HARPER LAKE BASIN,
SAN BERNARDINO COUNTY, CALIFORNIA
HYDROGEOLOGIC REPORT

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California State University, Fullerton
Department of Geological Sciences

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Dedicated to the Memory of Brock Boeke

Prepared in cooperation with and submitted to
Mojave Water Agency

Table of Contents

1.0 Introduction **6**
1.1 Location of Study Area 6
1.2 Purpose and Goals 6
2.0 Background **6**
2.1 Adjudicated Basin Boundaries 6
2.2 Previous Studies 10
Table 1. Previous studies in Harper Lake Basin. 10
3.0 Geography **11**
3.1 Physiography 11
3.2 Climate (Temperature, Precipitation, and Evapotranspiration) 11
Table 2: Average maximum and minimum temperature by month (°F). 12
Table 3: Precipitation average by month (in). 12
Table 4: Barstow average evapotranspiration by month (in). 12
3.3 Surface Water 12
3.4 Vegetation 14
3.5 Land Use and Population 14
4.0 Geology **14**
4.1 Stratigraphy and Lithology 14
4.2 Harper Lake Basin Faults 20
Table 5: Water level data for wells adjacent to the Lockhart Fault. 20
5.0 Groundwater **20**
5.1 Aquifer Description 20
5.2 Groundwater Level Trends 21
5.3 Groundwater Occurrence and Movement 37
5.4 Water Use and Storage 37
Table 6. Harper Lake Basin annual verified water production. 38
Table 7. Harper Lake Basin estimated groundwater storage. 38
5.5 Subsurface flow from Middle Mojave River Valley Basin 38
5.6 Water Budget 40
Table 8. Previous works on subsurface groundwater flow into Harper Lake Basin from the Middle Mojave River Valley Basin. 41
Table 9. Flow Calculations at Red Hill 42
Table 10. Harper Lake Basin estimated groundwater inputs. 42
Table 11. Harper Lake Basin average production. 42
Table 12. Harper Lake Basin estimated groundwater outputs. 42
Table 13. Harper Lake Basin water budget calculations. 43
5.7 General Water Chemistry 43
Table 14. Harper Lake Basin measured TDS concentrations. 43
6.0 Summary **44**
6.1 Un-resolved Issues for Future Research 45
7.0 References **46**
8.0 Appendices **49**

List of Figures

Figure 1: Harper Lake Basin location map.
Figure 2: Harper Lake Groundwater Basin map.
Figure 3: Mojave Water Agency Sub-areas.
Figure 4: Harper Lake Basin precipitation and evapotranspiration map.
Figure 5: Harper Lake Basin vegetation map.
Figure 6: Harper Lake Basin land ownership map.
Figure 7: Harper Lake Basin water-bearing and non-water-bearing rocks map.
Figure 8: Harper Lake Basin groundwater well locations.
Figure 9: Harper Lake Basin groundwater hydrographs.
Figure 10: Harper Lake Basin groundwater hydrographs from 1990 to 2006.
Figure 11: Harper Lake Basin Mojave River groundwater hydrographs.
Figure 12: Harper Lake Basin Mojave River groundwater hydrographs from 1990 to 2006.
Figure 13: Harper Lake Basin Southwest groundwater hydrographs.
Figure 14: Harper Lake Basin Southwest groundwater hydrographs from 1990 to 2006.
Figure 15: Harper Lake Basin Center groundwater hydrographs.
Figure 16: Harper Lake Basin Center groundwater hydrographs from 1990 to 2006.
Figure 17: Harper Lake Basin Northeast groundwater hydrographs.
Figure 18: Harper Lake Basin Northeast groundwater hydrographs from 1990 to 2006.
Figure 19: Harper Lake Basin groundwater elevation contour map 1958
Figure 20: Harper Lake Basin groundwater elevation contour map 1998.
Figure 21: Harper Lake Basin groundwater elevation contour map 2004.
Figure 22: Mojave River–Harper Lake Basin divide.

Plates

Plate 1: Harper Lake Basin composite geologic map

Appendices

Appendix A. Climatic data and plots.
Appendix B. Water level data
Appendix C. General water chemistry.
Appendix D. Glossary of terms.

Executive Summary

Harper Lake Basin is a closed basin northwest of the Mojave River. It lies in the Centro Sub-area of the Mojave Water Agency management area of the Mojave Desert. Drainage into the central dry lake portion of the basin [Harper (dry) Lake] occurs through late summer thunderstorms and winter storms. Average precipitation is approximately 5 inches (13 cm) a year while evapotranspiration is approximately 68 inches (173 cm) a year. Groundwater levels have gradually declined since the keeping of water-level records began. Although the sequence of records is incomplete in many instances, they are still a good general indicator. There are 377 known wells in Harper Lake Basin, most of which are located directly adjacent to the northwest edge of the Mojave River. The bulk of the remaining wells are located at the southeast edge of Harper Lake Basin. Water use has dropped by about half from the highs reported prior to the initiation of the "1996 Adjudication." The principal aquifer of Harper Lake Basin is composed of older alluvium, which underlies the Late Pleistocene lake sediments and surrounds the lake as alluvial fan deposits. Older alluvium ranges from being very thin to a thickness of several hundred meters mostly on the northeast side of Harper (dry) Lake. Groundwater recharge comes primarily from underflow from the middle Mojave River Valley basin through a small alluvial divide near Red Hill. Flow through the Red Hill gap is approximately 1,000 acre feet per year. Additional recharge occurs from precipitation but is poorly quantified and in general only occurs when seasonal rainfall exceeds 8 inches (20 cm). Measured water quality is limited to TDS values. TDS values are lower further away from the Harper (dry) Lake boundary. Reported water quality ranges have shown a decrease in the low values from 1,000 mg/l in 1979 to 179 mg/l in 2003, while the higher values have remained high at 2,300 mg/l on average over the same time period. Degraded groundwater quality near the dry lake is attributed to the infiltration of irrigation return flow.

1.0 Introduction

1.1 Location of Study Area

Harper Lake Basin is part of the Centro Sub-area of the Mojave Water Agency (MWA) management area and is located in the southern Mojave Desert, San Bernardino County, California (Figure 1: Harper Lake Basin location map). Harper Lake Basin directly borders Hinkley Valley to the west-northwest, lies approximately 17 miles (mi) [27 kilometers (km)] northwest of the city of Barstow, and approximately 85 mi (137 km) northeast of the city of Los Angeles. Access to Harper Lake Basin is available via Highway 58 from Interstate 15 from the east or Highway 395 from the west by means of Kramer Junction.

1.2 Purpose and Goals

This report is intended to provide an overview of previously published data and new data on the geography, climate, geology, hydrology, hydrogeology, and groundwater chemistry of the Harper Lake Basin. The awareness of problems, potential problems, and possible solutions regarding overall watershed issues, including those that affect our vital groundwater resources, is especially important in the Mojave Desert region where precipitation is low and demand for freshwater is high. In order to address these issues, several objectives have been considered for this investigation:

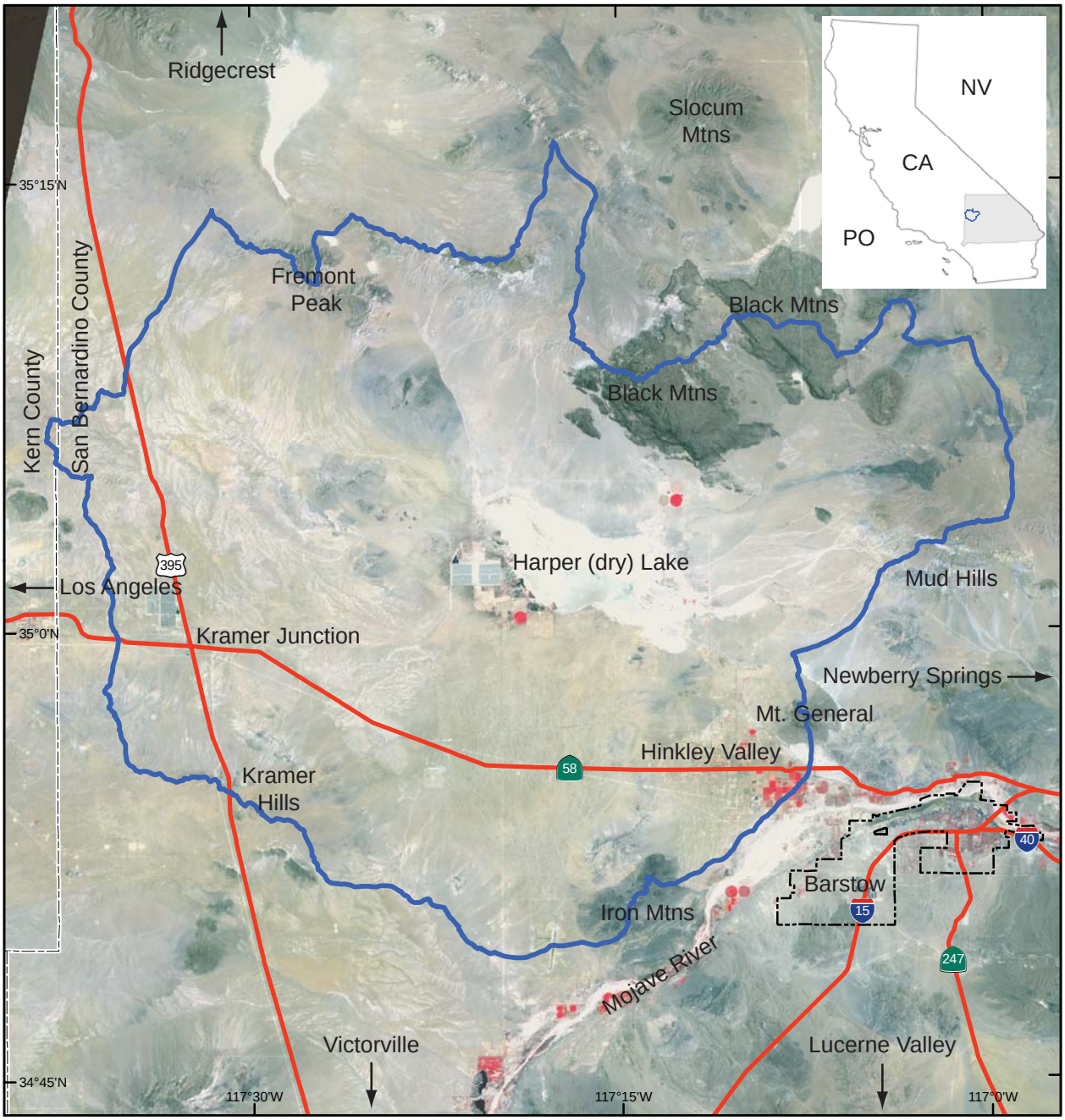
1. Introduce the physiography of Harper Lake Basin.
2. Review surface and groundwater flow patterns for the entire basin.
3. Resolve the spatial extent of the basin's aquifer(s).
3. Review published water budget calculations for the basin.
4. Review current groundwater chemistry.

2.0 Background

2.1 Adjudicated Basin Boundaries

California groundwater basins are identified on the basis of geographical and hydrological conditions and consideration of political boundary lines whenever practical (DWR, 1980). The state of California is divided into 11 hydrologic regions (DWR, 2003). Within the 11 hydrologic regions, there are a total of 431 groundwater basins. From the 431 groundwater basins, 24 of them are further divided into 108 sub-basins (DWR, 2003). The Harper Lake Basin groundwater basin is one of the sub-basins within the South Lahontan hydrologic region (Figure 2: Harper Lake Groundwater Basin map).

Within the Mojave River Basin area, MWA oversees 10 sub-areas (Figure 3: Mojave Water Agency Sub-areas). These sub-areas were designated for the allocation of water rights and are in accordance with the "Mojave Basin Area Adjudication 1996." The Mojave River Basin area is adjudicated under a stipulated judgment issued in 1996 that set the limit to the amount of groundwater production that can be pumped in each sub-area. Currently, the state of California recognizes 19 adjudicated groundwater basins. Harper Lake Basin groundwater basin lies within the adjudicated Centro Sub-basin boundary (Fig. 3).

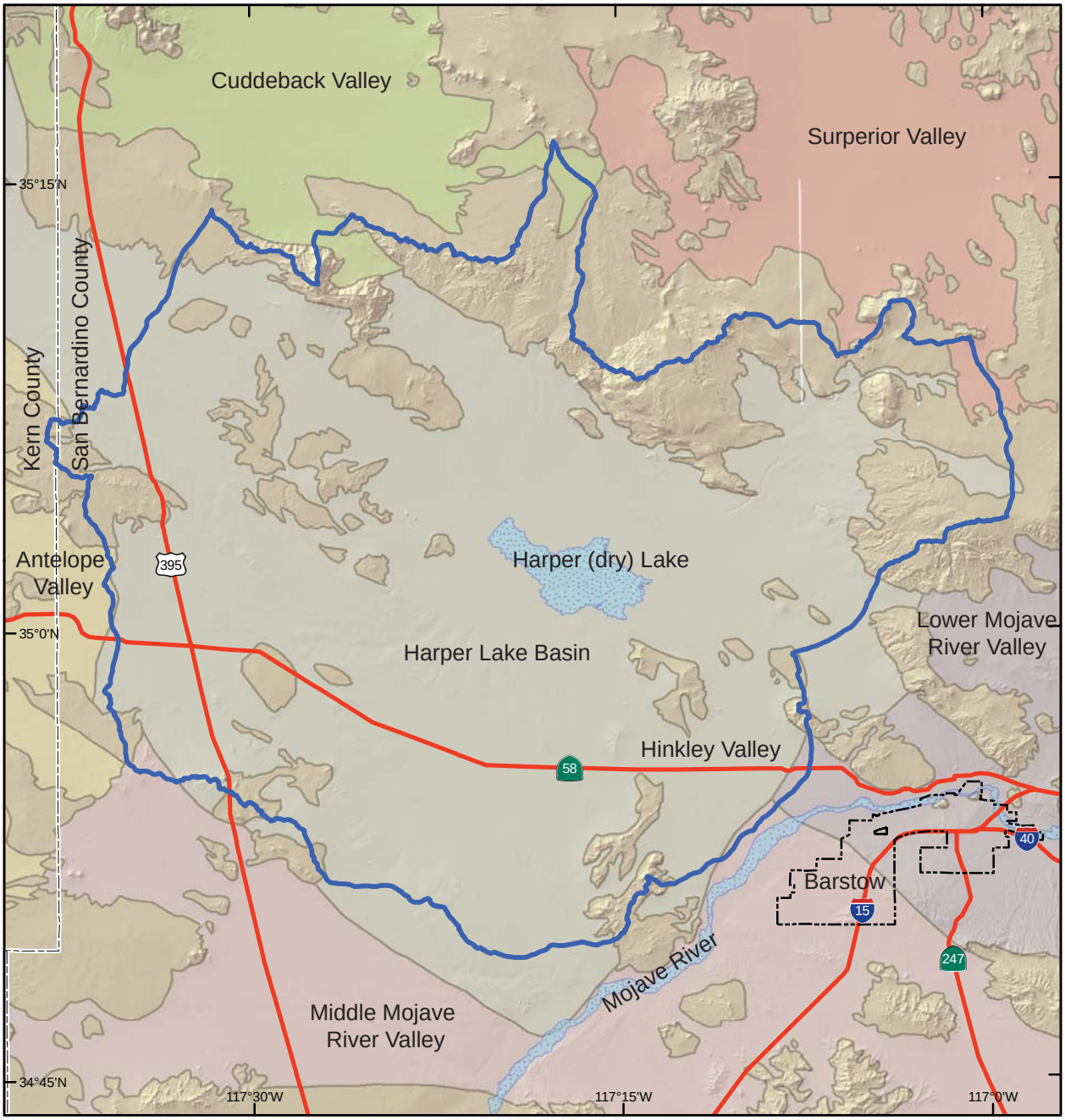


0 2.5 5 10 Miles

Legend

- Harper Lake Basin
- County Boundary
- City Boundary
- Major Highway

Figure 1: Harper Lake Basin location map.



Legend

- Harper Lake Basin
- County Boundary
- City Boundary
- Major Highway
- Ephemeral Water Body

0 2.5 5 10 Miles

Figure 2: Harper Lake Groundwater Basin map.

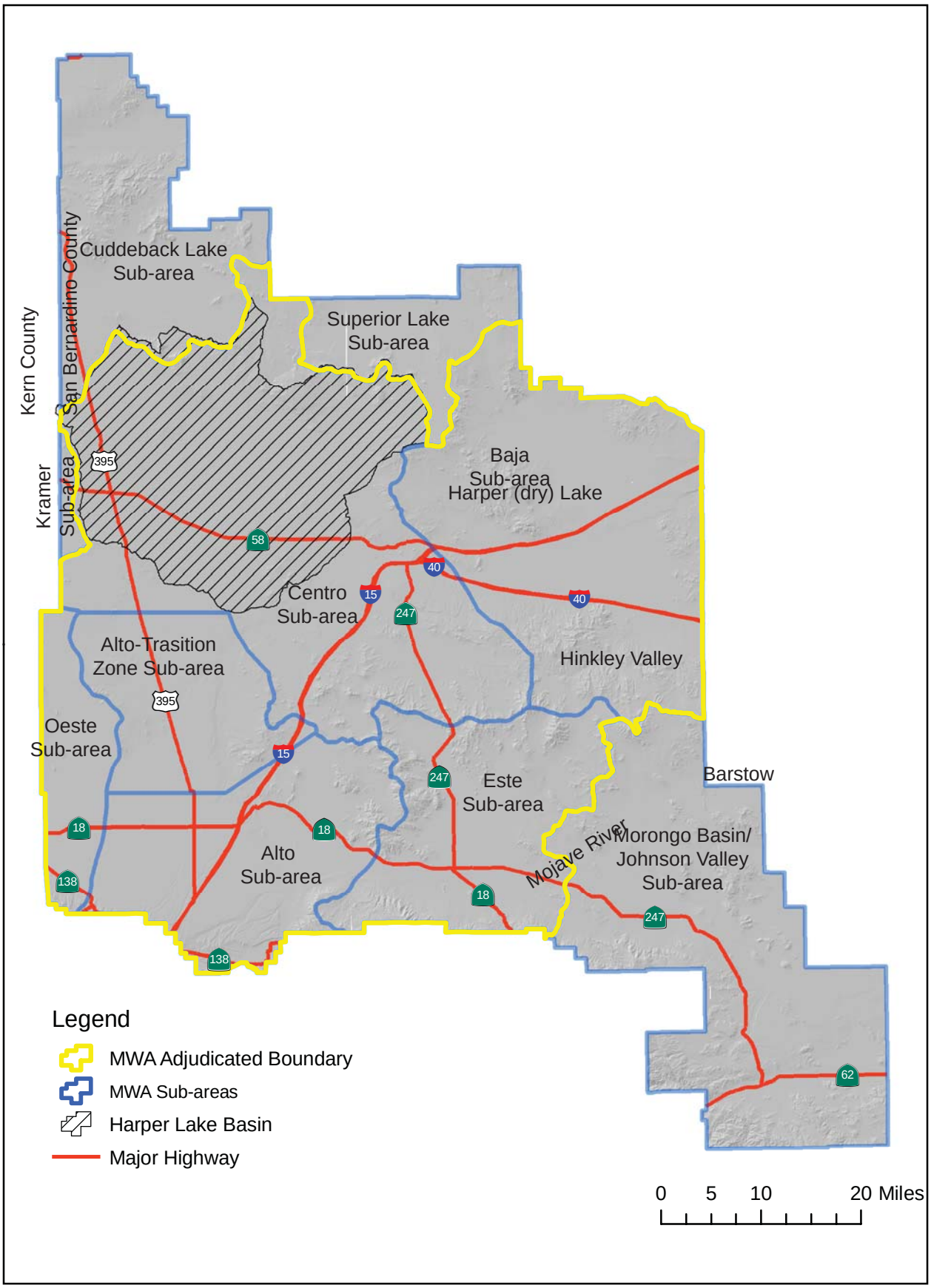


Figure 3: Mojave Water Agency Sub-areas.

2.2 Previous Studies

Previous studies in Harper Lake Basin include geologic mapping and investigations of the hydrology, hydrogeology, and paleohydrology of the region. An initial study of the basin began with Thompson (1929) of the United Sates Geological Survey (USGS), who conducted a survey of desert watering places in the Mojave Desert region. Additionally, Thompson gathered preliminary information on the geography, geology, and hydrology of the Harper Lake Basin region. More complete hydrologic and hydrogeological assessments in the Mojave Desert region began again in the 1960's with the Department of Water Resources (DWR) (1960a; 1960b; 1964; 1967; 1971; 1979) and have continued to be updated by DWR (1980; 2003) along with other agencies and groups (MWA, 1983; The Mark Group, 1989). Previous studies in the basin are summarized in the Table 1: Previous studies in the Harper Lake Basin.

Table 1. Previous studies in Harper Lake Basin.

Author/ Date	Topic(s)
Thompson (1929)	USGS early reconnaissance of the geographic, geologic, and hydrologic conditions of the Mojave Desert region.
DWR (1960a; 1960b; 1964; 1967; 1971; 1975; 1979; 1980; 2003)	Hydrogeologic reports for the Mojave River Basin and South Lahontan Region Board. Intended for the need of reliable information on water resources.
Dibblee (1958; 1960a; 1960b; 1960c; 1968)	Geologic maps of the Rogers and Kramer Lake, Fremont and Opal Mountain, Barstow, Hawes, and Boron Quadrangles.
Page and Moyle (1960)	Data collected by the USGS in cooperation with DWR for the investigation of water wells and general hydrologic conditions throughout the Mojave desert. Includes the eastern half of Harper Lake Basin.
Mojave Water Agency (1983)	Review of current and historic groundwater conditions in the Mojave River area and determine the Harper Lake Basins' interaction with other basins along the Mojave River.
The Mark Group (1989)	Investigation of hydrogeologic conditions in the Harper Lake Basin to evaluate long-term feasibility of withdrawing groundwater for the LUZ solar energy plant.
Reynolds and Reynolds (1994) Enzel et al. (2003)	Geologic research suggesting a paleohydrologic connection between Harper (dry) Lake and the Mojave River during the Pleistocene.
Sneed et al. (2003)	Cooperation between USGS and MWA involving the use of interferometric synthetic aperture radar to assess areas of groundwater depletion and the relationship of ground surface subsidence.

3.0 Geography

3.1 Physiography

Harper Lake Basin is typified by large mountain ranges surrounding the basin, with protruding hills of basement rocks exposed throughout the region. The watershed boundary encompasses approximately 678 mi^2 (1,756 km^2) with an elevation of 2,016 feet (ft) [614 meters (m)] at Harper (dry) Lake and 2,580 ft (786 m) on the Gravel Hills. Harper Lake Basin watershed is bordered to the northwest by the Fremont Peak and Gravel Hills, northeast by the Black Mountains, to the east by the Mud Hills and Mt. General, south by Iron Mountain, southwest by Harper and Kramer Hills, and to the west by low lying unnamed mountains which separate the basin from the Antelope Valley Groundwater basin (Fig. 1). Adjacent to the surrounding mountain fronts, low lying alluvial fans sweep into Harper (dry) Lake.

3.2 Climate (Temperature, Precipitation, and Evapotranspiration)

Harper Lake Basin is characterized by dry hot summers and cold winters with summer maximum temperatures averaging ~100°F and winter month maximum temperatures averaging ~35°F. Temperatures taken from a nearby Barstow fire station (WRCC, 2006) are displayed in Table 2: Average maximum and minimum temperature by month.

Precipitation within the Mojave Desert region is considered minimal (deserts are defined as arid regions that receive 10 in (25 cm) or less of rain per year (CALWATER, 1997). There are no weather stations located within the Harper Lake Basin watershed, and because Harper Lake Basin is roughly the same altitude as the nearby city of Barstow, precipitation data as well as temperature data are assumed to be relatively similar (Table 3: Precipitation average by month). Average yearly rainfall through Harper Lake Basin is approximately 5.2 in (13.2 cm) (Figure 4: Harper Lake Basin precipitation and evapotranspiration map).

Harper Lake Basin watershed resides within two evapotranspiration (ETo) zones: High Desert Valleys (Zone 17) and Mid-Central Valley and the Southern Sierra Nevada, Tehachapi, and High Desert Mountains (Zone 14) (Fig. 4). The amount of water lost due to evaporation and transpiration for stations located in Barstow is shown on (Table 4: Barstow average evapotranspiration by month). Peak loss is during the months of June and July with an average yearly loss of 68.0 in (172.2 cm) (CIMIS, 2007). Minimum ETo occurs during the months of December and January, with a minimum of 2.1 and 2.2 in (5.2 and 5.6 cm), respectively. Evaporation is considered to be negligible within the basin, although evaporation can occur when water ponds on dry lake surfaces or occurs through bare-soil evaporation (Stamos et al., 2001).

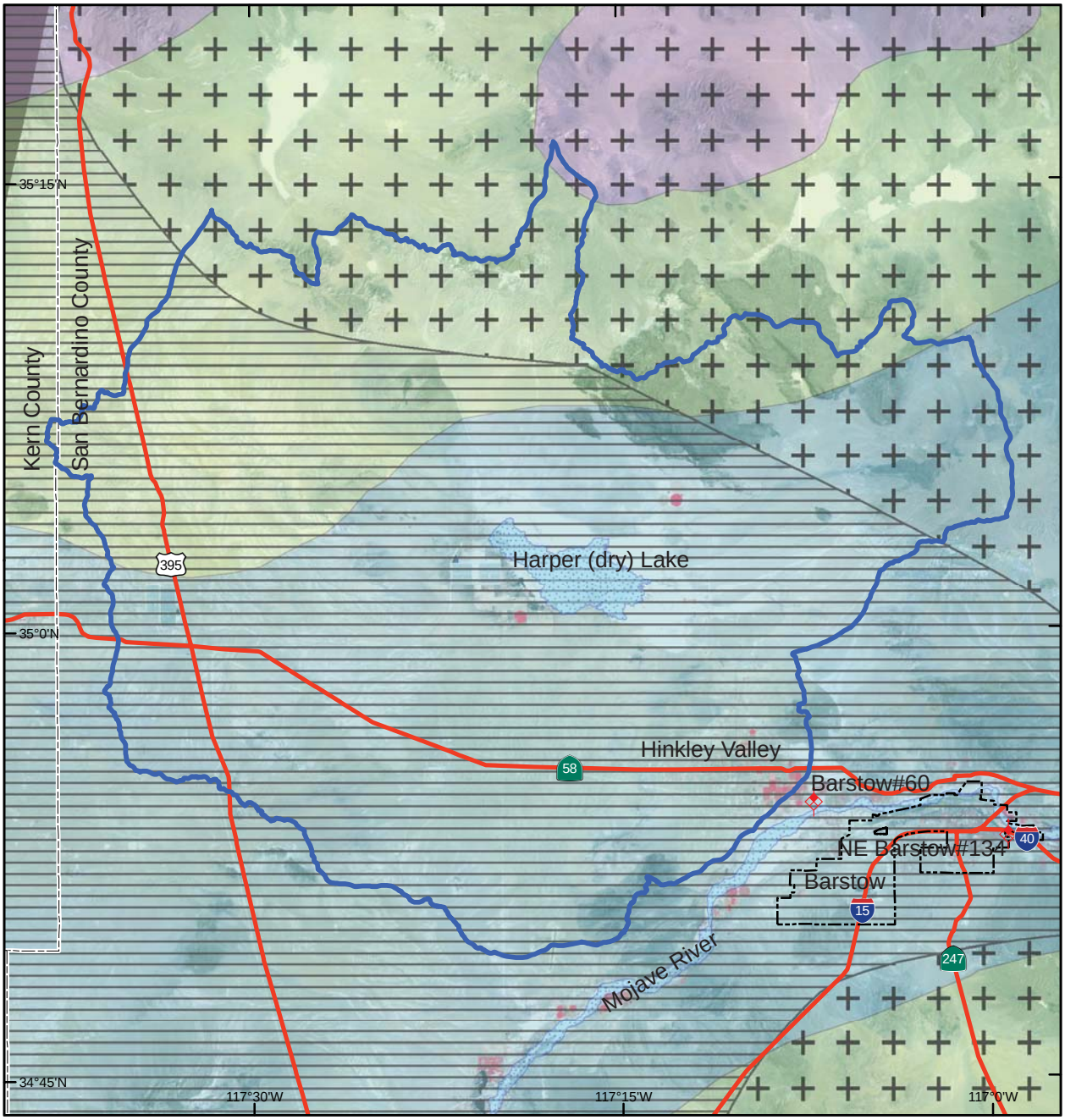
Table 2: Average maximum and minimum temperature by month (°F).													
Barstow – Fire Station (040521) Period of record: 05/01/1980 – 12/31/2005													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Max	61.0	64.8	70.7	78.5	86.4	96.3	101.7	100.7	93.8	82.5	68.5	59.6	80.4
Min	34.5	37.9	42.5	48.4	54.8	62.6	68.4	67.5	61.0	51.1	40.6	33.4	50.2

Table 3: Precipitation average by month (in).												
Bartow - Fire station (040521) Period of record: 05/01/1980 – 12/31/2005												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0.83	0.99	0.72	0.2	0.1	0.06	0.34	0.27	0.33	0.32	0.44	0.55	5.16

Table 4: Barstow average evapotranspiration by month (in).												
Barstow CIMIS Station # 60 Period of Record: 11/20/1986 - 02/20/1992												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2.24	3.01	5.18	6.44	8.26	9.20	9.52	8.16	6.37	4.69	2.83	2.08	67.98
Barstow NE CIMIS Station # 134 Activated on January 08, 1997												
2.20	3.09	5.13	6.61	8.18	9.21	9.40	8.18	6.38	4.76	2.83	2.07	68.04

3.3 Surface Water

Streams and lakes within the Harper Lake Basin are considered ephemeral. There are no perennial streams or rivers that enter or leave the Harper Lake Basin. Surface flow into the basin is largely from storm runoff from adjacent mountain areas during periods of heavy rain. Runoff from surrounding mountains drain through small channels and washes contributing to the local groundwater table or continue to flow towards Harper (dry) Lake. The estimated annual runoff into Harper Lake Basin is approximately 550 acre-feet/yr and this constitutes about 5% of the total water supply into Harper Lake Basin (DWR, 1967). Water collecting on the dry lake surface may evaporate and/or slowly infiltrate into the underlying semi-impermeable materials. Although the Mojave River is directly adjacent to the Harper Lake Basin watershed divide, the modern Mojave River does not appear to drain into the Harper Lake Basin watershed. However, during the Pleistocene, several pluvial lake high stands (including Harper Lake) have been noted based on ostracod assemblages and geomorphic evidence (Reynolds and Reynolds, 1994; Enzel et al., 2003).



