 46E 03 | 1.000 | MUN | Y   | 0      | 140.7   | MGA  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR  | TRS        | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|------|------------|-------|-----|-----|--------|--------|------|----|
| 230   | 66120 |       | 3/7/2000   | PER  | UG  | NW | SW   | 13S 46E 03 | 1.000 | MUN | Y   | 0      | 140.7  | MGA  | NY |
| 230   | 65144 |       | 5/27/1999  | PER  | UG  | NE | NE   | 17S 49E 09 | 0.550 | COM | Y   | 0      | 100    | AFA  | NY |
| 230   | 62116 | 16273 | 5/9/1996   | CER  | UG  | NW | NE   | 17S 49E 10 | 0.550 | COM | Y   | 0      | 264    | AFA  | NY |
| 230   | 62115 |       | 5/9/1996   | PER  | UG  | NE | NE   | 17S 49E 09 | 0.550 | COM | Y   | 0      | 264    | AFA  | NY |
| 230   | 61413 | 16385 | 7/19/1995  | CER  | UG  | NW | SW   | 13S 46E 03 | 0.890 | MUN | Y   | 0      | 200    | MGA  | NY |
| 230   | 52616 |       | 10/19/1988 | PER  | UG  | SW | SE   | 16S 48E 08 | 0.200 | IRR |     | 30     | 150    | AFA  | NY |
| 230   | 50385 | 14656 | 12/1/1986  | CER  | UG  | NW | NE   | 16S 49E 16 | 0.100 | QM  |     | 0      | 10.6   | MGA  | NY |
| 230   | 49947 | 12435 | 6/26/1986  | CER  | UG  | NE | NW   | 16S 48E 10 | 1.750 | IRR |     | 56.38  | 281.9  | AFA  | NY |
| 230   | 47223 |       | 9/1/1983   | PER  | UG  |    | LT12 | 16S 49E 31 | 0.200 | QM  |     | 0      | 12.05  | MGA  | NY |
| 230   | 47205 |       | 8/29/1983  | PER  | UG  | SW | SE   | 16S 49E 31 | 0.200 | QM  |     | 0      | 12.05  | MGA  | NY |
| 230   | 43873 | 12460 | 6/11/1981  | CER  | UG  | SW | NW   | 16S 48E 24 | 1.660 | IRR |     | 116.67 | 545.38 | AFA  | NY |
| 230   | 42171 |       | 8/25/1980  | PER  | UG  | SW | SE   | 16S 48E 08 | 0.270 | IRR |     | 60     | 150    | AFA  | NY |
| 230   | 27812 | 9927  | 10/4/1973  | CER  | UG  | NE | NW   | 17S 48E 12 | 2.540 | MM  | Y   | 0      | 75.59  | MGA  | NY |
| 230   | 26283 | 7987  | 8/31/1971  | CER  | UG  | NW | NW   | 16S 48E 18 | 1.670 | IRD |     | 160    | 610.55 | AFA  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP   | CERT | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES  | DUTY   | UNIT | CO |
|-------|-------|------|------------|------|-----|----|-----|------------|-------|-----|-----|--------|--------|------|----|
| 230   | 24763 | 7219 | 11/18/1968 | CER  | UG  | NE | NE  | 16S 49E 08 | 0.590 | IRR |     | 26.69  | 110.83 | AFA  | NY |
| 230   | 24725 | 7107 | 10/21/1968 | CER  | UG  | SE | NW  | 16S 48E 18 | 2.700 | IRR |     | 155.49 | 777.45 | AFA  | NY |
| 230   | 24585 | 6951 | 7/17/1968  | CER  | UG  | SE | SW  | 16S 49E 09 | 0.750 | IRR |     | 23.75  | 118.75 | AFA  | NY |
| 230   | 22761 | 8118 | 9/7/1965   | CER  | UG  | NE | NE  | 16S 48E 24 | 0.280 | IRR | Y   | 160    | 202.65 | AFA  | NY |
| 230   | 22746 | 6032 | 8/31/1965  | CER  | UG  | NE | SE  | 16S 49E 19 | 2.500 | IRR |     | 160    | 800    | AFA  | NY |
| 230   | 19917 | 8119 | 6/12/1961  | CER  | UG  | NE | SE  | 16S 48E 24 | 2.500 | IRR | Y   | 160    | 800    | AFA  | NY |
| 230   | 19916 | 8120 | 6/12/1961  | CER  | UG  | NE | NE  | 16S 48E 24 | 2.500 | IRR |     | 160    | 800    | AFA  | NY |
| 230   | 19448 | 6676 | 1/16/1961  | CER  | UG  | SW | NW  | 16S 48E 07 | 0.580 | IRD |     | 37     | 183.01 | AFA  | NY |
| 230   | 19197 | 6675 | 9/12/1960  | CER  | UG  | NW | SE  | 16S 49E 22 | 0.340 | IRR |     | 184.19 | 100.46 | AFA  | NY |
| 230   | 17417 | 5888 | 10/14/1957 | CER  | UG  | NW | NE  | 16S 48E 17 | 2.000 | IRR |     | 45.82  | 229.1  | AFA  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP   | CERT  | DATE       | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP | ACRES | DUTY    | UNIT | CO |
|-------|-------|-------|------------|------|-----|----|-----|------------|-------|-----|-----|-------|---------|------|----|
| 230   | 16562 | 5837  | 6/13/1955  | CER  | UG  | NE | NE  | 16S 48E 16 | 2.080 | IRD | Y   | 105   | 425.25  | AFA  | NY |
| 230   | 16047 | 5593  | 2/7/1955   | CER  | UG  | NE | SW  | 16S 49E 09 | 1.330 | IRR |     | 4     | 200     | AFA  | NY |
| 230   | 15881 | 5700  | 12/6/1954  | CER  | UG  | NE | NW  | 16S 48E 10 | 0.840 | IRD |     | 90.62 | 253.1   | AFA  | NY |
| 230   | 15702 | 6444  | 6/11/1954  | CER  | UG  | NE | SE  | 16S 48E 14 | 1.000 | IRD |     | 35    | 175     | AFA  | NY |
| 230   | 22941 | 8255  | 1/27/1966  | CER  | UG  | SW | NE  | 16S 49E 18 | 0.250 | QM  |     | 0     | 0.22    | MGA  | NY |
| 230   | 24370 | 6851  | 2/14/1968  | CER  | STR | NW | NW  | 12S 47E 20 | 2.550 | IRR |     | 114.9 | 459.6   | AFA  | NY |
| 230   | 20    | 523X  | 10/31/1905 | CER  | STR | NE | NE  | 12S 47E 19 | 1.000 | MM  |     | 0     | 235.9   | MGA  | NY |
| 230   | 53620 | 14329 | 6/30/1989  | CER  | SPR | NW | NE  | 17S 50E 22 | 0.790 | WLD |     | 0     | 572.62  | AFA  | NY |
| 230   | 53612 | 14327 | 6/30/1989  | CER  | SPR | NW | NE  | 17S 50E 15 | 1.330 | WLD |     | 0     | 965.13  | AFA  | NY |
| 230   | 53609 | 14324 | 6/30/1989  | CER  | SPR | SE | NE  | 17S 50E 09 | 2.270 | WLD |     | 0     | 1647.52 | AFA  | NY |
| 230   | 53607 | 14342 | 6/30/1989  | CER  | SPR | SE | NE  | 17S 50E 09 | 0.910 | WLD |     | 0     | 659.6   | AFA  | NY |
| 230   | 53601 | 14339 | 6/30/1989  | CER  | SPR | NW | NE  | 17S 50E 22 | 0.710 | WLD |     | 0     | 514.5   | AFA  | NY |
| 230   | 53600 | 14338 | 6/30/1989  | CER  | SPR | NW | NE  | 17S 50E 22 | 0.630 | WLD |     | 0     | 459     | AFA  | NY |
| 230   | 53613 | 14328 | 6/30/1989  | CER  | SPR | NW | NE  | 17S 50E 15 | 0.380 | WLD |     | 0     | 280.1   | AFA  | NY |
| 230   | 53602 | 14340 | 6/30/1989  | CER  | SPR | NW | NE  | 17S 50E 22 | 0.300 | WLD |     | 0     | 219.8   | AFA  | NY |
| 137A  | 49620 | 12153 | 1/7/1986   | CER  | UG  | NW | SE  | 2N 40E 15  | 0.001 | STK |     | 0     | 235.85  | MGA  | ES |
| 137A  | 44454 | 11789 | 9/21/1981  | CER  | UG  | SE | NW  | 3N 42E 13  | 0.180 | MUN |     | 0     | 19.21   | MGA  | NY |
| 137A  | 10502 | 4796  | 5/9/1940   | CER  | UG  | NE | NW  | 3N 42E 13  | 0.120 | IRR | Y   | 15.03 | 60.1    | AFA  | NY |

### Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP    | CERT  | DATE      | STAT | SRC | QQ | QTR | TRS        | CFS   | USE | SUP    | ACRES  | DUTY   | UNIT | CO |
|-------|--------|-------|-----------|------|-----|----|-----|------------|-------|-----|--------|--------|--------|------|----|
| 137A  | 49619  | 12104 | 1/7/1986  | CER  | STR | NW | NE  | 2N 40E 15  | 0.220 | STK |        | 0      | 235.85 | MGA  | ES |
| 227B  | 71655  |       | 9/7/2004  | APP  | UG  | SE | SW  | 9S 50E 25  | 5.000 | QM  |        | 0      | 0      | AFA  | NY |
| 148   | 45271  | 12305 | 2/1/1982  | CER  | UG  | SE | NW  | 1N 48E 32  | 0.007 | STK |        | 0      | 1.65   | MGA  | NY |
| 148   | 50169  | 14160 | 9/19/1986 | CER  | UG  | NE | NW  | 2S 46E 12  | 0.340 | QM  |        | 0      | 79.22  | MGA  | NY |
| 205   | 60447E |       | 9/13/1994 | PER  | UG  | NW | SW  | 4S 67E 08  | 0.080 | OTH |        | 0      | 64.51  | AFA  | LI |
| 230   | 69314  |       | 11/7/2002 | PER  | UG  | SE | SE  | 15S 50E 18 | 0.280 | QM  | Y      | 0      | 43     | AFA  | NY |
| 230   | 69313  |       | 11/7/2002 | PER  | UG  | SE | SE  | 15S 50E 18 | 0.240 | QM  | Y      | 0      | 37     | AFA  | NY |
| 205   | 11581  | 3720  | 5/24/1946 | CER  | UG  | SW | NW  | 4S 67E 08  | 0.800 | DOM |        | 0      | 33.9   | MGA  | LI |
| 205   | 31045  | 10372 | 1/31/1977 | CER  | UG  | SE | SE  | 4S 66E 13  | 0.340 | IRR |        | 14.58  | 72.91  | AFA  | LI |
| 205   | 31044  | 10371 | 1/31/1977 | CER  | UG  | SE | SE  | 4S 66E 24  | 0.150 | IRR |        | 5.9    | 29.55  | AFA  | LI |
| 205   | 29834  | 10491 | 12/4/1975 | CER  | UG  | SE | SW  | 4S 67E 07  | 0.110 | IRR |        | 17.7   | 80.34  | AFA  | LI |
| 205   | 29338  | 9059  | 4/8/1975  | CER  | UG  | SE | NE  | 4S 66E 24  | 1.340 | IRR |        | 70.72  | 353.62 | AFA  | LI |
| 205   | 28560  | 9057  | 8/1/1974  | CER  | UG  | SW | SW  | 4S 67E 18  | 2.400 | IRR |        | 22.82  | 114.14 | AFA  | LI |
| 205   | 28559  | 9056  | 8/1/1974  | CER  | UG  | SE | NW  | 4S 67E 18  | 2.500 | IRR |        | 49     | 245.03 | AFA  | LI |
| 205   | 28558  | 9055  | 8/1/1974  | CER  | UG  | SE | SE  | 4S 66E 13  | 2.000 | IRR |        | 87.94  | 439.73 | AFA  | LI |
| 205   | 18910  | 7014  | 6/8/1960  | CER  | UG  | NE | NW  | 4S 67E 18  | 2.220 | IRR |        | 110.24 | 551.22 | AFS  | LI |
| 205   | 17921  | 5201  | 3/31/1959 | CER  | UG  | NW | SE  | 4S 67E 07  | 0.450 | IRR |        | 21.19  | 105.95 | AFA  | LI |
| 205   | 10614  | 3211  | 1/27/1941 | CER  | UG  | SE | NW  | 4S 66E 25  | 0.400 | IRR |        | 40.8   | 147.83 | AFS  | LI |
| 205   | V02311 |       | 9/8/1941  | DEC  | SPR | NE | SW  | 4S 67E 08  | 1.000 | DEC |        | 40.2   | 201    | AFA  | LI |
| 205   | V01704 |       | 6/1/1920  | DEC  | STR | NW | SW  | 4S 66E 35  | 3.470 | DEC |        | 139.1  | 695.5  | AFA  | LI |
| 230   | 2501   | 368   | 9/4/1912  | CER  | STR | NE | SE  | 12S 47E 09 | 0.300 | MM  |        | 0      | 70.77  | MGA  | NY |
| 230   | 1746   | 368   | 7/7/1910  | CER  | STR | NE | SE  | 12S 47E 09 | 0.030 | MM  |        | 0      | 70.77  | MGA  | NY |
| 205   | 49893  | 14323 | 5/23/1986 | CER  | UG  | SW | NE  | 4S 67E 08  | 1.450 | MUN | 6846.4 | 0      | 215.5  | MGA  | LI |
| 205   | 49892  |       | 5/23/1986 | PER  | UG  | SW | NE  | 4S 67E 08  | 1.500 | MUN |        | 0      | 353.85 | MGA  | LI |
| 205   | 25970  | 8076  | 2/18/1971 | CER  | UG  | SW | NW  | 4S 67E 08  | 2.000 | MUN | 0      | 0      | 471.81 | MGA  | LI |
| 205   | 23933  | 8080  | 6/12/1967 | CER  | UG  | SW | NW  | 4S 67E 08  | 4.000 | MUN | 0      | 0      | 943.62 | MGA  | LI |
| 205   | 19377  | 5548  | 12/8/1960 | CER  | UG  | NE | SE  | 4S 67E 07  | 1.000 | MUN |        | 0      | 235.91 | MGA  | LI |
| 205   | 10662  | 3052  | 5/14/1941 | CER  | UG  | NW | SW  | 4S 67E 08  | 1.000 | MUN |        | 0      | 235.96 | MGA  | LI |

### Hydrographic Basin Abstracts - Non-CRC Basins

Selection Criteria: by PER, CER, VST, DEC (Surface and Underground)

| Basin | APP   | CERT | DATE      | STAT | SRC | QQ | QTR | TRS       | CFS   | USE | SUP | ACRES | DUTY    | UNIT | CO |
|-------|-------|------|-----------|------|-----|----|-----|-----------|-------|-----|-----|-------|---------|------|----|
| 137A  | 22690 | 6201 | 7/15/1965 | CER  | UG  | SE | SE  | 3S 42E 03 | 2.000 | MUN |     | 0     | 1447.94 | AFA  | ES |



# Appendix D



Appendix D – Decision Matrix (Water Resources Decision Support)

| Basin No.                              | Basin Name                       | D5.1.1 Viable Groundwater Occurrence in Basin | D5.1.2 Designated Status  | D5.2.1 Water District or Municipality | D5.2.2 Majority of Permits for Non-Preferred Uses | D5.2.3 Purchase Potential | D5.2.4 Lease Opportunity | D5.3.1 Consider New Well Development | D5.3.2 Groundwater < 500 ft./ Suitable Aquifers | D5.3.3 Infrastructure Feasible                    | Decision  |  |   |   |
|--|----------------------------------|---|---|---------------------------------------|---|---------------------------|--------------------------|--------------------------------------|---|---|---|--|---|---|
| 227A                                   | Forty-mile Canyon, Jackass Flats | YES   | YES   | YES                                   | NO  | NO                        | NO                       | YES                                  | YES   | YES   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |  |   |   |
|  |                                  |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | YES  | YES   | Begin process to obtain permits for water appropriation in Phase II                       |
|  |                                  |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | NO   | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |
|  |                                  |   |   | NO                                    | NO  | NO                        | YES (Go to D5.3.1)       | NO (Go to Decision)                  | NO  | NO  | YES   | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC |   |   |
|  |                                  |   |   |                                       |   |                           |                          |                                      |   |   |   | YES (Go to D5.3.1)   | NO  | NO  |
|  |                                  |   |   | NO                                    | NO  | NO                        | NO                       | NO                                   | NO  | NO  | NO  | NO   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |   |
| NO (Go to D5.3.1 New Well Development) | NO                               | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                                       |   |                           |                          |                                      |   |   |   |  |   |   |
| NO                                     | NO                               | NO  | NO  | NO                                    | NO  | NO                        | NO                       | NO                                   | NO  | Groundwater is not a resource option in the Basin |   |  |   |   |
| 229                                    | Crater Flat                      | YES   | YES   | YES                                   | NO  | NO                        | NO                       | YES                                  | YES   | YES   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |  |   |   |
|  |                                  |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | YES  | YES   | Begin process to obtain permits for water appropriation in Phase II                       |
|  |                                  |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | NO   | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |
|  |                                  |   |   | NO                                    | NO  | NO                        | YES (Go to D5.3.1)       | NO (Go to Decision)                  | NO  | NO  | YES   | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC |   |   |
|  |                                  |   |   |                                       |   |                           |                          |                                      |   |   |   | YES (Go to D5.3.1)   | NO  | NO  |
|  |                                  |   |   | NO                                    | NO  | NO                        | NO                       | NO                                   | NO  | NO  | NO  | NO   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |   |
| NO (Go to D5.3.1 New Well Development) | NO                               | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                                       |   |                           |                          |                                      |   |   |   |  |   |   |
| NO                                     | NO                               | NO  | NO  | NO                                    | NO  | NO                        | NO                       | NO                                   | NO  | Groundwater is not a resource option in the Basin |   |  |   |   |
| 228                                    | Oasis Valley                     | YES   | YES   | YES                                   | NO  | NO                        | NO                       | YES                                  | YES   | YES   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |  |   |   |
|  |                                  |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | YES  | YES   | Begin process to obtain permits for water appropriation in Phase II                       |
|  |                                  |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | NO   | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |
|  |                                  |   |   | NO                                    | NO  | NO                        | YES (Go to D5.3.1)       | NO (Go to Decision)                  | NO  | NO  | YES   | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC |   |   |
|  |                                  |   |   |                                       |   |                           |                          |                                      |   |   |   | YES (Go to D5.3.1)   | NO  | NO  |
|  |                                  |   |   | NO                                    | NO  | NO                        | NO                       | NO                                   | NO  | NO  | NO  | NO   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |   |
| NO (Go to D5.3.1 New Well Development) | NO                               | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                                       |   |                           |                          |                                      |   |   |   |  |   |   |
| NO                                     | NO                               | NO  | NO  | NO                                    | NO  | NO                        | NO                       | NO                                   | NO  | Groundwater is not a resource option in the Basin |   |  |   |   |



Appendix D – Decision Matrix (Water Resources Decision Support)

| Basin No. | Basin Name      | D5.1.1 Viable Groundwater Occurrence in Basin | D5.1.2 Designated Status  | D5.2.1 Water District or Municipality | D5.2.2 Majority of Permits for Non-Preferred Uses | D5.2.3 Purchase Potential | D5.2.4 Lease Opportunity | D5.3.1 Consider New Well Development | D5.3.2 Groundwater < 500 ft./ Suitable Aquifers | D5.3.3 Infrastructure Feasible                    | Decision  |     |     |   |
|-----------|-----------------|---|---|---------------------------------------|---|---------------------------|--------------------------|--------------------------------------|---|---|---|-----|-----|---|
| 146       | Sarcobatus Flat | YES   | YES   | YES                                   | NO  | NO                        | NO                       | YES                                  | YES   | YES   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |     |     |   |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | YES | YES | Begin process to obtain permits for water appropriation in Phase II                             |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin       |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1)  | NO  | YES | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC                  |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | NO (Go to Decision)   | NO  | YES | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II     |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | NO (Go to D5.3.1 New Well Development)  | NO  | NO  | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin             |
| NO        | NO              | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                                       |   |                           |                          |                                      |   |   |   |     |     |   |
| NO        | NO              | NO  | NO  | NO                                    | NO  | NO                        | NO                       | NO                                   | NO  | Groundwater is not a resource option in the Basin |   |     |     |   |
| 144       | Lida Valley     | YES   | YES   | YES                                   | NO  | NO                        | NO                       | YES                                  | YES   | YES   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |     |     |   |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | YES | YES | Begin process to obtain permits for water appropriation in Phase II                             |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin       |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1)  | NO  | YES | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC                  |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | NO (Go to Decision)   | NO  | YES | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II     |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | NO (Go to D5.3.1 New Well Development)  | NO  | NO  | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin             |
| NO        | NO              | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                                       |   |                           |                          |                                      |   |   |   |     |     |   |
| NO        | NO              | NO  | NO  | NO                                    | NO  | NO                        | NO                       | NO                                   | NO  | Groundwater is not a resource option in the Basin |   |     |     |   |
| 145       | Stonewall Flat  | YES   | YES   | YES                                   | NO  | NO                        | NO                       | YES                                  | YES   | YES   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |     |     |   |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | YES | YES | Begin process to obtain permits for water appropriation in Phase II                             |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1 New Well Development)   | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin       |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | YES (Go to D5.3.1)  | NO  | YES | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC                  |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | NO (Go to Decision)   | NO  | YES | Begin negotiation with High-Priority permit holders or water districts in the Basin in Phase II |
|           |                 |   |   |                                       |   |                           |                          |                                      |   |   | NO (Go to D5.3.1 New Well Development)  | NO  | NO  | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin             |
| NO        | NO              | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                                       |   |                           |                          |                                      |   |   |   |     |     |   |
| NO        | NO              | NO  | NO  | NO                                    | NO  | NO                        | NO                       | NO                                   | NO  | Groundwater is not a resource option in the Basin |   |     |     |   |



