

APPENDIX 1: DETAILED ISOTOPIC MASS BALANCE SHOWING ALL THE SITES USED IN THE MODEL MASS-BALANCE CALCULATIONS.

| Section | Name | Volume Acre- ft/yr | # of Samples | Site # | Site Type | Obs. δD | Obs. $\delta^{18}O$ | Calc. δD | Calc. $\delta^{18}O$ |
|---------------------------------|---------------------------|--------------------------|--------------------|-----------|--------------|--------------------|------------------------|---------------------|-------------------------|
| White River Flow System | | | | | | | | | |
| 175 | Long Valley | | | | | | | | |
| 175 NE | Butte Mtn. (N) | 4,500 | | | | -127.4 | -16.6 | | |
| 175 NW | Maverick Springs | 14,000 | | | | -128.3 | -16.7 | | |
| 175 SE | Butte Mtn. (S) | 7,800 | | | | -126.0 | -16.4 | | |
| 175 SW | Alligator Rdg. | 4,900 | | | | -127.4 | -16.6 | | |
| TR | Total Recharge | 31,000 | 4 | | | -127.4 | -16.6 | | |
| SE | Thirty Mile Spring | | 1 | 242 | Spring | -126.0 | -16.4 | | |
| NW | Well at Alligator Ridge | | 1 | 243 | Well | -127.0 | -16.6 | | |
| NW | Ram. Res. Wtr Supply Well | | 1 | 244 | Well | -129.5 | -16.8 | | |
| ET | ET | 11,000 | | | | | | -127.4 | -16.6 |
| OUT | GW Flow out of System | 8,000 | | | | | | -127.4 | -16.6 |
| 174 | GW Outflow (Jakes) | 12,000 | | | | | | -127.4 | -16.6 |
| Jakes Valley | | | | | | | | | |
| 174 | Jakes Valley | | | | | | | | |
| 175 | Inflow (Long) | 12,000 | | | | -127.4 | -16.6 | | |
| 174 E | HW Illipah Cr. | 8,400 | | | | -125.2 | -16.4 | | |
| 174 W | Egan Rng. @ Ruth | 15,800 | | | | -125.2 | -16.4 | | |
| TR | Total Recharge | 24,000 | 2 | | | -125.2 | -16.4 | | |
| W | Sand Spring | | 1 | 239 | Spring | -123.0 | -16.2 | | |
| W | WildHorse Spring | | 1 | 240 | Spring | -129.0 | -16.8 | | |
| W | Upper Illipah Crk | | 2 | 238 | Surface | -123.5 | -16.1 | | |
| ET | ET | 600 | | | | | | -125.9 | -16.4 |
| 207N | GW Outflow (NWRV) | 35,000 | | | | | | -125.9 | -16.4 |
| Cave Valley | | | | | | | | | |
| 180 | Cave Valley | | | | | | | | |
| 180 E | S. Schell Cr. Rng | 8,200 | | | | -99.8 | -13.5 | | |
| 180 W | S. Egan Rng | 11,400 | | | | -107.5 | -14.1 | | |
| TR | Total Recharge | 20,000 | 2 | | | -104.3 | -13.8 | | |
| E | Sidehill Spring | | 1 | 200 | Spring | -100.0 | -13.1 | | |
| E | Cave Spring | | 1 | 209 | Spring | -100.0 | -13.9 | | |
| E | Sheep Spring | | 1 | 212 | Spring | -99.5 | -13.7 | | |
| W | Chimney Rock Spring | | 1 | 219 | Spring | -109.0 | -14.3 | | |
| W | Big Spring (Egan Range) | | 1 | 206 | Spring | -106.0 | -13.9 | | |
| ET | ET | 5,000 | | | | | | -104.3 | -13.8 |
| 208 | GW Outflow (Pahroc) | 15,000 | | | | | | -104.3 | -13.8 |
| North White River Valley | | | | | | | | | |
| 207N | North White River Valley | | | | | | | | |
| 174 | Inflow (Jakes) | 35,000 | | | | -125.9 | -16.4 | | |
| 207 NE | Egan Rng North | 16,600 | | | | -112.1 | -14.9 | | |
| 207 NW | White Pine Rng. | 19,100 | | | | -110.2 | -14.4 | | |
| TR | Total Recharge | 36,000 | 2 | | | -111.1 | -14.6 | | |
| NE | Second Sawmill Spring | | 1 | 222 | Spring | -110.0 | -14.7 | | |

| Section | Name | Volume Acre- ft/yr | # of Samples | Site # | Site Type | Obs. δD | Obs. δ ¹⁸ O | Calc. δD | Calc. δ ¹⁸ O |
|----------------|-------------------------------|--------------------------|--------------------|-----------|--------------|------------|---------------------------|-------------|----------------------------|
| NE | Water Canyon | | 2 | 233 | Surface | -116.0 | -15.3 | | |
| NE | Lone Pine Spring | | 1 | 223 | Spring | -111.5 | -15.0 | | |
| NE | Gubler Canyon Creek Spring | | 1 | 235 | Spring | -111.0 | -14.9 | | |
| NE | South Spring | | 1 | 236 | Spring | -111.0 | -15.0 | | |
| NE | North Spring | | 1 | 237 | Spring | -113.0 | -15.0 | | |
| NW | Snowmelt Below Duckwater Peak | | 1 | 224 | Spring | -105.0 | -14.1 | | |
| NW | Spring below Currant Mtn | | 1 | 226 | Spring | -107.0 | -14.0 | | |