Legend

- Harper Lake Basin
- County Boundary
- City Boundary
- Major Highway
- Ephemeral Water Body
- ETo Station

Evapotranspiration Zones

- High Desert Valleys (Zone 17)
- High Desert Mountains (Zone 14)

Precipitation (in)

3.5 4.5 6.5

0 2.5 5 10 Miles

Figure 4: Harper Lake Basin precipitation and evapotranspiration map.

3.4 Vegetation

Characteristic of arid regions and dominant in most of the Mojave Desert is vegetation described as "desert scrub." These plants are considered xerophytes, having physically adapted to the harshness of the desert by storing and conserving water. On the alluvial slopes of Harper Lake Basin, "desert scrub" is the characteristic plant (Figure 5: Harper Lake Basin vegetation map). Thompson (1929) provides a more detailed description of vegetation in the region indicating that proper salt grass is abundant around the dry lake area, and rabbit brush grows abundantly in the outer part of the salt-grass zone in the southeast end of the basin. Rabbit brush is considered to indicate the groundwater lies within 10 to 15 ft (3 to 5 m) below ground surface (Thompson, 1929).

3.5 Land Use and Population

Land use in the Harper Lake Basin is designated as private, state or federal (Figure 6: Harper Lake Basin land ownership map). The majority of land use is classified as private, with residents clustered near the central basin as well as individual private plots scattered throughout the basin. Since no actual city or community exists within the boundaries of the study area, population data is unavailable.

In the early 1900's small alfalfa farms and ranches did persist (Thompson, 1929). Since the demise of these farms and ranches in the 1990's, the Bureau of Land Management (BLM) had stepped in to help create the "Watchable Wildlife Area" located in the southern end of Harper (dry) Lake. The intentions of BLM are to bring back and sustain a protected wildlife sanctuary artificially, by pumping water into a 60 acre area of the dry lake.

In 1990 and 1991 the LUZ Development and Finance Corporation built two 80 megawatt solar energy plants along the edge of Harper Lake. LUZ Corp planned to construct three additional solar fields in the Harper Lake area until becoming bankrupted in late 1991. Currently the solar plants are operation and owned by a subsidiary of Florida Power and Light Company. As of 2007 plans are still in the works to expand this solar energy plant.

4.0 Geology

4.1 Stratigraphy and Lithology

Geologic units of Harper Lake Basin are shown on Plate 1: Harper Lake Basin composite geologic map and Figure 7: Harper Lake Basin water-bearing and non-water-bearing rocks). Deposits such as dune sand, alluvium and older alluvium, some volcanic units and Tertiary sediments are considered to be water-bearing. Water-bearing sediments are unconsolidated to semi-consolidated alluvial deposits that are Quaternary in age, continental in origin, and comprised of materials that range in size from coarse gravel to clay. These sediments tend to be more consolidated with depth, commonly exhibit cementation in the older formations.

Interspersed within and overlying these sediments are volcanic deposits that are non-water-bearing (DWR, 1967). The crystalline basement complex, consisting of pre-Tertiary igneous and metamorphic rocks, surrounding and underlying the basin, is also classified as non-water-bearing (DWR, 1967). The following descriptions of Harper Lake Basin deposits are derived from Dibblee (1958, 1960a, 1960b, 1960c, 1968) and DWR (1967).

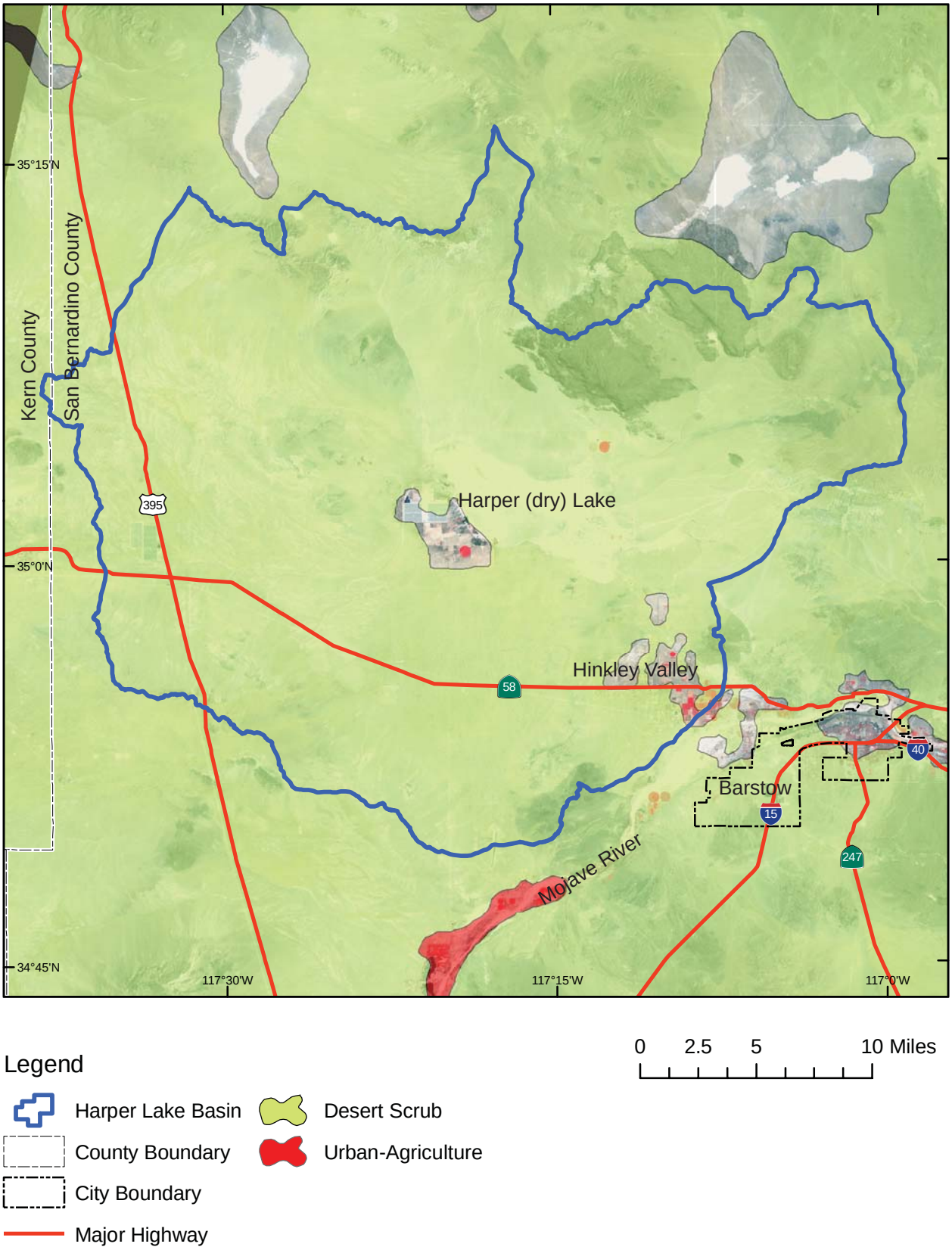


Figure 5: Harper Lake Basin vegetation map.

Legend

- Harper Lake Basin
- County Boundary
- City Boundary
- Major Highway
- BLM
- DOD
- Private
- State
- State Wildlife Preserve

0 2.5 5 10 Miles

Figure 6: Harper Lake Basin land ownership map.

Legend

- Harper Lake Basin
- County Boundary
- City Boundary
- Major Highway
- Bedrock
- Faults
  - Known, approximate, inferred

0 2.5 5 10 Miles

Figure 7: Harper Lake Basin water-bearing and non-water-bearing rocks map.

Playa Deposits: Playa deposits underlie the surface of Harper (dry) Lake. These sediments are composed of clays, silts, and fine sands that range in thickness from a few feet to about 25 ft (8 m), generally have a low permeability, and tend to yield little water to wells.

Dune Sand: Dune sands are present within the playa, as well as on the northeastern, eastern, southeastern, and southern boundaries of Harper (dry) Lake. These deposits overly the playa deposits as well as small areas of alluvium and range in thickness from a few feet to as much as 35 ft (11 m). The dunes are porous, permeable, and suitable for groundwater storage, but today the water table lies below these deposits.

Alluvium: Alluvium occurs as a veneer overlying much of the older material in Harper Lake Basin. These deposits are juxtaposed against the playa deposits and extend out from the playa and to the base of the surrounding mountains and hills. The materials composing these deposits range in size from fine-to coarse-sands, and silts with minor amounts of gravels and clays. Alluvium that ranges in thickness from a few inches to approximately 100 ft (30 m) usually yields less than 300 gallons per minute (gpm), and are primarily above the existing water table, or are partially saturated.

Older Alluvium: Older alluvium is found in the areas northwest, west, southwest, and south of the playa. There are small wedge shaped exposures of older alluvium juxtaposed against Black Mountain northeast of the playa. The unconsolidated to moderately consolidated deposits are interbedded gravel, sand, silt, and clay. The deposits are weathered and some cementation has developed, usually in the form of caliche (DWR, 1967]. The older alluvium ranges in thickness from a few inches to approximately 1,000 ft (305 m) and contains the major portion of groundwater in storage within Harper Lake Basin. This formation generally yields water freely to wells.

Quaternary Basalts: Outcrops of Quaternary volcanic rocks with thicknesses ranging from a few inches to about 265 ft (81 m) are located in the Black Mountain area north of Harper (dry) Lake. The dominant rock type is basalt and scoriaceous tuff. The basalts occur as vesicular dikes and flows, associated with some cinders.

Tertiary Sedimentary and Volcanic Rocks: Tertiary sedimentary deposits are scattered throughout the Harper Lake Basin. These units are dominated by clay, shale, sandstone, breccias, and conglomerates as well as limestone and dolomite. Tertiary volcanics, such as tuffs, basalts, and volcanic breccias of the Tropico Group are present in Black Mountain, Mud Hills, and Kramer Hills.

Basement Complex: The basement complex contains lithology from various gneisses, marbles, and quartzites. These units comprise most of Iron Mountain and the southern Mitchell Range and are also present in Fremont Peak. Pegmatite dikes, quartz diorite, Leucocratic quartz monzonite, and quartz monzonite dominate the Mesozoic dikes and plutonic rocks located within the Harper Lake Basin. The Opal Mountains, Kramer Hill, and The Buttes are comprised of most of these units. The Hodge Volcanic series of Bowen (1954] form the southeast boundary of

the basin. The Hodge Volcanic series is comprised mainly of Paleozoic andesite and rhyolite type volcanics intruded by Mesozoic aged dikes and plutons.

4.2 Harper Lake Basin Faults

The predominant structural features of the Harper Lake Basin includes a set of northwest trending, right-lateral, strike-slip faults: the North and South Lockhart faults, Harper Lake Basin fault zone, Harper Lake fault, Blackwater fault, as well as several smaller faults (Plate 1). These faults comprise the western expression of the Eastern California Shear Zone (Dokka and Travis, 1990a; 1990b). Late Quaternary surface ruptures have occurred on the Harper Lake fault (SCEC, 2007). Both the North Lockhart and the South Lockhart have undergone surface rupture in the last 1,000 years. The North Lockhart fault has had Holocene (near fault center), late Quaternary (northwest of fault center), Quaternary (southeast of fault center) age surface rupture (SCEC, 2007). The South Lockhart fault has had Holocene age surface rupture along most of its length (SCEC, 2007). The Lockhart fault zone is documented to impede and affect groundwater flow (DWR, 1967). This northwest-southeast trending fault extends northwest from the southwest flank of the Fry Mountains 70 mi (113 km) to the northwest of Harper Lake Basin. Although the lack of water wells in Harper Lake Basin precludes quantitative estimates of this impediment, the higher water table level southwest of the fault suggests the fault impedes groundwater flow. Groundwater level data for wells adjacent to the Lockhart fault in the Harper Lake basin are shown in Table 5: Water level data for wells adjacent to the Lockhart Fault.

Table 5: Water level data for wells adjacent to the Lockhart Fault.

State well number	Date of Measurement	Depth of Well (ft)	Depth to water (ft)	Elevation of water in well (ft amsl)
Southwesterly of the Lockhart Fault				
10N04W01P01	1/7/1959	789	18	2,007
Northeasterly of the Lockhart Fault				
10N04W04C01	5/27/1959	419	160	1,940
10N04W06A01	5/19/1959	250	250	1,870
10N04W10A01	5/20/1959	325	187	1,933

5.0 Groundwater

5.1 Aquifer Description

Quaternary lacustrine and alluvial deposits, including unconsolidated younger alluvial fan material, and unconsolidated to semi-consolidated older alluvium, are the dominant aquifer materials. Thickness of the main aquifer ranges from 300 to 530 ft (91 to 162 m), gradually thinning and becoming interbedded with layers of silty clay toward the middle of the basin (DWR, 1964; Bader, 1969; The Mark Group, 1989) (Plate 1). Younger alluvium generally lies above the groundwater surface, whereas the older alluvium extends beneath the groundwater table (DWR, 1971). Groundwater in the basin is generally unconfined, although confined

conditions are found near Harper (dry) Lake where the aquifer splits into two or more distinct aquifers (DWR, 1971). Other aquifer units are composed of fanglomerates and sandstone, and are separated by volcanic units in regions lying beneath Harper (dry) Lake.

5.2 Groundwater Level Trends

Groundwater level trends for Harper Lake Basin were determined using 377 water wells (Figure 8: Harper Lake Basin groundwater well locations). From the 377 wells, and over a time period of approximately 80 years, 2,464 records were analyzed and broken into four separate hydrograph units (Fig. 8). The hydrograph units were distinguished based on each well's geographic location, as well as the observed groundwater level trends (Figure 9: Harper Lake Basin groundwater hydrographs and Figure 10: Harper Lake Basin groundwater hydrographs from 1990 to 2006). For example, groundwater level trends within the Harper Lake Basin Center region appear to respond differently to stresses within the system than do other hydrograph units. Varying response of groundwater levels within the respective hydrograph regions can be attributed to several factors. Most notably, large groundwater pumping rates in the Harper Lake Basin Center region did not reach, or affect levels in the Harper Lake Basin Northeast wells. This may suggest the presence of a groundwater barrier or an impediment to groundwater flow (e.g., impermeable material or hydrogeologic boundary) within this region.

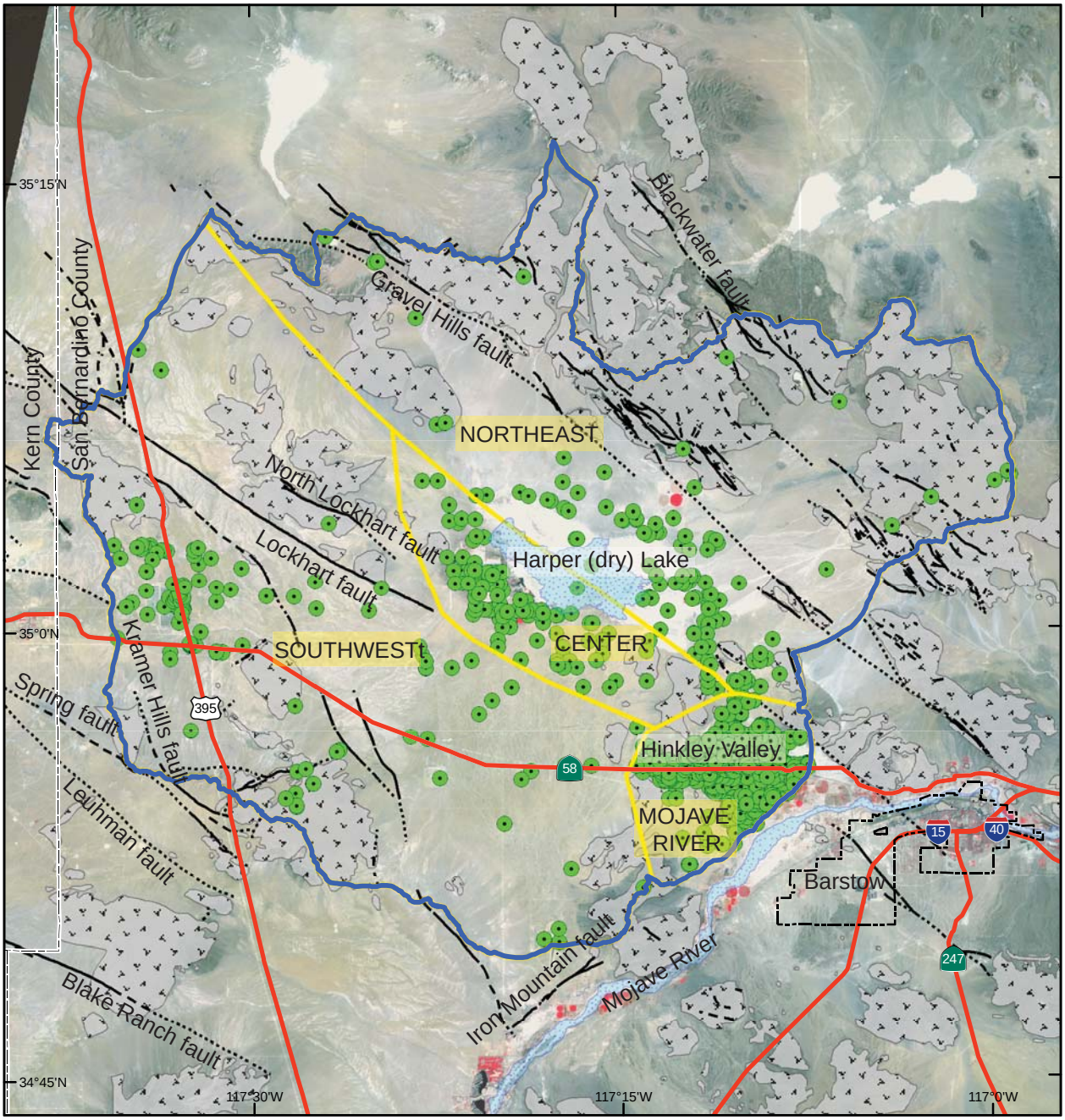
<u>Harper Lake Basin Mojave River:</u> A total of 214 wells and 1,113 records were used in analysis of this hydrograph region. Water levels ranged from a minimum elevation of 2,000 (yr 2000) to over 2,220 ft above mean sea level (amsl) (yr 1945) (610 to 677 m amsl) (Figure 11: Harper Lake Basin Mojave River groundwater hydrographs and Figure 12: Harper Lake Basin River groundwater hydrographs from 1990 to 2006). Based on the geographic location of this hydrograph region, water levels were observed to have the greatest fluctuation over the past few decades. The most dramatic decline happened during the late 1950's, with the majority of the wells showed 30 to 40 ft (9 to 12 m) of drawdown or decline. During the early 1980's water levels rebounded, but in the past several years several water levels have shown a greater than 100 ft (30 meters) decline. This coincides with a local dry period in the southwest United States (Meko and Woodhouse, 2005; Sud et. Al, 2003; Miao et. al, 2007).

<u>Harper Lake Basin Southwest:</u> A total of 29 wells and 269 records were used in analysis of this hydrograph region. Water levels ranged from a minimum elevation of 1,999 (yr 1997) to over 2,766 ft amsl (yr 1971) (609 to 843 m amsl) (Figure 13: Harper Lake Basin Southwest groundwater hydrographs and Figure 14: Harper Lake Basin Southwest groundwater hydrographs from 1990 to 2006). Water levels in this portion of the basin have remained steady since 1945. Few wells exist in this area and recharge appears to be limited.

<u>Harper Lake Basin Center:</u> A total of 63 wells and 571 records were used in analysis of this hydrograph region. Water levels ranged from minimum elevation of 1,861 (yr 1987) to over 2,084 ft amsl (yr 1953) (567 to 635 m amsl) (Figure 15: Harper Lake Basin Center groundwater hydrographs and Figure 16: Harper Lake Basin Center groundwater hydrographs from 1990 to 2006). This portion of the basin shows a downward trend in water levels from the mid 1940's to the late 1980's with a decline of approximately 100 ft (30 m). There have also been brief periods from years 1958 to 1961 where groundwater level rise is observed. Levels over the past ten

years have risen more than 20 ft (6 m), but groundwater level monitoring has been limited. This area also represents the largest agricultural activities outside the Harper Lake Basin River hydrograph region.

Harper Lake Basin Northeast: A total of 71 wells and 511 records were used in analysis of this hydrograph region. Water levels ranged from a minimum elevation of 1,958 (yr 2004) to over 2,516 ft amsl (1933 yr) (597 to 767 m amsl) (Figure 17: Harper Lake Basin Northeast groundwater hydrographs and Figure 18: Harper Lake Basin Northeast groundwater hydrographs from 1990 to 2006). Water levels in this portion of the basin have seen a steady decline of over 50 ft (15 m) since the year 1930. A similar trend is seen in the Harper Lake Basin Center region**.** Highly fluctuating water levels were also observed during the late 1950's and early 1960's.



Legend

- Harper Lake Basin
- County Boundary
- City Boundary
- Well
- Major Highway
- Ephemeral Water Body
- Bedrock

Faults

Known, approximate, inferred

0 2 4 8 Miles

Figure 8: Harper Lake Basin groundwater well locations.

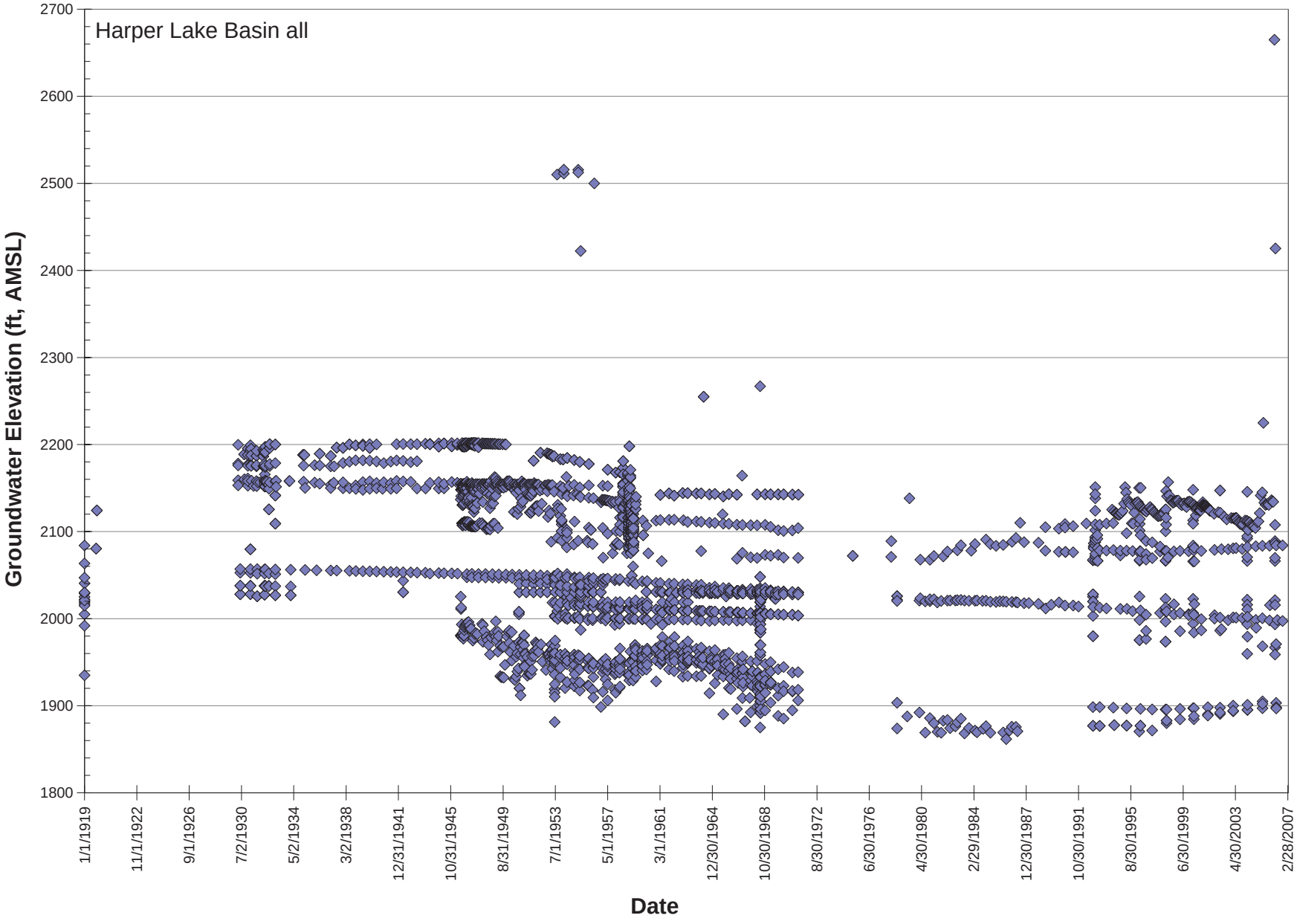


Figure 9: Harper Lake Basin groundwater hydrographs.

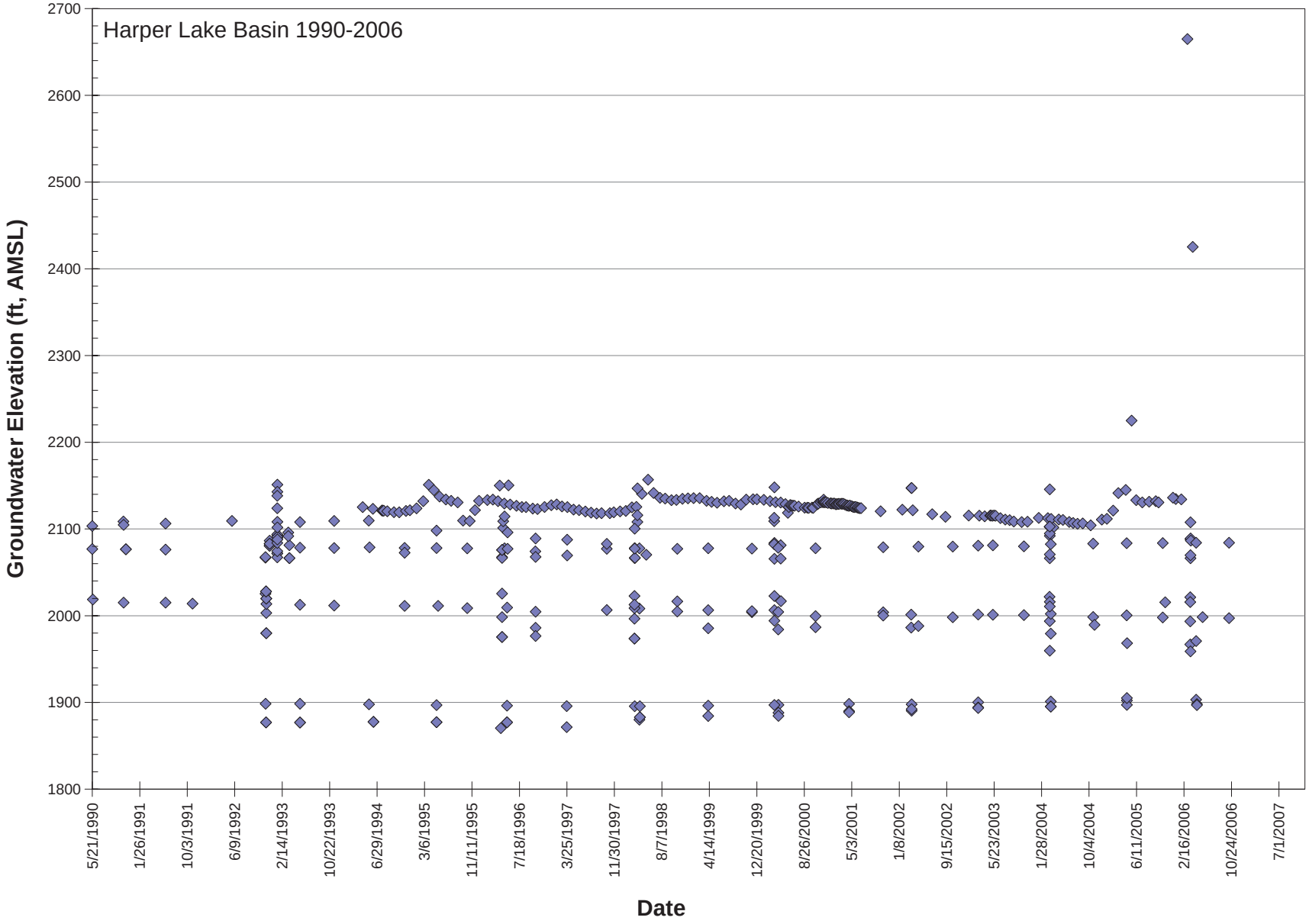


Figure 10: Harper Lake Basin groundwater hydrographs from 1990 to 2006.