Appendix D – Decision Matrix (Water Resources Decision Support)

| Basin No. | Basin Name           | D5.1.1 Viable Groundwater Occurrence in Basin | D5.1.2 Designated Status | D5.2.1 Water District or Municipality | D5.2.2 Majority of Permits for Non-PREFERRED Uses | D5.2.3 Purchase Potential   | D5.2.4 Lease Opportunity | D5.3.1 Consider New Well Development | D5.3.2 Groundwater < 500 ft./ Suitable Aquifers | D5.3.3 Infrastructure Feasible | Decision  |   |
|-----------|----------------------|---|--------------------------|---------------------------------------|---|---|--------------------------|--------------------------------------|---|--------------------------------|---|---|
| 142       | Alkali Spring Valley | YES   | YES                      | YES                                   |   | NO  |                          | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |   |
|           |                      |   |                          |                                       |   | YES (Go to D5.3.1 New Well Development)   |                          |                                      |   |                                | Begin process to obtain permits for water appropriation in Phase II                 |   |
|           |                      |   |                          | NO                                    | YES   | (Go to D5.3.1 New Well Development)   |                          |                                      |   |                                | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |                      |   |                          |                                       | NO  | YES (Go to D5.3.1)  |                          |                                      |   |                                | NO  | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |
|           |                      |   |                          |                                       | NO  | NO (Go to Decision)   |                          |                                      |   |                                | YES   | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |                      |   |                          |                                       | NO (Go to D5.3.1 New Well Development)            |   |                          |                                      |   |                                | NO  | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
| NO        |                      |   |                          |                                       | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                          |                                      |   |                                |   |   |
|           |                      |   |                          |                                       |   |   |                          |                                      |   |                                | Groundwater is not a resource option in the Basin                                   |   |
| 141       | Ralston Valley       | YES   | YES                      | YES                                   |   | NO  |                          | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |   |
|           |                      |   |                          |                                       |   | YES (Go to D5.3.1 New Well Development)   |                          |                                      |   |                                | NO  | Begin process to obtain permits for water appropriation in Phase II                         |
|           |                      |   |                          | NO                                    | YES   | (Go to D5.3.1 New Well Development)   |                          |                                      |   |                                | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |                      |   |                          |                                       | NO  | YES (Go to D5.3.1)  |                          |                                      |   |                                | YES   | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |
|           |                      |   |                          |                                       | NO  | NO (Go to Decision)   |                          |                                      |   |                                | NO  | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |                      |   |                          |                                       | NO (Go to D5.3.1 New Well Development)            |   |                          |                                      |   |                                | NO  | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
| NO        |                      |   |                          |                                       | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                          |                                      |   |                                |   |   |
|           |                      |   |                          |                                       |   |   |                          |                                      |   |                                | Groundwater is not a resource option in the Basin                                   |   |
| 149       | Stone Cabin Valley   | YES   | YES                      | YES                                   |   | NO  |                          | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |   |
|           |                      |   |                          |                                       |   | YES (Go to D5.3.1 New Well Development)   |                          |                                      |   |                                | NO  | Begin process to obtain permits for water appropriation in Phase II                         |
|           |                      |   |                          | NO                                    | YES   | (Go to D5.3.1 New Well Development)   |                          |                                      |   |                                | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |                      |   |                          |                                       | NO  | YES (Go to D5.3.1)  |                          |                                      |   |                                | YES   | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |
|           |                      |   |                          |                                       | NO  | NO (Go to Decision)   |                          |                                      |   |                                | NO  | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |                      |   |                          |                                       | NO (Go to D5.3.1 New Well Development)            |   |                          |                                      |   |                                | NO  | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
| NO        |                      |   |                          |                                       | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                          |                                      |   |                                |   |   |
|           |                      |   |                          |                                       |   |   |                          |                                      |   |                                | Groundwater is not a resource option in the Basin                                   |   |



Appendix D – Decision Matrix (Water Resources Decision Support)

| Basin No. | Basin Name             | D5.1.1 Viable Groundwater Occurrence in Basin | D5.1.2 Designated Status  | D5.2.1 Water District or Municipality | D5.2.2 Majority of Permits for Non-Preferred Uses | D5.2.3 Purchase Potential | D5.2.4 Lease Opportunity | D5.3.1 Consider New Well Development | D5.3.2 Groundwater < 500 ft./ Suitable Aquifers | D5.3.3 Infrastructure Feasible | Decision  |     |     |   |   |
|-----------|------------------------|---|---|---------------------------------------|---|---------------------------|--------------------------|--------------------------------------|---|--------------------------------|---|-----|-----|---|---|
| 156       | Hot Creek Basin        | YES   | YES   | YES                                   | NO  | NO                        | NO                       | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |     |     |   |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | (Go to D5.3.1 New Well Development)   | YES | YES | YES   | Begin process to obtain permits for water appropriation in Phase II |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | (Go to D5.3.1 New Well Development)   | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | YES (Go to D5.3.1)  | NO  | NO  | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | NO (Go to Decision)   | YES | YES | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | (Go to D5.3.1 New Well Development)   | NO  | NO  | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |   |
| NO        | NO                     | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                                       |   |                           |                          |                                      |   |                                |   |     |     |   |   |
| NO        |                        |   |   |                                       |   |                           |                          |                                      |   |                                | Groundwater is not a resource option in the Basin                                   |     |     |   |   |
| 173A      | Railroad Valley, South | YES   | YES   | YES                                   | NO  | NO                        | NO                       | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |     |     |   |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | (Go to D5.3.1 New Well Development)   | YES | YES | YES   | Begin process to obtain permits for water appropriation in Phase II |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | (Go to D5.3.1 New Well Development)   | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | YES (Go to D5.3.1)  | NO  | NO  | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | NO (Go to Decision)   | YES | YES | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | (Go to D5.3.1 New Well Development)   | NO  | NO  | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |   |
| NO        | NO                     | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                                       |   |                           |                          |                                      |   |                                |   |     |     |   |   |
| NO        |                        |   |   |                                       |   |                           |                          |                                      |   |                                | Groundwater is not a resource option in the Basin                                   |     |     |   |   |
| 173B      | Railroad Valley, North | YES   | YES   | YES                                   | NO  | NO                        | NO                       | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin |     |     |   |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | (Go to D5.3.1 New Well Development)   | YES | YES | YES   | Begin process to obtain permits for water appropriation in Phase II |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | (Go to D5.3.1 New Well Development)   | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | YES (Go to D5.3.1)  | NO  | NO  | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | NO (Go to Decision)   | YES | YES | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |   |
|           |                        |   |   |                                       |   |                           |                          |                                      |   |                                | (Go to D5.3.1 New Well Development)   | NO  | NO  | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |   |
| NO        | NO                     | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |                                       |   |                           |                          |                                      |   |                                |   |     |     |   |   |
| NO        |                        |   |   |                                       |   |                           |                          |                                      |   |                                | Groundwater is not a resource option in the Basin                                   |     |     |   |   |



Appendix D – Decision Matrix (Water Resources Decision Support)

| Basin No. | Basin Name     | D5.1.1 Viable Groundwater Occurrence in Basin | D5.1.2 Designated Status | D5.2.1 Water District or Municipality  | D5.2.2 Majority of Permits for Non-Preferred Uses | D5.2.3 Purchase Potential               | D5.2.4 Lease Opportunity            | D5.3.1 Consider New Well Development | D5.3.2 Groundwater < 500 ft./ Suitable Aquifers | D5.3.3 Infrastructure Feasible                    | Decision  |   |
|-----------|----------------|---|--------------------------|--|---|---|-------------------------------------|--------------------------------------|---|---|---|---|
| 170       | Penoyer Valley | YES   | YES                      | YES                                    | NO  | NO                                      |                                     | YES                                  | YES   | YES   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin       |   |
|           |                |   |                          |  |   | YES (Go to D5.3.1 New Well Development) |                                     |                                      |   |   | NO  | Begin process to obtain permits for water appropriation in Phase II                         |
|           |                |   |                          | NO                                     | NO  | YES                                     | (Go to D5.3.1 New Well Development) |                                      | NO  | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |                |   |                          |  |   | NO                                      | YES (Go to D5.3.1)                  | YES                                  |   |   |   | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |
|           |                |   |                          | NO (Go to D5.3.1 New Well Development) |   | NO (Go to Decision)                     |                                     | NO                                   | NO  | NO  | NO  | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |                |   |                          | NO                                     |   | NO (Go to Decision)                     |                                     |                                      |   |   |   | NO  |
| NO        |                | NO (Go to D5.3.1 New Well Development)        |                          | NO                                     |   | NO                                      |                                     | NO                                   | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |   |
| NO        |                | NO (Go to D5.3.1 New Well Development)        |                          | NO                                     |   | NO                                      |                                     | NO                                   |   | Groundwater is not a resource option in the Basin |   |   |
| 172       | Garden Valley  | YES   | YES                      | YES                                    | NO  | NO                                      |                                     | YES                                  | YES   | YES   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin       |   |
|           |                |   |                          |  |   | YES (Go to D5.3.1 New Well Development) |                                     |                                      |   |   | NO  | Begin process to obtain permits for water appropriation in Phase II                         |
|           |                |   |                          | NO                                     | NO  | YES                                     | (Go to D5.3.1 New Well Development) |                                      | NO  | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |                |   |                          |  |   | NO                                      | YES (Go to D5.3.1)                  | NO                                   |   |   |   | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |
|           |                |   |                          | NO (Go to D5.3.1 New Well Development) |   | NO (Go to Decision)                     |                                     | NO                                   | NO  | NO  | NO  | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |                |   |                          | NO                                     |   | NO (Go to Decision)                     |                                     |                                      |   |   |   | NO  |
| NO        |                | NO (Go to D5.3.1 New Well Development)        |                          | NO                                     |   | NO                                      |                                     | NO                                   | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |   |
| NO        |                | NO (Go to D5.3.1 New Well Development)        |                          | NO                                     |   | NO                                      |                                     | NO                                   |   | Groundwater is not a resource option in the Basin |   |   |
| 171       | Coal Valley    | YES   | YES                      | YES                                    | NO  | NO                                      |                                     | YES                                  | YES   | YES   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin       |   |
|           |                |   |                          |  |   | YES (Go to D5.3.1 New Well Development) |                                     |                                      |   |   | NO  | Begin process to obtain permits for water appropriation in Phase II                         |
|           |                |   |                          | NO                                     | NO  | YES                                     | (Go to D5.3.1 New Well Development) |                                      | NO  | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |                |   |                          |  |   | NO                                      | YES (Go to D5.3.1)                  | NO                                   |   |   |   | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |
|           |                |   |                          | NO (Go to D5.3.1 New Well Development) |   | NO (Go to Decision)                     |                                     | NO                                   | NO  | NO  | NO  | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |                |   |                          | NO                                     |   | NO (Go to Decision)                     |                                     |                                      |   |   |   | NO  |
| NO        |                | NO (Go to D5.3.1 New Well Development)        |                          | NO                                     |   | NO                                      |                                     | NO                                   | NO  | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |   |
| NO        |                | NO (Go to D5.3.1 New Well Development)        |                          | NO                                     |   | NO                                      |                                     | NO                                   |   | Groundwater is not a resource option in the Basin |   |   |



Appendix D – Decision Matrix (Water Resources Decision Support)

| Basin No. | Basin Name                             | D5.1.1 Viable Groundwater Occurrence in Basin | D5.1.2 Designated Status | D5.2.1 Water District or Municipality   | D5.2.2 Majority of Permits for Non-Preferred Uses | D5.2.3 Purchase Potential               | D5.2.4 Lease Opportunity | D5.3.1 Consider New Well Development | D5.3.2 Groundwater < 500 ft./ Suitable Aquifers | D5.3.3 Infrastructure Feasible | Decision  |
|-----------|--|---|--------------------------|---|---|---|--------------------------|--------------------------------------|---|--------------------------------|---|
| 207       | White River Basin                      | YES   | YES                      | YES   |   | NO                                      |                          | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
|           |  |   |                          |   |   | YES (Go to D5.3.1 New Well Development) |                          |                                      |   |                                | Begin process to obtain permits for water appropriation in Phase II                         |
|           |  |   |                          |   |   | (Go to D5.3.1 New Well Development)     |                          |                                      |   |                                | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |  |   |                          | NO  | YES   | (Go to D5.3.1)                          |                          |                                      |   |                                | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |
|           |  |   |                          |   | NO  | (Go to Decision)                        |                          |                                      |   |                                | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |  |   |                          |   | NO (Go to D5.3.1 New Well Development)            |   | NO                       |                                      |   |                                | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
| NO        | NO (Go to D5.3.1 New Well Development) |   | NO                       | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |   |   |                          |                                      |   |                                |   |
| NO        |  |   |                          |   |   |   |                          |                                      |   |                                | Groundwater is not a resource option in the Basin   |
| 208       | Pahroc Valley                          | YES   | YES                      | YES   |   | NO                                      |                          | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
|           |  |   |                          |   |   | YES (Go to D5.3.1 New Well Development) |                          |                                      |   |                                | Begin process to obtain permits for water appropriation in Phase II                         |
|           |  |   |                          |   |   | (Go to D5.3.1 New Well Development)     |                          |                                      |   |                                | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |  |   |                          | NO  | YES   | (Go to D5.3.1)                          |                          |                                      |   |                                | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |
|           |  |   |                          |   | NO  | (Go to Decision)                        |                          |                                      |   |                                | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |  |   |                          |   | NO (Go to D5.3.1 New Well Development)            |   | NO                       |                                      |   |                                | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
| NO        | NO (Go to D5.3.1 New Well Development) |   | NO                       | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |   |   |                          |                                      |   |                                |   |
| NO        |  |   |                          |   |   |   |                          |                                      |   |                                | Groundwater is not a resource option in the Basin   |
| 181       | Dry Lake Valley                        | YES   | YES                      | YES   |   | NO                                      |                          | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
|           |  |   |                          |   |   | YES (Go to D5.3.1 New Well Development) |                          |                                      |   |                                | Begin process to obtain permits for water appropriation in Phase II                         |
|           |  |   |                          |   |   | (Go to D5.3.1 New Well Development)     |                          |                                      |   |                                | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |  |   |                          | NO  | YES   | (Go to D5.3.1)                          |                          |                                      |   |                                | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC              |
|           |  |   |                          |   | NO  | (Go to Decision)                        |                          |                                      |   |                                | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |  |   |                          |   | NO (Go to D5.3.1 New Well Development)            |   | NO                       |                                      |   |                                | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
| NO        | NO (Go to D5.3.1 New Well Development) |   | NO                       | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |   |   |                          |                                      |   |                                |   |
| NO        |  |   |                          |   |   |   |                          |                                      |   |                                | Groundwater is not a resource option in the Basin   |



Appendix D – Decision Matrix (Water Resources Decision Support)

| Basin No. | Basin Name       | D5.1.1 Viable Groundwater Occurrence in Basin | D5.1.2 Designated Status | D5.2.1 Water District or Municipality | D5.2.2 Majority of Permits for Non-Preferred Uses | D5.2.3 Purchase Potential               | D5.2.4 Lease Opportunity | D5.3.1 Consider New Well Development | D5.3.2 Groundwater < 500 ft./ Suitable Aquifers | D5.3.3 Infrastructure Feasible | Decision  |   |
|-----------|------------------|---|--------------------------|---------------------------------------|---|---|--------------------------|--------------------------------------|---|--------------------------------|---|---|
| 203       | Panaca Valley    | YES   | YES                      | YES                                   |   | NO                                      |                          | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin       |   |
|           |                  |   |                          |                                       |   | YES (Go to D5.3.1 New Well Development) |                          |                                      |   |                                | Begin process to obtain permits for water appropriation in Phase II                       |   |
|           |                  |   |                          |                                       | YES   | (Go to D5.3.1 New Well Development)     |                          |                                      |   |                                | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |   |
|           |                  |   |                          | NO                                    | NO  | YES (Go to D5.3.1)                      | NO                       |                                      |   |                                | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC            |   |
|           |                  |   |                          |                                       |   | NO (Go to Decision)                     |                          |                                      |   |                                | YES   | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |                  |   |                          |                                       | NO (Go to D5.3.1 New Well Development)            |   |                          |                                      |   |                                |   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
|           |                  |   |                          | NO                                    |   |   |                          |                                      |   |                                | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |                  |   |                          |                                       | Groundwater is not a resource option in the Basin |   |                          |                                      |   |                                |   |   |
| 197       | Escalante Valley | YES   | YES                      | YES                                   |   | NO                                      |                          | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin       |   |
|           |                  |   |                          |                                       |   | YES (Go to D5.3.1 New Well Development) |                          |                                      |   |                                | Begin process to obtain permits for water appropriation in Phase II                       |   |
|           |                  |   |                          |                                       | YES   | (Go to D5.3.1 New Well Development)     |                          |                                      |   |                                | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |   |
|           |                  |   |                          | NO                                    | NO  | YES (Go to D5.3.1)                      | NO                       |                                      |   |                                | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC            |   |
|           |                  |   |                          |                                       |   | NO (Go to Decision)                     |                          |                                      |   |                                | YES   | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |                  |   |                          |                                       | NO (Go to D5.3.1 New Well Development)            |   |                          |                                      |   |                                |   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
|           |                  |   |                          | NO                                    |   |   |                          |                                      |   |                                | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |                  |   |                          |                                       | Groundwater is not a resource option in the Basin |   |                          |                                      |   |                                |   |   |
| 204       | Clover Valley    | YES   | YES                      | YES                                   |   | NO                                      |                          | YES                                  | YES   | YES                            | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin       |   |
|           |                  |   |                          |                                       |   | YES (Go to D5.3.1 New Well Development) |                          |                                      |   |                                | Begin process to obtain permits for water appropriation in Phase II                       |   |
|           |                  |   |                          |                                       | YES   | (Go to D5.3.1 New Well Development)     |                          |                                      |   |                                | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin |   |
|           |                  |   |                          | NO                                    | NO  | YES (Go to D5.3.1)                      | NO                       |                                      |   |                                | Geologic Environment Unfavorable for Groundwater as a Water Resource in the SC            |   |
|           |                  |   |                          |                                       |   | NO (Go to Decision)                     |                          |                                      |   |                                | YES   | Begin negotiation with High-Priority permit holders or water districts in Basin in Phase II |
|           |                  |   |                          |                                       | NO (Go to D5.3.1 New Well Development)            |   |                          |                                      |   |                                |   | Regulatory Environment Unfavorable for Groundwater as a Water Resource in the Basin         |
|           |                  |   |                          | NO                                    |   |   |                          |                                      |   |                                | NO  | Infrastructure Constraints to Development of Groundwater as a Water Resource in the Basin   |
|           |                  |   |                          |                                       | Groundwater is not a resource option in the Basin |   |                          |                                      |   |                                |   |   |





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**Well Data Within 1-Mile of CRC**