| NW | Little Currant Creek | | 1 | 217 | Surface | -113.0 | -15.0 | | |
| NW | Secret Spring | | 1 | 220 | Spring | -110.0 | -14.0 | | |
| NW | Saddle Spring | | 1 | 225 | Spring | -116.0 | -15.0 | | |
| NE Valley Cold | Lund Spring | 5,700 | 2 | 221 | Spring | -112.5 | -14.6 | | |
| Warm | Nicholson Spring | 2,000 | 1 | 227 | Spring | -124.0 | -16.1 | | |
| Warm | Cold Spring, Preston | 1,000 | 2 | 230 | Spring | -123.5 | -15.8 | | |
| Warm | Preston Big Spring | 5,900 | 2 | 231 | Spring | -124.5 | -15.8 | | |
| Warm | William Hot Spring | | 1 | 232 | Spring | -118.0 | -15.8 | | |
| | Discharge Warm Springs (Avg) | 8,900 | 4 | | | -124.3 | -15.8 | -125.9 | -16.4 |
| ET | ET | 58,000 | | | | | | -118.4 | -15.5 |
| 207S | GW Outflow (SWRV) | 13,000 | | | | | | -118.4 | -15.5 |
| 207S | South White River Valley | | | | | | | | |
| 207N | Inflow (NWRV) | 13,000 | | | | -118.4 | -15.5 | | |
| 180 | Inflow (Cave - No) | | | | | | | | |
| 207 SE | Egan Rng South | 11,700 | | | | -105.3 | -14.1 | | |
| 207 SW | Grant Rng | 14,700 | | | | -109.2 | -14.6 | | |
| TR | Total Recharge | 26,000 | 2 | | | -107.5 | -14.3 | | |
| SE | Shingle Spring | | 1 | 203 | Spring | -103.5 | -13.3 | | |
| SW | Albert Spring | | 1 | 204 | Spring | -107.0 | -14.0 | | |
| SW | Forest Home Spring | | 1 | 195 | Spring | -108.5 | -14.5 | | |
| SW | Big Spring (Grant Range) | | 1 | 194 | Spring | -112.0 | -15.2 | | |
| SE Valley Cold | Flag Spring #3 | 4,000 | 1 | 201 | Spring | -105.0 | -14.3 | | |
| SE Valley Cold | Butterfield Spring | 1,900 | 1 | 202 | Spring | -105.0 | -14.2 | | |
| SE Valley Cold | Emigrant Spring | 1,600 | 2 | 207 | Spring | -107.8 | -14.5 | | |
| Warm | Hot Creek Spring | 10,000 | 1 | 197 | Spring | -118.0 | -15.5 | | |
| Warm | Hot Creek Campground Well | | 1 | 198 | Well | -118.0 | -15.3 | | |
| Warm | Moon River Spring | 2,800 | 1 | 192 | Spring | -120.0 | -15.8 | | |
| Warm | Moorman Spring | 400 | 1 | 205 | Spring | -119.0 | -15.7 | | |
| | Discharge Warm Springs (Avg) | 13,200 | 4 | | | -118.5 | -15.6 | -118.4 | -15.5 |
| ET | ET | 22,000 | | | | | | -111.1 | -14.7 |
| 208 | GW Outflow (Pahroc) | 17,000 | | | | | | -111.1 | -14.7 |
| 172 | Garden Valley | | | | | | | | |
| 172 NE | Golden Gate Rng | 2,800 | | | | -107.0-- | | | |
| 172 NW | Quinn Cyn @ Adavan | 14,100 | | | | -104.1 | -14.0 | | |
| 172 SE | Worthington Mountains | 2,200 | | | | -98.0 | -13.3 | | |
| TR | Total Recharge | 19,000 | 3 | | | -103.9 | -13.9 | | |
| NE | SK-13 | | 1 | 167 | Spring | -107.0-- | | | |
| SE | The Seep Spring | | 1 | 136 | Spring | -98.0 | -13.3 | | |
| Evaporated | Carpenter Spring | | 1 | 171 | Spring | -95.0 | -11.9 | | |

| Section | Name | Volume Acre- ft/yr | # of Samples | Site # | Site Type | Obs. δD | Obs. $\delta^{18}O$ | Calc. δD | Calc. $\delta^{18}O$ |
|------------|-------------------------------|--------------------------|--------------------|-----------|--------------|--------------------|------------------------|---------------------|-------------------------|
| NW | Adaven Spring | | 2 | 177 | Spring | -105.3 | -14.0 | | |
| NW | Lower Little Cherry Cr Spring | | 1 | 182 | Spring | -103.0 | -13.9 | | |
| ET | ET | 5,000 | | | | | | -103.9 | -13.9 |
| 171 | GW Outflow (Coal) | 14,000 | | | | | | -103.9 | -13.9 |
| 171 | Coal Valley | | | | | | | | |
| 172 | Inflow (Garden) | 14,000 | | | | -103.9 | -13.9 | | |
| 171 E | Seaman Rng | 2,800 | | | | -90.0 | -12.1 | | |
| 171 W | Golden Gate Rng | 4,200 | | | | -107.0-- | | | |
| TR | Total Recharge | 7,000 | 2 | | | -100.2 | -12.1 | | |
| W | SK-13 | | 1 | 167 | Spring | -107.0-- | | | |
| E | White Rx Spring | | 1 | 154 | Spring | -90.0 | -12.1 | | |
| Evaporated | Oceana Spring | | 2 | 161 | Spring | -86.2 | -10.2 | | |
| Carb Well | USGS-MX C.V. Well (CV-DT-1) | | 1 | 176 | Well | -110.0 | -14.6 | | |
| | Carbonate Well (Avg) | | 1 | | | -110.0 | -14.6 | -109.2 | -14.6 |