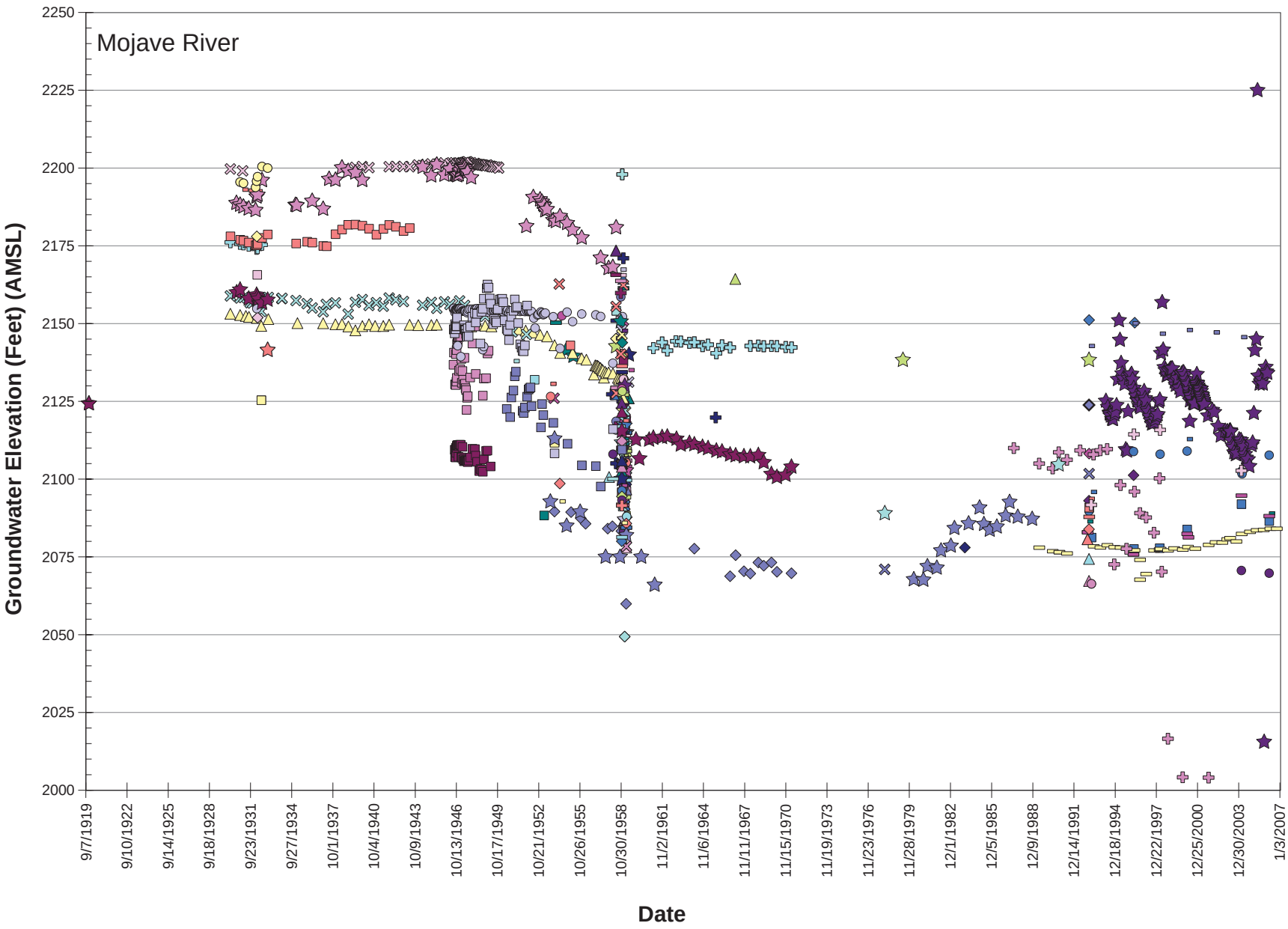


Figure 11a: Harper Lake Basin Mojave River groundwater hydrographs.

09N02W06M07S 09N03Q08J01S 09N03W01D01S 09N03W01E01S 09N03W01E02S 09N03W01E03S 09N03W02A01S 09N03W02C01S
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Figure 11b: Harper Lake Basin Mojave River groundwater hydrographs.

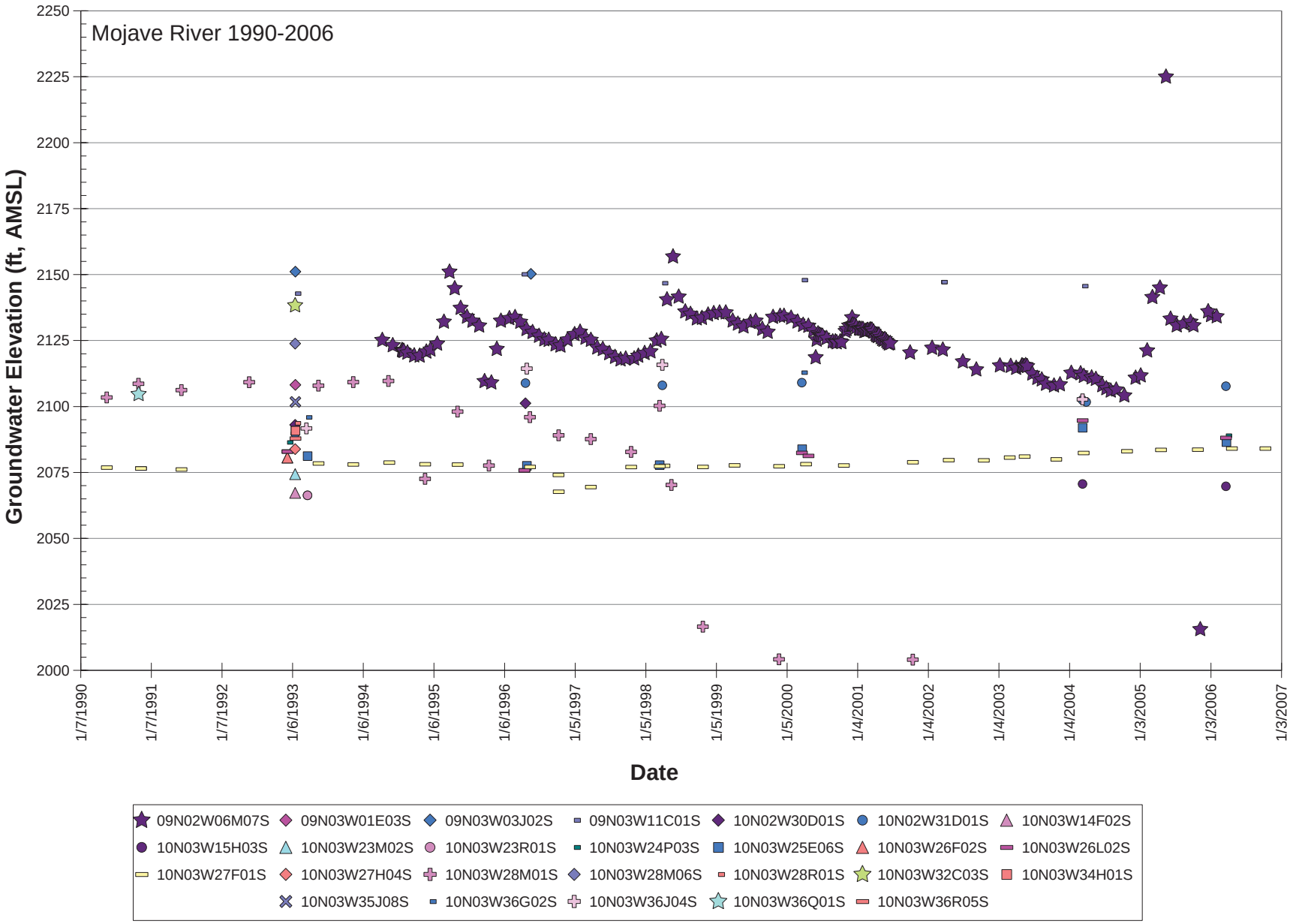


Figure 12: Harper Lake Basin Mojave River groundwater hydrographs from 1990 to 2006.

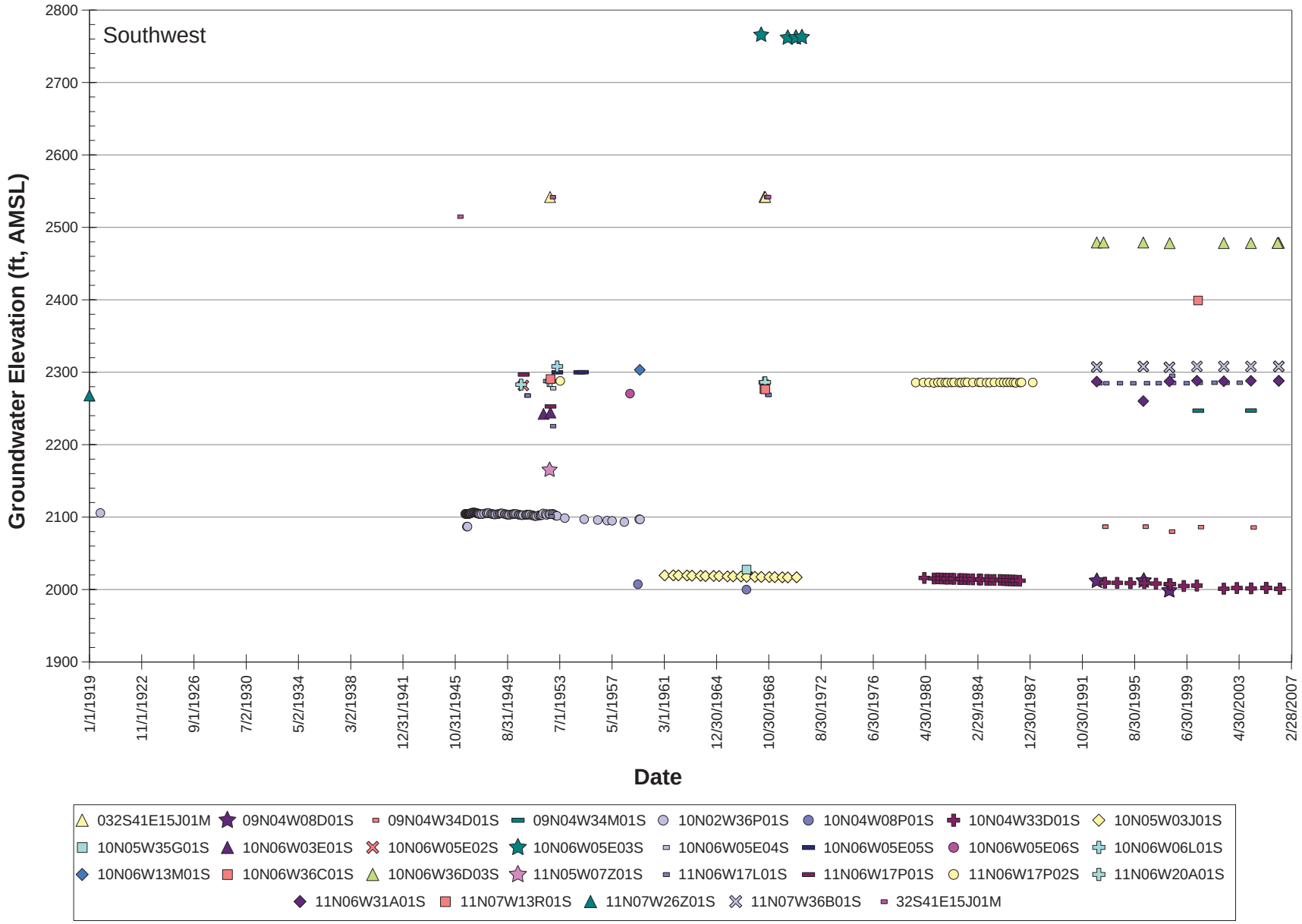


Figure 13: Harper Lake Basin Southwest groundwater hydrographs.

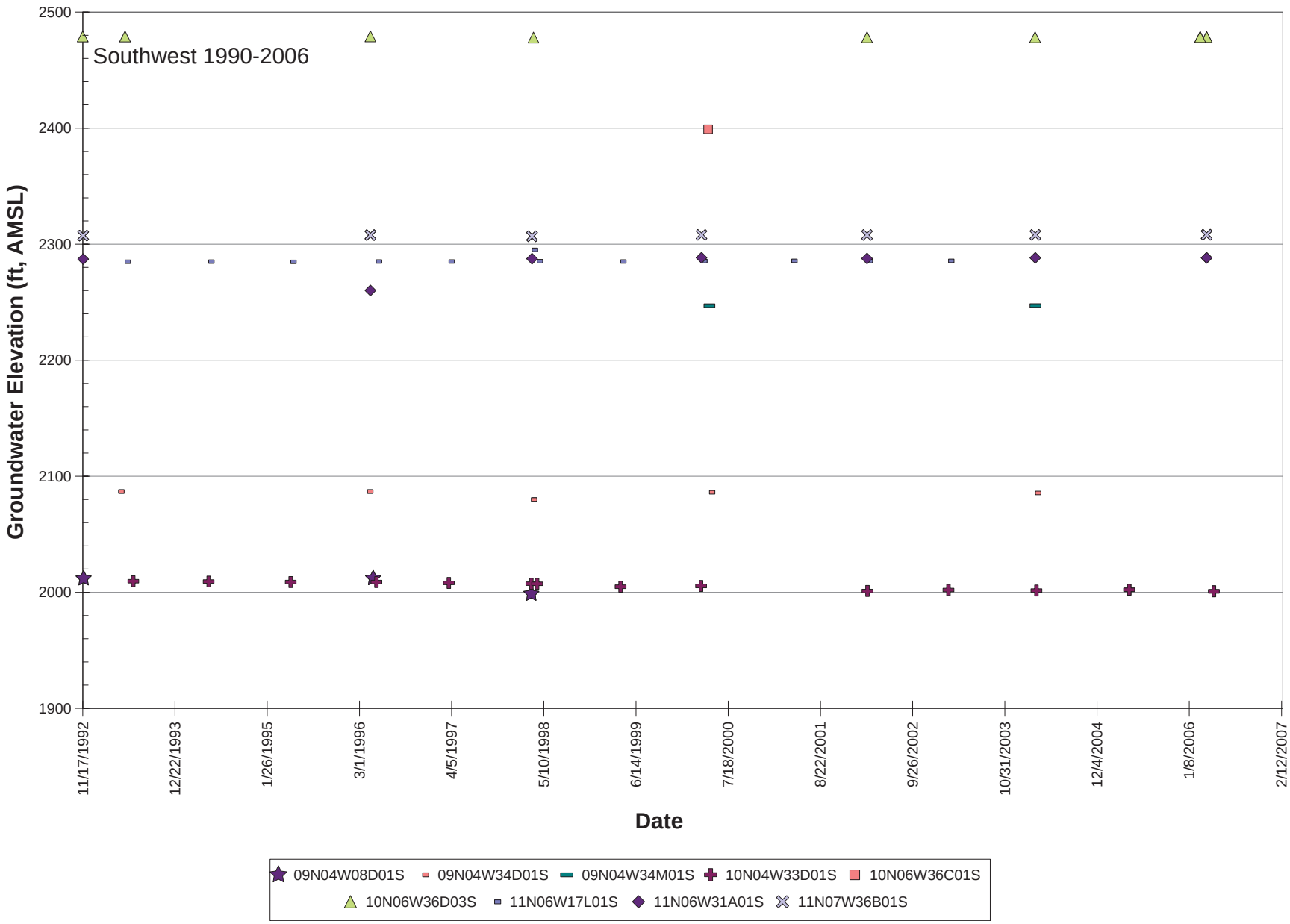


Figure 14: Harper Lake Basin Southwest groundwater hydrographs from 1990 to 2006.

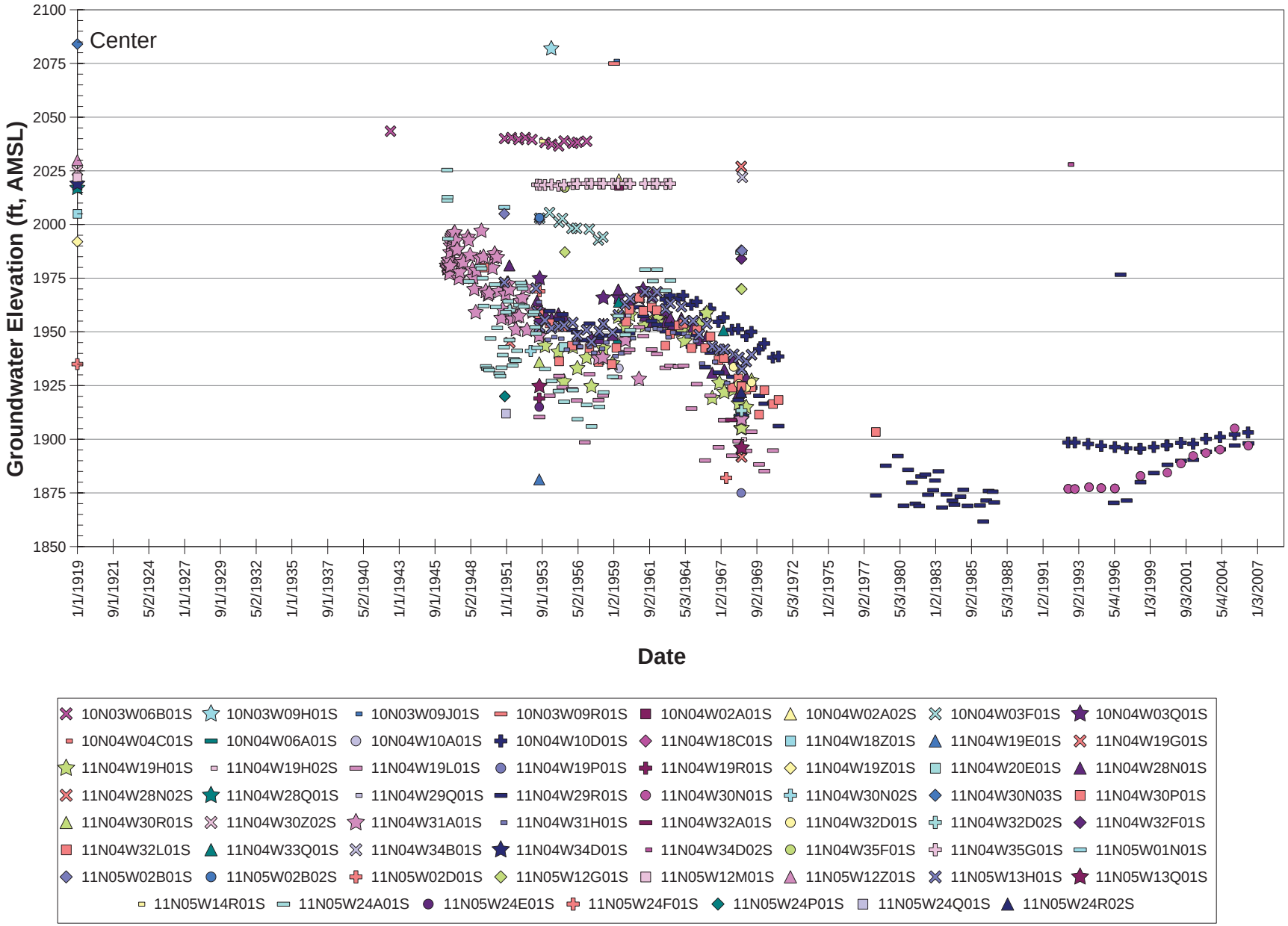


Figure 15: Harper Lake Basin Center groundwater hydrographs.

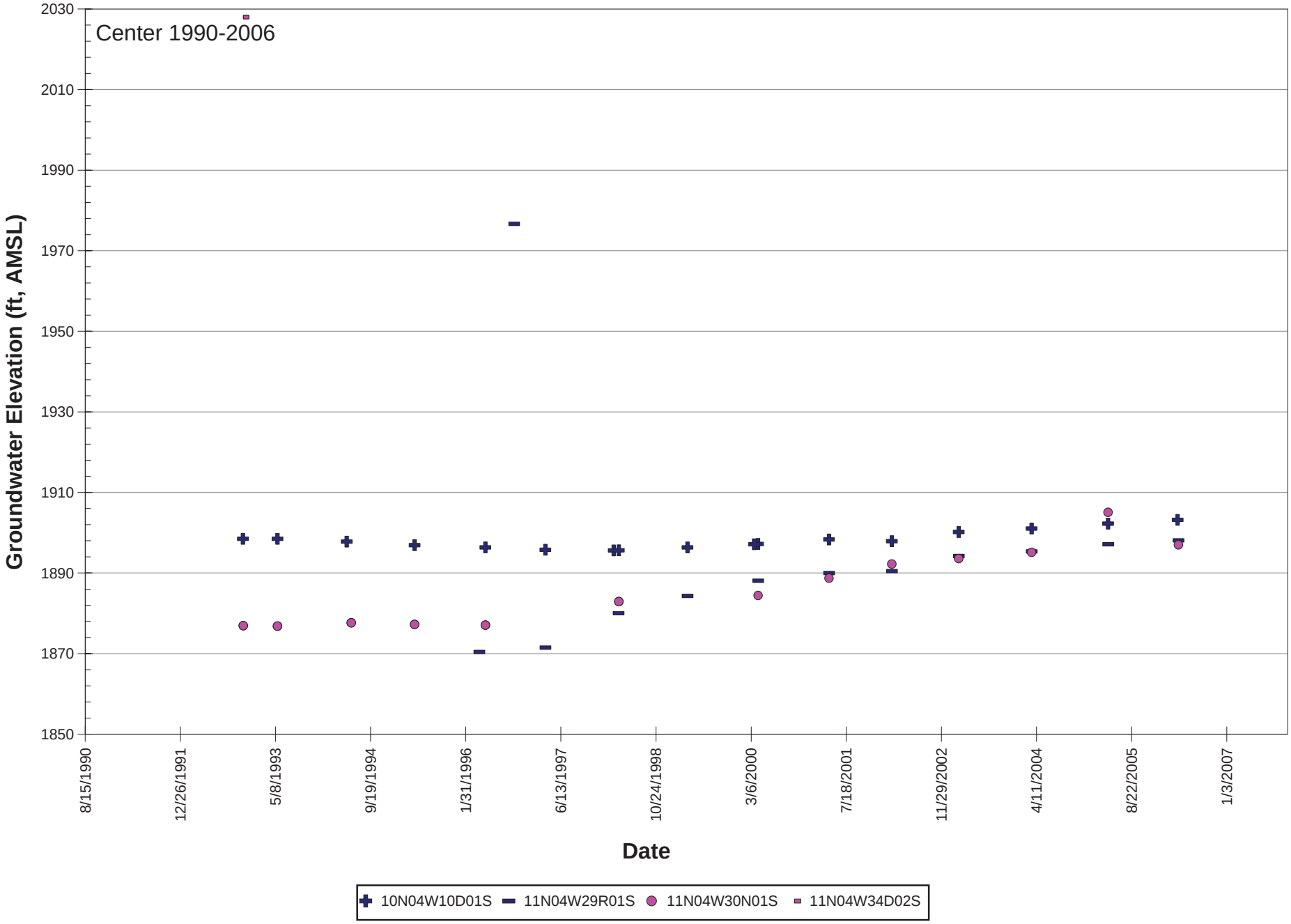


Figure 16: Harper Lake Basin Center groundwater hydrographs from 1990 to 2006.

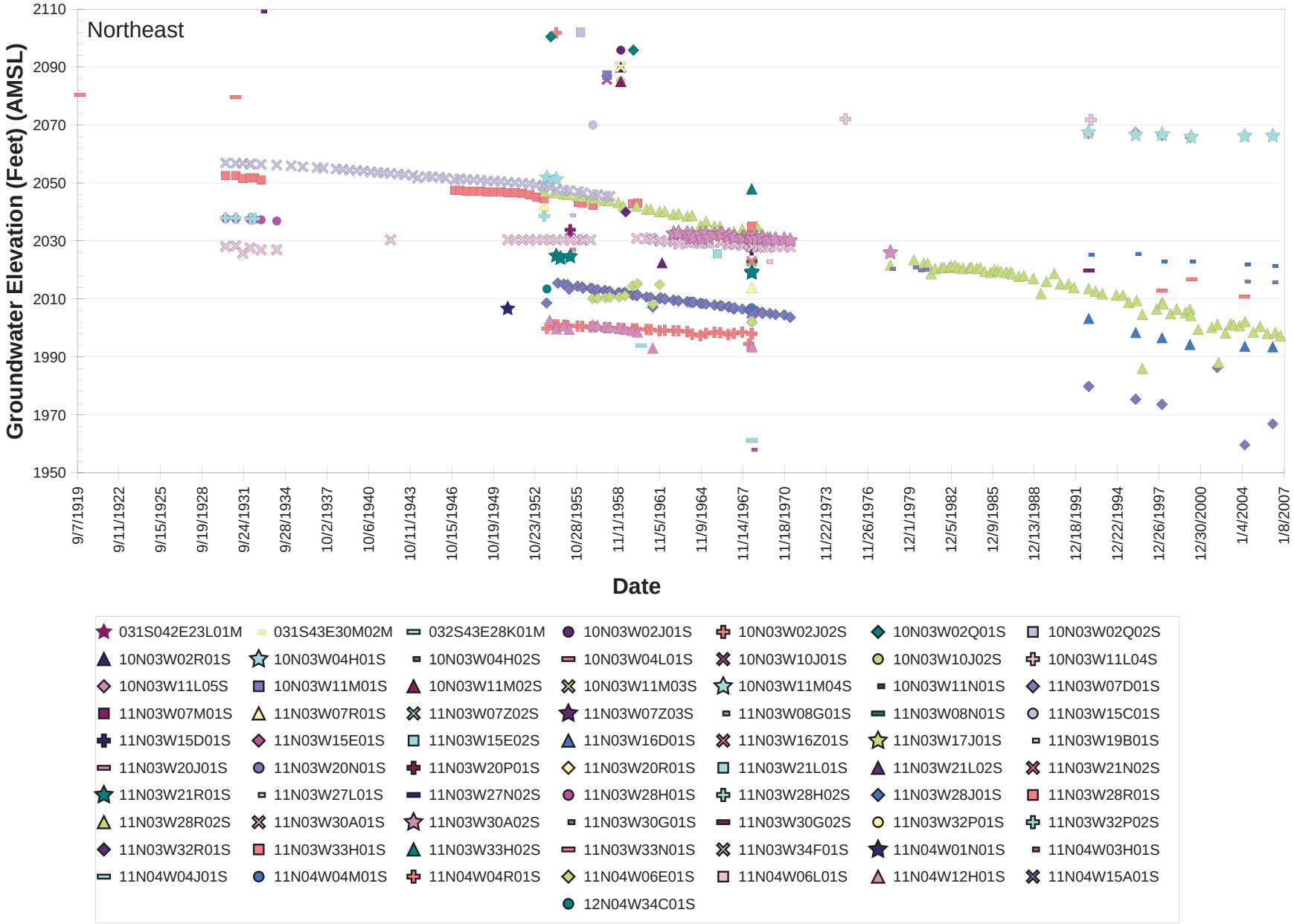


Figure 17: Harper Lake Basin Northeast groundwater hydrographs.