Appendix E

**NDWR Wells (With Matched Water Rights) Within 1-Mile of CRC**

| Basin No. | Well Log No. | Proposed Use* | Twp | Rng | Section | Quarters | Well Completion Date | Depth Drilled (ft-bgs) | Casing Depth (ft-bgs) | Casing Diameter (inches) | Static Water Level (ft-bgs) | Temp. (deg-F.) | Yield (gpm) | Water Right Application No. | Water Right USE |
|-----------|--------------|---------------|-----|-----|---------|----------|----------------------|------------------------|-----------------------|--------------------------|-----------------------------|----------------|-------------|-----------------------------|-----------------|
| 173A      | 85358        | I             | 02N | 53E | 16      | NE NW    | 5/11/2001            | 440                    | 440                   | 16                       | 130                         |                | 2500        | 31568                       | IRR             |
| 142       | 8817         | K             | 03S | 42E | 10      |          | 3/6/1965             | 440                    | 440                   | 8.62                     | 31                          |                | 50          | 22690                       | MUN             |
| 146       | 14371        | I             | 08S | 44E | 2       | NE NW    | 3/15/1968            | 203                    | 203                   | 14                       | 52                          |                | 30          | 28186                       | IRR             |
| 146       | 38909        | P             | 08S | 44E | 11      | SE NE    | 9/7/1992             | 100                    | 100                   | 8                        | 7                           |                | 0           | 57961                       | QM              |
| 149       | 29844        | Z             | 01N | 46E | 25      | NE SW    | 6/10/1959            | 250                    | 250                   | 8                        | 108.6                       |                | 200         | 56916                       | QM              |
| 149       | 32284        | P             | 01S | 46E | 2       | NW NE    | 9/1/1989             | 650                    | 650                   | 13.38                    | 300                         |                | 0           | 53885                       | QM              |
| 149       | 70886        | I             | 01N | 46E | 26      | SE NE    | 3/30/1998            | 400                    | 350                   | 16                       | 100                         | 65             | 2000        | 63100                       | IRR             |
| 149       | 70921        | I             | 01N | 46E | 26      | SE NW    | 4/12/1998            | 500                    | 200                   | 16                       | 103                         | 65             | 250         | 64415                       | IRR             |
| 171       | 61527        | S             | 01N | 59E | 21      | SW SW    | 10/31/1996           | 1880                   | 911                   | 10.75                    | 151                         |                | 350         | 62615                       | STK             |
| 172       | 10132        | S             | 01S | 57E | 2       | NW NW    | 1/1/1944             | 500                    | 500                   | 0                        | 450                         |                | 0           | 11047                       | STK             |
| 181       | 10864        | I             | 03S | 63E | 22      | NW NE    | 3/2/1966             | 230                    | 230                   | 14                       | 3                           |                | 0           | 22477                       | IRD             |
| 203       | 1833         | I             | 02S | 67E | 25      | NW NE    | 11/6/1951            | 132                    | 132                   | 12                       | 14                          |                | 0           | 14834                       | IRR             |
| 203       | 717          | C             | 04S | 67E | 5       | SE SW    | 11/15/1948           | 58                     | 58                    | 5.75                     | 22                          |                | 0           | 25711                       | COM             |
| 203       | 5471         | I             | 02S | 67E | 35      | SE NE    | 10/3/1960            | 183                    | 183                   | 14                       | 28                          |                | 0           | 19328                       | IRR             |
| 203       | 1590         | I             | 02S | 67E | 25      | NE SW    | 3/15/1951            | 150                    | 150                   | 14                       | 18                          |                | 0           | 14193                       | IRR             |
| 203       | 3224         | I             | 03S | 67E | 2       | NE NE    | 10/21/1955           | 145                    | 140                   | 12                       | 22                          |                | 240         | 10639                       | IRR             |
| 203       | 3301         | I             | 02S | 68E | 19      | SW SW    | 1/1/1956             | 125                    | 100                   | 12                       | 0                           |                | 0           | 11968                       | IRR             |
| 203       | 4067         | I             | 03S | 67E | 2       | NW SE    | 5/2/1958             | 158                    | 140                   | 12                       | 24                          |                | 0           | 23105                       | IRR             |
| 203       | 5014         | I             | 02S | 68E | 19      | SW SE    | 1/27/1960            | 178                    | 164                   | 12                       | 4                           |                | 0           | 20154                       | IRR             |
| 203       | 5625         | I             | 02S | 67E | 26      | NE SE    | 12/16/1960           | 115                    | 115                   | 14                       | 29                          |                | 350         | 19788                       | IRD             |
| 203       | 7143         | I             | 03S | 67E | 2       | SE SW    | 4/13/1963            | 163                    | 156                   | 10                       | 21                          |                | 0           | 21206                       | IRR             |
| 203       | 7145         | I             | 02S | 67E | 26      | SW SE    | 4/29/1963            | 65                     | 65                    | 10                       | 29                          |                | 120         | 21452                       | IRR             |
| 203       | 7497         | I             | 02S | 67E | 26      | NE SE    | 12/16/1960           | 115                    | 115                   | 14                       | 29                          |                | 350         | 19789                       | IRD             |
| 203       | 7498         | I             | 02S | 67E | 25      | SW SW    | 1/31/1961            | 187                    | 187                   | 14                       | 27                          |                | 0           | 19790                       | IRD             |
| 203       | 8369         | I             | 02S | 67E | 24      | SE SW    | 2/13/1965            | 172                    | 172                   | 14                       | 27                          |                | 1000        | 22935                       | IRR             |
| 203       | 8590         | I             | 02S | 67E | 25      | NW NE    | 11/11/1951           | 132                    | 132                   | 12                       | 14                          |                | 0           | 20264                       | IRD             |
| 203       | 9272         | I             | 03S | 67E | 28      | NE SW    | 9/19/1962            | 118                    | 118                   | 14                       | 0                           |                | 0           | 20851                       | IRR             |
| 203       | 9428         | S             | 02S | 67E | 24      | NE SE    | 2/19/1948            | 40                     | 40                    | 8                        | 20                          |                | 0           | 21236                       | IRR             |
| 203       | 9429         | I             | 02S | 67E | 24      | NE SE    | 9/24/1950            | 100                    | 100                   | 12                       | 9                           |                | 0           | 21237                       | IRR             |
| 203       | 9597         | I             | 03S | 67E | 15      | SW SE    | 1/1/1967             | 300                    | 300                   | 16                       | 3                           |                | 0           | 57679                       | IRR             |
| 203       | 9927         | C             | 04S | 67E | 5       | NE SW    | 12/1/1967            | 75                     | 75                    | 10                       | 25                          |                | 0           | 24407                       | COM             |
| 203       | 20679        | N             | 04S | 67E | 5       | SW SW    | 10/25/1979           | 75                     | 75                    | 8                        | 32                          |                | 100         | 25711                       | COM             |
| 203       | 73128        | I             | 03S | 67E | 2       | SE SW    | 7/30/1998            | 400                    | 400                   | 12.75                    | 22                          |                | 250         | 21206                       | IRR             |
| 203       | 75154        | I             | 03S | 67E | 2       | SE SW    | 11/8/1998            | 160                    | 160                   | 16                       | 53                          |                | 350         | 21206                       | IRR             |
| 203       | 92588        | I             | 02S | 67E | 24      | SE NW    | 10/30/2003           | 200                    | 200                   | 16                       | 42                          | 56             | 650         | 69447                       | IRR             |
| 203       | 92591        | I             | 02S | 67E | 24      | NE SE    | 12/9/2003            | 105                    | 105                   | 12.75                    | 0                           |                | 0           | 21237                       | IRR             |
| 203       | 92837        | I             | 02S | 67E | 24      | NE SE    | 3/20/2004            | 240                    | 240                   | 16                       | 19                          |                | 2400        | 21237                       | IRR             |
| 205       | 853          | I             | 04S | 67E | 8       | NE NE    | 3/17/1949            | 90                     | 90                    | 10                       | 24                          |                | 0           | 12708                       | IRR             |

**NDWR Wells (With Matched Water Rights) Within 1-Mile of CRC**

| Basin No. | Well Log No. | Proposed Use* | Twp | Rng | Section | Quarters | Well Completion Date | Depth Drilled (ft-bgs) | Casing Depth (ft-bgs) | Casing Diameter (inches) | Static Water Level (ft-bgs) | Temp. (deg-F.) | Yield (gpm) | Water Right Application No. | Water Right USE |
|-----------|--------------|---------------|-----|-----|---------|----------|----------------------|------------------------|-----------------------|--------------------------|-----------------------------|----------------|-------------|-----------------------------|-----------------|
| 205       | 2436         | C             | 04S | 67E | 7       | NE SE    | 11/23/1953           | 190                    | 190                   | 12                       | 14                          |                | 700         | 19377                       | MUN             |
| 205       | 8924         | P             | 04S | 67E | 8       | NW NE    | 3/5/1966             | 195                    | 195                   | 14                       | 18                          |                | 0           | 23933                       | MUN             |
| 205       | 10340        | I             | 04S | 67E | 9       | SE NE    | 3/7/1968             | 115                    | 110                   | 12                       | 29                          |                | 0           | 24603                       | IRR             |
| 205       | 10991        | I             | 04S | 67E | 8       | NE NW    | 1/1/1957             | 75                     | 75                    | 8                        | 20                          |                | 0           | 24461                       | IRR             |
| 205       | 11809        | P             | 04S | 67E | 8       | SW NW    | 3/18/1970            | 165                    | 165                   | 20                       | 16                          | 60             | 640         | 25970                       | MUN             |
| 205       | 13424        | S             | 04S | 67E | 9       | SW NW    | 9/14/1970            | 52                     | 52                    | 12                       | 10                          |                | 250         | 26762                       | STK             |
| 205       | 21183        | J             | 04S | 67E | 8       | NW NW    | 11/13/1975           | 115                    | 115                   | 6                        | 10                          | 107            | 35          | 37106                       | OTH             |
| 205       | 31521        | P             | 04S | 67E | 8       | NW NW    | 11/12/1984           | 107                    | 107                   | 8                        | 7                           | 99             | 100         | 48455                       | REC             |
| 229       | 32642        | N             | 12S | 48E | 4       | NW SE    | 9/1/1989             | 1600                   | 1600                  | 16                       | 660                         |                | 0           | 52847                       | MM              |

**\* Notes**

| Proposed Use Codes: |                       |          |                               |
|---------------------|-----------------------|----------|-------------------------------|
| <b>A</b>            | Air conditioning (AC) | <b>J</b> | Industrial-Cooling (IND)      |
| <b>B</b>            | Bottling (BOT)        | <b>K</b> | Mining (MM)                   |
| <b>C</b>            | Commercial (COM)      | <b>M</b> | Medicinal (MED)               |
| <b>D</b>            | Dewater (DWR)         | <b>N</b> | Industrial (IND)              |
| <b>E</b>            | Power (PWR)           | <b>P</b> | Public Supply-Municipal (MUN) |
| <b>F</b>            | Fire (FIR)            | <b>Q</b> | Aquaculture (AQC)             |
| <b>G</b>            | Monitoring Well (MON) | <b>R</b> | Recreation (REC)              |
| <b>H</b>            | Domestic (DOM)        | <b>S</b> | Stock (STK)                   |
| <b>I</b>            | Irrigation (IRR)      | <b>T</b> | Institution (INS)             |
|                     |                       | <b>U</b> | Unused (UNU)                  |
|                     |                       | <b>X</b> | Test Well (TST)               |
|                     |                       | <b>Y</b> | Deslination (DES)             |
|                     |                       | <b>Z</b> | Other (OTH)                   |

**NDWR Wells (Unmatched to Water Rights) Within 1-Mile of CRC**

| Basin No. | Well Log No. | Proposed Use* | Township | Range | Section | Quarters | Well Completion Date | Depth Drilled (ft-bgs) | Casing Depth (ft-bgs) | Casing Diameter (inches) | Static Water Level (ft-bgs) | Temp. (deg-F.) | Yield (gpm) | Water Right Application No. |
|-----------|--------------|---------------|----------|-------|---------|----------|----------------------|------------------------|-----------------------|--------------------------|-----------------------------|----------------|-------------|-----------------------------|
| 205       | 444          | I             | 04S      | 67E   | 9       | SW NE    | 3/14/1948            | 43                     | 43                    | 8                        | 18                          |                | 15          |                             |
| 205       | 445          | I             | 04S      | 67E   | 9       | SW NE    | 3/6/1948             | 40                     | 40                    | 8                        | 11                          |                | 15          |                             |
| 203       | 477          | I             | 03S      | 67E   | 2       | NE       | 12/3/1947            | 135                    | 126                   | 9.75                     | 21                          |                |             |                             |
| 203       | 1271         | I             | 02S      | 67E   | 25      | SW SW    | 4/15/1950            | 150                    | 150                   | 14                       | 23                          |                | 1020        | 14487                       |
| 173A      | 1471         | S             | 03N      | 52E   | 11      | SE       | 10/25/1950           | 60                     | 60                    |                          | 20                          |                |             |                             |
| 156       | 1793         | S             | 04N      | 51E   | 29      | SE       | 9/6/1951             | 137                    | 137                   | 5                        | 95                          |                | 20          |                             |
| 205       | 1805         | C             | 04S      | 67E   | 8       | NW SW    | 11/28/1951           | 90                     | 90                    | 12                       | 12                          |                |             |                             |
| 204       | 2104         | C             | 04S      | 68E   | 8       | SW       | 11/29/1952           | 185                    | 185                   | 10                       | 8                           |                |             |                             |
| 203       | 2444         | I             | 03S      | 67E   | 22      | SW NE    | 12/16/1953           | 92                     | 92                    | 12                       | 2                           |                |             |                             |
| 203       | 3847         | C             | 03S      | 67E   | 28      | NW SW    | 7/20/1957            | 50                     | 34                    | 8                        |                             |                |             |                             |
| 146       | 4071         | I             | 07S      | 44E   | 35      |          | 4/16/1958            | 370                    | 370                   | 16                       | 132                         |                |             |                             |
| 149       | 4441         | S             | 01N      | 46E   | 31      | SE SW    |                      | 117                    | 117                   | 6                        | 75                          |                |             | 13311                       |
| 172       | 5085         | S             | 03N      | 58E   | 15      | SE       | 1/20/1960            | 260                    | 260                   | 6                        | 235                         |                |             |                             |
| 203       | 5707         | I             | 02S      | 67E   | 25      | NW SW    | 2/14/1961            | 135                    | 100                   | 14                       | 27                          |                | 500         |                             |
| 146       | 6409         | I             | 08S      | 44E   | 12      | SE SW    | 2/16/1962            | 125                    | 125                   | 16                       |                             |                |             | 28625                       |
| 203       | 6551         | I             | 03S      | 67E   | 22      | NW NE    | 5/15/1962            | 175                    | 175                   | 14                       | 3                           |                |             | 19929                       |
| 205       | 6561         | Z             | 04S      | 67E   | 7       |          | 5/26/1962            | 52                     | 52                    | 8                        | 12                          |                |             |                             |
| 203       | 7144         | I             | 03S      | 67E   | 11      | NW NE    | 4/15/1963            | 204                    | 184                   | 14                       | 18                          |                |             |                             |
| 203       | 7323         | I             | 03S      | 67E   | 15      | SW SE    | 7/27/1963            | 128                    | 128                   | 14                       | 13                          |                |             |                             |
| 203       | 7408         | I             | 02S      | 67E   | 24      | NW NW    | 9/26/1963            | 102                    | 102                   | 14                       | 40                          |                | 650         | 30244                       |
| 203       | 7597         | I             | 02S      | 67E   | 24      | NE NW    | 12/31/1963           | 99                     | 99                    | 14                       | 44                          |                |             | 21634                       |
| 203       | 8034         | I             | 02S      | 67E   | 24      | SE SW    | 3/29/1961            | 150                    | 132                   | 12                       | 28                          |                |             | 20514                       |
| 203       | 8059         | C             | 03S      | 67E   | 2       | NW NE    | 8/17/1964            | 105                    | 105                   | 6.62                     | 26                          |                |             |                             |
| 203       | 8060         | I             | 03S      | 67E   | 2       | NW NE    | 8/27/1964            | 166                    | 166                   | 14                       | 30                          |                |             |                             |
| 203       | 8854         | I             | 02S      | 67E   | 35      | SE SW    | 2/2/1966             | 218                    | 150                   | 14                       | 34                          |                | 220         | 22940                       |
| 203       | 9588         | I             | 02S      | 67E   | 24      | NW NW    | 4/1/1967             | 180                    | 170                   | 14                       | 47                          | 59             | 2000        | 22036                       |
| 203       | 9629         | I             | 02S      | 67E   | 14      | NE SE    | 4/29/1967            | 230                    | 210                   | 14                       | 80                          | 59             |             | 21886                       |
| 203       | 11194        | I             | 02S      | 67E   | 14      | NE SE    | 7/1/1970             | 120                    | 120                   | 14                       | 64                          |                | 1850        | 25301                       |
| 203       | 15767        | P             | 02S      | 67E   | 35      | SW NE    | 7/2/1976             | 90                     | 90                    | 8                        | 38                          |                | 20          | 29353                       |
| 172       | 11369        | I             | 01N      | 57E   | 27      | NE       | 5/14/1969            | 200                    | 200                   | 16                       | 68                          |                |             | 22808                       |
| 203       | 12479        | I             | 02S      | 67E   | 24      | NE NW    | 1/1/1972             | 190                    | 190                   | 14                       | 62                          |                | 2450        | 25635                       |
| 144       | 15804        | N             | 05S      | 43E   | 3       |          | 7/24/1976            | 102                    | 100                   | 12.75                    | 30                          |                | 20          |                             |
| 203       | 15977        | P             | 03S      | 67E   | 2       | NW SW    | 1/1/1976             | 170                    | 170                   | 12                       | 32                          |                | 130         | 27643                       |
| 208       | 16650        | N             | 02N      | 62E   | 25      | SE NE    | 6/18/1977            | 510                    |                       | 0                        |                             |                |             |                             |
| 208       | 17468        | N             | 02N      | 62E   | 25      | SE NE    | 9/20/1977            | 503                    | 503                   | 10                       | 163                         |                | 60          |                             |
| 203       | 19308        | P             | 04S      | 67E   | 5       | NE SW    | 6/11/1978            | 203                    | 203                   | 8.62                     | 27                          |                | 200         | 35309                       |
| 203       | 19309        | P             | 04S      | 67E   | 5       | NE SW    | 6/24/1978            | 185                    | 185                   | 16                       | 27                          |                | 900         | 35309                       |
| 144       | 25575        | Z             | 04S      | 43E   | 22      | NE NE    | 6/12/1984            | 300                    |                       |                          |                             |                |             |                             |
| 144       | 25577        | Z             | 04S      | 43E   | 32      | SE SE    | 6/9/1984             | 500                    |                       |                          |                             |                |             |                             |

**NDWR Wells (Unmatched to Water Rights) Within 1-Mile of CRC**

| Basin No. | Well Log No. | Proposed Use* | Township | Range | Section | Quarters | Well Completion Date | Depth Drilled (ft-bgs) | Casing Depth (ft-bgs) | Casing Diameter (inches) | Static Water Level (ft-bgs) | Temp. (deg-F.) | Yield (gpm) | Water Right Application No. |
|-----------|--------------|---------------|----------|-------|---------|----------|----------------------|------------------------|-----------------------|--------------------------|-----------------------------|----------------|-------------|-----------------------------|
| 172       | 26947        | N             | 02N      | 57E   | 27      | NE SW    | 3/11/1986            | 399                    | 399                   | 6                        | 364                         |                | 27          |                             |
| 146       | 32115        | Z             | 08S      | 45E   | 29      | NW SW    | 5/22/1987            | 200                    | 200                   | 10                       | 85                          |                |             |                             |
| 142       | 43276        | P             | 02S      | 42E   | 26      | NE SW    | 11/12/1993           | 550                    | 550                   | 6                        | 36                          |                | 112         | 53031                       |
| 142       | 46854        | K             | 02S      | 42E   | 26      | NW NW    | 11/14/1994           | 620                    | 620                   | 10.75                    | 101                         |                | 0           | 59089                       |
| 229       | 65057        | P             | 12S      | 48E   | 4       | NW SE    | 4/20/1997            | 2112                   | 2100                  | 12.75                    | 692                         | 98             | 250         | 62376T                      |
| 203       | 65407        | P             | 03S      | 67E   | 2       | NW SW    | 4/28/1973            | 127                    | 127                   | 12                       | 36                          | 42             | 750         | 27643                       |
| 203       | 65424        | I             | 03S      | 67E   | 22      |          | 2/1/1966             | 240                    | 240                   | 14                       | 3                           |                | 1400        |                             |
| 205       | 65441        | I             | 04S      | 67E   | 7       | NE SE    | 3/16/1976            | 75                     | 75                    | 10                       | 19                          |                | 150         |                             |
| 205       | 65443        | I             | 04S      | 67E   | 9       | SE NW    | 2/12/1968            | 123                    | 123                   | 12                       | 21                          |                |             |                             |
| 205       | 65445        | I             | 04S      | 67E   | 9       | SW NE    | 7/6/1982             | 108                    | 106                   | 8                        | 24                          |                | 30          |                             |
| 142       | 65724        | K             | 02S      | 42E   | 23      | NE SW    | 1/31/1996            | 205                    | 200                   | 8.62                     | 79                          |                | 40          | 50384                       |
| 203       | 65775        | I             | 02S      | 67E   | 24      | SE SW    | 10/4/1980            | 171                    | 171                   | 14                       | 40                          |                | 650         |                             |
| 203       | 65778        | I             | 02S      | 67E   | 25      | SE NW    | 6/7/1973             | 180                    | 180                   |                          | 30                          |                | 1500        |                             |
| 203       | 65782        | I             | 02S      | 67E   | 25      | SE NE    | 4/12/1981            | 141                    | 141                   | 16                       | 13                          |                | 1300        |                             |