| ET | ET | 1,000 | | | | | | -102.6 | -13.3 |
| 209 | GW Outflow (Pahranagat) | 20,000 | | | | | | -102.6 | -13.3 |
| 208 | Pahroc Valley | | | | | | | | |
| 207S | Inflow (SWRV) | 17,000 | | | | -111.1 | -14.7 | | |
| 180 | Inflow (Cave) | 15,000 | | | | -104.3 | -13.8 | | |
| 171 | Inflow (Coal - No) | | | | | | | | |
| 208 E | N. Pahroc Rng. | 3,700 | | | | -93.3 | -12.6 | | |
| 208 W | Seaman Rng. | 3,800 | | | | -90.0 | -12.1 | | |
| TR | Total Recharge | 8,000 | 2 | | | -91.6 | -12.3 | | |
| E | Mustang Spring | | 1 | 135 | Spring | -91.0 | -12.6 | | |
| E | Black Rock Spring | | 1 | 158 | Spring | -94.0 | -12.3 | | |
| E | Coyote Spring | | 1 | 169 | Spring | -95.0 | -12.8 | | |
| W | White Rx Spring | | 1 | 154 | Spring | -90.0 | -12.1 | | |
| ET | ET | 1,000 | | | | | | -104.7 | -13.9 |
| 209 | GW Outflow (Pahranagat) | 39,000 | | | | | | -104.7 | -13.9 |
| 209 | Pahranagat Valley | | | | | | | | |
| 208 | Inflow (Pahroc) | 39,000 | | | | -104.7 | -13.9 | | |
| 209 E | S. Pahroc Rng. | 3,000 | | | | -93.9 | -12.7 | | |
| 209 W | Mt. Irish/Pahranagat Rng. | 4,400 | | | | -93.9 | -12.7 | | |
| TR | Total Recharge | 7,000 | 2 | | | -93.9 | -12.7 | | |
| E | Hells Acres Gulch Spring | | 1 | 109 | Spring | -93.0 | -12.3 | | |
| E | Sixmile Canyon Spring | | 1 | 112 | Spring | -93.4 | -13.1 | | |
| E | Sidehill Spring | | 1 | 200 | Spring | -100.0 | -13.1 | | |
| E | Pahroc Spring | | 1 | 131 | Spring | -89.0 | -12.5 | | |
| Warm | Ash Spring | 12,400 | 4 | 110 | Spring | -109.0 | -14.1 | | |
| Warm | Little Ash Spring | 500 | 1 | 111 | Spring | -107.2 | -14.2 | | |
| Warm | Crystal Spring | 8,200 | 6 | 116 | Spring | -108.7 | -14.4 | | |
| Warm | Hiko Spring | 4,300 | 7 | 122 | Spring | -108.7 | -14.4 | | |
| | Discharge Warm Springs (Avg) | 25,400 | 4 | | | -108.8 | -14.2 | -104.7 | -13.9 |
| ET | ET | 38,000 | | | | | | -102.9 | -13.6 |
| 171 | Inflow (Coal) | 20,000 | | | | -102.6 | -13.3 | | |

| Section | Name | Volume Acre- ft/yr | # of Samples | Site # | Site Type | Obs. δD | Obs. $\delta^{18}O$ | Calc. δD | Calc. $\delta^{18}O$ |
|-----------|----------------------------|--------------------------|--------------------|-----------|--------------|--------------------|------------------------|---------------------|-------------------------|
| 210 | GW Outflow (Coyote Spr) | 28,000 | | | | | | -102.9 | -13.6 |
| 181 | Dry Lake Valley | | | | | | | | |
| 181 NE | Fairview Rng. | 6,100 | | | | -99.8 | -13.4 | | |
| 181 E | Bristol/Highland Rng. | 800 | | | | -99.8 | -13.4 | | |
| 181 SE | Chief Rng. | 1,900 | | | | -99.8 | -13.4 | | |
| 181 W | N. Pahroc Rng. | 4,500 | | | | -93.3 | -12.6 | | |
| TR | Total Recharge | 13,000 | 4 | | | -97.6 | -13.1 | | |
| E, NE | Bennett Spring | | 1 | 141 | Spring | -103.0 | -13.7 | | |
| E, NE | Upper Conner Spring | | 1 | 156 | Spring | -100.0 | -13.9 | | |
| E, NE | Pine Spring | | 1 | 157 | Spring | -99.0 | -13.4 | | |
| E, NE | Lime Spring | | 1 | 160 | Spring | -97.0 | -12.9 | | |
| E, NE | Deadman Spring | | 1 | 162 | Spring | -99.0 | -13.3 | | |
| E, NE | Highland Spring | | 1 | 163 | Spring | -98.5 | -13.3 | | |
| E, NE | Steward Ranch Spring | | 1 | 188 | Spring | -102.0 | -13.6 | | |
| E, NE | Lower Pony Spring | | 2 | 190 | Spring | -101.0 | -13.3 | | |
| E, NE | Upper Pony Spring | | 1 | 191 | Spring | -99.0 | -12.9 | | |
| W | Mustang Spring | | 1 | 135 | Spring | -91.0 | -12.6 | | |
| W | Black Rock Spring | | 1 | 158 | Spring | -94.0 | -12.3 | | |
| W | Coyote Spring | | 1 | 169 | Spring | -95.0 | -12.8 | | |
| Carb Well | Fugro Dry Lake V Deep Well | | 1 | 179 | Well | -108.0 | -14.2 | | |
| | Carbonate Well (Avg) | | 1 | | | -108.0 | -14.2 | -106.6 | -14.2 |
| ET | ET | 1,000 | | | | | | -97.6 | -13.1 |
| 182 | GW Outflow (Delamar) | 12,000 | | | | | | -97.6 | -13.1 |
| 182 | Delamar Valley | | | | | | | | |