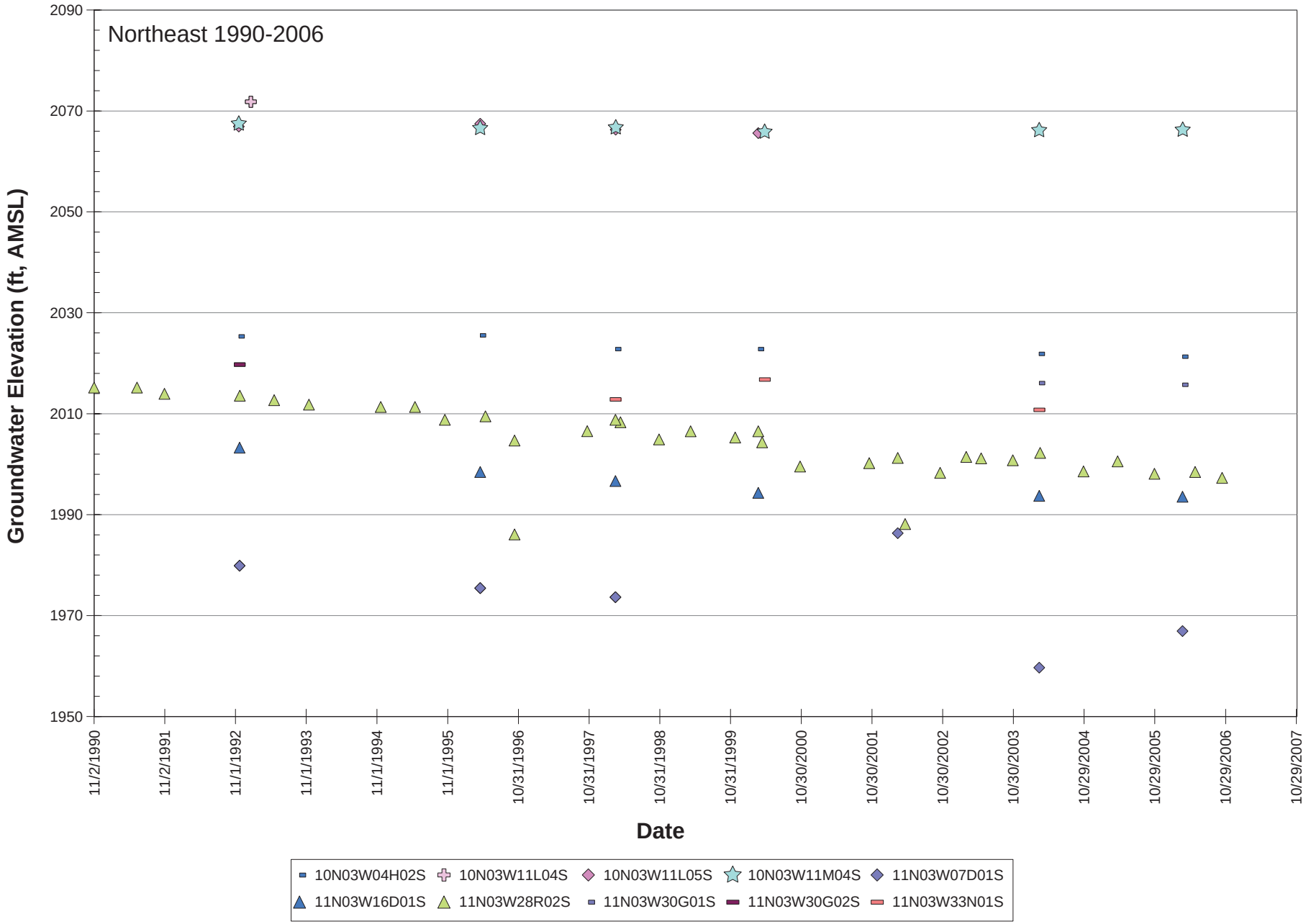
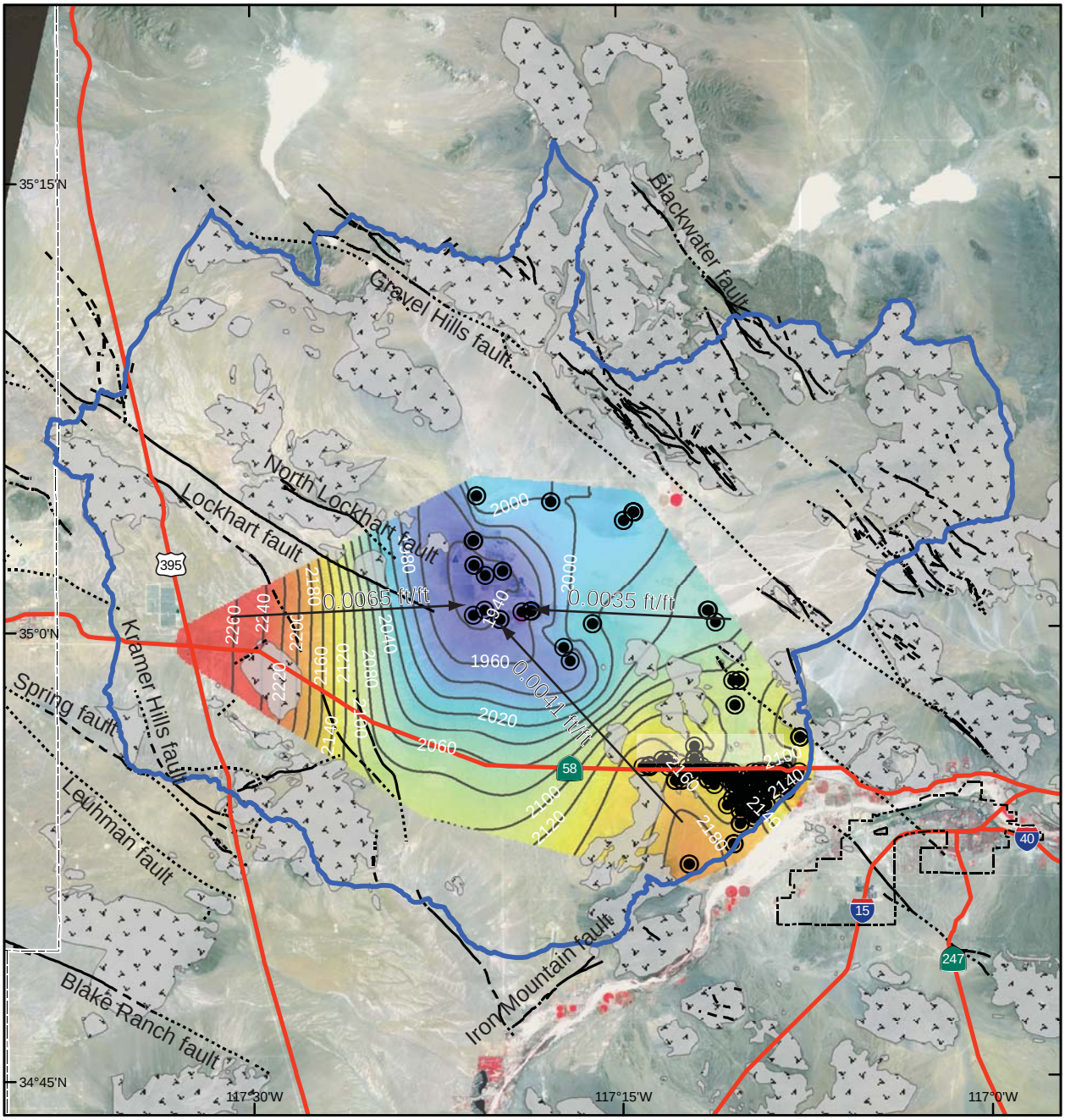


Figure 18: Harper Lake Basin Northeast groundwater hydrographs from 1990 to 2006.



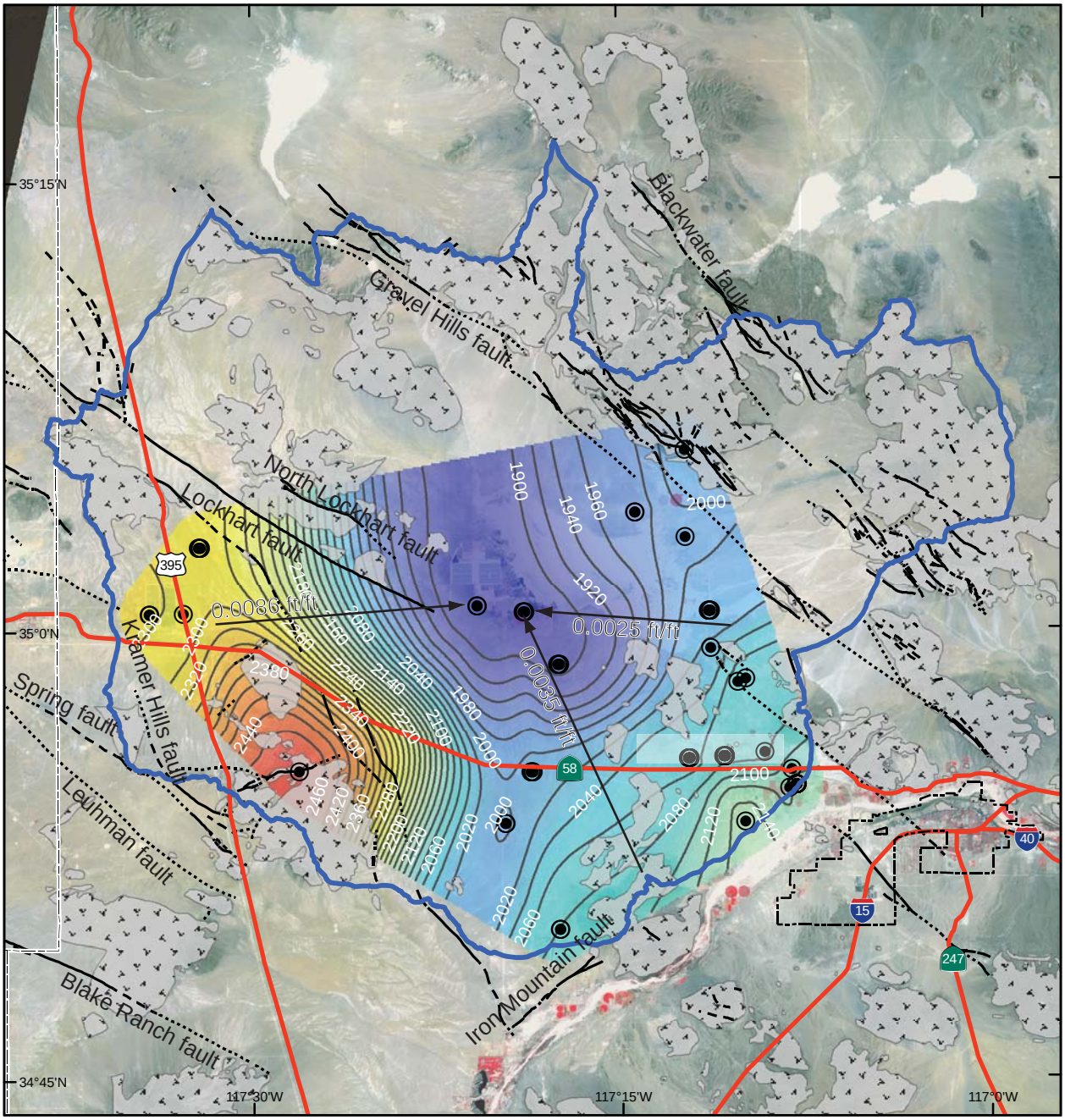
Legend

- Harper Lake Basin
- County Boundary
- City Boundary
- Well
- Major Highway
- Bedrock
- Faults

1958 Groundwater Elevation amsl

0 2.5 5 10 Miles

Figure 19: Harper Lake Basin groundwater elevation contour map 1958.



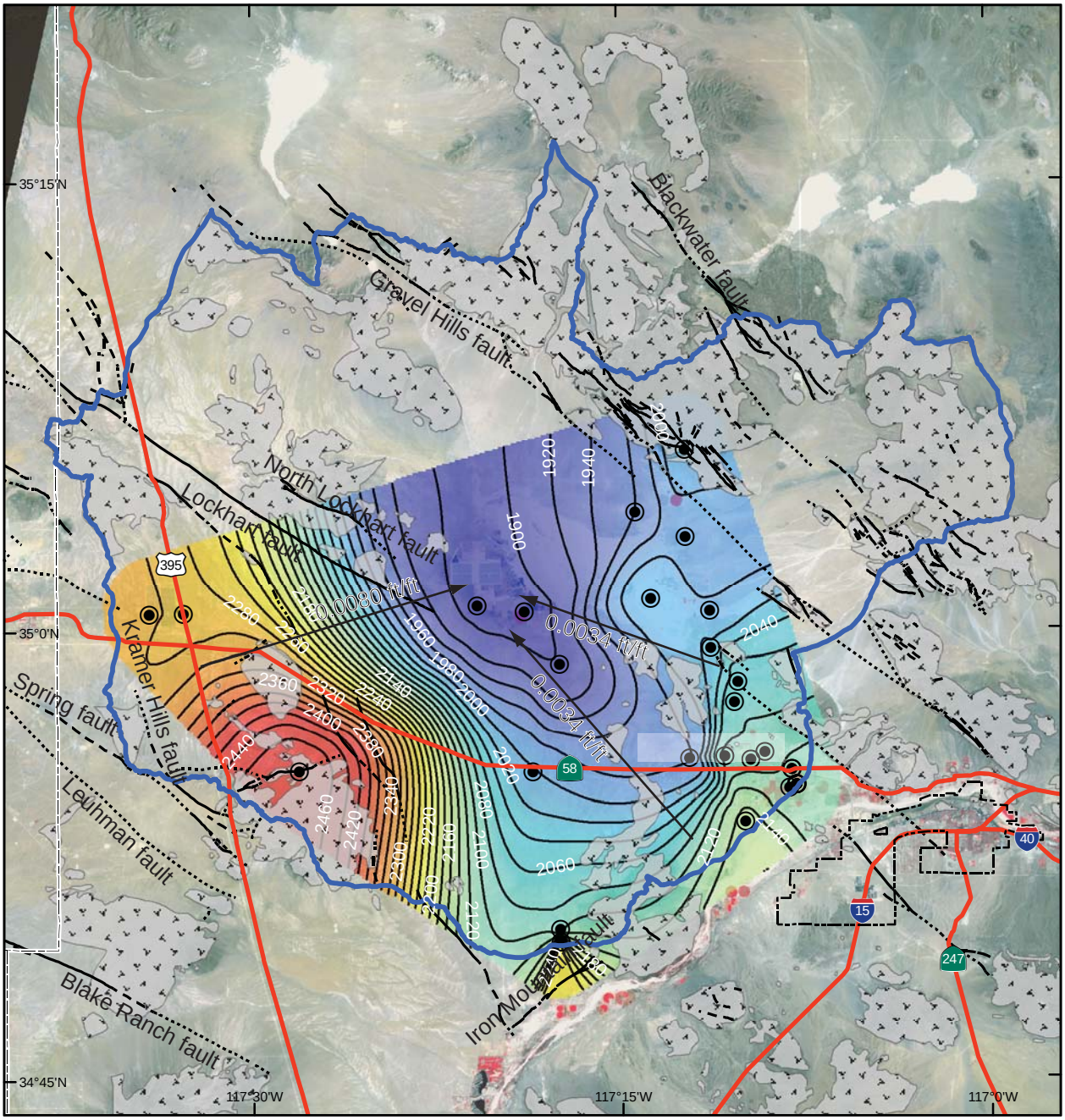
Legend

- Harper Lake Basin
- County Boundary
- City Boundary
- Well
- Major Highway
- Bedrock
- Faults

1998 Groundwater Elevation amsl

0 2.5 5 10 Miles

Figure 20: Harper Lake Basin groundwater elevation contour map 1998.



Legend

- Harper Lake Basin
- County Boundary
- City Boundary
- Well
- Major Highway
- Bedrock
- Faults

2004 Groundwater Elevation amsl

0 2.5 5 10 Miles

Figure 21: Harper Lake Basin groundwater elevation contour map 2004.

5.3 Groundwater Occurrence and Movement

Within the Harper Lake Basin, groundwater occurs primarily within the older alluvial deposits at variable depths and to a limited extent, within bedrock fractures. Groundwater elevations range from 2,765 to 1,861 ft amsl (842 to 598 m amsl) and depth to groundwater ranges from 100 to 250 ft (30 to 76 m) below ground surface (Figure 19: Harper Lake Basin groundwater elevation contour map 1958, Figure 20: Harper Lake Basin groundwater elevation contour map 1998, and Figure 21: Harper Lake Basin groundwater elevation contour map 2004).

To date, groundwater flow patterns have changed little since the first available data from 1916 to 1917. Net groundwater movement in the basin is towards Harper (dry) Lake. The groundwater gradient from the western portion of the basin towards Harper (dry) Lake ranges from 0.0067 ft/ft in 1958 to 0.008 ft/ft in 2004. The gradient from the east towards Harper (dry) Lake has ranged from a low of 0.0029 ft/ft in 1958 to 0.0038 ft/ft in 2004. Groundwater movement from the Mojave River moves along a hydraulic gradient sloping towards Harper (dry) Lake at a gradient of about .0028 ft/ft (DWR, 1964).

5.4 Water Use and Storage

Although groundwater pumping from local residents is determined here to be minimal (minimal producers=production rates of less than 10 acre-ft/yr), local residents had pumped above average rates for the three years prior to the "1996 Adjudication." Since the adjudication, pumping rates have dropped by nearly 50% (Table 6: Harper Lake Basin Annual Verified Water Production). The Mojave Basin Area Watermaster has tracked and estimated minimal producer water usage for basin water budget purposes. The average minimal production rate for the Harper Lake Basin is 4,972 acre-ft/year for the years 1993-2006 (Wagner and Bonsignore, pers. comm., 2006).

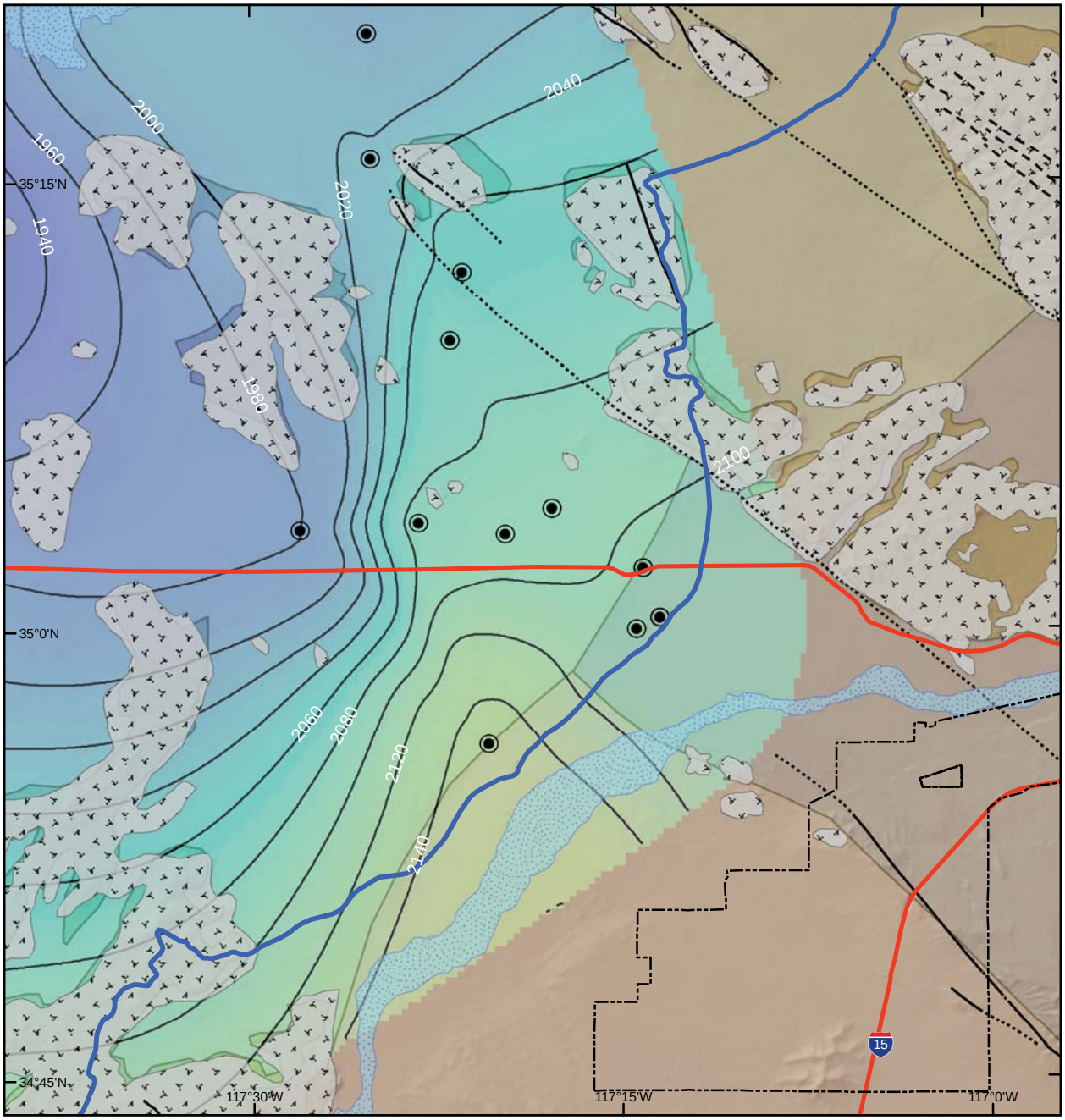
Current water use by Harper Lake Basin's residents is negligible in comparison to groundwater pumped from farms and ranches during the mid and late 1900's. Agricultural production acreage varied from 1,800 acres to 2,500 acres during the years 1953 to 1983. The estimated amount of groundwater pumped from the Lockhart Ranch for the period 1953 to 1986 was 380,000 acre-ft (based on a 5 acre-ft/acre pumping value) (The Mark Group, 1989). Approximately 6,500 to 18,000 acre-ft annually of groundwater had been used for agricultural production. Based on this, a net groundwater storage loss for the same period was estimated to be 76,000 acre-feet. Groundwater production from 1993-2006 is shown in Table 6.
Groundwater in storage is calculated using the estimated volume of water-bearing units multiplied by the specific yield (storage coefficient). The total storage capacity of the Harper Lake Basin groundwater basin is estimated by DWR (1967, 2003) to be 6,975,000 acre-ft with a storage coefficient of 0.12 (Table 7: Harper Lake Basin estimated groundwater storage). For 1990, the total groundwater in storage was estimated to be 101,500 acre-ft (Bookman Edmonston, 1994; DWR, 2003).

Table 6. Harper Lake Basin annual verified water production.	
Water Year	Verified Water Production (acre-ft)
2005-06	3,429
2004-05	2,901
2003-04	3,388
2002-03	3,191
2001-02	3,915
2000-01	4,004
1999-00	3,616
1998-99	3,537
1997-98	3,322
1996-97	8,561
1995-96	10,093
1994-95	9,954
1993-94	4,729
Average	4,972

Table 7. Harper Lake Basin estimated groundwater storage.		
	DWR (1967)	DWR (2003)
Total Storage Capacity (acre-ft)	-	6,975,000
Groundwater in Storage (acre-ft)	2,497,000	101,500

5.5 Subsurface flow from Middle Mojave River Valley Basin

Harper Lake Basin receives subsurface groundwater inflow from the Middle Mojave River Valley Basin through a small alluvial divide near Red Hill (DWR, 1964; 1967; 1971; 2003; Mark Group, 1989; MWA, 1983; Stamos et al., 2001; Aquifer Science and Technology, 2007) (Figure 22: Mojave River–Harper Lake Basin Divide and Table 8: Previous works on subsurface groundwater flow into Harper Lake Basin from the Middle Mojave River Valley Basin. The narrow aquifer pathway near Red Hill ranges from 150 ft to 200 ft in thickness (The Mark Group, 1989; Aquifer Science and Technology, 2007). Sediments consist of buried river channel deposits that are interpreted to be the remnants of an abandoned channel between Harper Lake Basin and the Mojave River (MWA, 1983; Reynolds and Reynolds, 1994; Stamos et al., 2001; Aquifer Science



Legend

- Harper Lake Basin
- County Boundary
- City Boundary
- Well
- Major Highway
- Ephemeral Water Body
- Bedrock
- Faults

0 1 2 4 Miles

2004 Groundwater Elevation amsl

Figure 22: Harper River-Harper Lake Basin divide.

and Technology, 2007). Calculations made by Mark Group (1989) indicate that recharge from the Middle Mojave River Valley groundwater basin into Harper Lake groundwater basin is 2,700 acre-feet/year through the region near Red Hill. Conversely, DWR (1967) estimates 1,000 acre-ft/yr of recharge and MWA (1983) estimates 22 acre-ft/yr of recharge through the same gap near Red Hill. Aquifer Science and Technology (2007) performed a geophysical survey through the Hinkley Gap near Red Hill and concluded an estimate of 1,468 acre-ft/yr of subsurface recharge. In a USGS report, Stamos et al. (2001) modeled the entire Mojave River Basin using MODFLOW and concluded 4,290 acre-feet/year of groundwater recharge into Harper Lake Basin from the Middle Mojave River Valley Basin in 1994, and averaged 3,071 acre-feet/year from 1931 to 1990. It should be noted Stamos et al. (2001) groundwater model did not focus solely on the Red Hill gap, but took into account the entire aquifer boundary between Harper Lake Basin and the Middle Mojave River Valley Basin. Subsurface flow calculation through the same alluvial channel west of Red Hill, presented here (Table 9: Flow calculations at Red Hill gap) indicates 1,100 acre-ft/yr of subsurface flow from the Middle Mojave River Valley Basin to the Harper Lake Basin. This calculation reasonable compared to other previous works in the area (Table 8). However, the varying aquifer characteristics, size, and methods used in each of the different studies yields a variety of results ranging from 22 acre-feet/year to 3,071 acre-feet/year.

There has been much consideration of subsurface groundwater movement through the Red Hill gap, however no significance has been placed on the potential for subsurface flow through the alluvial gap between Lynx Cat and Iron Mountain. Well logs along with geophysical data (Crosby 1990) indicate a sizeable cross-sectional area for groundwater to move through. Additionally groundwater elevations indicate a gradient moving towards this area from the Mojave River (Fig 22). The potential for subsurface flow through the gap between Lynx Cat and Iron Mountains is very plausible and should be considered in future investigations.

5.6 Water Budget

Analysis of general water budgets can yield insight to the hydrologic system at work within a basin. Water budgets take into consideration various parameters, some known and some unknown.

$$\text{Inflow} = \text{outflow} \pm \text{changes in storage}$$

Inflow: interflow, precipitation, return flow and overland inflow

Outflow: through flow, evaporation, transpiration, surface runoff, infiltration, overland outflow, and pumping

These parameters may include soil characteristics, precipitation, evapotranspiration, surface waters, groundwater flow, infiltration, and groundwater production. Tables 10 to 13 review the basic inputs and outputs that are included within the Harper Lake Basin watershed. This data is derived from previously published reports. The annual average water budget for

Harper Lake Basin, as calculated by The Mark Group (1989) and DWR (2003) is a net gain of 1,000 acre-ft and 11,370 acre-ft, respectively (Table 13). Positive value conveys consumptive use is less then recharge to the basin. This should infer a water level rise. Likewise, the surplus of water estimated by DWR (2003) should yield increases in water level hydrographs (Fig. 10 to 18). These figures reveal a slight increase in groundwater levels based on a 678 mi^2 (1,756 km^2) basin area. The discrepancy, however, between the two reported values is considerable. One inconsistency is that The Mark Group utilizes a study area of 510 mi^2 (1,320 km^2) and DWR a 640 mi^2 (1,658 km^2) study area. The difference in size of the basin may still not be enough to yield such a considerable disparity. Future detailed studies of the Harper Lake Basin water budget should be considered to resolve this discrepancy.

Table 8. Previous works on subsurface groundwater flow into Harper Lake Basin from the Middle Mojave River Valley Basin.

Agency	Estimate (acre-ft/yr)	Location
DWR (1964)	-	"Much of inflow into Harper enters through the area surrounding Red Hill"
DWR (1967)	1,000	No specific location
DWR (1971)	-	"Main recharge into Harper Valley is underflow from by way of Hinkley Valley south of Blacks Ranch"
DWR (2003)	-	"Some groundwater diversion toward Harper Lake around the east and west sides of Iron Mountain"
DWR (2004)	-	"Harper Valley receives some groundwater underflow from the Middle Mojave River Valley."
MWA (1983)	22	"Narrow band of Holocene river sediments near Red Hill"
The Mark Group (1989)	2,700	Red Hill
Stamos et al. (2001)	3,071	"Groundwater moves through Red Hill gap and other side of Iron Mountain."
Aquifer Science & Tech (2007)	1,468	Gap west side of Red Hill
This report	1,100	Red Hill gap

Table 9. Flow Calculations at Red Hill					
Gradient = 0.0036 ft/ft Area = 295,207 ft^2	Range of hydrologic conductivity k (ft/day) and resultant calculations of subsurface groundwater flow				
Hydrologic Conductivity k (ft/day)	0.05	50	125	175	200
Subsurface Flow acre-feet/year	4	450	1,100	1,600	1,800

Table 10. Harper Lake Basin estimated groundwater inputs.			
Annual average	DWR (1967) (acre-ft)	The Mark Group (1989) (acre-ft)	DWR (2003) (acre-ft)
Surface inflow*	-	3,800*	36,300*
Subsurface inflow	1,000	3,000	-
Spreading of wastewater	-	-	487
Imported water	-	-	1,383
Total	-	6,800	38,170

*Surface inflow includes all types of natural recharge.

Table 11. Harper Lake Basin average production.	
Outputs	MWA Watermaster (2006) (acre-ft)
Consumptive use large producers	5,100
Consumptive use minimal producers	-
Total	5,100

Table 12. Harper Lake Basin estimated groundwater outputs.			
Annual Average	The Mark Group (1989) (acre-ft)	DWR (2003) (acre-ft)	MWA (2005) (acre-ft)
Surface outflow	-	-	-
Subsurface outflow	-	-	-
Consumptive Use*	5,500	26,800	5,100*
Total	5,500	26,800	5,100

*Consumptive use reflects only large users (>10 acre-ft/yr).

Table 13. Harper Lake Basin water budget calculations.		
Annual Average	The Mark Group (1989) (acre-ft)	DWR (2003) (acre-ft)
Total input	6,500	38,170
Total output	5,500	26,800
Total water budget	1,000	11,370

5.7 General Water Chemistry

Mineral compositions of groundwater in Harper Lake Basin are determined by interactions between groundwater, aquifer materials, surface water, and groundwater discharge. These interactions influence the ranges of total dissolved solids (TDS) observed in Harper Lake Basin wells (Table 14: Harper Lake basin measured TDS concentrations). A low of 179 mg/L was reported by DWR in 2003 and a high of 2,600 mg/L was reported in 1989 by DWR. Analysis done by The Mark Group (1989) showed values ranging from 400 mg/L TDS to 2,806 mg/L TDS. In general, wells located further from Harper (dry) Lake exhibit better water quality than those directly adjacent to the lake. The higher TDS concentrations adjacent to the lake are most likely due to the irrigation return flow from nearby farmland (The Mark Group, 1989).