**\* Notes**

| Proposed Use Codes |                       |  |
|--------------------|-----------------------|--|
| <b>A</b>           | Air conditioning (AC) | <b>J</b> Industrial-Cooling (IND)      |
| <b>B</b>           | Bottling (BOT)        | <b>K</b> Mining (MM)                   |
| <b>C</b>           | Commercial (COM)      | <b>M</b> Medicinal (MED)               |
| <b>D</b>           | Dewater (DWR)         | <b>N</b> Industrial (IND)              |
| <b>E</b>           | Power (PWR)           | <b>P</b> Public Supply-Municipal (MUN) |
| <b>F</b>           | Fire (FIR)            | <b>Q</b> Aquaculture (AQC)             |
| <b>G</b>           | Monitoring Well (MON) | <b>R</b> Recreation (REC)              |
| <b>H</b>           | Domestic (DOM)        | <b>S</b> Stock (STK)                   |
| <b>I</b>           | Irrigation (IRR)      | <b>T</b> Institution (INS)             |
|                    |                       | <b>U</b> Unused (UNU)                  |
|                    |                       | <b>X</b> Test Well (TST)               |
|                    |                       | <b>Y</b> Destination (DES)             |
|                    |                       | <b>Z</b> Other (OTH)                   |

**NDWR Wells (No Water Rights) Within 1-Mile of CRC**

| Basin No. | Well Log No. | Proposed Use* | Township | Range | Section | Quarters | Well Completion Date | Depth Drilled (ft-bgs) | Casing Depth (ft-bgs) | Casing Diameter (inches) | Static Water Level (ft-bgs) | Temp. (deg-F.) | Yield (gpm) | Water Right Application No. |
|-----------|--------------|---------------|----------|-------|---------|----------|----------------------|------------------------|-----------------------|--------------------------|-----------------------------|----------------|-------------|-----------------------------|
| 203       | 5013         | U             | 02S      | 68E   | 19      | SE SW    | 10/29/1959           | 183                    |                       |                          |                             |                |             |                             |
| 203       | 7595         | U             | 02S      | 67E   | 14      | NE SE    | 12/18/1963           | 95                     |                       |                          | 5                           |                |             |                             |
| 173B      | 21553        | X             | 03N      | 52E   | 2       | SE       | 7/31/1980            | 470                    | 470                   | 10                       | 66                          |                |             |                             |
| 205       | 41543        | G             | 04S      | 67E   | 8       | SW NW    | 5/3/1993             | 25                     | 25                    | 4                        | 230                         | 68             |             | 41743                       |
| 205       | 41544        | G             | 04S      | 67E   | 8       | SW NW    | 5/4/1993             | 25                     | 25                    | 4                        | 5                           |                |             |                             |
| 205       | 41545        | G             | 04S      | 67E   | 8       | SW NW    | 5/5/1993             | 25                     | 25                    | 4                        | 5                           |                |             |                             |
| 172       | 22583        | X             | 02N      | 57E   | 15      | SE NW    |                      | 1065                   | 970                   | 22                       |                             |                |             |                             |
| 172       | 22584        | X             | 02N      | 57E   | 15      | SE NW    | 8/19/1980            | 1100                   | 1100                  |                          |                             |                |             | 41715                       |
| 156       | 22736        | X             | 03N      | 50E   | 13      | SW SW    |                      | 682                    | 682                   |                          | 317                         | 60             |             | 41748                       |
| 156       | 22742        | X             | 03N      | 50E   | 13      | SW SW    | 2/7/1981             | 710                    | 702                   |                          | 321                         | 66             |             | 41748                       |
| 142       | 43666        | G             | 02S      | 42E   | 35      | NW SW    | 11/15/1992           | 100                    | 100                   | 2                        | 57                          |                | 3           |                             |
| 142       | 43667        | G             | 02S      | 42E   | 35      | NW SW    | 11/15/1992           | 100                    | 100                   | 2                        | 56                          |                | 2           |                             |
| 203       | 24427        | X             | 04S      | 67E   | 5       | NE SW    | 2/5/1983             | 100                    | 100                   | 8.62                     | 43.4                        | 175            | 200         |                             |
| 203       | 24428        | X             | 04S      | 67E   | 5       | NE SW    | 1/20/1983            | 210                    | 210                   | 2                        | 40                          | 90             | 0           |                             |
| 203       | 24429        | X             | 04S      | 67E   | 5       | NE SW    | 1/15/1983            | 220                    |                       |                          | 28                          | 90             | 200         |                             |
| 142       | 25123        | X             | 02S      | 42E   | 26      | NE SW    | 1/20/1984            | 560                    | 18                    | 8                        | 70                          |                | 75          |                             |
| 144       | 25574        | X             | 05S      | 43E   | 10      | SW NW    | 6/14/1984            | 300                    | 300                   | 1                        |                             |                |             |                             |
| 205       | 51131        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 20                     | 20                    | 10                       | 6                           |                |             |                             |
| 142       | 55111        | G             | 02S      | 42E   | 35      | NE NW    | 1/28/1993            | 100                    | 100                   | 2                        | 30                          |                |             |                             |
| 142       | 65001        | G             | 02S      | 42E   | 35      | NW NW    | 3/24/1997            | 59                     | 59                    | 2.37                     | 34                          |                |             |                             |
| 142       | 65002        | G             | 02S      | 42E   | 35      | NW NW    | 3/26/1997            | 85                     | 85                    | 2.37                     | 67                          |                |             |                             |
| 142       | 65003        | G             | 02S      | 42E   | 35      | NE NW    | 3/25/1997            | 77                     | 77                    | 2.37                     | 55                          |                |             |                             |
| 205       | 66215        | G             | 04S      | 67E   | 8       | NE NW    | 12/16/1993           | 33                     | 30                    | 4.5                      | 10                          |                |             |                             |
| 205       | 66216        | G             | 04S      | 67E   | 8       | NE NW    | 12/16/1993           | 33                     | 30                    | 4.5                      | 10                          |                |             |                             |
| 205       | 66217        | G             | 04S      | 67E   | 8       | NE NW    | 12/10/1993           | 33                     | 30                    | 4.5                      | 10                          |                |             |                             |
| 205       | 66218        | G             | 04S      | 67E   | 8       | NE NW    | 12/10/1993           | 33                     | 30                    | 4.5                      | 10                          |                |             |                             |
| 205       | 66219        | G             | 04S      | 67E   | 8       | NE NW    | 12/9/1993            | 33                     | 30                    | 4.5                      | 8                           |                |             |                             |
| 205       | 66220        | G             | 04S      | 67E   | 8       | NE NW    | 12/11/1993           | 33                     | 30                    | 4.5                      | 10                          |                |             |                             |
| 205       | 66221        | G             | 04S      | 67E   | 8       | NE NW    | 12/16/1993           | 33                     | 30                    | 5                        | 10                          |                |             |                             |
| 205       | 66222        | G             | 04S      | 67E   | 8       | NE NW    | 12/9/1993            | 33                     | 30                    | 5                        | 8                           |                |             |                             |
| 205       | 66223        | G             | 04S      | 67E   | 8       | NE NW    | 12/10/1993           | 33                     | 30                    | 4.5                      | 8                           |                |             |                             |
| 205       | 66224        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 10                     | 10                    | 2                        | 5.9                         |                |             |                             |
| 205       | 66225        | G             | 04S      | 67E   | 8       | NW SW    | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 203       | 65438        | X             | 04S      | 67E   | 5       | NW SW    | 12/16/1995           | 8                      |                       |                          | 7                           |                |             |                             |
| 203       | 65439        | X             | 04S      | 67E   | 5       | SW SW    | 10/24/1979           | 82                     | 82                    | 8                        | 13                          | 130            | 100         |                             |
| 228       | 70115        | G             | 10S      | 47E   | 27      | NW SE    | 7/25/1978            | 118                    | 118                   | 8                        | 8                           |                | 60          |                             |
|           |              |               |          |       |         |          | 8/20/1997            | 200                    | 200                   | 2.5                      | 33.5                        |                |             |                             |

**NDWR Wells (No Water Rights) Within 1-Mile of CRC**

| Basin No. | Well Log No. | Proposed Use* | Township | Range | Section | Quarters | Well Completion Date | Depth Drilled (ft-bgs) | Casing Depth (ft-bgs) | Casing Diameter (inches) | Static Water Level (ft-bgs) | Temp. (deg-F.) | Yield (gpm) | Water Right Application No. |
|-----------|--------------|---------------|----------|-------|---------|----------|----------------------|------------------------|-----------------------|--------------------------|-----------------------------|----------------|-------------|-----------------------------|
| 205       | 70194        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 20                     | 20                    | 10                       | 6.11                        |                |             |                             |
| 205       | 70195        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 20                     | 20                    | 10                       | 6.11                        |                |             |                             |
| 205       | 70196        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 10                     | 10                    | 2                        | 5.9                         |                |             |                             |
| 205       | 70197        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 10                     | 10                    | 2                        | 5.9                         |                |             |                             |
| 205       | 70198        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 10                     | 10                    | 2                        | 5.9                         |                |             |                             |
| 205       | 70199        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 10                     | 10                    | 2                        | 5.9                         |                |             |                             |
| 205       | 70215        | G             | 04S      | 67E   | 8       | SW       | 1/10/1996            | 8                      | 7                     |                          | 7                           |                |             |                             |
| 205       | 70216        | G             | 04S      | 67E   | 8       | SW       | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 205       | 70217        | G             | 04S      | 67E   | 8       | SW       | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 205       | 70218        | G             | 04S      | 67E   | 8       | SW       | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 205       | 70219        | G             | 04S      | 67E   | 8       | SW       | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 205       | 70220        | G             | 04S      | 67E   | 8       | SW       | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 205       | 70315        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 10                     | 10                    | 2                        | 5.9                         |                |             |                             |
| 205       | 70316        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 10                     | 10                    | 2                        | 5.9                         |                |             |                             |
| 205       | 70317        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 10                     | 10                    | 2                        | 5.9                         |                |             |                             |
| 205       | 70318        | G             | 04S      | 67E   | 8       | NW SW    | 3/21/1996            | 10                     | 10                    | 2                        | 5.9                         |                |             |                             |
| 205       | 70319        | G             | 04S      | 67E   | 8       | NW SW    | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 205       | 70320        | G             | 04S      | 67E   | 8       | NW SW    | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 205       | 70321        | G             | 04S      | 67E   | 8       | NW SW    | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 205       | 70322        | G             | 04S      | 67E   | 8       | NW SW    | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 205       | 70323        | G             | 04S      | 67E   | 8       | NW SW    | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 205       | 70324        | G             | 04S      | 67E   | 8       | NW SW    | 1/10/1996            | 8                      |                       |                          | 7                           |                |             |                             |
| 229       | 71721        | G             | 12S      | 48E   | 10      | NE NE    | 2/14/1998            | 1489                   | 1485                  | 2                        | 846                         |                |             |                             |
| 205       | 76820        | G             | 04S      | 67E   | 8       | NE NW    | 9/2/1999             | 20                     | 20                    | 2                        | 6.72                        |                |             |                             |
| 205       | 76821        | G             | 04S      | 67E   | 8       | NE NW    | 9/2/1999             | 20                     | 20                    | 2                        | 6.38                        |                |             |                             |
| 205       | 76822        | G             | 04S      | 67E   | 8       | NE NW    | 9/2/1999             | 20                     | 20                    | 2                        | 6.31                        |                |             |                             |
| 205       | 76823        | G             | 04S      | 67E   | 8       | NE NW    | 9/2/1999             | 20                     | 20                    | 2                        | 4.62                        |                |             |                             |
| 205       | 76824        | G             | 04S      | 67E   | 8       | NE NW    | 9/2/1999             | 15                     | 15                    | 2                        |                             |                |             |                             |
| 205       | 76851        | G             | 04S      | 67E   | 8       | NE NW    | 9/2/1999             | 20                     | 20                    | 2                        | 6.3                         |                |             |                             |
| 205       | 86851        | G             | 04S      | 67E   | 8       | NE SE    | 6/4/2002             | 18                     | 18                    | 2                        | 7                           |                |             |                             |
| 205       | 86852        | G             | 04S      | 67E   | 8       | NE SE    | 6/4/2002             | 15                     | 13                    | 6                        | 7                           |                |             |                             |
| 205       | 86853        | G             | 04S      | 67E   | 8       | NE SE    | 6/4/2002             | 15                     | 13                    | 6                        | 7                           |                |             |                             |
| 205       | 86854        | G             | 04S      | 67E   | 8       | NE SE    | 6/4/2002             | 15                     | 13                    | 6                        | 7                           |                |             |                             |
| 205       | 86855        | G             | 04S      | 67E   | 8       | NE SE    | 6/4/2002             | 15                     | 13                    | 6                        | 7.5                         |                |             |                             |
| 205       | 86856        | G             | 04S      | 67E   | 8       | NE SE    | 6/5/2002             | 20                     | 18                    | 4                        | 7                           |                |             |                             |
| 205       | 86857        | G             | 04S      | 67E   | 8       | NE SE    | 6/5/2002             | 20                     | 18                    | 4                        | 7                           |                |             |                             |

**NDWR Wells (No Water Rights) Within 1-Mile of CRC**

| Basin No. | Well Log No. | Proposed Use* | Township | Range | Section | Quarters | Well Completion Date | Depth Drilled (ft-bgs) | Casing Depth (ft-bgs) | Casing Diameter (inches) | Static Water Level (ft-bgs) | Temp. (deg-F.) | Yield (gpm) | Water Right Application No. |
|-----------|--------------|---------------|----------|-------|---------|----------|----------------------|------------------------|-----------------------|--------------------------|-----------------------------|----------------|-------------|-----------------------------|
| 205       | 86858        | G             | 04S      | 67E   | 8       | NE SE    | 6/4/2002             | 20                     | 18                    | 4                        | 6.5                         |                |             |                             |
| 205       | 86859        | G             | 04S      | 67E   | 8       | NE SE    | 6/5/2002             | 20                     | 18                    | 4                        | 7                           |                |             |                             |
| 205       | 90091        | G             | 04S      | 67E   | 8       | SE NW    | 7/24/2003            | 27                     | 27                    | 6                        | 10                          |                |             |                             |
| 205       | 90092        | G             | 04S      | 67E   | 8       | SE NW    | 7/29/2003            | 27                     | 27                    | 6                        | 10                          |                |             |                             |
| 205       | 90093        | G             | 04S      | 67E   | 8       | SE NW    | 7/29/2003            | 25                     | 25                    | 6                        | 10                          |                |             |                             |
| 205       | 92531        | G             | 04S      | 67E   | 8       | NE SE    | 7/28/2003            | 25                     |                       |                          |                             |                |             |                             |
| 205       | 92532        | G             | 04S      | 67E   | 8       | NE SE    | 7/28/2003            | 25                     |                       |                          |                             |                |             |                             |

**\* Notes**

**Proposed Use Codes:**

|                                |  |                            |
|--------------------------------|--|----------------------------|
| <b>A</b> Air conditioning (AC) | <b>J</b> Industrial-Cooling (IND)      | <b>U</b> Unused (UNU)      |
| <b>B</b> Bottling (BOT)        | <b>K</b> Mining (MM)                   | <b>X</b> Test Well (TST)   |
| <b>C</b> Commercial (COM)      | <b>M</b> Medicinal (MED)               | <b>Y</b> Deslination (DES) |
| <b>D</b> Dewater (DWR)         | <b>N</b> Industrial (IND)              | <b>Z</b> Other (OTH)       |
| <b>E</b> Power (PWR)           | <b>P</b> Public Supply-Municipal (MUN) |                            |
| <b>F</b> Fire (FIR)            | <b>Q</b> Aquaculture (AQC)             |                            |
| <b>G</b> Monitoring Well (MON) | <b>R</b> Recreation (REC)              |                            |
| <b>H</b> Domestic (DOM)        | <b>S</b> Stock (STK)                   |                            |
| <b>I</b> Irrigation (IRR)      | <b>T</b> Institution (INS)             |                            |



**USGS-NWIS Wells Within 1-Mile of CRC**

| Basin No. | Project ID | Site Name                                    | Latitude | Longitude | Altitude | Altitude Accuracy (ft) | Date of Construction | Well Depth (ft. bgs) | Hole Depth (ft. bgs) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|----------|-----------|----------|------------------------|----------------------|----------------------|----------------------|--------------------------|--------------------|------------------|-------------------------|---|
| 227A      | U-108      | 227A S14 E49 10DB 1 NC-EWDP-18P              | 36.75    | -116.44   | 3164.86  | 5                      | 20010920             | 885                  | 890                  | 0                        | 11/9/2001          | 8/18/2003        | 22                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364757116245801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364757116245801</a> |
| 227A      | U-141      | 227A S13 E49 34 1 UE-25 WT 12                | 36.78    | -116.43   | 3525.9   | 0.1                    | 19830816             | 1264                 | 1308                 | 8                        | 9/1/1983           | 6/17/1999        | 164                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364656116261601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364656116261601</a> |
| 227A      | U-144      | 227A S13 E49 25 2 UE-25 WT 3                 | 36.79    | -116.41   | 3379.3   | 0.1                    | 19830525             | 1125                 | 1142                 | 1                        | 6/7/1983           | 6/23/1999        | 98                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364757116245801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364757116245801</a> |
| 227A      | U-147      | 227A S13 E49 22 1 UE-25 WT 17                | 36.8     | -116.44   | 3687.7   | 0.1                    | 19831030             | 1376                 | 1453                 | 1                        | 10/31/1983         | 6/23/1999        | 155                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364822116262601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364822116262601</a> |
| 227A      | U-160      | 227A S13 E49 14A 1 UE-25p 1 (Entire Well)    | 36.82    | -116.42   | 3655.5   | 0.1                    | 19821113             | 5923                 | 5923                 | 0                        | 11/7/1983          | 11/7/1983        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364938116252101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364938116252101</a> |
| 227A      | U-161      | 227A S13 E49 14A 2 UE-25p 1 PTH (Lwr Intrvl) | 36.82    | -116.42   | 3655.5   | 0.1                    | 19821113             | 5923                 | 5923                 | 0                        | 10/21/1983         | 9/15/2004        | 214                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364938116252102">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364938116252102</a> |
| 227A      | U-168      | 227A S13 E49 14 4 UE-25c 2 HTH               | 36.82    | -116.42   | 3714.6   | 0.1                    | 19840109             | 3000                 | 3000                 | 0                        | 3/18/1984          | 3/18/1984        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364945116254301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364945116254301</a> |
| 227A      | U-169      | 227A S13 E49 14 1 UE-25c 1 HTH               | 36.82    | -116.42   | 3709.3   | 0.1                    |                      | 2961                 | 3000                 | 4                        | 11/7/1983          | 6/16/1999        | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254300">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254300</a> |
| 227A      | U-170      | 227A S13 E49 14 2 UE-25c 2 HTH               | 36.82    | -116.42   | 3714.6   | 0.1                    | 19840109             | 3000                 | 3000                 | 3                        | 3/18/1984          | 10/24/1985       | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254301</a> |
| 227A      | U-171      | 227A S13 E49 14 3 UE-25c 3 HTH               | 36.82    | -116.42   | 3714.9   | 0.1                    | 19840320             | 3000                 | 3000                 | 2                        | 5/2/1984           | 5/2/1984         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254302</a> |
| 227A      | U-172      | 227A S13 E49 14 7 UE-25c 2                   | 36.82    | -116.42   | 3714.5   | 0.01                   | 19840109             | 3000                 | 3000                 | 3                        | 9/13/1989          | 2/5/1998         | 13                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254401</a> |
| 227A      | U-173      | 227A S13 E49 14 8 UE-25c 3                   | 36.82    | -116.42   | 3715.26  | 0.01                   | 19840320             | 3000                 | 3000                 | 13                       | 8/29/1989          | 6/28/1998        | 11                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254501</a> |
| 227A      | U-174      | 227A S13 E49 14 5 UE-25c 3                   | 36.82    | -116.42   | 3715     | 10                     | 19840320             | 3000                 | 3000                 | 0                        | 8/29/1989          | 9/10/1990        | 6                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254502">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254502</a> |
| 227A      | U-175      | 227A S13 E49 14 6 UE-25c 3                   | 36.82    | -116.42   | 3715     | 10                     | 19840320             | 3000                 | 3000                 | 0                        | 2/22/1990          | 12/3/1990        | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254503">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364947116254503</a> |
| 227A      | U-241      | 227A S13 E49 25 1 UE-25 WT 3                 | 36.79    | -116.41   | 3379.3   | 0.1                    | 19830525             | 1142                 | 1142                 | 0                        | 10/31/1983         | 10/31/1983       | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365757116245801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365757116245801</a> |
| 227A      | U-1611     | 227A S14 E49 26 1 UE-25p 1 PTH               | 36.82    | -116.42   | 3668     | 10                     |                      |                      |                      | 1                        |                    |                  | 0                       |   |
| 173B      | U-597      | 173B N04 E55 19D 1                           | 38.15    | -116.15   | 5000     | 100                    |                      | 223                  |                      | 0                        | 5/16/1984          | 5/16/1984        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380920116090501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380920116090501</a> |
| 173B      | U-1410     | 173B N03 E52 02DADB1 USGS-MX                 | 38.15    | -116.08   | 5005     | 5                      | 19800731             | 452                  | 470                  | 0                        | 8/25/1980          | 7/16/1991        | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380906116050501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380906116050501</a> |
| 173B      | U-1411     | 173B N03 E52 02DA 2 USGS MX (S. R&R Valley)  | 38.15    | -116.08   | 5010     | 10                     | 19800815             | 495                  | 495                  | 0                        | 8/15/1980          | 9/14/2004        | 51                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380906116050502">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380906116050502</a> |
| 173A      | U-551      | 173A S01 E51H19DB 1 Willow Witch Well        | 37.84    | -116.2    | 5930     | 10                     |                      | 370                  |                      | 0                        | 10/1/1959          | 11/13/1999       | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375017115572201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375017115572201</a> |
| 173A      | U-1380     | 173A N02 E53 35AA 1 USGS MX                  | 37.99    | -115.97   | 4990     | 100                    |                      | 200                  | 200                  | 0                        | 9/1/1980           | 1/1/1981         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375951115582201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375951115582201</a> |
| 173A      | U-1387     | 173A N02 E53 09BC 1 USGS MX                  | 38.05    | -116.02   | 4856     | 80                     |                      | 200                  |                      | 0                        | 9/1/1980           | 9/4/1991         | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380313116012601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380313116012601</a> |
| 173A      | U-1402     | 173A N03 E53 18BC 1 USGS MX                  | 38.12    | -116.06   | 4990     | 10                     |                      | 200                  | 200                  | 0                        | 3/1/1981           | 3/15/1990        | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380740116034101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380740116034101</a> |
| 229       | U-140      | 229 S13 E49 33 1 USW WT-11                   | 36.78    | -116.46   | 3589.6   | 0.1                    | 19830809             | 1365                 | 1446                 | 0                        | 9/1/1983           | 7/28/1998        | 96                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364649116280201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=364649116280201</a> |
| 229       | U-225      | 229 S12 E48 04DB 1 Daisy PW-2                | 36.92    | -116.61   | 3920     | 20                     | 19961121             | 2100                 | 2112                 | 0                        | 4/20/1997          | 4/20/1997        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365515116364601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365515116364601</a> |
| 229       | U-226      | 229 S12 E48 04DBB 1 Crater Flat 1            | 36.92    | -116.61   | 3930.9   | 0.1                    | 19890901             | 1600                 | 1600                 | 3                        | 9/1/1989           | 9/24/2004        | 70                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365520116370301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365520116370301</a> |
| 228       | U-248      | 228 S11 E47 10ACAB1 ER-OV-03a                | 36.99    | -116.7    | 3844.36  | 1                      | 19970821             | 251                  | 251                  | 0                        | 10/27/1997         | 9/21/2004        | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421601</a> |
| 228       | U-249      | 228 S11 E47 10ACAB2 ER-OV-03a2               | 36.99    | -116.7    | 3843.78  | 1                      | 19970823             | 642                  | 821                  | 0                        | 10/27/1997         | 9/21/2004        | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421602">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421602</a> |
| 228       | U-250      | 228 S11 E47 10ACAB3 ER-OV-03a3               | 36.99    | -116.7    | 3843.78  | 1                      | 19970823             | 133                  | 821                  | 0                        | 10/27/1997         | 9/21/2004        | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421603">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=365956116421603</a> |