| 181 | Inflow (Dry Lake) | 12,000 | | | | -97.6 | -13.1 | | |
| 182 E | Delamar Mtns. | 3,000 | | | | -86.6 | -11.5 | | |
| 182 W | S. Pahroc Rng. | 1,600 | | | | -91.6 | -12.6 | | |
| TR | Total Recharge | 5,000 | 2 | | | -88.4 | -11.9 | | |
| E | Grassy Spring | | 1 | 117 | Spring | -85.0 | -10.9 | | |
| E | Bishop Spring | | 1 | 107 | Spring | -85.5 | -11.7 | | |
| E | Stock Well (Delamar Wash) | | 1 | 101 | Well | -88.0 | | | |
| E | Upper Riggs Spring | | 1 | 105 | Spring | -88.0 | -11.9 | | |
| W | Hells Acres Gulch Spring | | 1 | 109 | Spring | -93.0 | -12.3 | | |
| W | Sixmile Canyon Spring | | 1 | 112 | Spring | -93.4 | -13.1 | | |
| W | Pahroc Spring | | 1 | 131 | Spring | -89.0 | -12.5 | | |
| W | Mustang Spring | | 1 | 135 | Spring | -91.0 | -12.6 | | |
| ET | ET | 1,000 | | | | | | -94.9 | -12.7 |
| 210 | GW Outflow (Coyote Spr) | 16,000 | | | | | | -94.9 | -12.7 |
| 206 | Kane Springs Valley | | | | | | | | |
| 206 E | Meadow Valley Mtns. | 900 | | | | -87.8 | -11.8 | | |
| 206 W | Delamar Mtns. | 5,800 | | | | -87.3 | -12.1 | | |
| TR | Total Recharge | 7,000 | 2 | | | -87.4 | -12.0 | | |
| E | Grapevine Spring (KSV-2) | | 2 | 93 | Spring | -87.8 | -11.8 | | |
| W | Willow Spring (KSV-1) | | 2 | 92 | Spring | -87.3 | -11.8 | | |
| W | Kane Springs (KSV-3) | | 2 | 97 | Spring | -86.8 | -12.3 | | |

| Section | Name | Volume Acre- ft/yr | # of Samples | Site # | Site Type | Obs. δD | Obs. δ ¹⁸ O | Calc. δD | Calc. δ ¹⁸ O |
|------------|-------------------------------|--------------------------|--------------------|-----------|--------------|------------|---------------------------|-------------|----------------------------|
| W | Boulder Spring (KSV-4) | | 2 | 98 | Spring | -87.3 | -12.3 | | |
| W | Upper Riggs Spring | | 1 | 105 | Spring | -88.0 | -11.9 | | |
| ET | ET | 1,000 | | | | | | -87.4 | -12.0 |
| 210 | GW Outflow (Coyote Spr) | 6,000 | | | | | | -87.4 | -12.0 |
| 210 | Coyote Springs Valley | | | | | | | | |
| 209 | Inflow (Pahranagat) | 28,000 | | | | -102.9 | -13.6 | | |
| 182 | Inflow (Delamar) | 16,000 | | | | -94.9 | -12.7 | | |
| 206 | Inflow (Kane Springs) | 6,000 | | | | -87.4 | -12.0 | | |
| 210 E | S. Meadow Valley Mtns. | 100 | | | | -91.4 | -12.6 | | |
| 210 NE | S. Delamar Mtns. | 900 | | | | -87.3 | -11.8 | | |
| 210 NW | S. of Maynard Lake | 100 | | | | -91.4 | -12.6 | | |
| 210 SE | Arrow Canyon Rng. | 500 | | | | -91.4 | -12.6 | | |
| 210 W | Sheep Range | 2,300 | | | | -93.1 | -12.9 | | |
| TR | Total Recharge | 4,000 | 5 | | | -91.4 | -12.6 | | |
| W | Cow Camp Spring | | 2 | 47 | Spring | -91.8 | -12.6 | | |
| W | Mormon Well Spring | | 3 | 53 | Spring | -91.8 | -12.7 | | |
| W | Wiregrass Spring | | 9 | 49 | Spring | -94.3 | -12.8 | | |
| W | Sheep Spring | | 1 | 83 | Spring | -96.0 | -13.4 | | |
| W | Sawmill Spring | | 1 | 58 | Spring | -92.0 | -12.9 | | |
| W | Lamb Spring | | 1 | 86 | Spring | -92.5 | -13.2 | | |
| NE | Willow Spring (KSV-1) | | 2 | 92 | Spring | -87.3 | -11.8 | | |
| Evaporated | White Rock Spring | | 2 | 64 | Spring | -83.5 | -9.9 | | |
| Carb Well | CE-VF-2 Well | | 1 | 81 | Well | -101.0 | -13.0 | | |
| Carb Well | Fugro CV Deep Well CE-DT-5 | | 1 | 77 | Well | -99.5 | -12.9 | | |
| Carb Well | CE-DT-4 | | 1 | 78 | Well | -102.5 | -13.0 | | |
| | Deep Carbonate Well (Avg) | | 3 | | | -101.0 | -13.0 | -100.0 | -13.3 |
| ET | ET | 1,000 | | | | | | -98.0 | -13.1 |
| 219 | SW Outflow (Muddy) | 37,000 | | | | | | -98.0 | -13.1 |
| 216 | GW Outflow (Garnet) | 16,000 | | | | | | -98.0 | -13.1 |
| 219 | Upper Moapa (Muddy) Valley | | | | | | | | |
| 210 | Inflow (Coyote) | 37,000 | | | | -98.0 | -13.1 | | |
| 219 N | Wildcat Wash | 200 | | | | -100.0 | -13.0 | | |
| 219 S | E. Arrow Canyon? | 100 | | | | -100.0 | -13.0 | | |
| TR | Total Recharge | 300 | 2 | | | -100.0 | -13.0 | | |
| Warm | Iverson's Spring | | 1 | 65 | Spring | -97.0-- | | | |