Sulfate or sulfate-chloride rich waters are found in areas in and around Harper Lake Basin where older alluvium is present or where portions of the groundwater basin receive little recharge and minor groundwater movement (DWR, 1967). Sodium and sulfate-bicarbonate rich groundwater is found in the northern portion of the basin with relatively high concentrations of sodium fluoride and boron (DWR, 2003). Concentrations of sulfate and boron are also high in the western and southern regions of the Harper Lake Basin resulting in limited irrigation and domestic usages. A complete groundwater sampling survey should be conducted across the entire basin to assess changes in groundwater chemistry across the entire Harper Lake Basin.

Table 14. Harper Lake Basin measured TDS concentrations.		
Source	High TDS (mg/L*)	Low TDS (mg/L)
DWR (1979)	2,000	1,000
DWR (1989)	2,600	400
DWR (2003)	2,391	179

*1 milligram/liter (mg/L)=1 part per million (ppm).

6.0 Summary

The purpose of this report is to provide a general overview of the geography, climate, geology, hydrogeology, and groundwater conditions within the Harper Lake Basin. Much information is still needed with respect to the hydrogeology, hydrologic parameters, and water chemistry of the Harper Lake Basin.

1. Deposits such as dune sand, alluvium/older alluvium, and Tertiary sediments are considered water-bearing. The crystalline basement complex of pre-Tertiary igneous and metamorphic rocks surrounding and underlying the basin, are classified as non-water-bearing units (DWR, 1967). The predominant structural features of the Harper Lake Basin watershed includes a set of northwest trending, right-lateral, strike-slip faults; the North and South Lockhart faults, Harper Lake Basin fault zone, Harper Lake fault, Blackwater fault, as well as several smaller faults.

2. Groundwater elevations range from 2,765 to 1,861 ft amsl (842 to 598 m) and depth to groundwater ranges from 100 to 250 ft (30 to 76 m) below ground surface. The older alluvium is the principle water-bearing strata in the basin, with an average yield of approximately 725 gpm and a maximum of 3,000 gpm (DWR, 1975). Net groundwater movement in the western portion of the basin is towards Harper (dry) Lake with a groundwater gradient of 0.0067 ft/ft in yr1958 and 0.008 ft/ft in yr 2004. The gradient from the east towards Harper Lake has ranged from a low of 0.0029 ft/ft in yr 1958 and 0.0038 ft/ft in yr 2004.

3. Harper Lake Basin was found to have distinguishable separate groundwater sub-basins. Hydrograph analysis was used to distinguish these sub-basins based upon the observed groundwater level trends within each sub-basin. For example, groundwater level trends within the Harper Lake Basin Center region appear to respond differently to stresses within the system than do other hydrograph units. Varying response of groundwater levels within the respective hydrograph regions can be attributed to several factors. Most notably, large groundwater pumping rates in the Harper Lake Basin Center region did not reach, or affect levels in the Harper Lake Basin Northeast wells. This may suggest the presence of a groundwater barrier or an impediment to groundwater flow (e.g., impermeable material or hydrogeologic boundary) within this region.

4. The annual average water budget for the Harper Lake Basin is calculated by The Mark Group (1989) to be a net gain of 1,000 acre-ft/yr, and by DWR (2003) to be 11,370 acre-ft/yr. This positive value conveys consumptive use is less then recharge to the basin. The discrepancy between the two values is considerable, and should be resolved with further analysis.

5. Water quality data is limited within Harper (dry) Lake. TDS values are generally high, but this may reflect limited data within the basin. Little is known of the existing water quality throughout the basin. This may not necessarily reflect poor water

quality, but a more complete groundwater sampling survey should be conducted across the entire basin before any conclusions can be drawn.

6.1 Un-resolved Issues for Future Research

1. Better subsurface characterization: this should include a drilling program in each of the identified hydrograph units and also along the Alto–Centro, Sub-area boundary. A drilling program should consist of drilling and sampling, borehole geophysics, and surface geophysics.

2. Depth of basin(s): geophysical work using gravity profiles should be used to construct clearer depth to bedrock as well as basin geometry.

3. Groundwater movement across geologic boundaries: the complexity of faults and groundwater interaction is not completely understood should be addressed further. This may involve various localized studies instead of large-regional scale studies.

4. Groundwater recharge from the Mojave River: studies should focus on infiltration and runoff capacities of soils and bedrock fractures in the region between Harper Lake Basin and the Mojave River. Additionally, research should focus on the underflow from the Mojave River towards and into Harper Lake area, with an emphasis on aquifer materials, infiltration rates, and hydraulic conductivities. Quantifying this flow is important prior to any further development in the region.

5. Return flow (groundwater recharge) from agricultural activities: understanding the amount of return flow will provide a better constraint on the overall groundwater budget. This will also provide better insight into water quality trends within the basin.

6. Water quality: very limited water quality data is available for the Harper Lake Basin. A full series of analytical analyses should be part of a new “Key Well Program.”

7.0 References

Aquifer Science and Technology, 2007, Report on the Geophysical Investigation for the Harper-Hinkley Gap Area Near Hinkley, California, p. 35.

Bader, J.S., 1969, Ground-Water Data as of 1967 South Lahontan Subregion California, Water Resources Division, Open-File Report, p. 25.

Bookman-Edmonston Engineering Inc., 1994, Ground Water Occurrence and Quality Lahontan Region, p. 264-357.

Bowen, O.J., 1954, Geology and Mineral Deposits of Barstow Quadrangle San Bernardino County, California, Division of Mines, Bulletin 165, p. 207.

California Department of Water Resources (DWR), 1960a, Data on Water Wells in the Western Part of the Middle Mojave Valley Area, San Bernardino County, California, Bulletin 91-1, p. 126.

California Department of Water Resources (DWR), 1960b, Data on Water Wells in the Eastern Part of the Middle Mojave Valley Area, San Bernardino County, California, California, Bulletin 91-3, p. 223.

California Department of Water Resources (DWR), 1964, Ground Water Occurrence and Quality Lahontan Region, p. 357-364.

California Department of Water Resources (DWR), 1967, Mojave River Ground Water Basins Investigation, Bulletin No. 84, p. 150.

California Department of Water Resources (DWR), 1971, Water Wells in the Harper, Superior, and Cuddeback Valley Areas, San Bernardino County, California, Bulletin 91-19, p. 99.

California Department of water Resources (DWR), 1975, California's Ground Water, Bulletin 118., p. 135.

California Department of Water Resources (DWR), 1979, Sources of Power Plant Cooling Water in the Desert Area of Southern California – Reconnaissance Study, Bulletin 91-24, p. 55.

California Department of Water Resources (DWR), 1980, Ground Water Basins in California, Bulletin 118-80, p. 73.

California Department of Water Resources (DWR), 2003, California's Water, Bulletin 118 Update. South Lahontan Hydrologic Region, Harper Valley Groundwater Basin, p. 5.

California Department of Water Resources (DWR), 2004, California's Water, Bulletin 118 Update. South Lahontan Hydrologic Region, Harper Valley Groundwater Basin, p. 5.

The California Irrigation Management Information System (CIMIS), 2007, Access at www.cimis.water.ca.gov/.

CALWATER, 1997, GIS Solutions Group. Access at www.cimis.water.ca.gov/.

Dibblee, T.W., Jr., 1958, Geologic Map of the Boron Quadrangle, San Bernardino and Kern Counties, California, U.S. Geological Survey. Mineral Investigations Field Studies Map MF – 204.

Dibblee, T.W., Jr., 1960a, Geologic Map of the Hawes Quadrangle, San Bernardino County, California. U.S. Geological Survey, Mineral Investigations Field Studies Map MF – 226

Dibblee, T.W., Jr., 1960b, Geologic Map of the Barstow Quadrangle, San Bernardino County, California. U.S. Geological Survey, Mineral Investigations Field Studies Map MF – 233.

Dibblee, T.W., Jr., 1960c, Geology of the Rogers Lake and Kramer Quadrangles California. U.S. Geological Survey, Geologic Investigations of southern California Bulletin 1089-B, p. 136.

Dibblee, T.W., Jr., 1968, Geology of the Fremont Peak and Opal Mountain Quadrangles, California: California Division of Mines and Geology Bulletin 188.

Dokka, R.K., and Travis, C.J., 1990a, Late Cenozoic strike-slip faulting in the Mojave Desert, California: Tectonics 9, no. 2, p. 311-340.

Dokka, R.K., and Travis, C.J., 1990b, Role of the Eastern California shear zone in accommodating Pacific-North American plate motion: Geophysical Research Letters 17, no. 9, p. 1323-1326.

Enzel, Y., Wells, S.G., and Lancaster, N., 2003, Late Pleistocene lakes along the Mojave River, southeast California, in Enzel, Y., Wells, S.G., and Lancaster, N., eds., Paleoenvironments and paleohydrology of the Mojave and southern Great Basin Deserts: Boulder, Colorado, Geological Society of America Special Paper 386, p. 61-77.

Meko, D.M., and Woodhouse, C.A., 2005, Tree-ring footprint of joint hydrologic drought in Sacramento and Upper Colorado river basins, western USA: Journal of Hydrology vol. 308, p. 196-213.

Miao, X, Mason, J.A., Swinehart, J.B., Loope, D.B., Hanson, P.R., Goble, R.J., and Liu, X., 2007, A 10,000 year record of dune activity, dust storms, and severe drought in central Great Plains: Geology, vol. 35, no. 2, p. 119-122.

Mojave Water Agency (MWA), 1983, Mojave River Groundwater Basins Historic and Present Conditions Helendale Fault to Calico-Newberry Fault, an association of CM Engineering Associates and Leroy and Crandall and Associates, p. 150.

Page, R.W., and Moyle, W.R., Jr., 1960, Data on water wells in the eastern part of the middle Mojave Valley area, San Bernardino County, California, Department of Water Resources Bulletin 91-3, p. 223.

Reynolds, R.E., and Reynolds, R.L., 1994, The Isolation of Harper Lake Basin. Off limits in the Mojave Desert; field trip guidebook and volume for the 1994 Mojave Desert Quaternary Research Center field trip to the Fort Irwin Area, vol. 94-1, p. 34-37.

Sud, Y.C., Mocko, D.M., Lau, K.M., and Atlas, R., 2002, Simulating the Midwestern U.S. Drought of 1988 with a GCM, Journal of Climate vol. 16, p. 21.

Sneed, M., Ikehara, M.E., Stork, S.V., Amelung, F., and Galloway, D.L., 2003, Detection and Measurement of Land subsidence Using Interferometric Synthetic Aperture Rader and Global Positioning System, San Bernardino County, Mojave Desert, California, U.S. Department of the Interior, U.S. Geological Survey Water Resources Investigations Report 03-4015, Prepared in cooperation with the Mojave Water Agency, p. 69.

Southern California Earthquake Center [SCEC], 2007, Access at www.scec.org/.

Stamos, C.L., Martin, P., Nishikawa, T., and Cox, B.F. , 2001, Simmulation of Ground-Water Flow in the Mojave River Basin, California. U.S. Geological Survey, Water Resources Investigation Report 01-4002, p. 129.

The Mark Group Engineers and Geologist Inc., 1989, Final Report Hydrogeologic Assessment Report Harper Lake, California for LUZ Development and Finance Corporation 88-03219.18, p. 129.

Thompson, D.G., 1929, The Mohave Desert Region, California: A Geographic, Geologic, and Hydrologic Reconnaissance, U.S. Geological Survey Water-Supply Paper 578, p. 266 – 279.

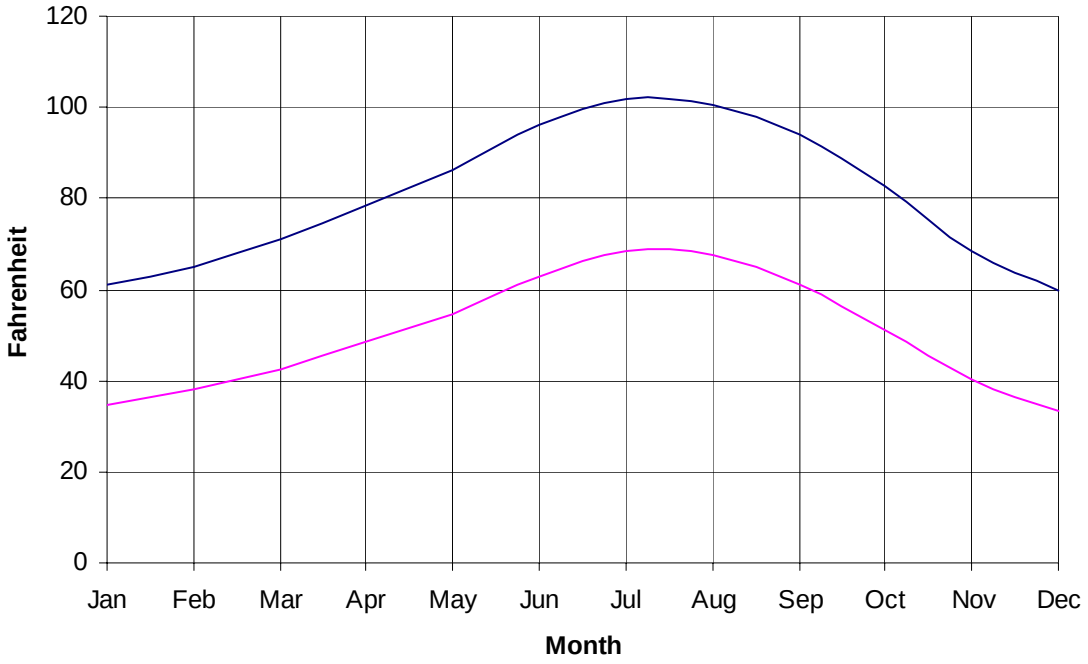
8.0 Appendices

Appendix A. Climatic data and plots.

- A-1 Harper average maximum and minimum temperature by month
- A-2 Harper average precipitation by month
- A-3 Harper average evapotranspiration by month

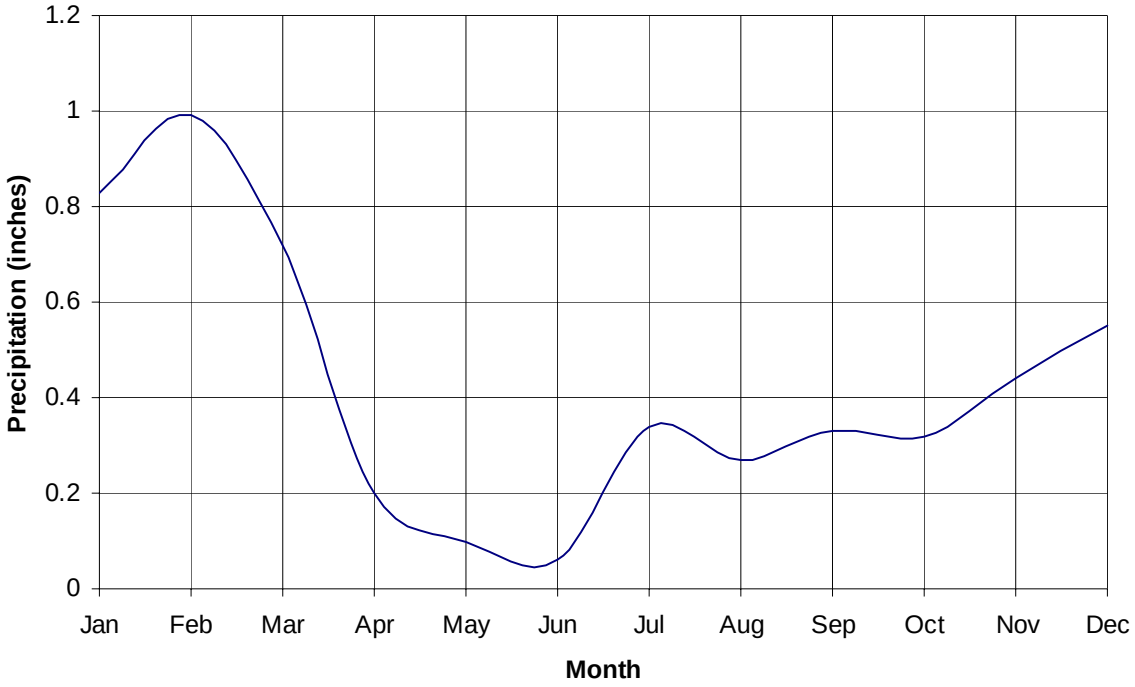
A-1

Average Monthly Maximum and Minimum Temperatures (1980-2005) Barstow Fire Station 40521.



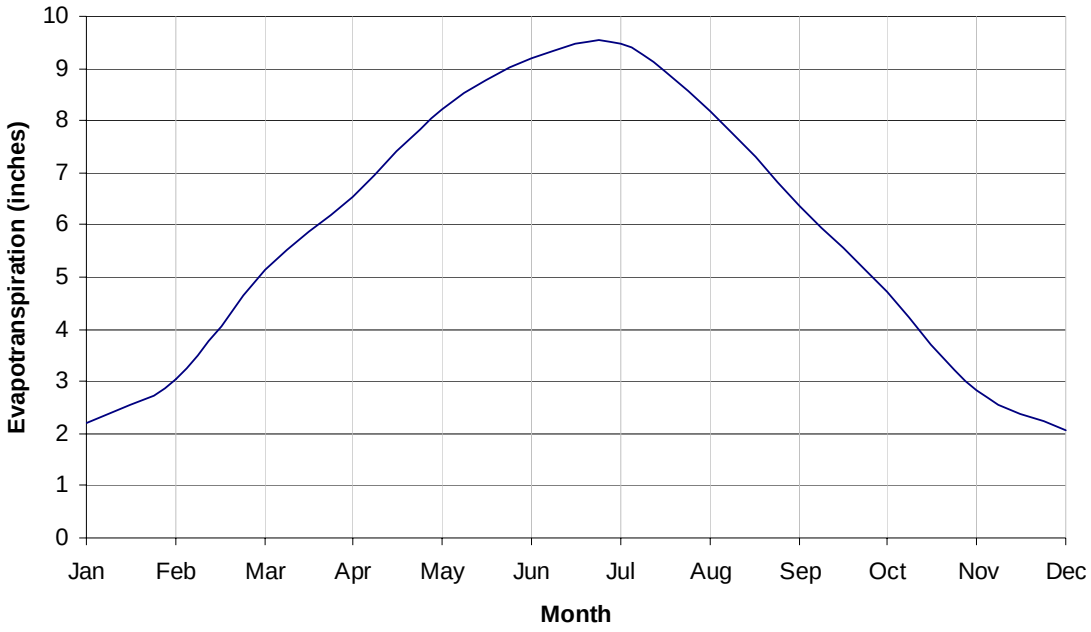
A-2

Average Monthly Rainfall (1980-2005), Barstow fire station 040521.