USGS-NWIS Wells Within 1-Mile of CRC

| Basin No. | Project ID | Site_Name                                    | Latitude | Longitude | Altitude | Altitude Accuracy (ft) | Date of Construction | Well Depth (ft bgs) | Hole Depth (ft bgs) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|----------|-----------|----------|------------------------|----------------------|---------------------|---------------------|--------------------------|--------------------|------------------|-------------------------|---|
| 228       | U-261      | 228 S10 E47 27BCD1 ER-OV-02                  | 37.03    | -116.7    | 3880.33  | 1                      | 19970819             | 200                 | 200                 | 0                        | 10/27/1997         | 9/21/2004        | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370210116421501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370210116421501</a> |
| 228       | U-263      | 228 S10 E47 27BAA 1 OVU-Lower ET Well        | 37.04    | -116.7    | 3861     | 10                     | 19980721             | 10.9                | 11.1                | 0                        | 8/3/1998           | 6/26/2001        | 31                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370242116422901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370242116422901</a> |
| 228       | U-266      | 228 S10 E47 22CCD 1 OVU-Middle ET Well       | 37.04    | -116.71   | 3856     | 10                     | 19981216             | 11.1                | 11.2                | 0                        | 1/7/1999           | 6/26/2001        | 26                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370249116424101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370249116424101</a> |
| 228       | U-274      | 228 S10 E47 22DBD 1 OVU-Dune Well            | 37.05    | -116.7    | 3883     | 10                     | 19980330             | 16.9                | 17                  | 0                        | 4/13/1998          | 6/26/2001        | 37                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370301116421101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370301116421101</a> |
| 228       | U-280      | 228 S10 E47 11ADAD1 ER-OV-01                 | 37.08    | -116.68   | 4072.85  | 1                      | 19970803             | 180                 | 180                 | 0                        | 10/27/1997         | 10/6/2004        | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404901</a> |
| 228       | U-281      | 228 S10 E47 11ADAD2 ER-OV-06a                | 37.08    | -116.68   | 4073.04  | 1                      | 19970804             | 536                 | 536                 | 0                        | 10/27/1997         | 10/6/2004        | 41                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404902">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404902</a> |
| 228       | U-282      | 228 S10 E47 11ADAD3 ER-OV-06a2               | 37.08    | -116.68   | 4072.57  | 1                      | 19970810             | 65                  | 71                  | 1                        | 10/27/1997         | 10/6/2004        | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404903">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370504116404903</a> |
| 208       | U-1333     | 208 N03 E62 35B 2 USBLM                      | 38.07    | -114.99   | 6000     | 1                      | 19630508             |                     |                     | 0                        | 5/8/1963           | 5/8/1963         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373924115003101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373924115003101</a> |
| 208       | U-1390     | 208 N03 E62 35B 1 USBLM                      | 38.08    | -114.99   | 4870     |                        |                      | 270                 |                     | 0                        | 5/8/1963           | 9/21/1994        | 17                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380450114594201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380450114594201</a> |
| 205       | U-1498     | 205 S04 E67 08B 1 Caliente Public Utilities  | 37.61    | -114.52   | 4390     | 1                      | 19521101             | 185                 |                     | 0                        | 11/1/1952          | 11/1/1952        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373656114300501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373656114300501</a> |
| 204       | U-1493     | 204 S04 E68 08C 1 Caliente Public Utilities  | 37.61    | -114.4    | 4658     | 20                     | 19521129             | 185                 | 185                 | 0                        | 11/29/1952         | 11/29/1952       | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373649114241201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373649114241201</a> |
| 204       | U-1495     | 204 S04 E67 08CBBB1 City of Caliente Well 8  | 37.61    | -114.51   | 4390     | 20                     | 19660223             | 195                 | 195                 | 1                        | 3/5/1966           | 3/5/1966         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373649114305701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373649114305701</a> |
| 204       | U-1496     | 204 S04 E67 07DAAA1 City of Caliente Well 10 | 37.61    | -114.51   | 4390     | 10                     | 19700211             | 165                 | 165                 | 0                        | 3/18/1970          | 4/4/1990         | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373649114310201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373649114310201</a> |
| 204       | U-1497     | 204 S04 E67 07DAAA2 City of Caliente Well 9  | 37.61    | -114.51   | 4390     | 20                     | 19700211             | 160                 | 165                 | 1                        | 3/18/1970          | 3/18/1970        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373650114310001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373650114310001</a> |
| 204       | U-1499     | 204 S04 E67 09BDBD1                          | 37.61    | -114.49   | 4421     | 2                      | 19700904             | 52                  | 52                  | 0                        | 9/14/1970          | 3/14/1985        | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373659114293201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373659114293201</a> |
| 204       | U-1501     | 204 S04 E67 09BC 1                           | 37.61    | -114.49   | 4420     | 10                     | 19700904             | 52                  | 52                  | 0                        | 9/14/1970          | 4/3/1990         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373704114294601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373704114294601</a> |
| 204       | U-1503     | 204 S04 E67 05C 1 Caliente Public Utilities  | 37.62    | -114.52   | 4410     | 1                      | 19450101             | 130                 |                     | 0                        | 4/1/1946           | 4/1/1946         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373727114300201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373727114300201</a> |
| 204       | U-1910     | 204 S04 E67 08 2                             | 37.61    | -114.51   | 4397     |                        |                      |                     |                     | 1                        |                    |                  | 0                       |   |
| 204       | u-2078     | 204 S04 E67 08ACBC1 City of Caliente Well 1  | 37.61    | -114.5    | 4410     | 20                     |                      |                     |                     | 1                        |                    |                  | 0                       |   |
| 204       | u-2079     | 204 S04 E67 08ACBA1 City of Caliente Well 2  | 37.61    | -114.5    | 4410     | 20                     |                      |                     |                     | 1                        |                    |                  | 0                       |   |
| 203       | U-1505     | 203 S03 E67 28C 1                            | 37.65    | -114.5    | 4460     | 1                      |                      | 118                 |                     | 0                        | 6/17/1965          | 10/14/2002       | 70                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373919114290401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373919114290401</a> |
| 203       | U-1506     | 203 S03 E67 22B 1                            | 37.67    | -114.48   | 4600     | 1                      |                      | 175                 |                     | 0                        | 3/16/1963          | 10/14/2002       | 59                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374034114274601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374034114274601</a> |
| 203       | U-1507     | 203 S03 E67 14ACAB1                          | 37.68    | -114.45   | 4680     | 10                     | 19980917             | 158                 | 158                 | 1                        | 9/18/1998          | 9/18/1998        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374124114270001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374124114270001</a> |
| 203       | U-1509     | 203 S03 E67 11A 1                            | 37.7     | -114.46   | 4600     | 1                      |                      | 204                 |                     | 0                        | 4/1/1963           | 9/30/1975        | 18                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374215114262401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374215114262401</a> |
| 203       | U-1513     | 203 S03 E67 02D 1                            | 37.71    | -114.46   | 4615     | 1                      |                      | 158                 |                     | 0                        | 4/1/1958           | 10/14/2002       | 43                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374243114261401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374243114261401</a> |
| 203       | U-1514     | 203 S03 E67 02A 1                            | 37.72    | -114.45   | 4605     | 1                      | 19400101             | 225                 |                     | 0                        | 2/24/1962          | 3/20/1997        | 20                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374317114265801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374317114265801</a> |
| 203       | U-1517     | 203 S02 E67 25C 1                            | 37.74    | -114.45   | 4650     | 1                      |                      | 135                 |                     | 0                        | 2/1/1961           | 2/1/1961         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374416114253301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374416114253301</a> |
| 203       | U-1518     | 203 S02 E67 25DABB1                          | 37.74    | -114.42   | 4659     |                        |                      |                     |                     | 1                        | 7/20/1966          | 10/14/2002       | 64                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374441114252801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374441114252801</a> |
| 203       | U-1519     | 203 S02 E67 24D 1                            | 37.75    | -114.44   | 4700     | 1                      |                      |                     |                     | 0                        | 11/16/1967         | 10/14/2002       | 59                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374509114250901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374509114250901</a> |

**USGS-NWIS Wells Within 1-Mile of CRC**

| Basin No. | Project ID | Site_Name                                    | Latitude | Longitude | Altitude | Altitude Accuracy (ft) | Date of Construction | Well Depth (ft-bgs) | Hole Depth (ft-bgs) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|--|----------|-----------|----------|------------------------|----------------------|---------------------|---------------------|--------------------------|--------------------|------------------|-------------------------|---|
| 172       | U-1368     | 172 S01 E57 02BB 1                           | 37.89    | -115.54   | 5546     | 5                      | 19440221             | 500                 | 500                 | 0                        | 2/21/1944          | 3/20/1990        | 4                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375348115324301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375348115324301</a> |
| 172       | U-1383     | 172 N02 E57 22BBC 1 USGS MX (Garden Valley)  | 38.02    | -115.56   | 5550     | 10                     |                      | 1010                | 1065                | 0                        | 12/12/1980         | 9/16/2004        | 40                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333501</a> |
| 172       | U-1384     | 172 N02 E57 22BA 2 USGS-MX                   | 38.02    | -115.56   | 5400     | 100                    | 19800816             | 1032                | 1099                | 0                        | 12/12/1980         | 3/31/1994        | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333502">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333502</a> |
| 172       | U-1385     | 172 N02 E57 22BBC 3 USGS MX                  | 38.02    | -115.56   | 5550     | 10                     |                      | 300                 | 1099                | 0                        | 3/20/1990          | 3/20/1990        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333503">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380132115333503</a> |
| 172       | U-1389     | 172 N02 E58 03AA 1 USGS-MX                   | 38.07    | -115.43   | 5200     | 20                     |                      | 200                 | 200                 | 0                        | 10/1/1980          | 3/23/1994        | 13                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380348115265001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380348115265001</a> |
| 171       | U-1359     | 171 S02 E58 11A 2 USBLM                      | 37.78    | -115.42   | 5700     | 100                    |                      | 188                 |                     | 0                        | 5/8/1963           | 3/11/1985        | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374716115253801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374716115253801</a> |
| 171       | U-1373     | 171 N01 E58 24 1 Baseline Canyon Federal 2   | 37.92    | -115.35   | 4932     | 20                     | 19951101             | 1560                | 1880                | 0                        | 10/31/1996         | 9/16/2004        | 20                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375547115244201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375547115244201</a> |
| 171       | U-1386     | 171 S02 E58 11A 1 USBLM                      | 37.79    | -115.42   | 5200     | 1                      |                      | 188                 |                     | 0                        | 5/8/1963           | 5/8/1963         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380301115252901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380301115252901</a> |
| 171       | U-1395     | 171 N03 E59 27AD 2 USGS-MX                   | 38.09    | -115.33   | 5010     | 20                     | 19930827             | 0                   | 334                 | 0                        | 8/29/1993          | 9/21/1994        | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380538115195102">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380538115195102</a> |
| 171       | U-1405     | 171 N03 E59 12AA 1 USGS-MX                   | 38.13    | -115.29   | 5080     | 100                    |                      | 200                 | 200                 | 0                        | 11/1/1980          | 11/1/1980        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380823115173901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380823115173901</a> |
| 171       | U-1406     | 171 N03 E59 12AA 2 USGS-MX                   | 38.13    | -115.29   | 5087     | 20                     | 19930826             | 354                 | 354                 | 0                        | 8/27/1993          | 9/21/1994        | 5                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380823115173902">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380823115173902</a> |
| 170       | U-1375     | 170 S01 E56 18DD 1 USGS-MX                   | 37.94    | -115.71   | 4900     | 100                    |                      | 200                 | 200                 | 0                        | 12/1/1980          | 12/1/1980        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375633115425201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375633115425201</a> |
| 156       | U-588      | 156 N03 E50 13CA 1 USGS-MX (Revielle Valley) | 38.11    | -116.33   | 5350     | 10                     | 19810213             | 682                 | 710                 | 0                        | 2/13/1981          | 9/14/2004        | 47                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200901</a> |
| 156       | U-589      | 156 N03 E50 13CA 2 USGS-MX                   | 38.11    | -116.33   | 5350     | 10                     | 19810207             | 703                 | 710                 | 0                        | 2/7/1981           | 3/5/1992         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200902">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200902</a> |
| 156       | U-590      | 156 N03 E50 13CA 3 USGS-MX                   | 38.11    | -116.33   | 5350     | 10                     | 19810207             | 405                 | 710                 | 0                        | 2/7/1981           | 3/5/1992         | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200903">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=380652116200903</a> |
| 156       | U-598      | 156 N04 E51 29D 1                            | 38.17    | -116.25   | 5264     | 10                     | 19511006             | 137                 | 137                 | 0                        | 10/6/1951          | 10/6/1951        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381023116152901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381023116152901</a> |
| 156       | U-604      | 156 N04 E51 16CA 1 USGS-MX                   | 38.2     | -116.24   | 5200     | 80                     |                      | 200                 |                     | 0                        | 9/1/1980           | 9/20/1994        | 10                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381216116142401">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=381216116142401</a> |
| 156       | U-1718     | 156 N04 E51 13DA 2                           | 38.2     | -116.17   |          |                        |                      |                     |                     | 3                        |                    |                  | 0                       |   |
| 156       | U-1719     | 156 N04 E51 13DA 3                           | 38.2     | -116.17   |          |                        |                      |                     |                     | 2                        |                    |                  | 0                       |   |
| 149       | U-568      | 149 S01 E46 01BA 1 USAF TTR 1A WW            | 37.88    | -116.77   | 5353     | 10                     | 19800122             | 405                 | 405                 | 0                        | 11/27/1990         | 11/27/1990       | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375303116463101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375303116463101</a> |
| 149       | U-569      | 149 S01 E46 02A 1 TTR EH-7                   | 37.88    | -116.79   | 5343     | 10                     | 19831117             | 715                 | 715                 | 0                        | 11/20/1983         | 11/19/1992       | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375310116472301">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375310116472301</a> |
| 149       | U-570      | 149 S01 E46 02A 2 TTR EH-7 WW                | 37.88    | -116.79   | 5343     | 10                     | 19890828             | 660                 | 660                 | 0                        | 9/1/1989           | 6/16/2004        | 28                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375310116472302">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375310116472302</a> |
| 149       | U-572      | 149 N01 E46 25CABA1 TTR Sandia 3             | 37.9     | -116.77   | 5365.9   | 0.5                    | 19590520             | 250                 | 250                 | 0                        | 6/10/1959          | 11/9/1999        | 15                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375429116463201">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375429116463201</a> |
| 149       | U-573      | 149 N01 E47 30 1 TTR Reeds Ranch Well        | 37.91    | -116.75   | 5384     | 10                     |                      | 127                 |                     | 0                        | 4/19/1990          | 6/16/2004        | 26                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375453116450501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=375453116450501</a> |
| 149       | U-1682     | 149 N01 E47 30ABB 1                          | 37.91    | -116.75   |          |                        |                      |                     |                     | 2                        |                    |                  | 0                       |   |
| 149       | U-1696     | 149 N01 E47 02BAB 1                          | 37.97    | -116.68   |          |                        |                      |                     |                     | 2                        |                    |                  | 0                       |   |
| 146       | U-291      | 146 S09 E46 35A 1 BLM Springdale             | 37.11    | -116.79   | 4035     | 10                     |                      | 117                 |                     | 0                        | 1/1/1952           | 9/29/2004        | 36                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370648116473001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370648116473001</a> |
| 146       | U-296      | 146 S09 E46 28BBCB1 NDOT TPJ-2               | 37.13    | -116.84   | 4005     | 5                      |                      |                     |                     | 0                        | 3/11/1985          | 9/29/2004        | 33                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370753116502701">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370753116502701</a> |
| 146       | U-302      | 146 S09 E46 20BADA1 USBLM TPJ-1              | 37.14    | -116.85   | 3991     | 2                      |                      | 107                 |                     | 0                        | 1/1/1952           | 9/29/2004        | 43                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370840116510101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370840116510101</a> |
| 146       | U-318      | 146 S09 E46 18 1 USAF - Tolicha Pk Hand Dug  | 37.15    | -116.86   | 4009     |                        |                      | 50                  |                     | 0                        | 4/26/1990          | 2/24/1997        | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370937116514001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=370937116514001</a> |