| Warm | Pederson's Warm Spring (M-13) | 400 | 5 | 67 | Spring | -97.5 | -12.9 | | |
| Warm | M-8 Spring | | 1 | 68 | Spring | -99.0 | -12.8 | | |
| Warm | Big Muddy Spring | 5,500 | 4 | 69 | Spring | -97.9 | -12.9 | | |
| Warm | M-9 Spring | 200 | 1 | 70 | Spring | -96.5 | -12.5 | | |
| | Discharge Warm Springs (Avg) | 6,100 | 5 | | | -97.8 | -12.9 | -98.0 | -13.1 |
| Carb Well | CE-DT-6 Well | | 1 | 72 | Well | -98.0 | -13.0 | | |
| Carb Well | CSV-2 Well | | 1 | 76 | Well | -98.0 | -12.9 | | |
| | Deep Carbonate Well (Avg) | | 2 | | | -98.0 | -12.9 | -98.0 | -13.1 |
| ET | ET | 5,000 | | | | | | -98.0 | -13.1 |
| Gage | Gage | 31,000 | | | | | | -98.0 | -13.1 |
| 218 | SW Outflow (California Wash) | 32,000 | | | | | | -98.0 | -13.1 |

| Section | Name | Volume Acre- ft/yr | # of Samples | Site # | Site Type | Obs. δD | Obs. $\delta^{18}O$ | Calc. δD | Calc. $\delta^{18}O$ |
|---------------------------------------|-------------------------------|--------------------------|--------------------|-----------|--------------|--------------------|------------------------|---------------------|-------------------------|
| Meadow Valley Wash Flow System | | | | | | | | | |
| 183 | Lake Valley | | | | | | | | |
| 183 NE | Fortification Rng. | 8,800 | | | | -113.0 | -15.0 | | |
| 183 NW | Cen. Schell Cr. Rng | 14,800 | | | | -108.3 | -14.8 | | |
| 183 SE | Wilson Cr. Rng. @ Atlanta | 11,900 | | | | -97.5 | -13.2 | | |
| 183 SW | Fairview Rng. | 5,800 | | | | -100.7 | -13.3 | | |
| TR | Total Recharge | 41,000 | 4 | | | -105.1 | -14.1 | | |
| NE | Unnamed Well | | 1 | 216 | Well | -113.0 | -15.0 | | |
| NW | North Creek Spring | 1,200 | 1 | 214 | Spring | -105.0 | -14.6 | | |
| SE | Wilson Creek | | 1 | 189 | Surface | -97.5 | -13.2 | | |
| SW | Steward Ranch Spring | | 1 | 188 | Spring | -102.0 | -13.6 | | |
| SW | Lower Pony Spring | | 2 | 190 | Spring | -101.0 | -13.3 | | |
| SW | Upper Pony Spring | | 1 | 191 | Spring | -99.0 | -12.9 | | |
| Alluvial Well | Lake Valley Well | | 1 | 193 | Well | -111.0 | -14.7 | | |
| NW Valley Cold | Big Spring South | 1,600 | 1 | 210 | Spring | -111.0 | -14.8 | | |
| NW Valley Cold | Big Spring North | 700 | 1 | 211 | Spring | -112.0 | -15.1 | | |
| NW Valley Cold | Geyser Spring | 340 | 1 | 213 | Spring | -105.0 | -14.5 | | |
| ET | ET | 24,000 | | | | | | -105.1 | -14.1 |
| 202 | GW Outflow (Patterson) | 17,000 | | | | | | -105.1 | -14.1 |
| 202 | Patterson Valley | | | | | | | | |
| 183 | Inflow (Lake) | 17,000 | | | | -105.1 | -14.1 | | |
| 202 E | Wilson Cr. Rng. @ Mt. Wilson | 9,800 | | | | -97.5 | -13.2 | | |
| 202 W | Bristol Rng. | 5,900 | | | | -98.7 | -13.4 | | |
| TR | Total Recharge | 16,000 | 2 | | | -98.0 | -13.3 | | |
| E | Wilson Creek | | 1 | 189 | Surface | -97.5 | -13.2 | | |
| W | Upper Conner Spring | | 1 | 156 | Spring | -100.0 | -13.9 | | |
| W | Pine Spring | | 1 | 157 | Spring | -99.0 | -13.4 | | |
| W | Lime Spring | | 1 | 160 | Spring | -97.0 | -12.9 | | |
| W | Deadman Spring | | 1 | 162 | Spring | -99.0 | -13.3 | | |
| W | Highland Spring | | 1 | 163 | Spring | -98.5 | -13.3 | | |
| Alluvial Well | Dodge Well | | 1 | 185 | Well | -107.0 | -14.2 | | |
| ET | ET | 5,000 | | | | | | -101.6 | -13.7 |
| 203 | GW Outflow (Panaca) | 28,000 | | | | | | -101.6 | -13.7 |
| 201 | Spring Valley | | | | | | | | |
| 201 E | White Rock Mtns. | 8,700 | | | | -101.0 | -13.1 | | |
| 201 W | Wilson Cr. Rng. @ Parsnip Pk. | 7,400 | | | | -101.0 | -13.1 | | |
| TR | Total Recharge | 16,000 | 2 | | | -101.0 | -13.1 | | |
| E | Spring below Reed Summit | | 1 | 173 | Spring | -95.0 | -12.5 | | |
| E | Burnt Canyon Spring | | 1 | 187 | Spring | -93.0 | -12.3 | | |
| W | Parship Spring | | 1 | 180 | Spring | -93.5 | -12.8 | | |
| Alluvial Well | White Rock Well | | 1 | 175 | Well | -101.0 | -13.1 | | |
| Surface | Camp Creek | | 1 | 184 | Surface | -102.0 | -14.0 | | |