A-3

Average Monthly Evapotranspiration, Barstow Station #60 & Barstow Station #134



Appendix B. Water level data

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
031S042E23L01M	35.2208	117.4484	18-Aug-53	2510.1	2685	175	6053	Harper North
031S042E23L01M	35.2208	117.4484	11-Feb-54	2511.3	2685	174	6054	Harper North
031S042E23L01M	35.2208	117.4484	04-Mar-55	2512.48	2685	173	6055	Harper North
031S042E23L01M	35.2208	117.4484	07-May-56	2500	2685	185	6056	Harper North
031S43E30M02M	35.2061	117.415	11-Feb-54	2515.8	2705	189	6316	Harper North
031S43E30M02M	35.2061	117.415	04-Mar-55	2515.65	2705	189	6317	Harper North
032S43E28K01M	35.1158	117.3736	01-Jul-68	2267	2277	10	6945	Harper North
09N02W06M07S	34.9133	117.1309	14-Apr-94	2125.16	2189	64	90068	Harper River
09N02W06M07S	34.9133	117.1309	07-Jun-94	2123.18	2189	66	90069	Harper River
09N02W06M07S	34.9133	117.1309	25-Jul-94	2121.34	2189	68	90070	Harper River
09N02W06M07S	34.9133	117.1309	29-Jul-94	2121.18	2189	68	90071	Harper River
09N02W06M07S	34.9133	117.1309	03-Aug-94	2121	2189	68	90072	Harper River
09N02W06M07S	34.9133	117.1309	22-Aug-94	2120.36	2189	69	90073	Harper River
09N02W06M07S	34.9133	117.1309	26-Sep-94	2119.32	2189	70	90074	Harper River
09N02W06M07S	34.9133	117.1309	24-Oct-94	2119.23	2189	70	90075	Harper River
09N02W06M07S	34.9133	117.1309	28-Nov-94	2120.77	2189	68	90076	Harper River
09N02W06M07S	34.9133	117.1309	19-Dec-94	2121.55	2189	67	90077	Harper River
09N02W06M07S	34.9133	117.1309	23-Jan-95	2123.75	2189	65	90078	Harper River
09N02W06M07S	34.9133	117.1309	27-Feb-95	2132.09	2189	57	90079	Harper River
09N02W06M07S	34.9133	117.1309	28-Mar-95	2151.02	2189	38	90080	Harper River
09N02W06M07S	34.9133	117.1309	24-Apr-95	2144.73	2189	44	90081	Harper River
09N02W06M07S	34.9133	117.1309	24-May-95	2137.31	2189	52	90082	Harper River
09N02W06M07S	34.9133	117.1309	26-Jun-95	2133.97	2189	55	90083	Harper River
09N02W06M07S	34.9133	117.1309	24-Jul-95	2132.4	2189	57	90084	Harper River
09N02W06M07S	34.9133	117.1309	28-Aug-95	2130.59	2189	58	90085	Harper River
09N02W06M07S	34.9133	117.1309	25-Sep-95	2109.57	2189	79	90086	Harper River
09N02W06M07S	34.9133	117.1309	30-Oct-95	2109.08	2189	80	90087	Harper River
09N02W06M07S	34.9133	117.1309	27-Nov-95	2121.75	2189	67	90088	Harper River
09N02W06M07S	34.9133	117.1309	18-Dec-95	2132.44	2189	57	90089	Harper River
09N02W06M07S	34.9133	117.1309	31-Jan-96	2133.39	2189	56	90090	Harper River
09N02W06M07S	34.9133	117.1309	29-Feb-96	2133.83	2189	55	90091	Harper River
09N02W06M07S	34.9133	117.1309	27-Mar-96	2132.01	2189	57	90092	Harper River
09N02W06M07S	34.9133	117.1309	29-Apr-96	2129.28	2189	60	90093	Harper River
09N02W06M07S	34.9133	117.1309	30-May-96	2128.14	2189	61	90094	Harper River
09N02W06M07S	34.9133	117.1309	02-Jul-96	2126.69	2189	62	90095	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N02W06M07S	34.9133	117.1309	30-Jul-96	2125.35	2189	64	90096	Harper River
09N02W06M07S	34.9133	117.1309	21-Aug-96	2125.17	2189	64	90097	Harper River
09N02W06M07S	34.9133	117.1309	26-Sep-96	2123.49	2189	66	90098	Harper River
09N02W06M07S	34.9133	117.1309	21-Oct-96	2123.02	2189	66	90099	Harper River
09N02W06M07S	34.9133	117.1309	27-Nov-96	2125.29	2189	64	90100	Harper River
09N02W06M07S	34.9133	117.1309	02-Jan-97	2127.34	2189	62	90101	Harper River
09N02W06M07S	34.9133	117.1309	30-Jan-97	2128.29	2189	61	90102	Harper River
09N02W06M07S	34.9133	117.1309	27-Feb-97	2125.99	2189	63	90103	Harper River
09N02W06M07S	34.9133	117.1309	27-Mar-97	2125.17	2189	64	90104	Harper River
09N02W06M07S	34.9133	117.1309	29-Apr-97	2122.31	2189	67	90105	Harper River
09N02W06M07S	34.9133	117.1309	28-May-97	2121.71	2189	67	90106	Harper River
09N02W06M07S	34.9133	117.1309	30-Jun-97	2120.15	2189	69	90107	Harper River
09N02W06M07S	34.9133	117.1309	30-Jul-97	2118.78	2189	70	90108	Harper River
09N02W06M07S	34.9133	117.1309	28-Aug-97	2117.8	2189	71	90109	Harper River
09N02W06M07S	34.9133	117.1309	23-Sep-97	2118.15	2189	71	90110	Harper River
09N02W06M07S	34.9133	117.1309	06-Nov-97	2118.17	2189	71	90111	Harper River
09N02W06M07S	34.9133	117.1309	27-Nov-97	2119.18	2189	70	90112	Harper River
09N02W06M07S	34.9133	117.1309	30-Dec-97	2120.21	2189	69	90113	Harper River
09N02W06M07S	34.9133	117.1309	29-Jan-98	2120.82	2189	68	90114	Harper River
09N02W06M07S	34.9133	117.1309	02-Mar-98	2124.92	2189	64	90115	Harper River
09N02W06M07S	34.9133	117.1309	26-Mar-98	2125.51	2189	63	90116	Harper River
09N02W06M07S	34.9133	117.1309	24-Apr-98	2140.51	2189	48	90117	Harper River
09N02W06M07S	34.9133	117.1309	26-May-98	2156.83	2189	32	90118	Harper River
09N02W06M07S	34.9133	117.1309	24-Jun-98	2141.57	2189	47	90119	Harper River
09N02W06M07S	34.9133	117.1309	28-Jul-98	2135.94	2189	53	90120	Harper River
09N02W06M07S	34.9133	117.1309	24-Aug-98	2135.01	2189	54	90121	Harper River
09N02W06M07S	34.9133	117.1309	26-Sep-98	2133.28	2189	56	90122	Harper River
09N02W06M07S	34.9133	117.1309	22-Oct-98	2133.52	2189	55	90123	Harper River
09N02W06M07S	34.9133	117.1309	23-Nov-98	2134.76	2189	54	90124	Harper River
09N02W06M07S	34.9133	117.1309	22-Dec-98	2135.34	2189	54	90125	Harper River
09N02W06M07S	34.9133	117.1309	21-Jan-99	2135.57	2189	53	90126	Harper River
09N02W06M07S	34.9133	117.1309	22-Feb-99	2135.57	2189	53	90127	Harper River
09N02W06M07S	34.9133	117.1309	30-Mar-99	2132.49	2189	57	90128	Harper River
09N02W06M07S	34.9133	117.1309	26-Apr-99	2131.33	2189	58	90129	Harper River
09N02W06M07S	34.9133	117.1309	25-May-99	2130.26	2189	59	90130	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N02W06M07S	34.9133	117.1309	30-Jun-99	2131.95	2189	57	90131	Harper River
09N02W06M07S	34.9133	117.1309	27-Jul-99	2132.46	2189	57	90132	Harper River
09N02W06M07S	34.9133	117.1309	30-Aug-99	2129.38	2189	60	90133	Harper River
09N02W06M07S	34.9133	117.1309	27-Sep-99	2128.21	2189	61	90134	Harper River
09N02W06M07S	34.9133	117.1309	25-Oct-99	2133.9	2189	55	90135	Harper River
09N02W06M07S	34.9133	117.1309	30-Nov-99	2134.3	2189	55	90136	Harper River
09N02W06M07S	34.9133	117.1309	20-Dec-99	2134.3	2189	55	90137	Harper River
09N02W06M07S	34.9133	117.1309	26-Jan-00	2133.58	2189	55	90138	Harper River
09N02W06M07S	34.9133	117.1309	28-Feb-00	2132.11	2189	57	90139	Harper River
09N02W06M07S	34.9133	117.1309	28-Mar-00	2130.9	2189	58	90140	Harper River
09N02W06M07S	34.9133	117.1309	24-Apr-00	2130.52	2189	58	90141	Harper River
09N02W06M07S	34.9133	117.1309	19-May-00	2128.73	2189	60	90142	Harper River
09N02W06M07S	34.9133	117.1309	01-Jun-00	2118.62	2189	70	90143	Harper River
09N02W06M07S	34.9133	117.1309	06-Jun-00	2125.26	2189	64	90144	Harper River
09N02W06M07S	34.9133	117.1309	13-Jun-00	2127.66	2189	61	90145	Harper River
09N02W06M07S	34.9133	117.1309	20-Jun-00	2127.19	2189	62	90146	Harper River
09N02W06M07S	34.9133	117.1309	28-Jun-00	2126.9	2189	62	90147	Harper River
09N02W06M07S	34.9133	117.1309	06-Jul-00	2126.76	2189	62	90148	Harper River
09N02W06M07S	34.9133	117.1309	27-Jul-00	2125.86	2189	63	90149	Harper River
09N02W06M07S	34.9133	117.1309	28-Aug-00	2124.6	2189	64	90150	Harper River
09N02W06M07S	34.9133	117.1309	11-Sep-00	2124.58	2189	64	90151	Harper River
09N02W06M07S	34.9133	117.1309	18-Sep-00	2124.28	2189	65	90152	Harper River
09N02W06M07S	34.9133	117.1309	06-Oct-00	2124.65	2189	64	90153	Harper River
09N02W06M07S	34.9133	117.1309	12-Oct-00	2124.34	2189	65	90154	Harper River
09N02W06M07S	34.9133	117.1309	03-Nov-00	2128.51	2189	60	90155	Harper River
09N02W06M07S	34.9133	117.1309	08-Nov-00	2129.27	2189	60	90156	Harper River
09N02W06M07S	34.9133	117.1309	21-Nov-00	2130.61	2189	58	90157	Harper River
09N02W06M07S	34.9133	117.1309	01-Dec-00	2130.86	2189	58	90158	Harper River
09N02W06M07S	34.9133	117.1309	06-Dec-00	2133.73	2189	55	90159	Harper River
09N02W06M07S	34.9133	117.1309	07-Dec-00	2130.92	2189	58	90160	Harper River
09N02W06M07S	34.9133	117.1309	11-Dec-00	2130.93	2189	58	90161	Harper River
09N02W06M07S	34.9133	117.1309	18-Dec-00	2130.78	2189	58	90162	Harper River
09N02W06M07S	34.9133	117.1309	28-Dec-00	2130.03	2189	59	90163	Harper River
09N02W06M07S	34.9133	117.1309	11-Jan-01	2129.53	2189	59	90164	Harper River
09N02W06M07S	34.9133	117.1309	16-Jan-01	2129.39	2189	60	90165	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N02W06M07S	34.9133	117.1309	25-Jan-01	2129.36	2189	60	90166	Harper River
09N02W06M07S	34.9133	117.1309	01-Feb-01	2129.29	2189	60	90167	Harper River
09N02W06M07S	34.9133	117.1309	08-Feb-01	2128.47	2189	61	90168	Harper River
09N02W06M07S	34.9133	117.1309	14-Feb-01	2128.63	2189	60	90169	Harper River
09N02W06M07S	34.9133	117.1309	21-Feb-01	2128.91	2189	60	90170	Harper River
09N02W06M07S	34.9133	117.1309	26-Feb-01	2128.95	2189	60	90171	Harper River
09N02W06M07S	34.9133	117.1309	08-Mar-01	2129.06	2189	60	90172	Harper River
09N02W06M07S	34.9133	117.1309	13-Mar-01	2129.06	2189	60	90173	Harper River
09N02W06M07S	34.9133	117.1309	19-Mar-01	2129.03	2189	60	90174	Harper River
09N02W06M07S	34.9133	117.1309	27-Mar-01	2128.31	2189	61	90175	Harper River
09N02W06M07S	34.9133	117.1309	05-Apr-01	2127.33	2189	62	90176	Harper River
09N02W06M07S	34.9133	117.1309	11-Apr-01	2126.94	2189	62	90177	Harper River
09N02W06M07S	34.9133	117.1309	18-Apr-01	2126.59	2189	62	90178	Harper River
09N02W06M07S	34.9133	117.1309	24-Apr-01	2127	2189	62	90179	Harper River
09N02W06M07S	34.9133	117.1309	03-May-01	2126.16	2189	63	90180	Harper River
09N02W06M07S	34.9133	117.1309	10-May-01	2125.48	2189	64	90181	Harper River
09N02W06M07S	34.9133	117.1309	17-May-01	2125.18	2189	64	90182	Harper River
09N02W06M07S	34.9133	117.1309	24-May-01	2125.5	2189	64	90183	Harper River
09N02W06M07S	34.9133	117.1309	01-Jun-01	2124.81	2189	64	90184	Harper River
09N02W06M07S	34.9133	117.1309	07-Jun-01	2124.28	2189	65	90185	Harper River
09N02W06M07S	34.9133	117.1309	14-Jun-01	2123.84	2189	65	90186	Harper River
09N02W06M07S	34.9133	117.1309	21-Jun-01	2123.97	2189	65	90187	Harper River
09N02W06M07S	34.9133	117.1309	02-Oct-01	2120.4	2189	69	90188	Harper River
09N02W06M07S	34.9133	117.1309	24-Jan-02	2122.21	2189	67	90189	Harper River
09N02W06M07S	34.9133	117.1309	20-Mar-02	2121.53	2189	67	90190	Harper River
09N02W06M07S	34.9133	117.1309	01-Jul-02	2117.02	2189	72	90191	Harper River
09N02W06M07S	34.9133	117.1309	09-Sep-02	2113.99	2189	75	90192	Harper River
09N02W06M07S	34.9133	117.1309	09-Jan-03	2115.5	2189	74	90193	Harper River
09N02W06M07S	34.9133	117.1309	06-Mar-03	2115.36	2189	74	90194	Harper River
09N02W06M07S	34.9133	117.1309	03-Apr-03	2114.61	2189	74	90195	Harper River
09N02W06M07S	34.9133	117.1309	02-May-03	2115.51	2189	73	90196	Harper River
09N02W06M07S	34.9133	117.1309	06-May-03	2115.42	2189	74	90197	Harper River
09N02W06M07S	34.9133	117.1309	14-May-03	2115.24	2189	74	90198	Harper River
09N02W06M07S	34.9133	117.1309	22-May-03	2115.63	2189	73	90199	Harper River
09N02W06M07S	34.9133	117.1309	30-May-03	2115.26	2189	74	90200	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N02W06M07S	34.9133	117.1309	25-Jun-03	2112.44	2189	77	90201	Harper River
09N02W06M07S	34.9133	117.1309	21-Jul-03	2110.79	2189	78	90202	Harper River
09N02W06M07S	34.9133	117.1309	13-Aug-03	2110.19	2189	79	90203	Harper River
09N02W06M07S	34.9133	117.1309	04-Sep-03	2108.57	2189	80	90204	Harper River
09N02W06M07S	34.9133	117.1309	15-Oct-03	2107.93	2189	81	90205	Harper River
09N02W06M07S	34.9133	117.1309	15-Nov-03	2108.35	2189	81	90206	Harper River
09N02W06M07S	34.9133	117.1309	13-Jan-04	2112.72	2189	76	90207	Harper River
09N02W06M07S	34.9133	117.1309	01-Mar-04	2112.54	2189	76	90208	Harper River
09N02W06M07S	34.9133	117.1309	18-Mar-04	2111.57	2189	77	90209	Harper River
09N02W06M07S	34.9133	117.1309	27-Apr-04	2110.98	2189	78	90210	Harper River
09N02W06M07S	34.9133	117.1309	19-May-04	2110.43	2189	78.57	124661	Harper River
09N02W06M07S	34.9133	117.1309	21-Jun-04	2108.02	2189	80.98	124662	Harper River
09N02W06M07S	34.9133	117.1309	12-Jul-04	2106.85	2189	82.15	124663	Harper River
09N02W06M07S	34.9133	117.1309	04-Aug-04	2105.96	2189	83.04	124664	Harper River
09N02W06M07S	34.9133	117.1309	01-Sep-04	2106.37	2189	82.63	124665	Harper River
09N02W06M07S	34.9133	117.1309	13-Oct-04	2104.13	2189	84.87	124666	Harper River
09N02W06M07S	34.9133	117.1309	02-Nov-04	1989.51	2189	83.49	124669	Harper River
09N02W06M07S	34.9133	117.1309	10-Dec-04	2110.86	2189	78.14	124670	Harper River
09N02W06M07S	34.9133	117.1309	06-Jan-05	2111.72	2189	77.28	124671	Harper River
09N02W06M07S	34.9133	117.1309	08-Feb-05	2121.19	2189	67.81	124672	Harper River
09N02W06M07S	34.9133	117.1309	07-Mar-05	2141.41	2189	47.59	124673	Harper River
09N02W06M07S	34.9133	117.1309	15-Apr-05	2144.99	2189	44.01	124674	Harper River
09N02W06M07S	34.9133	117.1309	16-May-05	2224.97	2189	54.03	124682	Harper River
09N02W06M07S	34.9133	117.1309	09-Jun-05	2133.22	2189	55.78	124683	Harper River
09N02W06M07S	34.9133	117.1309	11-Jul-05	2130.66	2189	58.34	124684	Harper River
09N02W06M07S	34.9133	117.1309	16-Aug-05	2131.41	2189	57.59	124685	Harper River
09N02W06M07S	34.9133	117.1309	20-Sep-05	2132.06	2189	56.94	124686	Harper River
09N02W06M07S	34.9133	117.1309	05-Oct-05	2130.66	2189	58.34	124687	Harper River
09N02W06M07S	34.9133	117.1309	09-Nov-05	2015.54	2189	57.46	124690	Harper River
09N02W06M07S	34.9133	117.1309	20-Dec-05	2136.01	2189	52.99	124691	Harper River
09N02W06M07S	34.9133	117.1309	04-Jan-06	2134.56	2189	54.44	124633	Harper River
09N02W06M07S	34.9133	117.1309	02-Feb-06	2134.09	2189	54.91	124634	Harper River
09N02W06M07S	34.9133	117.1309	06-Mar-06	2664.87	2189	55.13	124636	Harper River
09N02W06M07S	34.9133	117.1309	03-Apr-06	2425.24	2189	51.76	124651	Harper River
09N03Q08J01S	34.8836	117.2078	25-Feb-31	2193.1	2310	117	93064	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N03Q08J01S	34.8836	117.2078	11-Aug-31	2192.8	2310	117	93065	Harper River
09N03Q08J01S	34.8836	117.2078	10-Mar-32	2192.6	2310	117	93066	Harper River
09N03W01D01S	34.9056	117.1509	21-Jan-54	2150.3	2206	56	93068	Harper River
09N03W01D01S	34.9056	117.1508	21-Jan-54	2150.3	2206	56	93067	Harper River
09N03W01E01S	34.9019	117.1506	17-Jun-58	2115.78	2190	74	93069	Harper River
09N03W01E02S	34.9017	117.1506	24-Feb-58	2127.3	2195	68	93070	Harper River
09N03W01E02S	34.9017	117.1506	17-Jun-58	2105.07	2195	90	93071	Harper River
09N03W01E02S	34.9017	117.1506	28-Nov-58	2125	2195	70	93072	Harper River
09N03W01E02S	34.9017	117.1506	01-Oct-65	2119.8	2195	75	93073	Harper River
09N03W01E03S	34.9003	117.1525	20-Jan-93	2108.2	2195	87	93074	Harper River
09N03W02A01S	34.9056	117.155	02-Jul-52	2132	2195	63	93733	Harper River
09N03W02C01S	34.9056	117.1639	19-Jun-58	2127.27	2220	93	93734	Harper River
09N03W02D01S	34.9056	117.1684	19-Jun-58	2127.63	2225	97	93736	Harper River
09N03W02D01S	34.9056	117.1683	19-Jun-58	2127.63	2225	97	93735	Harper River
09N03W02F01S	34.9019	117.1642	18-Jun-58	2142.67	2225	82	93737	Harper River
09N03W02G01S	34.9019	117.1594	18-Jun-58	2151.87	2220	68	93738	Harper River
09N03W02G01S	34.9019	117.1595	18-Jun-58	2151.87	2220	68	93739	Harper River
09N03W02G02S	34.9019	117.1595	18-Jun-58	2129.41	2199.5	70	93741	Harper River
09N03W02G02S	34.9019	117.1594	18-Jun-58	2129.41	2199.5	70	93740	Harper River
09N03W02H01S	34.9019	117.155	18-Jun-58	2118.62	2197.4	79	93742	Harper River
09N03W02H02S	34.9019	117.1553	18-Jun-58	2116.74	2199.77	83	93743	Harper River
09N03W02K01S	34.8983	117.1594	18-Jun-58	2145.14	2201.7	57	93744	Harper River
09N03W02K01S	34.8983	117.1595	18-Jun-58	2145.14	2201.7	57	93745	Harper River
09N03W02M01S	34.8983	117.1684	19-Jun-58	2154.1	2235	81	93747	Harper River
09N03W02M01S	34.8983	117.1683	19-Jun-58	2154.1	2235	81	93746	Harper River
09N03W02Q01S	34.8947	117.1594	18-Jun-58	2173.45	2220	47	93748	Harper River
09N03W02Q01S	34.8947	117.1595	18-Jun-58	2173.45	2220	47	93749	Harper River
09N03W02Q03S	34.8947	117.1592	18-Jun-58	2155.48	2200	45	93750	Harper River
09N03W03A01S	34.9056	117.1728	27-Oct-54	2141.5	2240	98	93751	Harper River
09N03W03A01S	34.9056	117.1728	05-May-55	2139.6	2240	100	93752	Harper River
09N03W03A02S	34.9056	117.1733	19-Jun-58	2145.31	2240	95	93753	Harper River
09N03W03A02S	34.9056	117.1734	19-Jun-58	2145.31	2240	95	93754	Harper River
09N03W03G01S	34.9019	117.1772	19-Jun-58	2150.95	2235	84	93755	Harper River
09N03W03H01S	34.9019	117.1728	02-Jul-54	2152.5	2245	92	93756	Harper River
09N03W03J01S	34.8981	117.1728	04-Apr-30	2176.1	2240.5	64	93757	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N03W03J01S	34.8981	117.1728	19-Dec-30	2175.6	2240.5	65	93758	Harper River
09N03W03J01S	34.8981	117.1728	17-Mar-31	2175.4	2240.5	65	93759	Harper River
09N03W03J01S	34.8981	117.1728	06-Aug-31	2175	2240.5	66	93760	Harper River
09N03W03J01S	34.8981	117.1728	04-Mar-32	2174	2240.5	66	93761	Harper River
09N03W03J01S	34.8981	117.1728	29-Mar-32	2174.2	2240.5	66	93762	Harper River
09N03W03J01S	34.8981	117.1728	26-Jul-32	2175.3	2240.5	65	93763	Harper River
09N03W03J02S	34.8975	117.1711	20-Jan-93	2151.13	2240	89	93764	Harper River
09N03W03J02S	34.8975	117.1711	21-May-96	2150.28	2240	90	93765	Harper River
09N03W10A01S	34.8908	117.1728	04-Apr-30	2178.1	2256	78	93766	Harper River
09N03W10A01S	34.8908	117.1728	19-Dec-30	2177	2256	79	93767	Harper River
09N03W10A01S	34.8908	117.1728	17-Mar-31	2176.7	2256	79	93768	Harper River
09N03W10A01S	34.8908	117.1728	06-Aug-31	2176.1	2256	80	93769	Harper River
09N03W10A01S	34.8908	117.1728	04-Feb-32	2175.2	2256	81	93770	Harper River
09N03W10A01S	34.8908	117.1728	04-Mar-32	2175.2	2256	81	93771	Harper River
09N03W10A01S	34.8908	117.1728	29-Mar-32	2175.6	2256	80	93772	Harper River
09N03W10A01S	34.8908	117.1728	26-Jul-32	2177.6	2256	78	93773	Harper River
09N03W10A01S	34.8908	117.1728	22-Dec-32	2178.7	2256	77	93774	Harper River
09N03W10A01S	34.8908	117.1728	21-Jan-35	2175.78	2256	80	93775	Harper River
09N03W10A01S	34.8908	117.1728	12-Nov-35	2176.35	2256	80	93776	Harper River
09N03W10A01S	34.8908	117.1728	26-Mar-36	2176.05	2256	80	93777	Harper River
09N03W10A01S	34.8908	117.1728	15-Jan-37	2175	2256	81	93778	Harper River
09N03W10A01S	34.8908	117.1728	16-Apr-37	2174.9	2256	81	93779	Harper River
09N03W10A01S	34.8908	117.1728	08-Dec-37	2178.75	2256	77	93780	Harper River
09N03W10A01S	34.8908	117.1728	01-Jun-38	2180.27	2256	76	93781	Harper River
09N03W10A01S	34.8908	117.1728	11-Nov-38	2181.79	2256	74	93782	Harper River
09N03W10A01S	34.8908	117.1728	24-May-39	2181.87	2256	74	93783	Harper River
09N03W10A01S	34.8908	117.1728	25-Nov-39	2181.5	2256	74	93784	Harper River
09N03W10A01S	34.8908	117.1728	24-May-40	2180.54	2256	75	93785	Harper River
09N03W10A01S	34.8908	117.1728	05-Dec-40	2178.63	2256	77	93786	Harper River
09N03W10A01S	34.8908	117.1728	10-Jun-41	2180.46	2256	76	93787	Harper River
09N03W10A01S	34.8908	117.1728	13-Nov-41	2181.77	2256	74	93788	Harper River
09N03W10A01S	34.8908	117.1728	08-May-42	2181.15	2256	75	93789	Harper River
09N03W10A01S	34.8908	117.1728	27-Nov-42	2179.78	2256	76	93790	Harper River
09N03W10A01S	34.8908	117.1728	13-May-43	2180.77	2256	75	93791	Harper River
09N03W10H01S	34.8872	117.1728	07-Mar-67	2164.33	2270	106	93792	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N03W10P01S	34.88	117.1814	04-Apr-30	2199.7	2290	90	93793	Harper River
09N03W10P01S	34.88	117.1814	25-Feb-31	2199.1	2290	91	93794	Harper River
09N03W10P01S	34.88	117.1814	24-May-39	2200.21	2290	90	93795	Harper River
09N03W10P01S	34.88	117.1814	25-Nov-39	2200.5	2290	90	93796	Harper River
09N03W10P01S	34.88	117.1814	24-May-40	2200.14	2290	90	93797	Harper River
09N03W10P01S	34.88	117.1814	13-Nov-41	2200.42	2290	90	93798	Harper River
09N03W10P01S	34.88	117.1814	08-May-42	2200.54	2290	89	93799	Harper River
09N03W10P01S	34.88	117.1814	27-Nov-42	2200.48	2290	90	93800	Harper River
09N03W10P01S	34.88	117.1814	13-May-43	2200.42	2290	90	93801	Harper River
09N03W10P01S	34.88	117.1814	22-Dec-43	2201	2290	89	93802	Harper River
09N03W10P01S	34.88	117.1814	22-Apr-44	2200.83	2290	89	93803	Harper River
09N03W10P01S	34.88	117.1814	13-Dec-44	2201.34	2290	89	93804	Harper River
09N03W10P01S	34.88	117.1814	04-May-45	2201.28	2290	89	93805	Harper River
09N03W10P01S	34.88	117.1814	27-Nov-45	2201.68	2290	88	93806	Harper River
09N03W10P01S	34.88	117.1814	26-Apr-46	2201.4	2290	89	93807	Harper River
09N03W10P01S	34.88	117.1814	03-Sep-46	2201.7	2290	88	93808	Harper River
09N03W10P01S	34.88	117.1814	15-Oct-46	2201.2	2290	89	93809	Harper River
09N03W10P01S	34.88	117.1814	18-Nov-46	2201.6	2290	88	93810	Harper River
09N03W10P01S	34.88	117.1814	17-Dec-46	2201.6	2290	88	93811	Harper River
09N03W10P01S	34.88	117.1814	01-Jan-47	2201.6	2290	88	93812	Harper River
09N03W10P01S	34.88	117.1814	20-Feb-47	2201.5	2290	88	93813	Harper River
09N03W10P01S	34.88	117.1814	21-Mar-47	2201.5	2290	88	93814	Harper River
09N03W10P01S	34.88	117.1814	30-Apr-47	2201.7	2290	88	93815	Harper River
09N03W10P01S	34.88	117.1814	15-May-47	2201.7	2290	88	93816	Harper River
09N03W10P01S	34.88	117.1814	20-May-47	2201.7	2290	88	93817	Harper River
09N03W10P01S	34.88	117.1814	25-Jun-47	2201.9	2290	88	93818	Harper River
09N03W10P01S	34.88	117.1814	24-Jul-47	2202	2290	88	93819	Harper River
09N03W10P01S	34.88	117.1814	07-Aug-47	2202	2290	88	93820	Harper River
09N03W10P01S	34.88	117.1814	16-Sep-47	2201.7	2290	88	93821	Harper River
09N03W10P01S	34.88	117.1814	14-Oct-47	2201.4	2290	89	93822	Harper River
09N03W10P01S	34.88	117.1814	13-Nov-47	2201.7	2290	88	93823	Harper River
09N03W10P01S	34.88	117.1814	17-Feb-48	2201.5	2290	88	93824	Harper River
09N03W10P01S	34.88	117.1814	11-Mar-48	2201.4	2290	89	93825	Harper River
09N03W10P01S	34.88	117.1814	15-Apr-48	2201.1	2290	89	93826	Harper River
09N03W10P01S	34.88	117.1814	14-May-48	2201.13	2290	89	93827	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N03W10P01S	34.88	117.1814	14-Jun-48	2201.1	2290	89	93828	Harper River
09N03W10P01S	34.88	117.1814	14-Jul-48	2201.1	2290	89	93829	Harper River
09N03W10P01S	34.88	117.1814	10-Aug-48	2201	2290	89	93830	Harper River
09N03W10P01S	34.88	117.1814	14-Sep-48	2201	2290	89	93831	Harper River
09N03W10P01S	34.88	117.1814	13-Oct-48	2200.9	2290	89	93832	Harper River
09N03W10P01S	34.88	117.1814	18-Nov-48	2200.77	2290	89	93833	Harper River
09N03W10P01S	34.88	117.1814	09-Dec-48	2200.8	2290	89	93834	Harper River
09N03W10P01S	34.88	117.1814	17-Jan-49	2201	2290	89	93835	Harper River
09N03W10P01S	34.88	117.1814	17-Feb-49	2200.7	2290	89	93836	Harper River
09N03W10P01S	34.88	117.1814	14-Apr-49	2200.6	2290	89	93837	Harper River
09N03W10P01S	34.88	117.1814	09-May-49	2200.48	2290	90	93838	Harper River
09N03W10P01S	34.88	117.1814	16-Jun-49	2200.4	2290	90	93839	Harper River
09N03W10P01S	34.88	117.1814	18-Aug-49	2200.3	2290	90	93840	Harper River
09N03W10P01S	34.88	117.1814	19-Oct-49	2200.3	2290	90	93841	Harper River
09N03W10P01S	34.88	117.1814	16-Nov-49	2200.01	2290	90	93842	Harper River
09N03W10R01S	34.88	117.1728	11-Sep-30	2188.75	2209.2	20	93844	Harper River
09N03W10R01S	34.88	117.1728	11-Sep-30	2188.75	2209.2	20	93843	Harper River
09N03W10R01S	34.88	117.1728	19-Dec-30	2188.18	2209.2	21	93845	Harper River
09N03W10R01S	34.88	117.1728	19-Dec-30	2188.18	2209.2	21	93846	Harper River
09N03W10R01S	34.88	117.1728	17-Mar-31	2187.59	2209.2	22	93848	Harper River
09N03W10R01S	34.88	117.1728	17-Mar-31	2187.59	2209.2	22	93847	Harper River
09N03W10R01S	34.88	117.1728	05-Aug-31	2186.95	2209.2	22	93849	Harper River
09N03W10R01S	34.88	117.1728	05-Aug-31	2186.95	2209.2	22	93850	Harper River
09N03W10R01S	34.88	117.1728	04-Feb-32	2186.45	2209.2	23	93851	Harper River
09N03W10R01S	34.88	117.1728	04-Feb-32	2186.45	2209.2	23	93852	Harper River