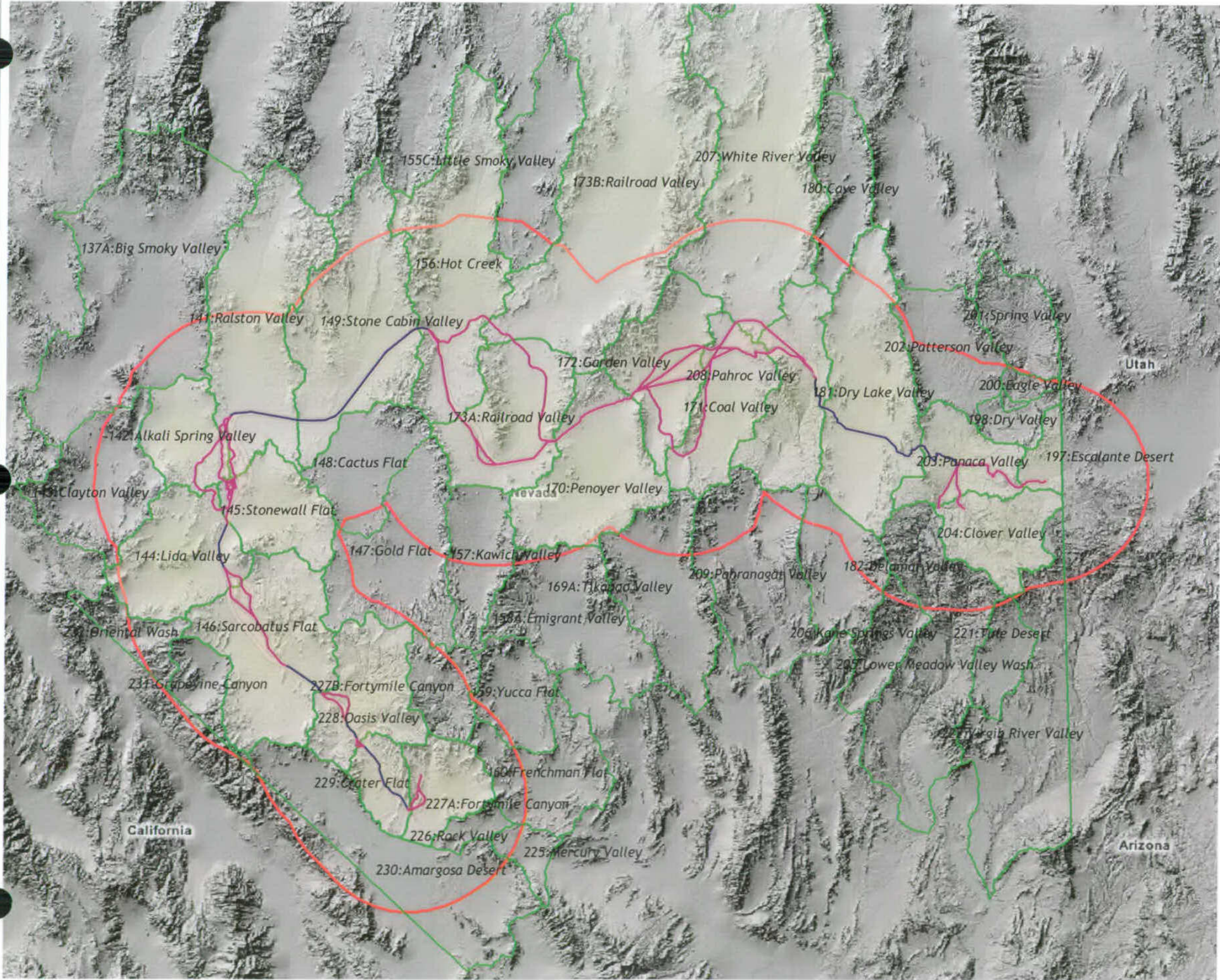
**USGS-NWIS Wells Within 1-Mile of CRC**

| Basin No. | Project ID | Site_Name                           | Latitude | Longitude | Altitude | Altitude Accuracy (ft) | Date of Construction | Well Depth (ft. bgs) | Hole Depth (ft. bgs) | Water Quality Data Count | Ground-water Begin | Ground-water End | Ground-water Data Count | Site Link (Water Level / Water Quality)   |
|-----------|------------|-------------------------------------|----------|-----------|----------|------------------------|----------------------|----------------------|----------------------|--------------------------|--------------------|------------------|-------------------------|---|
| 146       | U-403      | 146 S08 E44 12CD 1                  | 37.24    | -116.99   | 3985     | 1                      |                      | 250                  |                      | 0                        | 9/17/1959          | 2/8/1962         | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371450116594901">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371450116594901</a> |
| 146       | U-415      | 146 S08 E44 12 2                    | 37.25    | -116.99   | 4000     | 10                     | 19620117             | 125                  | 125                  | 0                        | 2/8/1962           | 3/12/1985        | 3                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371505116594101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371505116594101</a> |
| 146       | U-420      | 146 S08 E44 12 1                    | 37.25    | -116.99   | 4000     | 10                     |                      |                      |                      | 0                        | 3/12/1985          | 3/12/1985        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371517116594001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371517116594001</a> |
| 146       | U-456      | 146 S08 E44 02 2                    | 37.27    | -117.01   | 4008     | 5                      | 19680306             | 203                  | 203                  | 0                        | 3/15/1968          | 3/12/1985        | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371646117010101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371646117010101</a> |
| 146       | U-495      | 146 S07 E44 21 1                    | 37.31    | -117.05   | 4105     | 5                      |                      | 375                  |                      | 0                        | 10/26/1961         | 3/12/1985        | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371855117030001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=371855117030001</a> |
| 144       | U-518      | 144 S04 E43 33AAA 2 Ralston Well    | 37.55    | -117.15   | 4756     | 5                      |                      | 409                  |                      | 0                        | 4/20/1990          | 6/17/2004        | 29                      | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373320117090601">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373320117090601</a> |
| 144       | U-519      | 144 S05 E43 03 1                    | 37.53    | -117.14   | 4745     | 20                     | 19760724             | 102                  | 102                  | 0                        | 7/24/1976          | 7/24/1976        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373323117090801">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373323117090801</a> |
| 144       | U-520      | 144 S04 E43 33A 1 Ralston           | 37.55    | -117.15   | 4780     | 1                      |                      |                      |                      | 0                        | 1/18/1967          | 1/18/1967        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373338117085001">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=373338117085001</a> |
| 142       | U-527      | 142 S03 E42 11B 1 City of Goldfield | 37.69    | -117.23   | 5800     | 1                      |                      | 440                  |                      | 0                        | 3/6/1965           | 1/18/1967        | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374209117135101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374209117135101</a> |
| 142       | U-528      | 142 S03 E42 10A 1 City of Goldfield | 37.69    | -117.24   | 5900     | 1                      |                      | 440                  |                      | 0                        | 3/6/1965           | 1/18/1967        | 2                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374209117141501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374209117141501</a> |
| 142       | U-530      | 142 S03 E42 02C 1 City of Goldfield | 37.7     | -117.23   | 5710     | 1                      |                      | 45                   |                      | 0                        | 1/18/1967          | 1/18/1967        | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374243117135101">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374243117135101</a> |
| 142       | U-533      | 142 S02 E42 26CAA 1                 | 37.73    | -117.23   | 5540     | 5                      |                      | 0                    |                      | 0                        | 4/2/1984           | 4/2/1984         | 1                       | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374401117140501">http://nwis.waterdata.usgs.gov/nv/nwis/gwlevels?site_no=374401117140501</a> |







**USGS-NWIS Surface Water Sites Within 1-Mile of CRC**

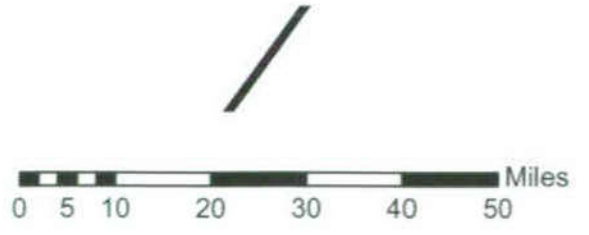
| Project ID | Basin No. | Site_Name                                   | Latitude | Longitude | Altitude | Altitude Accuracy | Water Quality Begin | Water Quality End | Water Quality Data Count | Daily Flow Data Count | Site Data (Flow / Water Quality)  |
|------------|-----------|---|----------|-----------|----------|-------------------|---------------------|-------------------|--------------------------|-----------------------|---|
| STR-1799   | 156       | 156 N03 E50 13BCC 1 Stream-Reveille V Ertec | 38.10    | -116.33   | 5482     |                   | 3/30/81             | 4/4/81            | 2                        | 0                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380630116201901">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=380630116201901</a> |
| SPR-1811   | 156       | 156 N04 E51 13DA 1 Spring                   | 38.20    | -116.17   |          |                   | 5/11/67             | 8/2/67            | 4                        | 0                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/qwdata?site_no=381215116103500">http://nwis.waterdata.usgs.gov/nv/nwis/qwdata?site_no=381215116103500</a>       |
| SPR-2049   | 181       | 181 N01 E63 28CC 1 Black Rock Spring        | 37.91    | -114.91   | 5520     | 20                | 3/22/88             | 3/22/88           | 1                        | 0                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/qwdata?site_no=375443114550501">http://nwis.waterdata.usgs.gov/nv/nwis/qwdata?site_no=375443114550501</a>       |
| SPR-2074   | 204       | 204 S04 E67 08A 1 Caliente Mineral Hot Spr  | 37.61    | -114.51   | 4400     |                   | 2/4/74              | 2/4/74            | 1                        | 0                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/qwdata?site_no=373647114304201">http://nwis.waterdata.usgs.gov/nv/nwis/qwdata?site_no=373647114304201</a>       |
| SPR-2082   | 204       | 204 S04 E67 08B 2 Spring                    | 37.62    | -114.51   | 4430     |                   | 4/10/85             | 4/10/85           | 1                        | 0                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/qwdata?site_no=373716114303401">http://nwis.waterdata.usgs.gov/nv/nwis/qwdata?site_no=373716114303401</a>       |
| SPR-2086   | 203       | 203 S02 E67 07CD 1 Spring                   | 37.78    | -114.52   | 5275     |                   | 4/10/85             | 4/10/85           | 2                        | 0                     | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/qwdata?site_no=374703114314101">http://nwis.waterdata.usgs.gov/nv/nwis/qwdata?site_no=374703114314101</a>       |
| STR-2146   | 156       | Hot Creek near Warm Springs, NV             | 38.19    | -116.17   |          |                   |                     |                   | 0                        | 1928                  | <a href="http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10247050">http://nwis.waterdata.usgs.gov/nv/nwis/discharge?site_no=10247050</a>               |



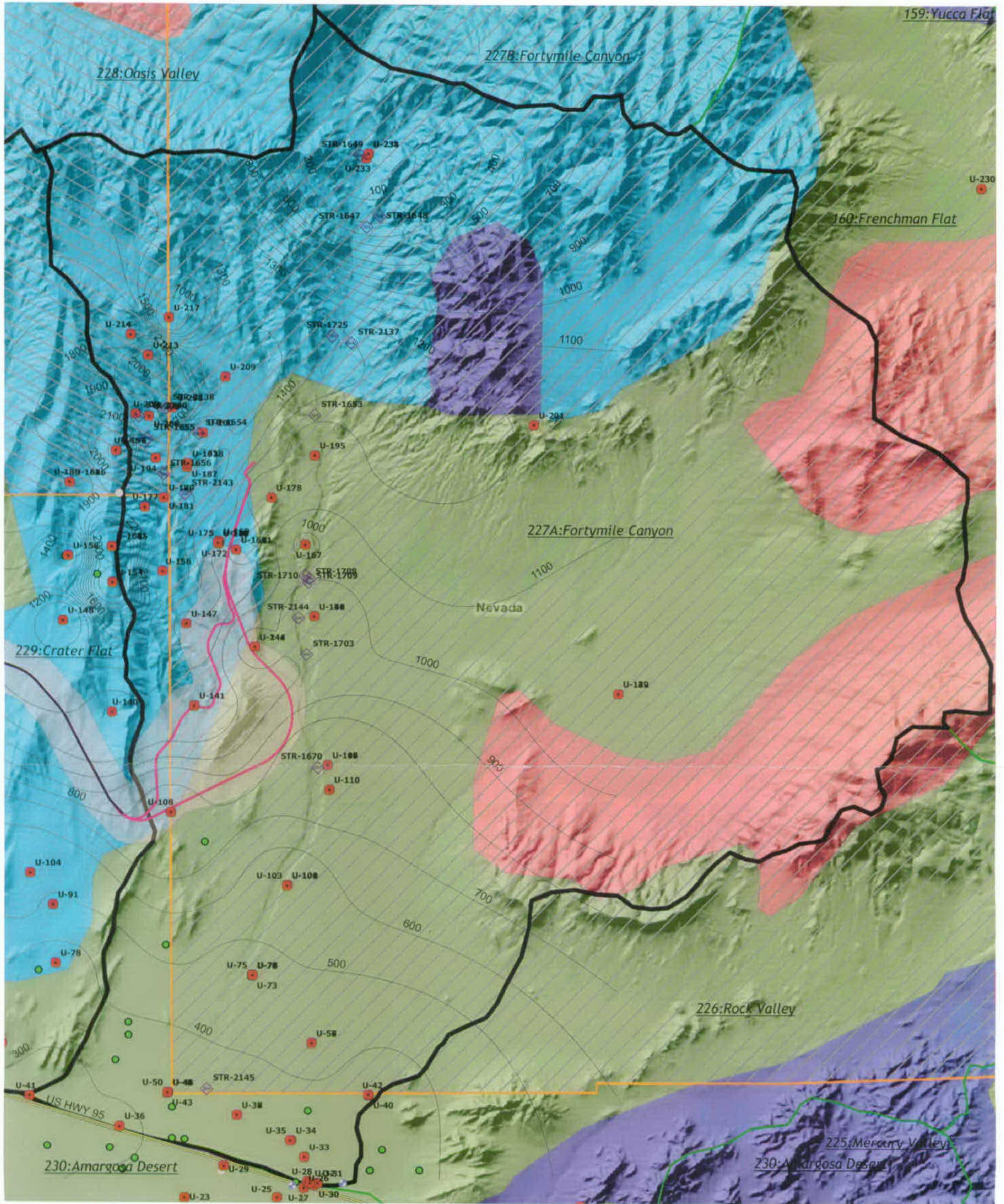


**Legend**

-  Study Corridor Basins
-  CRC Basins
-  40-Mile Study Corridor Boundary
-  . . . . .
-  Alternative Alignments
-  Common Segments







**Legend**

**USGS Data**

- ▲ Unknown
- Spings
- ◇ Streams
- Wells

**NDWR Well Data**

- Wells with Matched Water Rights
- Wells without Matched Water Rights
- Wells Non-Permitted

**CRC Alignment**

- Alternative Alignments
- Common Segments

**Aquifers**

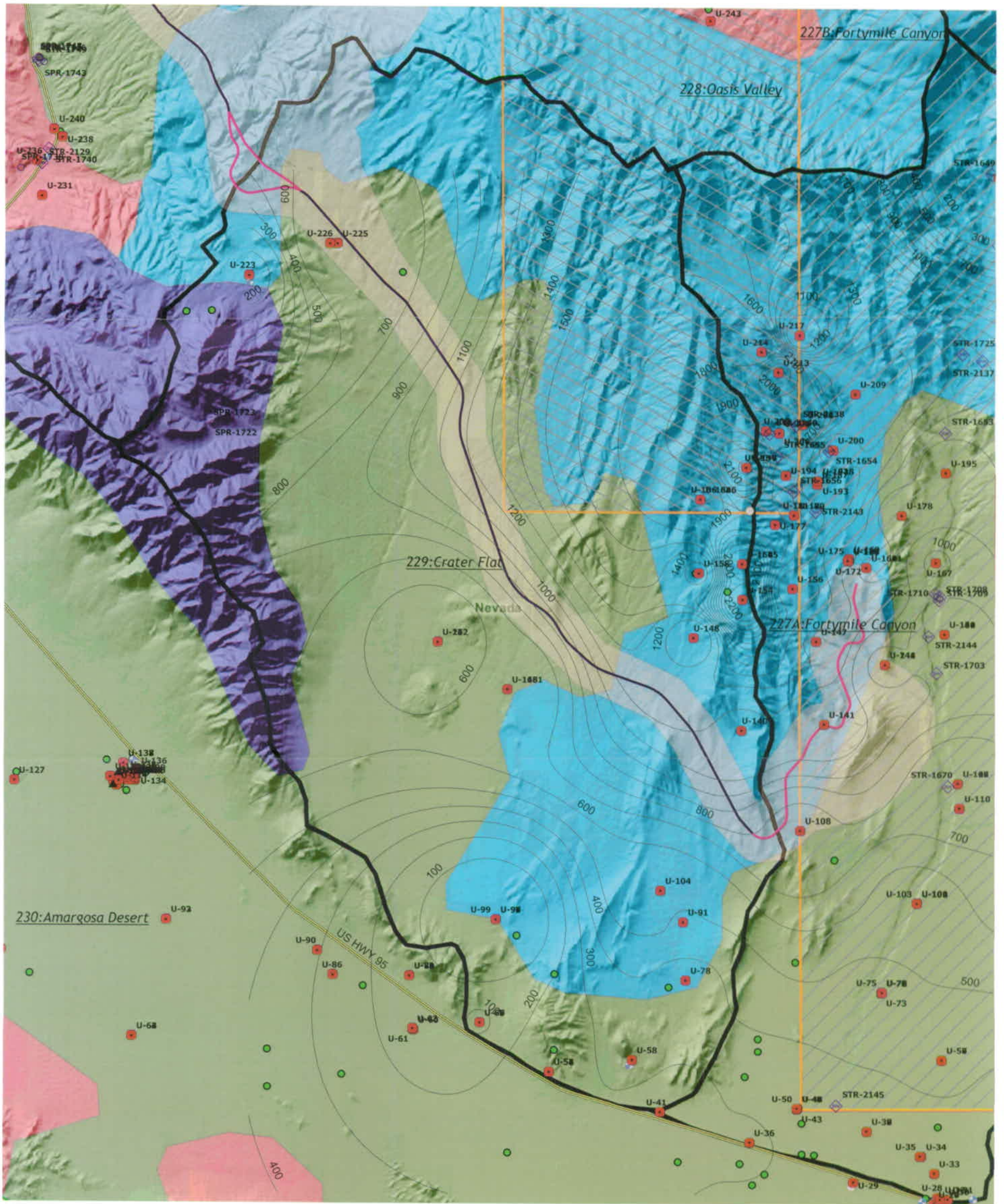
- Basin and Range basin-fill aquifers
- Basin and Range carbonate-rock aquifers
- Other rocks
- Southern Nevada volcanic-rock aquifers

- ▭ Nevada Test & Training Range (NTR)
- ▭ Nevada Test Site (NTS)

- Approximate Depth to Groundwater (ft-bgs)
- Approximate Equipotential Surface, Basin 203 (ft-AMSL)







**Legend**

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- Wells

**NDWR Well Data**

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**CRC Alignment**

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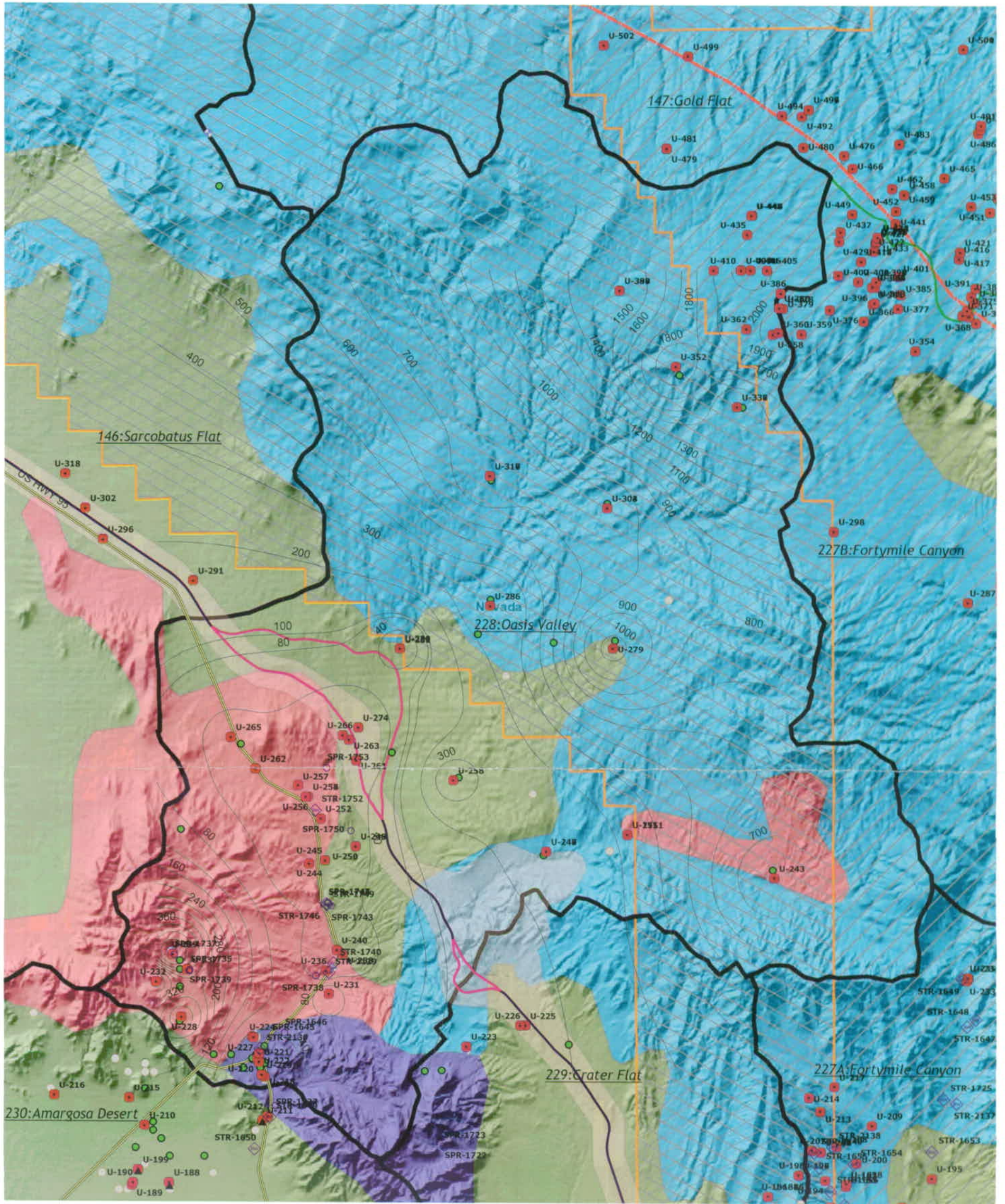
**Aquifers**