| Surface | MVW above Eagle Canyon | | 1 | 168 | Surface | -93.0 | -12.0 | | |
| ET | ET | 1,000 | | | | | | -101.0 | -13.1 |

| Section | Name | Volume Acre- ft/yr | # of Samples | Site # | Site Type | Obs. δD | Obs. $\delta^{18}O$ | Calc. δD | Calc. $\delta^{18}O$ |
|---------------|----------------------------|--------------------------|--------------------|-----------|--------------|--------------------|------------------------|---------------------|-------------------------|
| 200 | GW Outflow (Eagle) | 15,000 | | | | | | -101.0 | -13.1 |
| 200 | Eagle Valley | | | | | | | | |
| 201 | Inflow (Spring) | 15,000 | | | | -101.0 | -13.1 | | |
| 200 E | E. Eagle (Ursine) Valley | 1,900 | | | | -101.0 | -13.4 | | |
| 200 W | W. Eagle (Ursine) Valley | 500 | | | | -101.0 | -13.4 | | |
| TR | Total Recharge | 2,000 | 2 | | | -101.0 | -13.4 | | |
| E | Flatnose Spring | 600 | 1 | 153 | Spring | -101.0 | -13.4 | | |
| ET | ET | 1,000 | | | | | | -101.0 | -13.1 |
| 199 | GW Outflow (Rose) | 16,000 | | | | | | -101.0 | -13.1 |
| 199 | Rose Valley | | | | | | | | |
| 200 | Inflow (Eagle) | 16,000 | | | | -101.0 | -13.1 | | |
| 199 E | E. Rose Valley | 200 | | | | -101.0 | -13.4 | | |
| 199 W | W. Rose Valley | 100 | | | | -101.0 | -13.4 | | |
| TR | Total Recharge | 300 | 2 | | | -101.0 | -13.4 | | |
| E | Flatnose Spring | 600 | 1 | 153 | Spring | -101.0 | -13.4 | | |
| ET | ET | 700 | | | | | | -101.0 | -13.1 |
| 198 | GW Outflow (Dry) | 16,000 | | | | | | -101.0 | -13.1 |
| 198 | Dry Valley | | | | | | | | |
| 199 | Inflow (Rose) | 16,000 | | | | -101.0 | -13.1 | | |
| 198 E | E. Dry Valley | 3,700 | | | | -101.0 | -13.4 | | |
| 198 W | W. Dry Valley | 500 | | | | -101.0 | -13.1 | | |
| TR | Total Recharge | 4,000 | 2 | | | -101.0 | -13.4 | | |
| E | Flatnose Spring | 600 | 1 | 153 | Spring | -101.0 | -13.4 | | |
| W | Delmues Spring | 20 | 2 | 149 | Spring | -101.0 | -13.1 | | |
| Alluvial Well | Oxborrow Well | | 1 | 150 | Well | -92.0 | -11.8 | | |
| ET | ET | 4,000 | | | | | | -101.0 | -13.2 |
| 203 | GW Outflow (Panaca) | 16,000 | | | | | | -101.0 | -13.2 |
| 204 | Clover Valley | | | | | | | | |
| 204 N | South of Beaver Dam | 5,400 | | | | -92.0 | -12.4 | | |
| 204 S | North of Jack's Mtn | 5,200 | | | | -86.8 | -11.8 | | |
| TR | Total Recharge | 11,000 | 2 | | | -89.4 | -12.1 | | |
| N | Ramone Mathews Well | | 1 | 115 | Well | -92.0 | -12.3 | | |
| N | Acoma Well | | 1 | 118 | Well | -95.0 | -12.6 | | |
| N | Clover Creek Valley Well | | 1 | 120 | Well | -89.0 | -12.4 | | |
| S | Unnamed Spring | | 1 | 113 | Spring | -86.5 | -11.6 | | |
| S | Sheep Spring | | 1 | 108 | Spring | -87.0 | -12.0 | | |
| Alluvial Well | Clover Creek Valley Well | | 1 | 114 | Well | -84.0 | -11.7 | | |
| ET | ET | 2,000 | | | | | | -89.4 | -12.1 |
| 205 | GW Outflow (Panaca Valley) | 9,000 | | | | | | -89.4 | -12.1 |
| 203 | Panaca Valley | | | | | | | | |
| 202 | Inflow (Patterson) | 28,000 | | | | -101.6 | -13.7 | | |
| 198 | Inflow (Dry) | 16,000 | | | | -101.0 | -13.2 | | |
| 203 E | Condor Canyon | 3,700 | | | | -99.4 | -13.4 | | |

| Section | Name | Volume Acre- ft/yr | # of Samples | Site # | Site Type | Obs. δD | Obs. $\delta^{18}O$ | Calc. δD | Calc. $\delta^{18}O$ |
|-----------------|------------------------------|--------------------------|--------------------|-----------|--------------|--------------------|------------------------|---------------------|-------------------------|
| 203 W | Cathedral Gorge | 5,400 | | | | -99.4 | -13.4 | | |
| TR | Total Recharge | 9,000 | 2 | | | -99.4 | -13.4 | | |
| W | Pine Spring | | 1 | 157 | Spring | -99.0 | -13.4 | | |
| W | Lime Spring | | 1 | 160 | Spring | -97.0 | -12.9 | | |
| W | Deadman Spring | | 1 | 162 | Spring | -99.0 | -13.3 | | |
| W | Highland Spring | | 1 | 163 | Spring | -98.5 | -13.3 | | |
| W | Upper Conner Spring | | 1 | 156 | Spring | -100.0 | -13.9 | | |