09N03W10R01S	34.88	117.1728	04-Mar-32	2190.8	2209.2	18	93853	Harper River
09N03W10R01S	34.88	117.1728	04-Mar-32	2190.8	2209.2	18	93854	Harper River
09N03W10R01S	34.88	117.1728	29-Mar-32	2191.37	2209.2	18	93855	Harper River
09N03W10R01S	34.88	117.1728	29-Mar-32	2191.37	2209.2	18	93856	Harper River
09N03W10R01S	34.88	117.1728	26-Jul-32	2196.07	2209.2	13	93858	Harper River
09N03W10R01S	34.88	117.1728	26-Jul-32	2196.07	2209.2	13	93857	Harper River
09N03W10R01S	34.88	117.1728	07-Jan-35	2188.14	2209.2	21	93859	Harper River
09N03W10R01S	34.88	117.1728	07-Jan-35	2188.14	2209.2	21	93860	Harper River
09N03W10R01S	34.88	117.1728	08-Feb-35	2187.99	2209.2	21	93862	Harper River
09N03W10R01S	34.88	117.1728	08-Feb-35	2187.99	2209.2	21	93861	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N03W10R01S	34.88	117.1728	26-Mar-36	2189.42	2209.2	20	93863	Harper River
09N03W10R01S	34.88	117.1728	26-Mar-36	2189.42	2209.2	20	93864	Harper River
09N03W10R01S	34.88	117.1728	15-Jan-37	2186.85	2209.2	22	93865	Harper River
09N03W10R01S	34.88	117.1728	15-Jan-37	2186.85	2209.2	22	93866	Harper River
09N03W10R01S	34.88	117.1728	22-Jun-37	2196.45	2209.2	13	93867	Harper River
09N03W10R01S	34.88	117.1728	22-Jun-37	2196.45	2209.2	13	93868	Harper River
09N03W10R01S	34.88	117.1728	08-Dec-37	2196.18	2209.2	13	93869	Harper River
09N03W10R01S	34.88	117.1728	08-Dec-37	2196.18	2209.2	13	93870	Harper River
09N03W10R01S	34.88	117.1728	01-Jun-38	2200.15	2209.2	9	93871	Harper River
09N03W10R01S	34.88	117.1728	01-Jun-38	2200.15	2209.2	9	93872	Harper River
09N03W10R01S	34.88	117.1728	11-Nov-38	2199.03	2209.2	10	93874	Harper River
09N03W10R01S	34.88	117.1728	11-Nov-38	2199.03	2209.2	10	93873	Harper River
09N03W10R01S	34.88	117.1728	24-May-39	2198.53	2209.2	11	93875	Harper River
09N03W10R01S	34.88	117.1728	24-May-39	2198.53	2209.2	11	93876	Harper River
09N03W10R01S	34.88	117.1728	25-Nov-39	2196.1	2209.2	13	93878	Harper River
09N03W10R01S	34.88	117.1728	25-Nov-39	2196.1	2209.2	13	93877	Harper River
09N03W10R01S	34.88	117.1728	22-Apr-44	2200.34	2209.2	9	93879	Harper River
09N03W10R01S	34.88	117.1728	22-Apr-44	2200.34	2209.2	9	93880	Harper River
09N03W10R01S	34.88	117.1728	13-Dec-44	2197.58	2209.2	12	93882	Harper River
09N03W10R01S	34.88	117.1728	13-Dec-44	2197.58	2209.2	12	93881	Harper River
09N03W10R01S	34.88	117.1728	04-May-45	2201.08	2209.2	8	93884	Harper River
09N03W10R01S	34.88	117.1728	04-May-45	2201.08	2209.2	8	93883	Harper River
09N03W10R01S	34.88	117.1728	27-Nov-45	2197.83	2209.2	11	93885	Harper River
09N03W10R01S	34.88	117.1728	27-Nov-45	2197.83	2209.2	11	93886	Harper River
09N03W10R01S	34.88	117.1728	26-Apr-46	2199.67	2209.2	10	93888	Harper River
09N03W10R01S	34.88	117.1728	26-Apr-46	2199.67	2209.2	10	93887	Harper River
09N03W10R01S	34.88	117.1728	03-Sep-46	2197.9	2209.2	11	93890	Harper River
09N03W10R01S	34.88	117.1728	03-Sep-46	2197.9	2209.2	11	93889	Harper River
09N03W10R01S	34.88	117.1728	30-Sep-46	2197.9	2209.2	11	93892	Harper River
09N03W10R01S	34.88	117.1728	30-Sep-46	2197.9	2209.2	11	93891	Harper River
09N03W10R01S	34.88	117.1728	15-Oct-46	2197.8	2209.2	11	93893	Harper River
09N03W10R01S	34.88	117.1728	15-Oct-46	2197.8	2209.2	11	93894	Harper River
09N03W10R01S	34.88	117.1728	06-Nov-46	2197.6	2209.2	12	93895	Harper River
09N03W10R01S	34.88	117.1728	06-Nov-46	2197.6	2209.2	12	93896	Harper River
09N03W10R01S	34.88	117.1728	17-Dec-46	2197.9	2209.2	11	93898	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N03W10R01S	34.88	117.1728	17-Dec-46	2197.9	2209.2	11	93897	Harper River
09N03W10R01S	34.88	117.1728	07-Jan-47	2198.92	2209.2	10	93899	Harper River
09N03W10R01S	34.88	117.1728	07-Jan-47	2198.92	2209.2	10	93900	Harper River
09N03W10R01S	34.88	117.1728	21-Jan-47	2199.2	2209.2	10	93901	Harper River
09N03W10R01S	34.88	117.1728	21-Jan-47	2199.2	2209.2	10	93902	Harper River
09N03W10R01S	34.88	117.1728	20-Feb-47	2200.2	2209.2	9	93904	Harper River
09N03W10R01S	34.88	117.1728	20-Feb-47	2200.2	2209.2	9	93903	Harper River
09N03W10R01S	34.88	117.1728	21-Mar-47	2200.7	2209.2	8	93905	Harper River
09N03W10R01S	34.88	117.1728	21-Mar-47	2200.7	2209.2	8	93906	Harper River
09N03W10R01S	34.88	117.1728	30-Apr-47	2200.6	2209.2	9	93907	Harper River
09N03W10R01S	34.88	117.1728	30-Apr-47	2200.6	2209.2	9	93908	Harper River
09N03W10R01S	34.88	117.1728	20-May-47	2200.27	2209.2	9	93910	Harper River
09N03W10R01S	34.88	117.1728	20-May-47	2200.27	2209.2	9	93909	Harper River
09N03W10R01S	34.88	117.1728	29-May-47	2200.1	2209.2	9	93911	Harper River
09N03W10R01S	34.88	117.1728	29-May-47	2200.1	2209.2	9	93912	Harper River
09N03W10R01S	34.88	117.1728	25-Jun-47	2199.5	2209.2	10	93913	Harper River
09N03W10R01S	34.88	117.1728	25-Jun-47	2199.5	2209.2	10	93914	Harper River
09N03W10R01S	34.88	117.1728	24-Jul-47	2199	2209.2	10	93916	Harper River
09N03W10R01S	34.88	117.1728	24-Jul-47	2199	2209.2	10	93915	Harper River
09N03W10R01S	34.88	117.1728	07-Aug-47	2198.7	2209.2	10	93917	Harper River
09N03W10R01S	34.88	117.1728	07-Aug-47	2198.7	2209.2	10	93918	Harper River
09N03W10R01S	34.88	117.1728	13-Nov-47	2196.94	2209.2	12	93919	Harper River
09N03W10R01S	34.88	117.1728	13-Nov-47	2196.94	2209.2	12	93920	Harper River
09N03W10R01S	34.88	117.1728	27-Nov-51	2181.3	2209.2	28	93921	Harper River
09N03W10R01S	34.88	117.1728	27-Nov-51	2181.3	2209.2	28	93922	Harper River
09N03W10R01S	34.88	117.1728	30-May-52	2190.61	2209.2	19	93923	Harper River
09N03W10R01S	34.88	117.1728	30-May-52	2190.61	2209.2	19	93924	Harper River
09N03W10R01S	34.88	117.1728	26-Nov-52	2189.89	2209.2	19	93925	Harper River
09N03W10R01S	34.88	117.1728	26-Nov-52	2189.89	2209.2	19	93926	Harper River
09N03W10R01S	34.88	117.1728	16-Jan-53	2189.14	2209.2	20	93928	Harper River
09N03W10R01S	34.88	117.1728	16-Jan-53	2189.14	2209.2	20	93927	Harper River
09N03W10R01S	34.88	117.1728	18-Feb-53	2188.37	2209.2	21	93929	Harper River
09N03W10R01S	34.88	117.1728	18-Feb-53	2188.37	2209.2	21	93930	Harper River
09N03W10R01S	34.88	117.1728	17-Mar-53	2188	2209.2	21	93931	Harper River
09N03W10R01S	34.88	117.1728	17-Mar-53	2188	2209.2	21	93932	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N03W10R01S	34.88	117.1728	14-Apr-53	2186.34	2209.2	23	93933	Harper River
09N03W10R01S	34.88	117.1728	14-Apr-53	2186.34	2209.2	23	93934	Harper River
09N03W10R01S	34.88	117.1728	27-May-53	2186.73	2209.2	22	93935	Harper River
09N03W10R01S	34.88	117.1728	27-May-53	2186.73	2209.2	22	93936	Harper River
09N03W10R01S	34.88	117.1728	12-Nov-53	2183.25	2209.2	26	93937	Harper River
09N03W10R01S	34.88	117.1728	12-Nov-53	2183.25	2209.2	26	93938	Harper River
09N03W10R01S	34.88	117.1728	21-Jan-54	2182.9	2209.2	26	93939	Harper River
09N03W10R01S	34.88	117.1728	21-Jan-54	2182.9	2209.2	26	93940	Harper River
09N03W10R01S	34.88	117.1728	13-May-54	2184.5	2209.2	25	93941	Harper River
09N03W10R01S	34.88	117.1728	13-May-54	2184.5	2209.2	25	93942	Harper River
09N03W10R01S	34.88	117.1728	17-Nov-54	2182.26	2209.2	27	93944	Harper River
09N03W10R01S	34.88	117.1728	17-Nov-54	2182.26	2209.2	27	93943	Harper River
09N03W10R01S	34.88	117.1728	14-Apr-55	2180.09	2209.2	29	93946	Harper River
09N03W10R01S	34.88	117.1728	14-Apr-55	2180.09	2209.2	29	93945	Harper River
09N03W10R01S	34.88	117.1728	12-Dec-55	2177.6	2209.2	32	93948	Harper River
09N03W10R01S	34.88	117.1728	12-Dec-55	2177.6	2209.2	32	93947	Harper River
09N03W10R01S	34.88	117.1728	02-May-57	2171.13	2209.2	38	93949	Harper River
09N03W10R01S	34.88	117.1728	02-May-57	2171.13	2209.2	38	93950	Harper River
09N03W10R01S	34.88	117.1728	02-Dec-57	2167.78	2209.2	41	93952	Harper River
09N03W10R01S	34.88	117.1728	02-Dec-57	2167.78	2209.2	41	93951	Harper River
09N03W10R01S	34.88	117.1728	25-Mar-58	2168.15	2209.2	41	93954	Harper River
09N03W10R01S	34.88	117.1728	25-Mar-58	2168.15	2209.2	41	93953	Harper River
09N03W10R01S	34.88	117.1728	20-Jun-58	2180.9	2209.2	28	93956	Harper River
09N03W10R01S	34.88	117.1728	20-Jun-58	2180.9	2209.2	28	93955	Harper River
09N03W11C01S	34.8925	117.1656	20-Jan-93	2142.82	2220	77	93957	Harper River
09N03W11C01S	34.8925	117.1656	05-Apr-96	2150.13	2220	70	93958	Harper River
09N03W11C01S	34.8925	117.1656	01-Apr-98	2146.78	2220	73	93959	Harper River
09N03W11C01S	34.8925	117.1656	22-Mar-00	2147.96	2220	72	93960	Harper River
09N03W11C01S	34.8925	117.1656	13-Mar-02	2147.2	2220	73	93961	Harper River
09N03W11C01S	34.8925	117.1656	14-Mar-02	2147.2	2220	73	93962	Harper River
09N03W11C01S	34.8925	117.1656	11-Mar-04	2145.67	2220	74	93963	Harper River
09N03W11C01S	34.8925	117.1656	22-Mar-06	1958.87	2220	72.13	124641	Harper River
09N03W11D01S	34.8911	117.1683	19-Jun-58	2165.71	2240	74	93964	Harper River
09N03W11D01S	34.8911	117.1684	19-Jun-58	2165.71	2240	74	93965	Harper River
09N03W11E01S	34.8875	117.1684	19-Dec-30	2195.5	2220	24	93973	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
09N03W11E01S	34.8875	117.1683	19-Dec-30	2195.5	2220	24	93966	Harper River
09N03W11E01S	34.8875	117.1684	17-Mar-31	2195.1	2220	25	93974	Harper River
09N03W11E01S	34.8875	117.1683	17-Mar-31	2195.1	2220	25	93967	Harper River
09N03W11E01S	34.8875	117.1683	04-Feb-32	2193.8	2220	26	93968	Harper River
09N03W11E01S	34.8875	117.1684	04-Feb-32	2193.8	2220	26	93975	Harper River
09N03W11E01S	34.8875	117.1683	04-Mar-32	2195.8	2220	24	93969	Harper River
09N03W11E01S	34.8875	117.1684	04-Mar-32	2195.8	2220	24	93976	Harper River
09N03W11E01S	34.8875	117.1683	29-Mar-32	2197.2	2220	23	93970	Harper River
09N03W11E01S	34.8875	117.1684	29-Mar-32	2197.2	2220	23	93977	Harper River
09N03W11E01S	34.8875	117.1683	26-Jul-32	2200.5	2220	20	93971	Harper River
09N03W11E01S	34.8875	117.1684	26-Jul-32	2200.5	2220	20	93978	Harper River
09N03W11E01S	34.8875	117.1683	22-Dec-32	2200	2220	20	93972	Harper River
09N03W11E01S	34.8875	117.1684	22-Dec-32	2200	2220	20	93979	Harper River
09N03W16M01S	34.8689	117.2034	01-Dec-58	2197.97	2345	147	94404	Harper River
09N03W16M01S	34.8689	117.2033	01-Dec-58	2197.97	2345	147	94402	Harper River
09N03W16M01S	34.8689	117.2034	12-May-64	2255	2345	90	94405	Harper River
09N03W16M01S	34.8689	117.2033	12-May-64	2255	2345	90	94403	Harper River
10N02W19P01S	34.9392	117.1275	04-Apr-30	2153.14	2216	63	103679	Harper River
10N02W19P01S	34.9392	117.1275	19-Dec-30	2152.74	2216	63	103680	Harper River
10N02W19P01S	34.9392	117.1275	21-May-31	2152.44	2216	64	103681	Harper River
10N02W19P01S	34.9392	117.1275	12-Aug-31	2152.17	2216	64	103682	Harper River
10N02W19P01S	34.9392	117.1275	10-Mar-32	2151.82	2216	64	103683	Harper River
10N02W19P01S	34.9392	117.1275	06-Jul-32	2149.24	2216	67	103684	Harper River
10N02W19P01S	34.9392	117.1275	11-Jan-33	2151.44	2216	65	103685	Harper River
10N02W19P01S	34.9392	117.1275	01-Mar-35	2150.14	2216	66	103686	Harper River
10N02W19P01S	34.9392	117.1275	15-Jan-37	2150.09	2216	66	103687	Harper River
10N02W19P01S	34.9392	117.1275	08-Dec-37	2149.77	2216	66	103688	Harper River
10N02W19P01S	34.9392	117.1275	01-Jun-38	2149.79	2216	66	103689	Harper River
10N02W19P01S	34.9392	117.1275	18-Nov-38	2149.05	2216	67	103690	Harper River
10N02W19P01S	34.9392	117.1275	23-May-39	2147.83	2216	68	103691	Harper River
10N02W19P01S	34.9392	117.1275	25-Nov-39	2149.18	2216	67	103692	Harper River
10N02W19P01S	34.9392	117.1275	24-May-40	2149.77	2216	66	103693	Harper River
10N02W19P01S	34.9392	117.1275	01-Nov-40	2149.21	2216	67	103694	Harper River
10N02W19P01S	34.9392	117.1275	10-Jun-41	2149.19	2216	67	103695	Harper River
10N02W19P01S	34.9392	117.1275	13-Nov-41	2149.62	2216	66	103696	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N02W19P01S	34.9392	117.1275	13-May-43	2149.59	2216	66	103697	Harper River
10N02W19P01S	34.9392	117.1275	28-Dec-43	2149.49	2216	67	103698	Harper River
10N02W19P01S	34.9392	117.1275	12-Dec-44	2149.52	2216	66	103699	Harper River
10N02W19P01S	34.9392	117.1275	04-May-45	2149.62	2216	66	103700	Harper River
10N02W19P01S	34.9392	117.1275	27-Nov-46	2149.51	2216	66	103701	Harper River
10N02W19P01S	34.9392	117.1275	07-Jan-47	2149.95	2216	66	103702	Harper River
10N02W19P01S	34.9392	117.1275	13-Nov-47	2149.09	2216	67	103703	Harper River
10N02W19P01S	34.9392	117.1275	17-May-48	2149.62	2216	66	103704	Harper River
10N02W19P01S	34.9392	117.1275	18-Nov-48	2149.31	2216	67	103705	Harper River
10N02W19P01S	34.9392	117.1275	07-May-49	2149.08	2216	67	103706	Harper River
10N02W19P01S	34.9392	117.1275	01-Nov-50	2148.5	2216	68	103707	Harper River
10N02W19P01S	34.9392	117.1275	01-May-51	2148.17	2216	68	103708	Harper River
10N02W19P01S	34.9392	117.1275	08-Nov-51	2147.71	2216	68	103709	Harper River
10N02W19P01S	34.9392	117.1275	16-May-52	2147.15	2216	69	103710	Harper River
10N02W19P01S	34.9392	117.1275	28-Nov-52	2146.36	2216	70	103711	Harper River
10N02W19P01S	34.9392	117.1275	30-May-53	2145.86	2216	70	103712	Harper River
10N02W19P01S	34.9392	117.1275	17-Dec-53	2143.04	2216	73	103713	Harper River
10N02W19P01S	34.9392	117.1275	17-May-54	2140.58	2216	75	103714	Harper River
10N02W19P01S	34.9392	117.1275	15-Apr-55	2140.54	2216	75	103715	Harper River
10N02W19P01S	34.9392	117.1275	13-Dec-55	2138.84	2216	77	103716	Harper River
10N02W19P01S	34.9392	117.1275	13-Apr-56	2138.4	2216	78	103717	Harper River
10N02W19P01S	34.9392	117.1275	05-Nov-56	2133.64	2216	82	103718	Harper River
10N02W19P01S	34.9392	117.1275	05-Dec-56	2136.6	2216	79	103719	Harper River
10N02W19P01S	34.9392	117.1275	02-Jan-57	2136.51	2216	79	103720	Harper River
10N02W19P01S	34.9392	117.1275	06-Feb-57	2136.44	2216	80	103721	Harper River
10N02W19P01S	34.9392	117.1275	06-Mar-57	2136.22	2216	80	103722	Harper River
10N02W19P01S	34.9392	117.1275	03-Apr-57	2135.8	2216	80	103723	Harper River
10N02W19P01S	34.9392	117.1275	02-May-57	2135.7	2216	80	103724	Harper River
10N02W19P01S	34.9392	117.1275	03-Jun-57	2135.23	2216	81	103725	Harper River
10N02W19P01S	34.9392	117.1275	02-Jul-57	2135	2216	81	103726	Harper River
10N02W19P01S	34.9392	117.1275	01-Aug-57	2132.65	2216	83	103727	Harper River
10N02W19P01S	34.9392	117.1275	28-Aug-57	2134.57	2216	81	103728	Harper River
10N02W19P01S	34.9392	117.1275	02-Oct-57	2134.06	2216	82	103729	Harper River
10N02W19P01S	34.9392	117.1275	03-Dec-57	2134.31	2216	82	103730	Harper River
10N02W19P01S	34.9392	117.1275	26-Mar-58	2133.98	2216	82	103731	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N02W19P01S	34.9392	117.1275	06-Aug-58	2132.61	2216	83	103732	Harper River
10N02W19P01S	34.9392	117.1275	05-Sep-58	2132.11	2216	84	103733	Harper River
10N02W19P01S	34.9392	117.1275	06-Nov-58	2132.46	2216	84	103734	Harper River
10N02W19P01S	34.9392	117.1275	08-Jan-59	2132.61	2216	83	103735	Harper River
10N02W19P01S	34.9392	117.1275	01-Feb-59	2133	2216	83	103736	Harper River
10N02W19P01S	34.9392	117.1275	04-Feb-59	2132.92	2216	83	103737	Harper River
10N02W30D01S	34.9361	117.135	19-Jan-93	2093.06	2180	87	103739	Harper River
10N02W30D01S	34.9361	117.135	23-Apr-96	2101.25	2180	79	103740	Harper River
10N02W30N01S	34.9222	117.1317	04-Apr-30	2158.9	2177	18	103741	Harper River
10N02W30N01S	34.9222	117.1317	19-Dec-30	2158.2	2177	19	103742	Harper River
10N02W30N01S	34.9222	117.1317	27-Mar-31	2158.4	2177	19	103743	Harper River
10N02W30N01S	34.9222	117.1317	13-Sep-31	2156.7	2177	20	103744	Harper River
10N02W30N01S	34.9222	117.1317	17-Nov-31	2156.6	2177	20	103745	Harper River
10N02W30N01S	34.9222	117.1317	04-Mar-32	2157.6	2177	19	103746	Harper River
10N02W30N01S	34.9222	117.1317	29-Mar-32	2157.1	2177	20	103747	Harper River
10N02W30N01S	34.9222	117.1317	21-Apr-32	2156.6	2177	20	103748	Harper River
10N02W30N01S	34.9222	117.1317	12-May-32	2157.2	2177	20	103749	Harper River
10N02W30N01S	34.9222	117.1317	06-Jul-32	2153.9	2177	23	103750	Harper River
10N02W30N01S	34.9222	117.1317	11-Jan-33	2158.4	2177	19	103751	Harper River
10N02W30N01S	34.9222	117.1317	01-Jan-34	2158	2177	19	103752	Harper River
10N02W30N01S	34.9222	117.1317	10-Jan-34	2158.1	2177	19	103753	Harper River
10N02W30N01S	34.9222	117.1317	21-Jan-35	2157.4	2177	20	103754	Harper River
10N02W30N01S	34.9222	117.1317	12-Nov-35	2156.38	2177	21	103755	Harper River
10N02W30N01S	34.9222	117.1317	26-Mar-36	2155	2177	22	103756	Harper River
10N02W30N01S	34.9222	117.1317	14-Jan-37	2153.8	2177	23	103757	Harper River
10N02W30N01S	34.9222	117.1317	06-Apr-37	2156.15	2177	21	103758	Harper River
10N02W30N01S	34.9222	117.1317	08-Dec-37	2156.65	2177	20	103759	Harper River
10N02W30N01S	34.9222	117.1317	11-Nov-38	2153.05	2177	24	103760	Harper River
10N02W30N01S	34.9222	117.1317	23-May-39	2156.82	2177	20	103761	Harper River
10N02W30N01S	34.9222	117.1317	25-Nov-39	2157.71	2177	19	103762	Harper River
10N02W30N01S	34.9222	117.1317	24-May-40	2155.83	2177	21	103763	Harper River
10N02W30N01S	34.9222	117.1317	05-Dec-40	2156.7	2177	20	103764	Harper River
10N02W30N01S	34.9222	117.1317	10-Jun-41	2155.57	2177	21	103765	Harper River
10N02W30N01S	34.9222	117.1317	13-Nov-41	2158.23	2177	19	103766	Harper River
10N02W30N01S	34.9222	117.1317	08-May-42	2157.65	2177	19	103767	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N02W30N01S	34.9222	117.1317	27-Nov-42	2157.06	2177	20	103768	Harper River
10N02W30N01S	34.9222	117.1317	22-Apr-44	2155.89	2177	21	103769	Harper River
10N02W30N01S	34.9222	117.1317	12-Dec-44	2156.79	2177	20	103770	Harper River
10N02W30N01S	34.9222	117.1317	04-May-45	2154.89	2177	22	103771	Harper River
10N02W30N01S	34.9222	117.1317	27-Nov-45	2157.02	2177	20	103772	Harper River
10N02W30N01S	34.9222	117.1317	26-Apr-46	2156.13	2177	21	103773	Harper River
10N02W30N01S	34.9222	117.1317	07-Jan-47	2157.28	2177	20	103774	Harper River
10N02W30N01S	34.9222	117.1317	20-May-47	2155.84	2177	21	103775	Harper River
10N02W30N01S	34.9222	117.1317	13-Nov-47	2153.98	2177	23	103776	Harper River
10N02W30N01S	34.9222	117.1317	17-May-48	2153.06	2177	24	103777	Harper River
10N02W30N01S	34.9222	117.1317	18-Nov-48	2152.35	2177	25	103778	Harper River
10N02W30N01S	34.9222	117.1317	16-Nov-49	2151.54	2177	25	103779	Harper River
10N02W30N01S	34.9222	117.1317	08-Nov-50	2147.33	2177	30	103780	Harper River
10N02W30N01S	34.9222	117.1317	28-Nov-51	2146.5	2177	30	103781	Harper River
10N02W30N02S	34.9239	117.1331	10-Feb-55	2143	2180	37	103782	Harper River
10N02W30N04S	34.9225	117.1348	01-May-59	2126	2180	54	103785	Harper River
10N02W30N04S	34.9225	117.1347	01-May-59	2126	2180	54	103783	Harper River
10N02W30N04S	34.9225	117.1347	21-May-59	2126	2180	54	103784	Harper River
10N02W30N04S	34.9225	117.1348	21-May-59	2126	2180	54	103786	Harper River
10N02W30P01S	34.9239	117.1286	21-May-59	2131.2	2180	49	103787	Harper River
10N02W30Q04S	34.9247	117.1242	29-May-59	2140	2175	35	103788	Harper River
10N02W30Q05S	34.9222	117.1222	21-May-59	2135.1	2175	40	103789	Harper River
10N02W31C01S	34.92	117.1286	02-Dec-58	2139.74	2180	40	103814	Harper River
10N02W31D01S	34.9217	117.1342	19-Jan-93	2089.72	2175	85	103815	Harper River
10N02W31D01S	34.9217	117.1342	23-Apr-96	2108.9	2175	66	103816	Harper River
10N02W31D01S	34.9217	117.1342	31-Mar-98	2108.04	2175	67	103817	Harper River
10N02W31D01S	34.9217	117.1342	21-Mar-00	2109.04	2175	66	103818	Harper River
10N02W31D01S	34.9217	117.1342	10-Mar-04	2102.51	2175	72	103819	Harper River
10N02W31D01S	34.9217	117.1342	30-Mar-04	2101.72	2175	73	103820	Harper River
10N02W31D01S	34.9217	117.1342	22-Mar-06	2107.69	2175	67.31	124642	Harper River
10N02W31E01S	34.9164	117.1331	07-Dec-58	2140	2180	40	103821	Harper River
10N02W31E03S	34.9158	117.1331	01-Dec-58	2139.45	2180	41	103822	Harper River
10N02W31N01S	34.9092	117.1331	16-Mar-32	2165.7	2183	17	103834	Harper River
10N03W02J01S	34.9861	117.155	06-Jan-59	2095.8	2150	54	105565	Harper North
10N03W02J02S	34.9858	117.155	06-May-54	2101.78	2158	56	105566	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W02Q01S	34.9822	117.1594	14-Dec-53	2100.43	2140	40	105567	Harper North
10N03W02Q01S	34.9822	117.1595	14-Dec-53	2100.43	2140	40	105569	Harper North
10N03W02Q01S	34.9822	117.1595	06-Dec-59	2095.8	2140	44	105570	Harper North
10N03W02Q01S	34.9822	117.1594	06-Dec-59	2095.8	2140	44	105568	Harper North
10N03W02Q02S	34.9819	117.1595	05-Feb-56	2102	2140	38	105572	Harper North
10N03W02Q02S	34.9819	117.1594	05-Feb-56	2102	2140	38	105571	Harper North
10N03W02R01S	34.9822	117.155	06-Jan-59	2090	2145	55	105573	Harper North
10N03W04H01S	34.9897	117.1906	02-Sep-53	2051.8	2100	48	105574	Harper North
10N03W04H01S	34.9897	117.1906	06-May-54	2051.25	2100	49	105575	Harper North
10N03W04H02S	34.99	117.1886	18-Nov-92	2025.33	2100	75	105576	Harper North
10N03W04H02S	34.99	117.1886	17-Apr-96	2025.54	2100	74	105577	Harper North
10N03W04H02S	34.99	117.1886	16-Mar-98	2022.82	2100	77	105578	Harper North
10N03W04H02S	34.99	117.1886	22-Mar-00	2022.82	2100	77	105579	Harper North
10N03W04H02S	34.99	117.1886	10-Mar-04	2021.87	2100	78	105580	Harper North
10N03W04H02S	34.99	117.1886	21-Mar-06	2021.32	2100	78.68	124637	Harper North
10N03W04L01S	34.9861	117.1994	08-Nov-19	2080.4	2115	35	105581	Harper North
10N03W04L01S	34.9861	117.1995	08-Nov-19	2080.4	2115	35	105583	Harper North
10N03W04L01S	34.9861	117.1994	25-Feb-31	2079.6	2115	35	105582	Harper North
10N03W04L01S	34.9861	117.1995	25-Feb-31	2079.6	2115	35	105584	Harper North
10N03W06B01S	34.9936	117.23	08-May-42	2043.51	2043.8	0	105585	Harper South
10N03W06B01S	34.9936	117.23	08-Nov-50	2040.06	2043.8	4	105586	Harper South
10N03W06B01S	34.9936	117.23	16-May-51	2040.47	2043.8	3	105587	Harper South
10N03W06B01S	34.9936	117.23	27-Nov-51	2039.6	2043.8	4	105588	Harper South
10N03W06B01S	34.9936	117.23	30-May-52	2040.47	2043.8	3	105589	Harper South
10N03W06B01S	34.9936	117.23	26-Nov-52	2039.58	2043.8	4	105590	Harper South
10N03W06B01S	34.9936	117.23	13-Nov-53	2038.25	2043.8	6	105591	Harper South
10N03W06B01S	34.9936	117.23	17-May-54	2037.4	2043.8	6	105592	Harper South
10N03W06B01S	34.9936	117.23	22-Nov-54	2036.59	2043.8	7	105593	Harper South
10N03W06B01S	34.9936	117.23	14-Apr-55	2038.93	2043.8	5	105594	Harper South
10N03W06B01S	34.9936	117.23	12-Dec-55	2037.85	2043.8	6	105595	Harper South
10N03W06B01S	34.9936	117.23	12-Apr-56	2038.35	2043.8	5	105596	Harper South
10N03W06B01S	34.9936	117.23	21-Dec-56	2038.8	2043.8	5	105597	Harper South
10N03W09H01S	34.975	117.1906	05-May-54	2081.89	2154	72	105598	Harper South
10N03W09J01S	34.9711	117.1906	06-Jan-59	2076.18	2155	79	105599	Harper South
10N03W09R01S	34.9675	117.1906	06-Jan-59	2075	2155	80	105600	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W10J01S	34.9714	117.1728	07-Jan-58	2085.66	2135	49	105601	Harper North
10N03W10J02S	34.9711	117.1728	07-Jan-59	2085.15	2135	50	105602	Harper North
10N03W10R01S	34.9578	117.1714	15-Dec-53	2089.58	2135	45	105603	Harper River
10N03W10R01S	34.9578	117.1714	04-Mar-55	2089.4	2135	46	105604	Harper River
10N03W10R01S	34.9578	117.1714	18-Nov-55	2087.42	2135	48	105605	Harper River
10N03W10R01S	34.9578	117.1714	23-Mar-56	2085.66	2135	49	105606	Harper River
10N03W10R01S	34.9578	117.1714	08-Nov-57	2084.11	2135	51	105607	Harper River
10N03W10R01S	34.9578	117.1714	11-Mar-58	2084.85	2135	50	105608	Harper River
10N03W10R01S	34.9578	117.1714	06-Nov-58	2083.3	2135	52	105609	Harper River
10N03W10R01S	34.9578	117.1714	07-Jan-59	2084.43	2135	51	105610	Harper River
10N03W10R01S	34.9578	117.1714	12-Mar-59	2059.95	2135	75	105611	Harper River
10N03W10R01S	34.9578	117.1714	08-Mar-64	2077.65	2135	57	105619	Harper River
10N03W10R01S	34.9578	117.1714	19-Oct-66	2068.78	2135	66	105623	Harper River
10N03W10R01S	34.9578	117.1714	15-Mar-67	2075.55	2135	59	105624	Harper River
10N03W10R01S	34.9578	117.1714	23-Oct-67	2070.38	2135	65	105625	Harper River
10N03W10R01S	34.9578	117.1714	11-Apr-68	2069.62	2135	65	105626	Harper River