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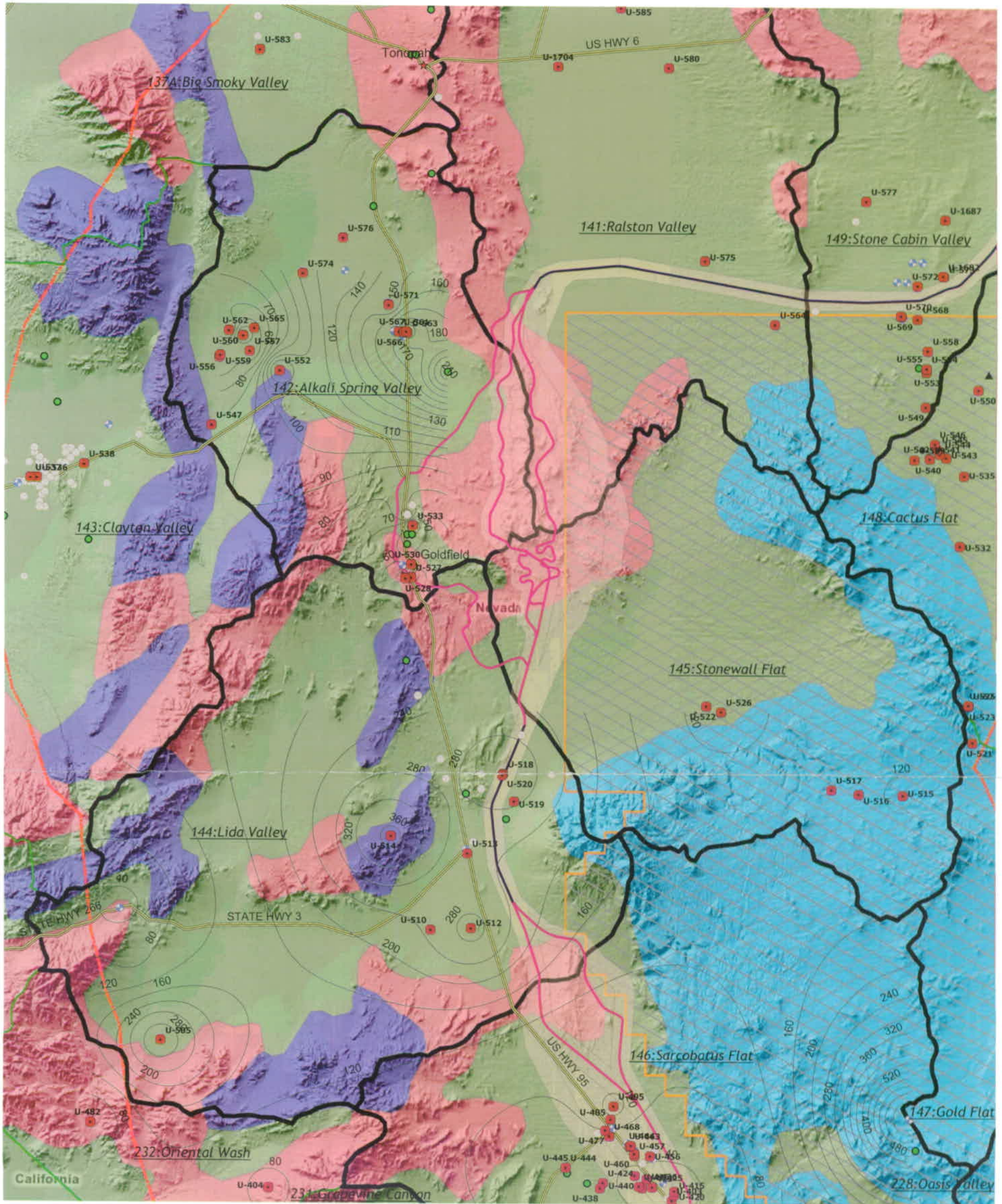
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**Aquifers**

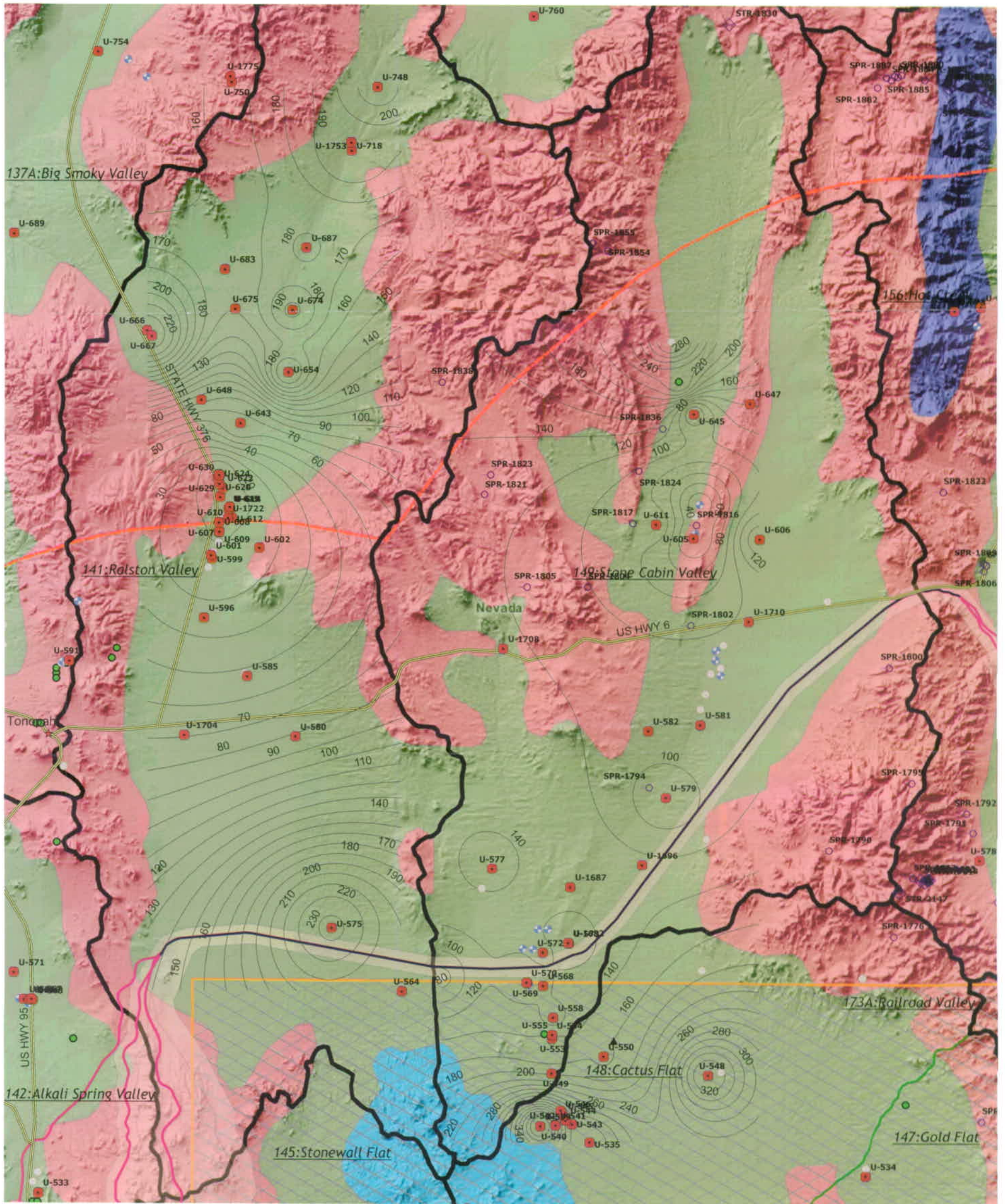
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**Legend**

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- Wells

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**CRC Alignment**

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- Common Segments

**Aquifers**

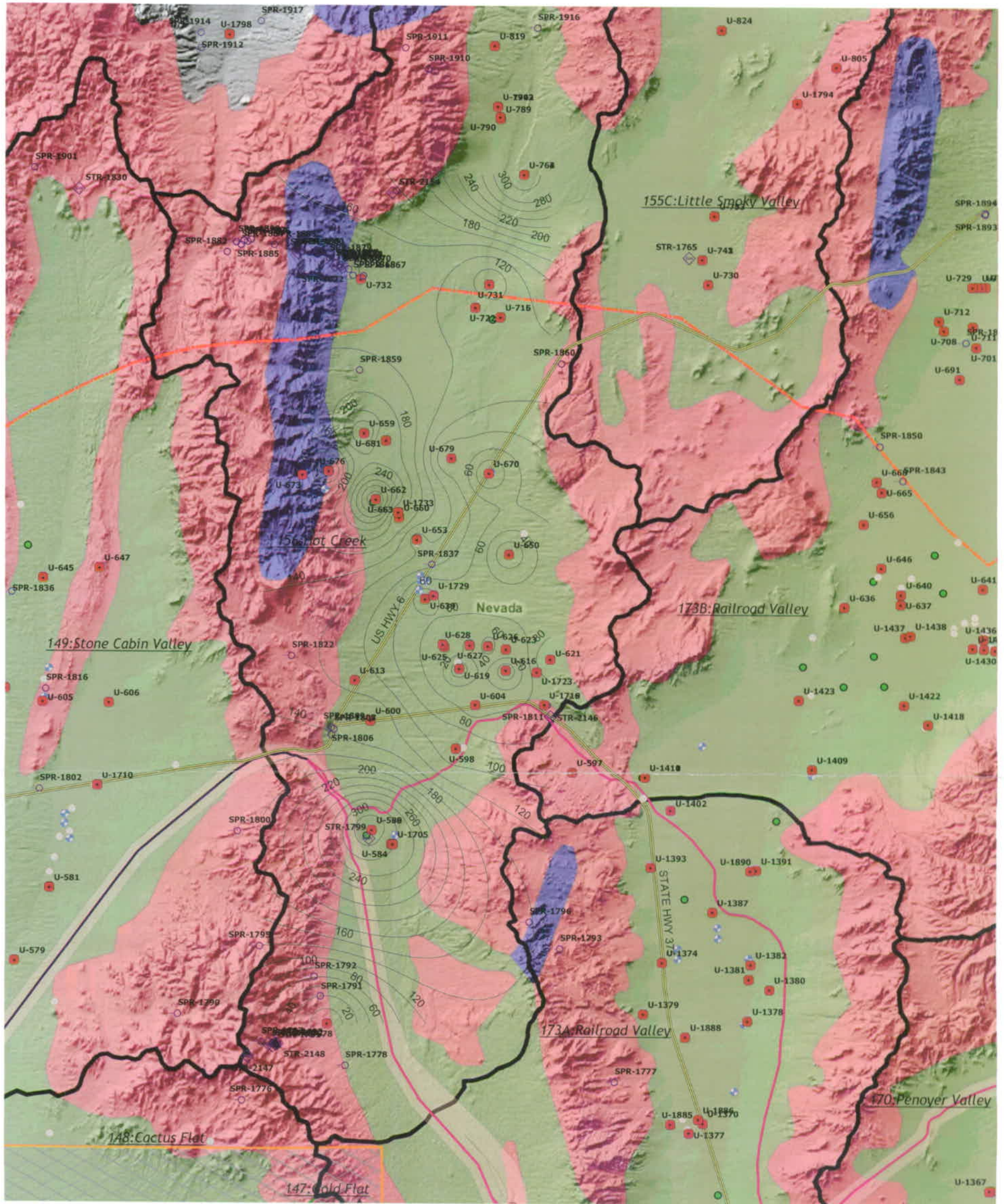
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**CRC Alignment**

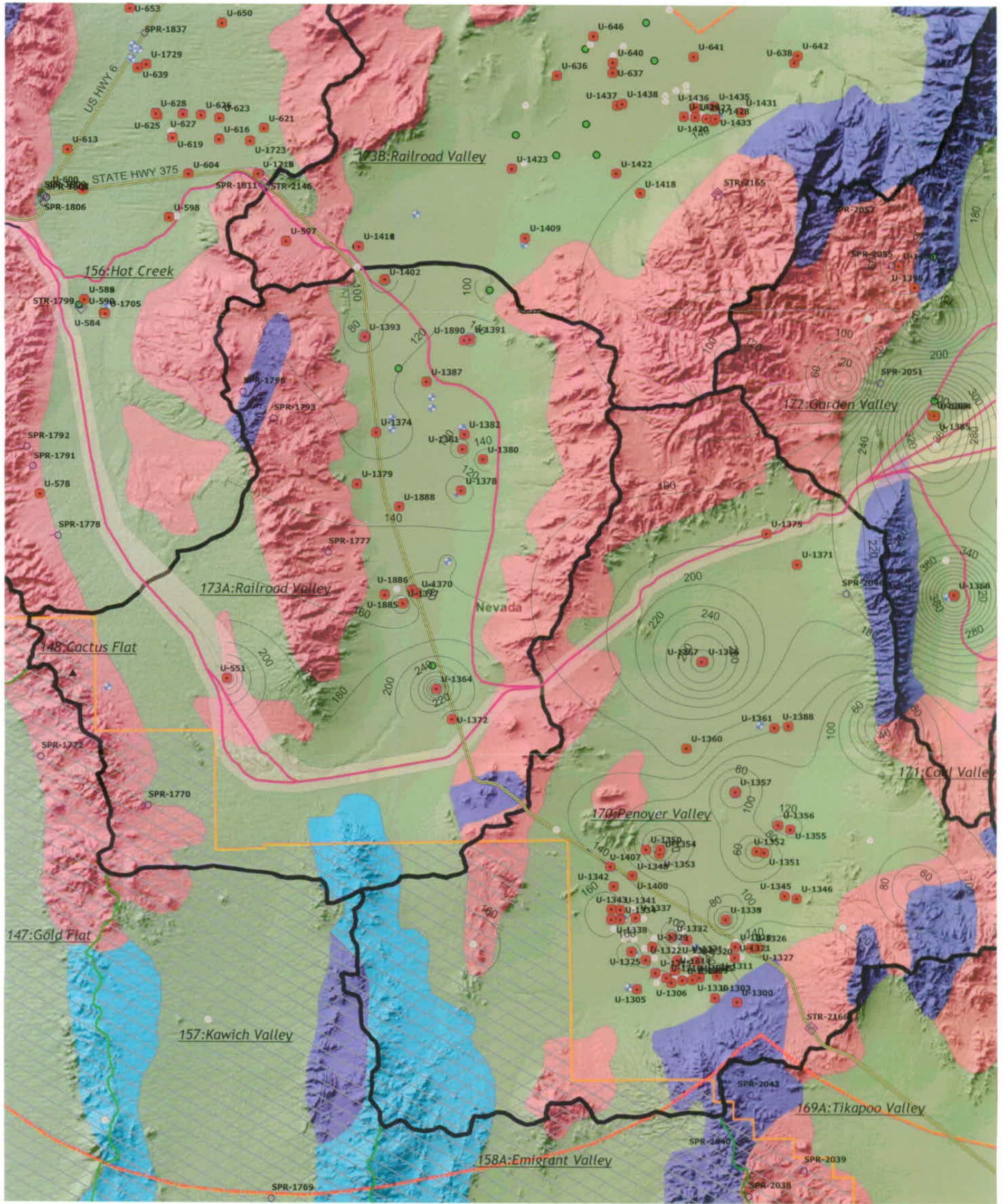
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- Wells without Matched Water Rights
- Wells Non-Permitted

**CRC Alignment**

- Alternative Alignments
- Common Segments

**Aquifers**

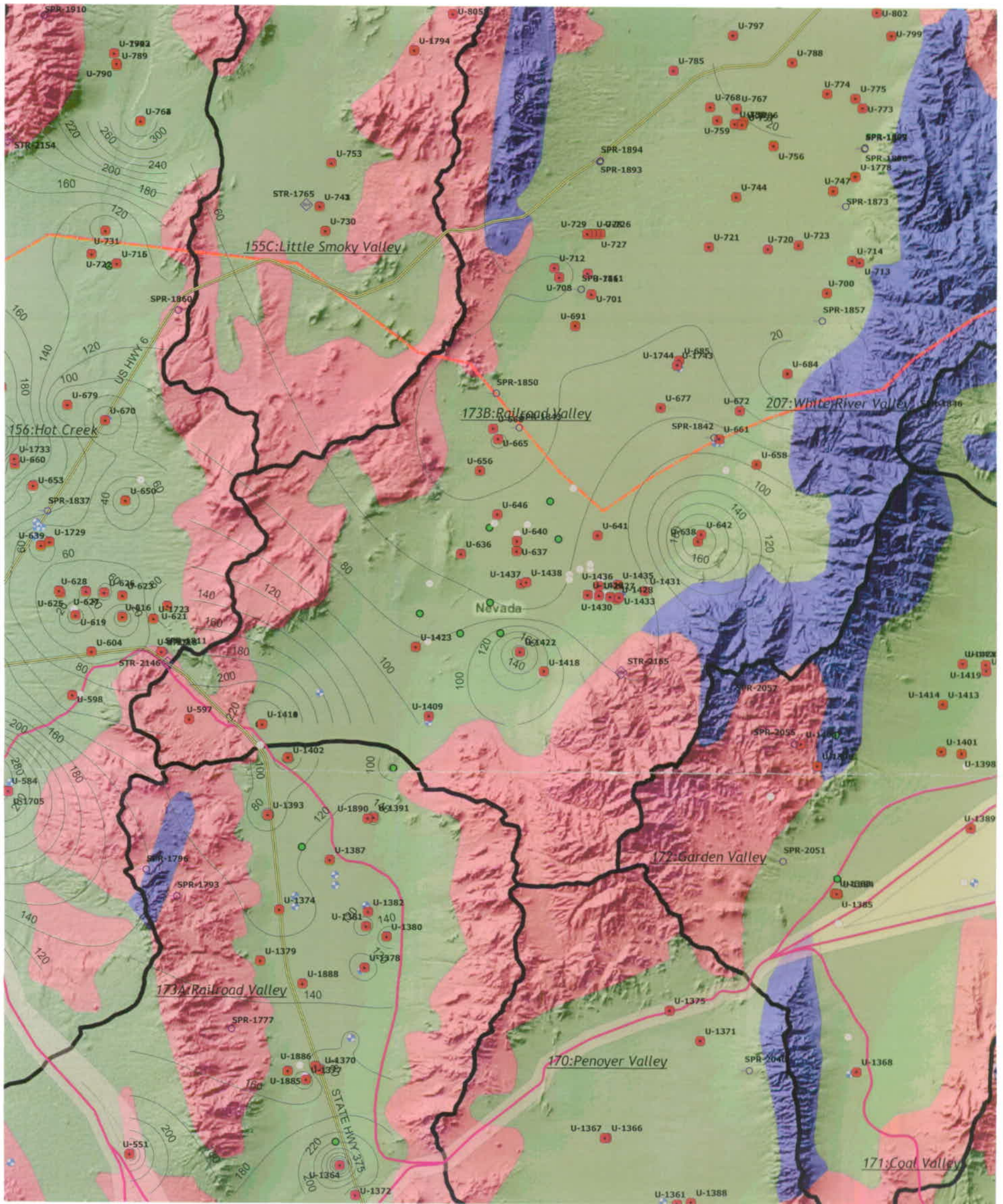
- Basin and Range basin-fill aquifers
- Basin and Range carbonate-rock aquifers
- Other rocks
- Southern Nevada volcanic-rock aquifers

- ▭ Nevada Test & Training Range (NTTR)
- ▭ Nevada Test Site (NTS)

- Approximate Depth to Groundwater (ft-bgs)
- Approximate Equipotential Surface, Basin 203 (ft-AMSL)







**Legend**

**USGS Data**

- ▲ Unknown
- Spings
- ◇ Streams
- Wells

**NDWR Well Data**

- Wells with Matched Water Rights
- Wells without Matched Water Rights
- Wells Non-Permitted