| Warm | Bennett Spring | 20 | 1 | 141 | Spring | -103.0 | -13.7 | | |
| Warm | Panaca Warm Spring | 7,700 | 3 | 144 | Spring | -106.9 | -14.0 | | |
| Warm | Caliente Hot Spring | | 1 | 129 | Spring | -109.0 | -14.5 | | |
| Outflow | Discharge Warm Springs (Avg) | | 1 | | | -106.9 | -14.0 | -105.1 | -14.1 |
| Surface Water | Meadow Valley Wash, Cal. | | 1 | 130 | Surface | -97.0 | -13.1 | | |
| | Weaver Well | | 1 | 137 | Well | -101.0 | -13.1 | | |
| | John Wadsworth | | 1 | 140 | Well | -101.0 | -12.9 | | |
| Warm | Lester Mathews Well | | 1 | 142 | Well | -103.0 | -13.3 | | |
| Warm | Panaca Town Well | | 1 | 143 | Well | -106.0 | -14.0 | | |
| Warm | North Lee Well | | 1 | 147 | Well | -101.0 | -13.3 | | |
| Alluvial Well | Caliente City Well | | 1 | 124 | Well | -89.0 | -12.4 | | |
| ET | ET | 26,000 | | | | | | -101.1 | -13.5 |
| 205 | Inflow (Clover Valley) | 9,000 | | | | | | -89.4 | -12.1 |
| 205 | GW Outflow (Lower Meadow VW) | 36,000 | | | | | | -98.2 | -13.2 |
| 205 | Lower Meadow Valley Wash | | | | | | | | |
| 203 | Inflow (Panaca) | 36,000 | | | | -98.2 | -13.2 | | |
| 205 NE | Clover Mountains | 8,600 | | | | -86.8 | -11.8 | | |
| 205 NW | Delamar Mtns. | 6,400 | | | | -86.8 | -11.8 | | |
| 205 SE | Mormon Mtns. | 3,800 | | | | -88.3 | -12.5 | | |
| 205 SW | Meadow Valley Mtns. | 4,100 | | | | -87.8 | -11.8 | | |
| TR | Total Recharge | 23,000 | 4 | | | -87.2 | -11.9 | | |
| NE | Unnamed Spring | | 1 | 113 | Spring | -86.5 | -11.6 | | |
| NE | Sheep Spring | | 1 | 108 | Spring | -87.0 | -12.0 | | |
| NW | Bishop Spring | | 1 | 107 | Spring | -85.5 | -11.7 | | |
| NW | Upper Riggs Spring | | 1 | 105 | Spring | -88.0 | -11.9 | | |
| SE | Hackberry Spring | | 1 | 84 | Spring | -87.0 | -12.3 | | |
| SE | Horse Spring | | 1 | 85 | Spring | -89.0 | -12.7 | | |
| SE | Davies Spring | | 1 | 90 | Spring | -89.0 | -12.5 | | |
| SW | Grapevine Spring (KSV-2) | | 2 | 93 | Spring | -87.8 | -11.8 | | |
| Alluvial Well | Railroad Well (Farrier, NV) | | 1 | 80 | Well | -97.5 | -12.5 | | |
| Alluvial Well | Jenson Well | | 1 | 95 | Well | -88.5 | -11.6 | | |
| A Well by river | Randono Well | | 1 | 100 | Well | -87.5 | -11.7 | | |
| A Well by river | Bradshaw Well | | 1 | 102 | Well | -88.5 | -11.4 | | |
| A Well by river | Railroad Well | | 1 | 103 | Well | -86.0 | -11.6 | | |
| ET | ET | 27,000 | | | | | | -88.8 | -12.1 |
| 220 | GW Outflow (L. Moapa) | 32,000 | | | | | | -98.2 | -13.2 |

| Section | Name | Volume Acre- ft/yr | # of Samples | Site # | Site Type | Obs. δD | Obs. $\delta^{18}O$ | Calc. δD | Calc. $\delta^{18}O$ |
|-----------------------------------|------------------------------|--------------------------|--------------------|-----------|--------------|--------------------|------------------------|---------------------|-------------------------|
| Lake Mead Area Flow System | | | | | | | | | |
| 217 | Hidden Valley | | | | | | | | |
| 217 E | E. Hidden | | | | | -81.0 | -10.6 | | |
| 217 W | W. Hidden | 300 | | | | -81.0 | -10.6 | | |
| TR | Total Recharge | 300 | 2 | | | -81.0 | -10.6 | | |
| W | Wamp Spring | | 1 | 52 | Spring | -81.0 | -10.6 | | |
| Evaporated | USBLM SHV-1, South H.V. Well | | 1 | 46 | Well | -90.5 | -11.2 | | |
| ET | ET | | | | | | | -81.0 | -10.6 |
| 216 | GW Outflow (Garnet) | 300 | | | | | | -81.0 | -10.6 |
| 216 | Garnet Valley | | | | | | | | |
| 217 | Inflow (Hidden) | 300 | | | | -81.0 | -10.6 | | |
| 210 | Inflow (Coyote Springs) | 16,000 | | | | -98.0 | -13.1 | | |
| 216 E | Apex | 100 | | | | -81.0 | -10.6 | | |
| 216 W | Las Vegas Range | 300 | | | | -81.0 | -10.6 | | |
| TR | Total Recharge | 400 | 2 | | | -81.0 | -10.6 | | |
| W | Wamp Spring | | 1 | 52 | Spring | -81.0 | -10.6 | | |
| Carbonate Well | GP Apex Well | | 3 | 17 | Well | -97.2 | -13.5 | | |
| Carbonate Well | Unnamed Well | | 1 | 24 | Well | -96.0 | -13.7 | | |
| Carbonate Well | US Lime Well (Genstar) | | 1 | 27 | Well | -97.0 | -12.8 | | |
| | Dry Lake Valley Well | | 1 | 34 | Well | -97.5 | -13.3 | | |
| Carbonate Wells | Wells (Avg) | | 4 | | | -96.9 | -13.3 | -98.0 | -13.1 |
| ET | ET | | | | | | | -97.2 | -13.0 |
| 218 | GW Outflow (California Wash) | 17,000 | | | | | | -97.2 | -13.0 |
| 218 | California Wash | | | | | | | | |
| 219 | Surface Water Inflow (Muddy) | 32,000 | | | | -98.0 | -13.1 | | |
| 216 | Inflow (Garnet) | 17,000 | | | | -97.2 | -13.0 | | |
| 218 E | Moapa Paiutes | 200 | | | | -82.0 | -10.6 | | |
| 218 W | Muddy Mtns. | 100 | | | | -82.0 | -10.6 | | |
| TR | Total Recharge | 300 | 2 | | | -82.0 | -10.6 | | |
| W | Valley of Fire Well | | 1 | 31 | Well | -82.0 | -10.6 | | |
| Carb Well | Moapa Well | | 1 | 41 | Well | -99.0 | -13.4 | | |
| Carb Well | Calpine Test Well 1a | | 1 | 43 | Well | -99.0 | -13.5 | | |
| ET | ET | 5,000 | | | | | | -97.0 | -12.9 |
| 220 | GW Outflow (L. Moapa) | 8,000 | | | | | | -97.0 | -12.9 |
| 215 | GW Outflow (Black Mtn Area) | 4,000 | | | | | | -97.0 | -12.9 |
| 215 | Black Mountains Area | | | | | | | | |
| 218 | Inflow (California Wash) | 4,000 | | | | -97.0 | -12.9 | | |
| 215 NE | Muddy Mtns. | 300 | | | | -82.0 | -10.6 | | |
| 215 SE | Black Mtns. | 100 | | | | -79.5 | -10.7 | | |
| 215 W | Gypsum Wash | 100 | | | | -79.5 | -10.7 | | |
| TR | Total Recharge | 500 | 3 | | | -81.0 | -10.6 | | |
| SE | Cottonwood Spring | | 1 | 8 | Spring | -80.0 | -10.8 | | |
| SE | Sandstone Spring | | 1 | 10 | Spring | -79.0 | -10.5 | | |
| NE | Valley of Fire Well | | 1 | 31 | Well | -82.0 | -10.6 | | |

| Section | Name | Volume Acre- ft/yr | # of Samples | Site # | Site Type | Obs. δD | Obs. $\delta^{18}O$ | Calc. δD | Calc. $\delta^{18}O$ |
|----------------------|------------------------------|--------------------------|--------------------|-----------|--------------|--------------------|------------------------|---------------------|-------------------------|
| Alluvial Spring | Bitter Spring | 5 | 1 | 14 | Spring | -77.0 | -9.9 | | |
| Evaporated Highly | Gypsum Spring | | 1 | 9 | Spring | -75.0 | -9.2 | | |
| Evaporated | Getchel Spring | | 1 | 32 | Spring | -83.0 | -8.6 | | |
| Carb Spr | Corral Spring | | 1 | 19 | Spring | -91.5 | -12.1 | | |
| Carb Spr | Scirpus Spring | | 1 | 20 | Spring | -90.0 | -12.0 | | |
| Carb Spr | Rogers Spring | 1,200 | 3 | 21 | Spring | -91.7 | -12.3 | | |
| Carb Spr | Blue Point Spring | 440 | 4 | 26 | Spring | -92.5 | -12.4 | | |
| Carb Spr | VF Spring 1 | | 1 | 28 | Spring | -88.0 | -11.2 | | |
| Carb Spr | VF Spring 2 | 6 | 1 | 29 | Spring | -92.0 | -11.8 | | |
| Carb Spr | VF Spring 3 | 17 | 1 | 30 | Spring | -93.0 | -12.2 | | |
| CARB | Carbonate Spr (Avg) | 1,663 | | | | -91.9 | -12.3 | | |
| ET | ET | 2,000 | | | | | | -95.2 | -12.7 |
| | GW Outflow (Lake Mead) | 2,000 | | | | | | -95.2 | -12.7 |
| 220 | Lower Moapa Valley | | | | | | | | |
| 218 | GW Inflow (California Wash) | 8,000 | | | | -97.0 | -12.9 | | |
| 218 | SW Inflow (California Wash) | 32,000 | | | | -98.0 | -13.1 | | |
| 205 | GW Inflow (Lower Meadow VW) | 32,000 | | | | -98.2 | -13.2 | | |
| 220 N | S. Mormon Mtns. | 1,000 | | | | -88.3 | -12.5 | | |
| 220 S | Valley of Fire | 300 | | | | -90.0 | -11.4 | | |
| TR | Total Recharge | 1,000 | 2 | | | -88.7 | -12.2 | | |
| S | Unnamed, Kaolin Wash | | 1 | 35 | Spring | -88.0 | -11.3 | | |
| S | Unnamed, Magnesite Wash | | 1 | 38 | Spring | -92.0 | -11.5 | | |
| N | Hackberry Spring | | 1 | 84 | Spring | -87.0 | -12.3 | | |
| N | Horse Spring | | 1 | 85 | Spring | -89.0 | -12.7 | | |
| N | Davies Spring | | 1 | 90 | Spring | -89.0 | -12.5 | | |
| Well | Unnamed Well | | 1 | 48 | Well | -103.0 | -13.2 | | |
| Carb Well | EH-7 | | 6 | 56 | Well | -91.8 | -12.6 | | |
| Carb Well | EH-3 | | 4 | 61 | Well | -91.0 | -12.7 | | |
| ET | ET | 15,000 | | | | | | -97.7 | -13.1 |
| | GW Outflow (Lake Mead) | 26,000 | | | | | | -97.7 | -13.1 |