**CRC Alignment**

- Alternative Alignments
- Common Segments

**Aquifers**

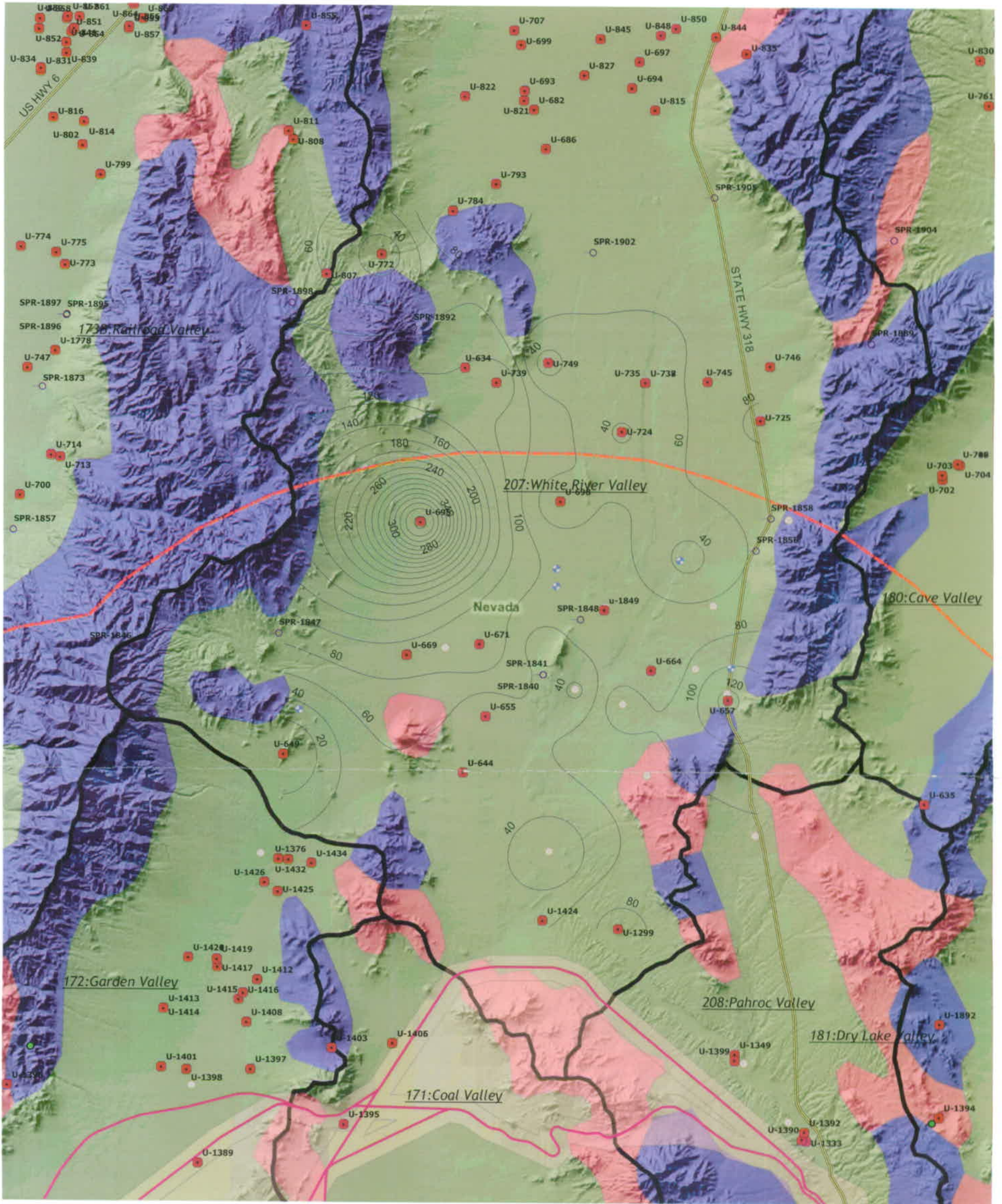
- Basin and Range basin-fill aquifers
- Basin and Range carbonate-rock aquifers
- Other rocks
- Southern Nevada volcanic-rock aquifers
- ▭ Nevada Test & Training Range (NTTR)
- ▭ Nevada Test Site (NTS)

- Approximate Depth to Groundwater (ft-bgs)
- Approximate Equipotential Surface, Basin 203 (ft-AMSL)









**Legend**

**USGS Data**

- ▲ Unknown
- Spings
- ◇ Streams
- Wells

**NDWR Well Data**

- Wells with Matched Water Rights
- Wells without Matched Water Rights
- Wells Non-Permitted

**CRC Alignment**

- Alternative Alignments
- Common Segments

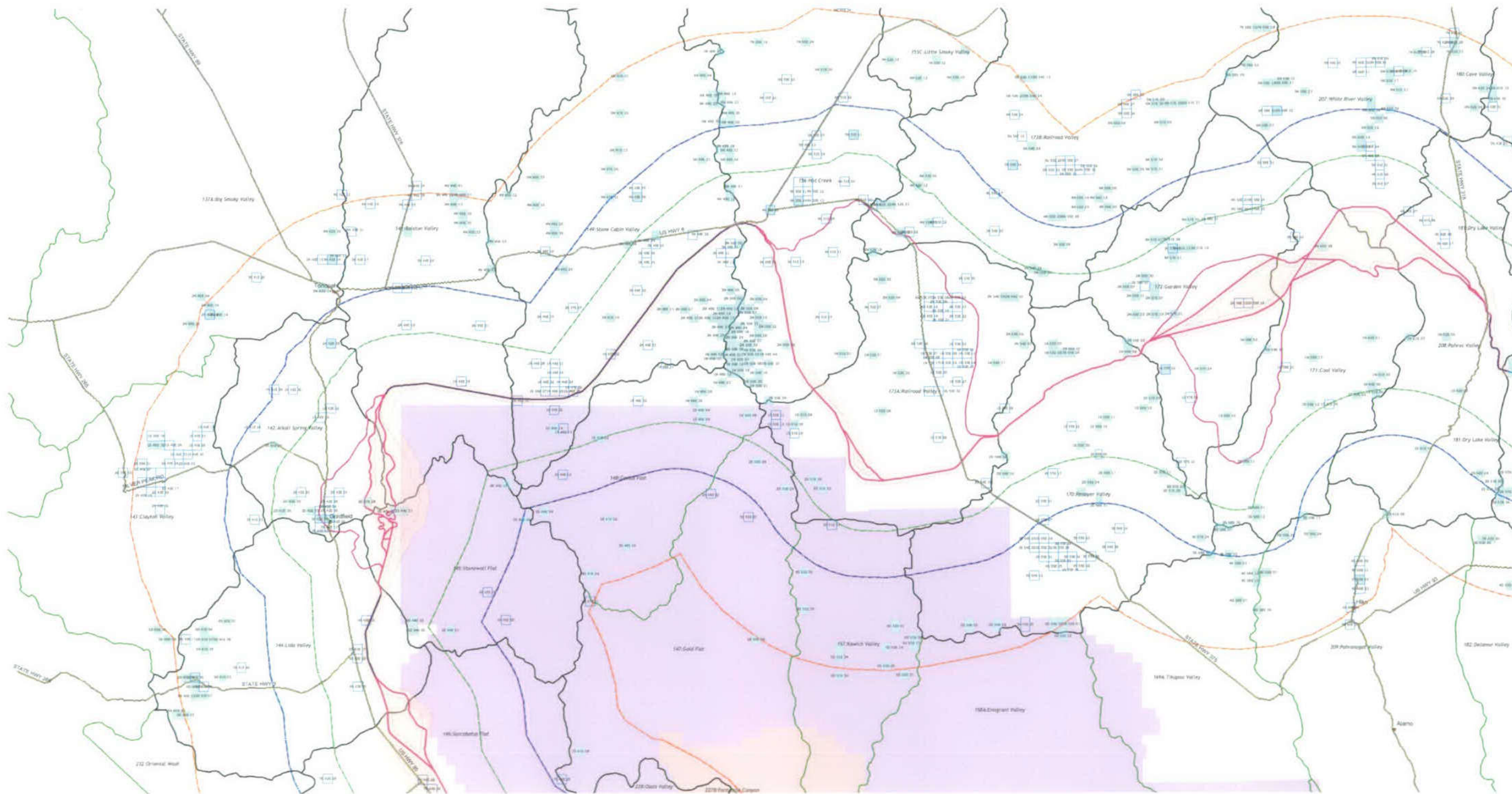
**Aquifers**

- Basin and Range basin-fill aquifers
- Basin and Range carbonate-rock aquifers
- Other rocks
- Southern Nevada volcanic-rock aquifers
- ▨ Nevada Test & Training Range (NTTR)
- ▨ Nevada Test Site (NTS)

- Approximate Depth to Groundwater (ft-bgs)
- Approximate Equipotential Surface, Basin 203 (ft-AMSL)







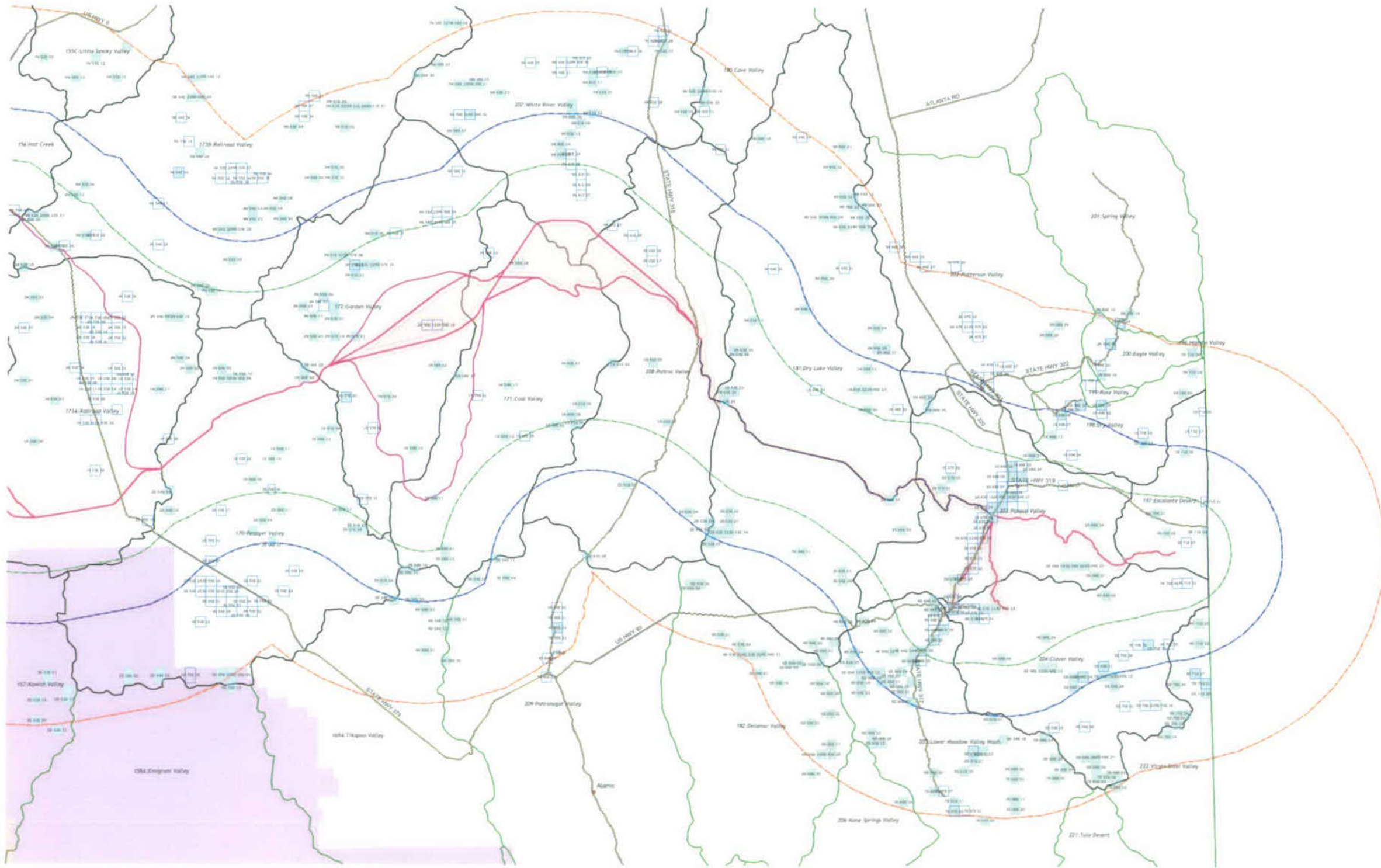
0 5 10 20 30 40 Miles

**Legend**

|   |   |
|---|---|
| <span style="border: 1px solid black; display: inline-block; width: 15px; height: 10px; vertical-align: middle;"></span> Sections with Water Rights - Underground | <span style="border: 2px solid orange; display: inline-block; width: 20px; height: 2px; vertical-align: middle;"></span> 40-Mile Study Corridor Boundary          |
| <span style="background-color: lightblue; display: inline-block; width: 15px; height: 10px; vertical-align: middle;"></span> Sections with Water Rights - Surface | <span style="border: 2px solid blue; display: inline-block; width: 20px; height: 2px; vertical-align: middle;"></span> 10-Mile Buffer                             |
| <span style="border-bottom: 2px dashed black; display: inline-block; width: 20px; vertical-align: middle;"></span>  | <span style="border: 2px solid green; display: inline-block; width: 20px; height: 2px; vertical-align: middle;"></span> 5-Mile Buffer                             |
| <span style="border-bottom: 2px solid red; display: inline-block; width: 20px; vertical-align: middle;"></span> Alternative Alignments                            | <span style="background-color: lightpurple; display: inline-block; width: 15px; height: 10px; vertical-align: middle;"></span> Nevada Test & Training Range (NTR) |
| <span style="border-bottom: 2px solid black; display: inline-block; width: 20px; vertical-align: middle;"></span> Common Segments                                 | <span style="background-color: lightorange; display: inline-block; width: 15px; height: 10px; vertical-align: middle;"></span> Nevada Test Site (NTS)             |
| <span style="border-bottom: 2px solid black; display: inline-block; width: 20px; vertical-align: middle;"></span> Township Range & Section (TRS)                  |   |

Plate 4-17: Water Rights Locations (North)







0    5    10    20    30    40



Miles

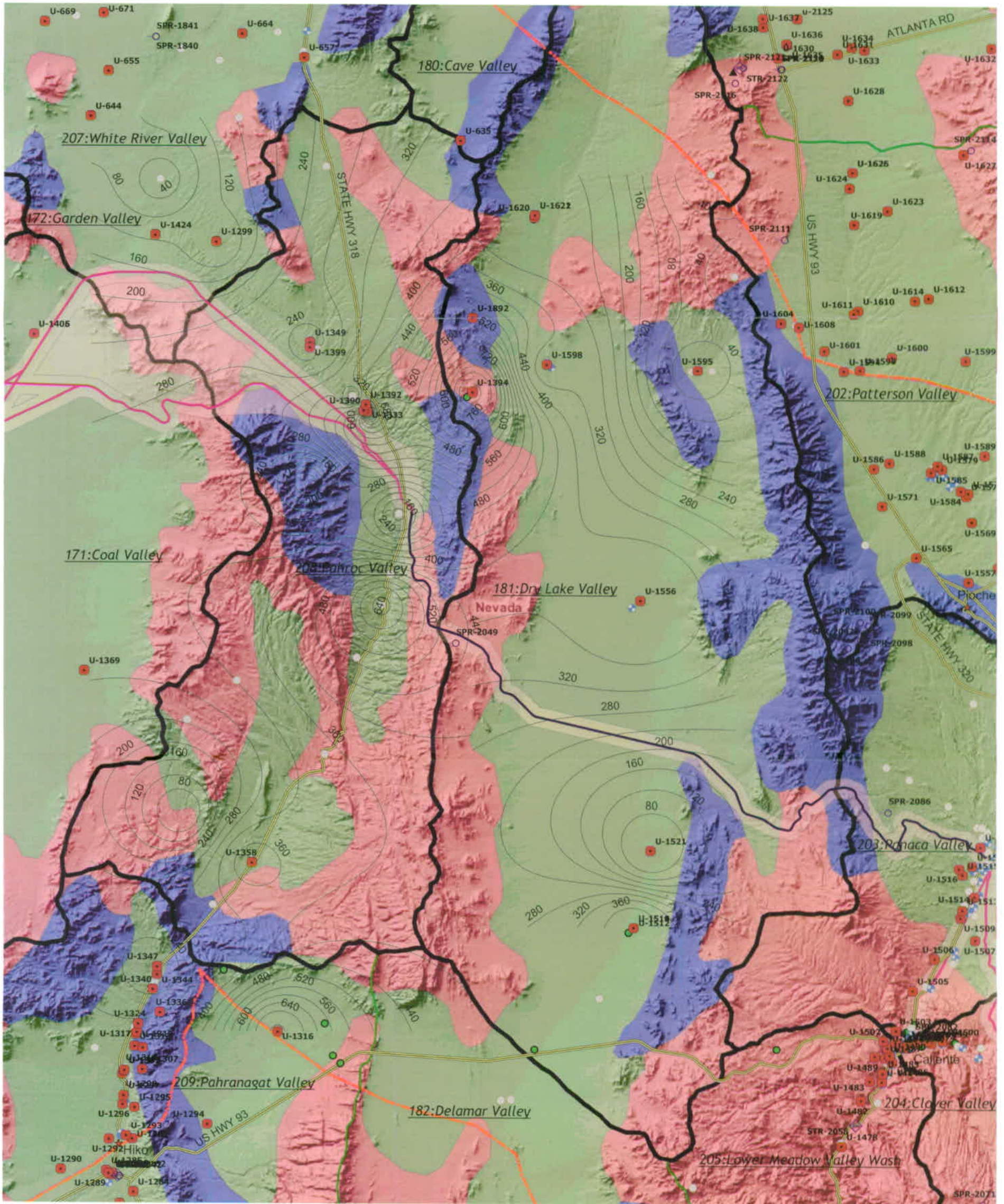
**Legend**

|   |   |
|---|---|
| <span style="border: 1px solid lightblue; display: inline-block; width: 15px; height: 10px;"></span> Sections with Water Rights - Underground | <span style="border: 1px solid orange; display: inline-block; width: 15px; height: 10px;"></span> 40-Mile Study Corridor Boundary     |
| <span style="background-color: lightblue; display: inline-block; width: 15px; height: 10px;"></span> Sections with Water Rights - Surface     | <span style="border: 1px solid blue; display: inline-block; width: 15px; height: 10px;"></span> 10-Mile Buffer                        |
| <span style="border-bottom: 1px dashed black; display: inline-block; width: 15px;"></span>  | <span style="border: 1px solid green; display: inline-block; width: 15px; height: 10px;"></span> 5-Mile Buffer                        |
| <span style="border-bottom: 1px solid red; display: inline-block; width: 15px;"></span> Alternative Alignments                                | <span style="background-color: purple; display: inline-block; width: 15px; height: 10px;"></span> Nevada Test & Training Range (NTRR) |
| <span style="border-bottom: 1px solid black; display: inline-block; width: 15px;"></span> Common Segments                                     | <span style="background-color: pink; display: inline-block; width: 15px; height: 10px;"></span> Nevada Test Site (NTS)                |

**35 68E 09** Township Range & Section (TRS)

Plate 4-18: Water Rights Locations (East)





**Legend**

**USGS Data**

- ▲ Unknown
- Spings
- ◇ Streams
- Wells

**NDWR Well Data**

- Wells with Matched Water Rights
- Wells without Matched Water Rights
- Wells Non-Permitted

**CRC Alignment**

- Alternative Alignments
- Common Segments

**Aquifers**

- Basin and Range basin-fill aquifers
- Basin and Range carbonate-rock aquifers
- Other rocks
- Southern Nevada volcanic-rock aquifers
- ▨ Nevada Test & Training Range (NTTR)
- ▨ Nevada Test Site (NTS)

- Approximate Depth to Groundwater (ft-bgs)
- Approximate Equipotential Surface, Basin 203 (ft-AMSL)















**Legend**

**USGS Data**

- ▲ Unknown
- Spings
- ◇ Streams
- Wells

**NDWR Well Data**

- Wells with Matched Water Rights
- Wells without Matched Water Rights
- Wells Non-Permitted

**CRC Alignment**

- Alternative Alignments
- Common Segments

**Aquifers**

- Basin and Range basin-fill aquifers
- Basin and Range carbonate-rock aquifers
- Other rocks
- Southern Nevada volcanic-rock aquifers
- ▨ Nevada Test & Training Range (NTTR)
- ▨ Nevada Test Site (NTS)
- Approximate Depth to Groundwater (ft-bgs)
- Approximate Equipotential Surface, Basin 203 (ft-AMSL)









- Legend**
- Sections with Water Rights - Underground
  - Sections with Water Rights - Surface
  - Alternative Alignments
  - Common Segments
  - 40-Mile Study Corridor Boundary
  - 10-Mile Buffer
  - 5-Mile Buffer
  - Nevada Test & Training Range (NTR)
  - Nevada Test Site (NTS)
  - 35 686 09 Township Range & Section (TRS)

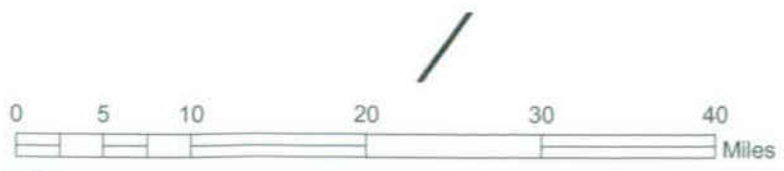


Plate 4-16: Water Rights Locations (West)