10N03W10R01S	34.9578	117.1714	14-Nov-68	2073.21	2135	62	105627	Harper River
10N03W10R01S	34.9578	117.1714	08-Apr-69	2072.16	2135	63	105628	Harper River
10N03W10R01S	34.9578	117.1714	28-Oct-69	2073.18	2135	62	105629	Harper River
10N03W10R01S	34.9578	117.1714	23-Mar-70	2070.22	2135	65	105630	Harper River
10N03W10R01S	34.9578	117.1714	14-Apr-71	2069.74	2135	65	105631	Harper River
10N03W11L04S	34.9703	117.165	16-Apr-75	2072.06	2132.06	60	105632	Harper North
10N03W11L04S	34.9703	117.1651	16-Apr-75	2072.06	2132.06	60	105634	Harper North
10N03W11L04S	34.9703	117.1651	19-Jan-93	2071.81	2132.06	60	105635	Harper North
10N03W11L04S	34.9703	117.165	19-Jan-93	2071.81	2132.06	60	105633	Harper North
10N03W11L05S	34.9728	117.165	18-Nov-92	2066.91	2130	63	105636	Harper North
10N03W11L05S	34.9728	117.165	17-Apr-96	2067.47	2130	63	105637	Harper North
10N03W11L05S	34.9728	117.165	17-Mar-98	2066.31	2130	64	105638	Harper North
10N03W11L05S	34.9728	117.165	22-Mar-00	2065.62	2130	64	105639	Harper North
10N03W11M01S	34.9714	117.1683	07-Jan-58	2087.22	2135	48	105640	Harper North
10N03W11M01S	34.9714	117.1684	07-Jan-58	2087.22	2135	48	105641	Harper North
10N03W11M02S	34.9711	117.1684	07-Jan-59	2085	2125	40	105643	Harper North
10N03W11M02S	34.9711	117.1683	07-Jan-59	2085	2125	40	105642	Harper North
10N03W11M03S	34.9708	117.1684	07-Jan-59	2090	2130	40	105645	Harper North
10N03W11M03S	34.9708	117.1683	07-Jan-59	2090	2130	40	105644	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W11M04S	34.9711	117.1703	18-Nov-92	2067.47	2133	66	105646	Harper North
10N03W11M04S	34.9711	117.1703	17-Apr-96	2066.6	2133	66	105647	Harper North
10N03W11M04S	34.9711	117.1703	18-Mar-98	2066.72	2133	66	105648	Harper North
10N03W11M04S	34.9711	117.1703	24-Apr-00	2065.87	2133	67	105649	Harper North
10N03W11M04S	34.9711	117.1703	11-Mar-04	2066.18	2133	67	105650	Harper North
10N03W11M04S	34.9711	117.1703	22-Mar-06	2066.25	2133	66.75	124643	Harper North
10N03W11N01S	34.9678	117.1684	22-Dec-32	2109.1	2141.9	33	105652	Harper North
10N03W11N01S	34.9678	117.1683	22-Dec-32	2109.1	2141.9	33	105651	Harper North
10N03W14F02S	34.9592	117.1625	19-Jan-93	2067.28	2145	78	105653	Harper River
10N03W14G01S	34.9603	117.1598	08-Jan-59	2086.21	2145	59	105655	Harper River
10N03W14G01S	34.9603	117.1597	08-Jan-59	2086.21	2145	59	105654	Harper River
10N03W14N01S	34.9531	117.1684	28-Nov-19	2124.3	2150	26	105657	Harper River
10N03W14N01S	34.9531	117.1683	28-Nov-19	2124.3	2150	26	105656	Harper River
10N03W15H01S	34.9603	117.1728	06-May-54	2092.9	2145	52	105658	Harper River
10N03W15H01S	34.9603	117.1728	08-Jan-59	2084.01	2145	61	105659	Harper River
10N03W15H02S	34.96	117.1728	08-Jan-59	2090.41	2145	55	105660	Harper River
10N03W15H03S	34.9597	117.1728	08-Jan-59	2085.34	2142	57	105662	Harper River
10N03W15H03S	34.9597	117.1728	08-Jan-59	2083.34	2140	57	105661	Harper River
10N03W15H03S	34.9597	117.1728	11-Mar-04	2070.64	2142	71	105663	Harper River
10N03W15H03S	34.9597	117.1728	22-Mar-06	2069.76	2142	72.24	124644	Harper River
10N03W15J01S	34.9567	117.1728	26-Aug-46	2109.5	2148.8	39	105664	Harper River
10N03W15J01S	34.9567	117.1728	06-Sep-46	2107.1	2148.8	42	105665	Harper River
10N03W15J01S	34.9567	117.1728	16-Sep-46	2109.6	2148.8	39	105666	Harper River
10N03W15J01S	34.9567	117.1728	23-Sep-46	2107	2148.8	42	105667	Harper River
10N03W15J01S	34.9567	117.1728	30-Sep-46	2110.1	2148.8	39	105668	Harper River
10N03W15J01S	34.9567	117.1728	06-Oct-46	2108.5	2148.8	40	105669	Harper River
10N03W15J01S	34.9567	117.1728	15-Oct-46	2110.1	2148.8	39	105670	Harper River
10N03W15J01S	34.9567	117.1728	21-Oct-46	2110.7	2148.8	38	105671	Harper River
10N03W15J01S	34.9567	117.1728	28-Oct-46	2110.9	2148.8	38	105672	Harper River
10N03W15J01S	34.9567	117.1728	06-Nov-46	2110.9	2148.8	38	105673	Harper River
10N03W15J01S	34.9567	117.1728	18-Nov-46	2111	2148.8	38	105674	Harper River
10N03W15J01S	34.9567	117.1728	25-Nov-46	2111	2148.8	38	105675	Harper River
10N03W15J01S	34.9567	117.1728	02-Dec-46	2107.2	2148.8	42	105676	Harper River
10N03W15J01S	34.9567	117.1728	17-Dec-46	2110.7	2148.8	38	105677	Harper River
10N03W15J01S	34.9567	117.1728	01-Jan-47	2111.1	2148.8	38	105678	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W15J01S	34.9567	117.1728	23-Jan-47	2111.1	2148.8	38	105679	Harper River
10N03W15J01S	34.9567	117.1728	06-Feb-47	2111.1	2148.8	38	105680	Harper River
10N03W15J01S	34.9567	117.1728	20-Feb-47	2107	2148.8	42	105681	Harper River
10N03W15J01S	34.9567	117.1728	05-Mar-47	2107	2148.8	42	105682	Harper River
10N03W15J01S	34.9567	117.1728	21-Mar-47	2110.4	2148.8	38	105683	Harper River
10N03W15J01S	34.9567	117.1728	09-Apr-47	2106.4	2148.8	42	105684	Harper River
10N03W15J01S	34.9567	117.1728	30-Apr-47	2105.8	2148.8	43	105685	Harper River
10N03W15J01S	34.9567	117.1728	15-May-47	2106.5	2148.8	42	105686	Harper River
10N03W15J01S	34.9567	117.1728	29-May-47	2105.9	2148.8	43	105687	Harper River
10N03W15J01S	34.9567	117.1728	12-Jun-47	2106.1	2148.8	43	105688	Harper River
10N03W15J01S	34.9567	117.1728	25-Jun-47	2106.1	2148.8	43	105689	Harper River
10N03W15J01S	34.9567	117.1728	10-Jul-47	2106	2148.8	43	105690	Harper River
10N03W15J01S	34.9567	117.1728	24-Jul-47	2105.8	2148.8	43	105691	Harper River
10N03W15J01S	34.9567	117.1728	11-Aug-47	2105.5	2148.8	43	105692	Harper River
10N03W15J01S	34.9567	117.1728	03-Sep-47	2106	2148.8	43	105693	Harper River
10N03W15J01S	34.9567	117.1728	15-Oct-47	2107	2148.8	42	105694	Harper River
10N03W15J01S	34.9567	117.1728	12-Dec-47	2109.8	2148.8	39	105695	Harper River
10N03W15J01S	34.9567	117.1728	17-Feb-48	2109.7	2148.8	39	105696	Harper River
10N03W15J01S	34.9567	117.1728	11-Mar-48	2107.6	2148.8	41	105697	Harper River
10N03W15J01S	34.9567	117.1728	15-Apr-48	2105.6	2148.8	43	105698	Harper River
10N03W15J01S	34.9567	117.1728	14-Jun-48	2102.6	2148.8	46	105699	Harper River
10N03W15J01S	34.9567	117.1728	13-Jul-48	2103.3	2148.8	46	105700	Harper River
10N03W15J01S	34.9567	117.1728	10-Aug-48	2103.1	2148.8	46	105701	Harper River
10N03W15J01S	34.9567	117.1728	14-Sep-48	2102.4	2148.8	46	105702	Harper River
10N03W15J01S	34.9567	117.1728	13-Oct-48	2106.4	2148.8	42	105703	Harper River
10N03W15J01S	34.9567	117.1728	09-Dec-48	2109.1	2148.8	40	105704	Harper River
10N03W15J01S	34.9567	117.1728	17-Jan-49	2109.2	2148.8	40	105705	Harper River
10N03W15J01S	34.9567	117.1728	14-Apr-49	2104.1	2148.8	45	105706	Harper River
10N03W15J02S	34.9564	117.1728	08-Jan-59	2094.98	2150	55	105707	Harper River
10N03W15P01S	34.9531	117.1817	08-Jan-59	2126.01	2160	34	105708	Harper River
10N03W15Q01S	34.9531	117.1772	14-Dec-53	2108.3	2155	47	105709	Harper River
10N03W15Q01S	34.9531	117.1772	08-Jan-59	2099.43	2155	56	105710	Harper River
10N03W15Q02S	34.9528	117.1772	08-Jan-59	2104.96	2160	55	105711	Harper River
10N03W21R01S	34.9383	117.1903	03-Dec-53	2126.03	2160	34	105712	Harper River
10N03W21R03S	34.9381	117.1903	09-Jan-59	2117.58	2160	42	105713	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W22F01S	34.9456	117.1817	09-Jan-59	2115	2155	40	105714	Harper River
10N03W22F02S	34.9453	117.1817	09-Jan-59	2115	2155	40	105715	Harper River
10N03W22G01S	34.9456	117.1772	09-Jan-59	2098.65	2155	56	105716	Harper River
10N03W22L01S	34.9419	117.1817	02-Feb-59	2102.92	2155	52	105717	Harper River
10N03W22L02S	34.9417	117.1817	02-Feb-59	2105.2	2155	50	105718	Harper River
10N03W22M01S	34.9419	117.1861	02-Feb-59	2106.8	2155	48	105719	Harper River
10N03W22M03S	34.9414	117.1861	03-Feb-59	2104.03	2155	51	105720	Harper River
10N03W22N04S	34.9392	117.1861	02-Feb-59	2108.87	2160	51	105721	Harper River
10N03W22P01S	34.9383	117.1817	02-Feb-59	2111.27	2165	54	105722	Harper River
10N03W22P02S	34.9386	117.1817	02-Feb-59	2107.65	2160	52	105723	Harper River
10N03W22P03S	34.9389	117.1817	02-Feb-59	2110.02	2160	50	105724	Harper River
10N03W22P04S	34.9392	117.1817	02-Feb-59	2112.58	2165	52	105725	Harper River
10N03W23H03S	34.9461	117.1553	09-Jan-59	2100.98	2155	54	105726	Harper River
10N03W23K01S	34.9436	117.1572	20-Dec-83	2078	2158	80	105727	Harper River
10N03W23M01S	34.9419	117.1683	03-Feb-59	2092.6	2155	62	105728	Harper River
10N03W23M01S	34.9419	117.1684	03-Feb-59	2092.6	2155	62	105729	Harper River
10N03W23M02S	34.9439	117.1706	13-Dec-57	2100.68	2159.68	59	105730	Harper River
10N03W23M02S	34.9439	117.1706	03-Feb-59	2099.52	2159.68	60	105731	Harper River
10N03W23M02S	34.9439	117.1706	19-Jan-93	2074.34	2159.68	85	105732	Harper River
10N03W23N01S	34.9383	117.1683	03-Feb-59	2091.55	2160	68	105733	Harper River
10N03W23N01S	34.9383	117.1684	03-Feb-59	2091.55	2160	68	105734	Harper River
10N03W23N02S	34.9386	117.1683	22-Dec-32	2141.5	2170	28	105735	Harper River
10N03W23N02S	34.9386	117.1684	22-Dec-32	2141.5	2170	28	105736	Harper River
10N03W23P01S	34.9383	117.1639	04-Feb-59	2089.12	2160	71	105737	Harper River
10N03W23Q01S	34.9383	117.1597	04-Feb-59	2085.15	2160	75	105738	Harper River
10N03W23Q01S	34.9383	117.1598	04-Feb-59	2085.15	2160	75	105739	Harper River
10N03W23R01S	34.9369	117.1544	24-Mar-93	2066.35	2165	99	105740	Harper River
10N03W23R01S	34.9369	117.1545	24-Mar-93	2066.35	2165	99	105741	Harper River
10N03W23R02S	34.9386	117.1553	04-Feb-59	2098.7	2160	61	105742	Harper River
10N03W23R03S	34.9389	117.1553	04-Feb-59	2100.58	2160	59	105743	Harper River
10N03W24E01S	34.9456	117.1509	06-Jul-32	2125.4	2160	35	105747	Harper River
10N03W24E01S	34.9456	117.1508	06-Jul-32	2125.4	2160	35	105744	Harper River
10N03W24E01S	34.9456	117.1508	16-Dec-53	2111.73	2160	48	105745	Harper River
10N03W24E01S	34.9456	117.1509	16-Dec-53	2111.73	2160	48	105748	Harper River
10N03W24E01S	34.9456	117.1509	09-Jan-59	2099.65	2160	60	105749	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W24E01S	34.9456	117.1508	09-Jan-59	2099.65	2160	60	105746	Harper River
10N03W24E02S	34.9458	117.1508	09-Jan-59	2100.1	2160	60	105750	Harper River
10N03W24E02S	34.9458	117.1509	09-Jan-59	2100.1	2160	60	105751	Harper River
10N03W24N01S	34.9383	117.1509	04-Feb-59	2116.35	2165	49	105753	Harper River
10N03W24N01S	34.9383	117.1508	04-Feb-59	2116.35	2165	49	105752	Harper River
10N03W24N02S	34.9386	117.1508	04-Feb-59	2102.34	2165	63	105754	Harper River
10N03W24N02S	34.9386	117.1509	04-Feb-59	2102.34	2165	63	105755	Harper River
10N03W24P03S	34.9369	117.1481	10-Dec-92	2086.44	2165	79	105756	Harper River
10N03W24P03S	34.9369	117.1481	23-Mar-06	2089.01	2165	75.99	124646	Harper River
10N03W24R01S	34.9383	117.1375	04-Feb-59	2115.09	2170	55	105757	Harper River
10N03W24R02S	34.9386	117.1375	04-Feb-59	2115.75	2170	54	105758	Harper River
10N03W25C01S	34.9347	117.1464	20-Mar-59	2104	2170	66	105759	Harper River
10N03W25E01S	34.9311	117.1509	20-Mar-59	2102	2170	68	105761	Harper River
10N03W25E01S	34.9311	117.1508	20-Mar-59	2102	2170	68	105760	Harper River
10N03W25E06S	34.9317	117.1525	24-Mar-93	2081.23	2168	87	105762	Harper River
10N03W25E06S	34.9317	117.1525	30-Apr-96	2077.57	2168	90	105763	Harper River
10N03W25E06S	34.9317	117.1525	17-Mar-98	2077.82	2168	90	105764	Harper River
10N03W25E06S	34.9317	117.1525	22-Mar-00	2083.85	2168	84	105765	Harper River
10N03W25E06S	34.9317	117.1525	11-Mar-04	2092.01	2168	76	105766	Harper River
10N03W25E06S	34.9317	117.1525	24-Mar-06	2086.56	2168	81.44	124650	Harper River
10N03W25F01S	34.9311	117.1464	20-Mar-59	2116	2170	54	105767	Harper River
10N03W25L01S	34.9275	117.1464	20-Mar-59	2108.85	2180	71	105768	Harper River
10N03W25M01S	34.9275	117.1509	20-Mar-59	2115	2175	60	105770	Harper River
10N03W25M01S	34.9275	117.1508	20-Mar-59	2115	2175	60	105769	Harper River
10N03W25P01S	34.9239	117.1464	20-Mar-59	2106	2175	69	105771	Harper River
10N03W25R01S	34.9239	117.1375	20-Mar-59	2115.14	2180	65	105772	Harper River
10N03W26A01S	34.9347	117.1553	19-Mar-59	2120	2170	50	105773	Harper River
10N03W26B02S	34.935	117.1597	04-Feb-59	2098.02	2165	67	105774	Harper River
10N03W26B02S	34.935	117.1598	04-Feb-59	2098.02	2165	67	105775	Harper River
10N03W26B04S	34.9356	117.1597	04-Feb-59	2049.4	2165	116	105776	Harper River
10N03W26B04S	34.9356	117.1598	04-Feb-59	2049.4	2165	116	105777	Harper River
10N03W26F01S	34.9311	117.1639	06-Feb-59	2086.05	2170	84	105778	Harper River
10N03W26F02S	34.9317	117.162	10-Dec-92	2080.66	2167	86	105780	Harper River
10N03W26F02S	34.9317	117.1619	10-Dec-92	2080.66	2167	86	105779	Harper River
10N03W26G01S	34.9311	117.1594	06-Feb-59	2099.9	2170	70	105781	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W26G01S	34.9311	117.1595	06-Feb-59	2099.9	2170	70	105782	Harper River
10N03W26H01S	34.9311	117.1553	06-Feb-59	2087	2170	83	105783	Harper River
10N03W26L01S	34.9275	117.1639	06-Feb-59	2088.46	2175	87	105785	Harper River
10N03W26L02S	34.9275	117.162	10-Dec-92	2082.95	2173	90	105788	Harper River
10N03W26L02S	34.9275	117.1619	10-Dec-92	2082.95	2173	90	105786	Harper River
10N03W26L02S	34.9275	117.1619	17-Apr-96	2075.82	2173	97	105787	Harper River
10N03W26L02S	34.9275	117.162	17-Apr-96	2075.82	2173	97	105789	Harper River
10N03W26L02S	34.9275	117.162	21-Mar-00	2082.44	2173	91	105790	Harper River
10N03W26L02S	34.9275	117.162	24-Apr-00	2081.3	2173	92	105791	Harper River
10N03W26L02S	34.9275	117.162	11-Mar-04	2094.74	2173	78	105792	Harper River
10N03W26L02S	34.9275	117.162	22-Mar-06	2088.17	2173	84.83	124645	Harper River
10N03W26M01S	34.9275	117.1683	27-Mar-59	2088	2175	87	105793	Harper River
10N03W26M01S	34.9275	117.1684	27-Mar-59	2088	2175	87	105794	Harper River
10N03W26N01S	34.9239	117.1684	18-Mar-59	2084.42	2185	101	105796	Harper River
10N03W26N01S	34.9239	117.1683	18-Mar-59	2084.42	2185	101	105795	Harper River
10N03W26P01S	34.9239	117.1639	07-May-54	2098.6	2185	86	105797	Harper River
10N03W26P01S	34.9239	117.1639	18-Mar-59	2085.72	2185	99	105798	Harper River
10N03W26P03S	34.9244	117.1639	18-Mar-59	2095	2180	85	105799	Harper River
10N03W26P04S	34.9247	117.1639	18-Mar-59	2078	2180	102	105800	Harper River
10N03W26Q01S	34.9239	117.1594	18-Mar-59	2078.4	2180	102	105801	Harper River
10N03W26Q01S	34.9239	117.1595	18-Mar-59	2078.4	2180	102	105802	Harper River
10N03W26R01S	34.9222	117.1386	27-Aug-53	2092.8	2182	89	105803	Harper River
10N03W26R01S	34.9222	117.1386	17-Dec-53	2113.03	2182	69	105804	Harper River
10N03W26R01S	34.9222	117.1386	04-Nov-54	2085	2182	97	105805	Harper River
10N03W26R01S	34.9222	117.1386	31-Oct-55	2089.5	2182	92	105806	Harper River
10N03W26R01S	34.9222	117.1386	12-Sep-57	2075	2182	107	105807	Harper River
10N03W26R01S	34.9222	117.1386	01-Oct-58	2075	2182	107	105808	Harper River
10N03W26R01S	34.9222	117.1386	18-Mar-59	2081.95	2182	100	105809	Harper River
10N03W26R01S	34.9222	117.1386	21-Apr-60	2075	2182	107	105810	Harper River
10N03W26R01S	34.9222	117.1386	13-Apr-61	2066	2182	116	105811	Harper River
10N03W26R01S	34.9222	117.1386	27-Mar-80	2067.78	2182	114	105812	Harper River
10N03W26R01S	34.9222	117.1386	11-Dec-80	2067.6	2182	114	105813	Harper River
10N03W26R01S	34.9222	117.1386	26-Mar-81	2071.98	2182	110	105814	Harper River
10N03W26R01S	34.9222	117.1386	02-Dec-81	2071.47	2182	111	105815	Harper River
10N03W26R01S	34.9222	117.1386	24-Mar-82	2077.03	2182	105	105816	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W26R01S	34.9222	117.1386	14-Dec-82	2078.52	2182	103	105817	Harper River
10N03W26R01S	34.9222	117.1386	17-Mar-83	2084.25	2182	98	105818	Harper River
10N03W26R01S	34.9222	117.1386	28-Mar-84	2085.73	2182	96	105819	Harper River
10N03W26R01S	34.9222	117.1386	16-Jan-85	2090.83	2182	91	105820	Harper River
10N03W26R01S	34.9222	117.1386	15-May-85	2085.53	2182	96	105821	Harper River
10N03W26R01S	34.9222	117.1386	17-Oct-85	2083.65	2182	98	105822	Harper River
10N03W26R01S	34.9222	117.1386	23-Apr-86	2084.7	2182	97	105823	Harper River
10N03W26R01S	34.9222	117.1386	16-Dec-86	2088.19	2182	94	105824	Harper River
10N03W26R01S	34.9222	117.1386	31-Mar-87	2092.65	2182	89	105825	Harper River
10N03W26R01S	34.9222	117.1386	04-Nov-87	2087.87	2182	94	105826	Harper River
10N03W26R01S	34.9222	117.1386	22-Nov-88	2087.2	2182	95	105827	Harper River
10N03W27D01S	34.9344	117.1861	03-Feb-59	2118.95	2170	51	105828	Harper River
10N03W27F01S	34.9294	117.1803	26-May-89	2078	2169	91	105865	Harper River
10N03W27F01S	34.9294	117.1803	21-May-90	2076.87	2169	92.13	105830	Harper River
10N03W27F01S	34.9294	117.1803	14-Nov-90	2076.54	2169	92.46	105831	Harper River
10N03W27F01S	34.9294	117.1803	14-Nov-90	2076.54	2169	92	105850	Harper River
10N03W27F01S	34.9294	117.1803	11-Jun-91	2076.15	2169	92.85	105832	Harper River
10N03W27F01S	34.9294	117.1803	19-May-93	2078.43	2169	90.57	105833	Harper River
10N03W27F01S	34.9294	117.1803	15-Nov-93	2078.06	2169	90.94	105834	Harper River
10N03W27F01S	34.9294	117.1803	20-May-94	2078.78	2169	90.22	105835	Harper River
10N03W27F01S	34.9294	117.1803	21-Nov-94	2078.16	2169	90.84	105836	Harper River
10N03W27F01S	34.9294	117.1803	08-May-95	2078.03	2169	90.97	105837	Harper River
10N03W27F01S	34.9294	117.1803	16-May-96	2077.16	2169	91.84	105838	Harper River
10N03W27F01S	34.9294	117.1803	10-Oct-96	2074.1	2169	94.9	105839	Harper River
10N03W27F01S	34.9294	117.1803	11-Oct-96	2067.72	2169	101.28	105840	Harper River
10N03W27F01S	34.9294	117.1803	26-Mar-97	2069.51	2169	99.49	105841	Harper River
10N03W27F01S	34.9294	117.1803	21-Oct-97	2077.1	2169	91.9	105842	Harper River
10N03W27F01S	34.9294	117.1803	17-Mar-98	2077.39	2169	92	105878	Harper River
10N03W27F01S	34.9294	117.1803	11-Apr-98	2077.57	2169	91.43	105843	Harper River
10N03W27F01S	34.9294	117.1803	27-Oct-98	2077.16	2169	91.84	105844	Harper River
10N03W27F01S	34.9294	117.1803	08-Apr-99	2077.75	2169	91.25	105845	Harper River
10N03W27F01S	34.9294	117.1803	24-Nov-99	2077.4	2169	92	105882	Harper River
10N03W27F01S	34.9294	117.1803	11-Apr-00	2078.21	2169	91	105883	Harper River
10N03W27F01S	34.9294	117.1803	24-Oct-00	2077.69	2169	91.31	105846	Harper River
10N03W27F01S	34.9294	117.1803	16-Oct-01	2078.9	2169	90.1	105847	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W27F01S	34.9294	117.1803	19-Apr-02	2079.72	2169	89	105886	Harper River
10N03W27F01S	34.9294	117.1803	17-Oct-02	2079.64	2169	89	105887	Harper River
10N03W27F01S	34.9294	117.1803	28-Feb-03	2080.67	2169	88	105888	Harper River
10N03W27F01S	34.9294	117.1803	16-May-03	2081.06	2169	88	105889	Harper River
10N03W27F01S	34.9294	117.1803	27-Oct-03	2080	2169	89	105890	Harper River
10N03W27F01S	34.9294	117.1803	16-Mar-04	2082.43	2169	87	105891	Harper River
10N03W27F01S	34.9294	117.1803	26-Oct-04	2083.1	2169	85.9	124667	Harper River
10N03W27F01S	34.9294	117.1803	20-Apr-05	2083.6	2169	85.4	124675	Harper River
10N03W27F01S	34.9294	117.1803	27-Oct-05	2083.7	2169	85.3	124688	Harper River
10N03W27F01S	34.9294	117.1803	21-Apr-06	2084.1	2169	84.9	124652	Harper River
10N03W27F01S	34.9294	117.1803	11-Oct-06	2084.09	2169	84.91	124660	Harper River
10N03W27F02S	34.9308	117.1817	05-Feb-59	2110.68	2170	59	105892	Harper River
10N03W27H01S	34.9308	117.1728	03-Feb-59	2097.94	2170	72	105893	Harper River
10N03W27H04S	34.9319	117.1717	19-Jan-93	2083.87	2168.83	85	105894	Harper River
10N03W27J01S	34.9272	117.1728	13-Mar-53	2088.35	2180	92	105895	Harper River
10N03W27K01S	34.9272	117.1772	17-Mar-59	2101.34	2185	84	105896	Harper River
10N03W27K02S	34.9275	117.1772	17-Mar-59	2099.47	2185	86	105897	Harper River
10N03W27K03S	34.9278	117.1772	17-Mar-59	2102.8	2185	82	105898	Harper River
10N03W27K04S	34.9281	117.1772	17-Mar-59	2099.71	2185	85	105899	Harper River
10N03W27M01S	34.9272	117.1858	17-Mar-59	2115	2185	70	105900	Harper River
10N03W27M01S	34.9272	117.1859	17-Mar-59	2115	2185	70	105901	Harper River
10N03W27N02S	34.9239	117.1858	17-Mar-59	2105.33	2195	90	105902	Harper River
10N03W27N02S	34.9239	117.1859	17-Mar-59	2105.33	2195	90	105903	Harper River
10N03W27N03S	34.9242	117.1859	17-Mar-59	2109.04	2195	86	105905	Harper River
10N03W27N03S	34.9242	117.1858	17-Mar-59	2109.04	2195	86	105904	Harper River
10N03W27N04S	34.9244	117.1858	29-Mar-32	2151.9	2195	43	105906	Harper River
10N03W27N04S	34.9244	117.1859	29-Mar-32	2151.9	2195	43	105907	Harper River
10N03W27Q01S	34.9236	117.1772	25-Jul-46	2136.8	2190.2	53	105908	Harper River
10N03W27Q01S	34.9236	117.1772	07-Aug-46	2140.7	2190.2	50	105909	Harper River
10N03W27Q01S	34.9236	117.1772	06-Sep-46	2130.5	2190.2	60	105910	Harper River
10N03W27Q01S	34.9236	117.1772	16-Sep-46	2130.5	2190.2	60	105911	Harper River
10N03W27Q01S	34.9236	117.1772	23-Sep-46	2130.3	2190.2	60	105912	Harper River
10N03W27Q01S	34.9236	117.1772	30-Sep-46	2140.2	2190.2	50	105913	Harper River
10N03W27Q01S	34.9236	117.1772	10-Oct-46	2131.4	2190.2	59	105914	Harper River
10N03W27Q01S	34.9236	117.1772	15-Oct-46	2141.5	2190.2	49	105915	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W27Q01S	34.9236	117.1772	21-Oct-46	2132.6	2190.2	58	105916	Harper River
10N03W27Q01S	34.9236	117.1772	28-Oct-46	2143.5	2190.2	47	105917	Harper River
10N03W27Q01S	34.9236	117.1772	16-Nov-46	2144.2	2190.2	46	105918	Harper River
10N03W27Q01S	34.9236	117.1772	18-Nov-46	2144.8	2190.2	45	105919	Harper River
10N03W27Q01S	34.9236	117.1772	25-Nov-46	2145.6	2190.2	45	105920	Harper River
10N03W27Q01S	34.9236	117.1772	02-Dec-46	2145.7	2190.2	44	105921	Harper River
10N03W27Q01S	34.9236	117.1772	17-Dec-46	2134.9	2190.2	55	105922	Harper River
10N03W27Q01S	34.9236	117.1772	01-Jan-47	2145.8	2190.2	44	105923	Harper River
10N03W27Q01S	34.9236	117.1772	23-Jan-47	2135.4	2190.2	55	105924	Harper River
10N03W27Q01S	34.9236	117.1772	06-Feb-47	2145.8	2190.2	44	105925	Harper River
10N03W27Q01S	34.9236	117.1772	20-Feb-47	2138.7	2190.2	52	105926	Harper River
10N03W27Q01S	34.9236	117.1772	05-Mar-47	2131	2190.2	59	105927	Harper River
10N03W27Q01S	34.9236	117.1772	21-Mar-47	2134.8	2190.2	55	105928	Harper River
10N03W27Q01S	34.9236	117.1772	09-Apr-47	2132	2190.2	58	105929	Harper River
10N03W27Q01S	34.9236	117.1772	30-Apr-47	2130.5	2190.2	60	105930	Harper River
10N03W27Q01S	34.9236	117.1772	15-May-47	2139	2190.2	51	105931	Harper River
10N03W27Q01S	34.9236	117.1772	29-May-47	2130.7	2190.2	60	105932	Harper River
10N03W27Q01S	34.9236	117.1772	12-Jun-47	2129.3	2190.2	61	105933	Harper River
10N03W27Q01S	34.9236	117.1772	25-Jun-47	2128.7	2190.2	62	105934	Harper River
10N03W27Q01S	34.9236	117.1772	10-Jul-47	2122.3	2190.2	68	105935	Harper River
10N03W27Q01S	34.9236	117.1772	24-Jul-47	2126.2	2190.2	64	105936	Harper River
10N03W27Q01S	34.9236	117.1772	11-Aug-47	2126.7	2190.2	64	105937	Harper River
10N03W27Q01S	34.9236	117.1772	15-Oct-47	2132.7	2190.2	58	105938	Harper River
10N03W27Q01S	34.9236	117.1772	12-Dec-47	2143.6	2190.2	47	105939	Harper River
10N03W27Q01S	34.9236	117.1772	17-Feb-48	2149.1	2190.2	41	105940	Harper River
10N03W27Q01S	34.9236	117.1772	11-Mar-48	2133.9	2190.2	56	105941	Harper River
10N03W27Q01S	34.9236	117.1772	14-Sep-48	2126.9	2190.2	63	105942	Harper River
10N03W27Q01S	34.9236	117.1772	13-Oct-48	2132.4	2190.2	58	105943	Harper River
10N03W27Q01S	34.9236	117.1772	09-Dec-48	2132.5	2190.2	58	105944	Harper River
10N03W27Q01S	34.9236	117.1772	17-Jan-49	2140.4	2190.2	50	105945	Harper River
10N03W27Q01S	34.9236	117.1772	17-Feb-49	2141.3	2190.2	49	105946	Harper River
10N03W27Q01S	34.9236	117.1772	18-Mar-59	2096.2	2190.2	94	105947	Harper River
10N03W27Q03S	34.9242	117.1772	18-Mar-59	2096.68	2190	93	105948	Harper River
10N03W28A01S	34.9344	117.1903	31-Dec-58	2122.27	2170	48	105949	Harper River
10N03W28C01S	34.9344	117.1992	31-Dec-58	2122.05	2161	39	105950	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W28C02S	34.9347	117.1992	26-Dec-50	2138	2170	32	105951	Harper River
10N03W28C03S	34.935	117.1992	30-Dec-58	2124.54	2170	45	105952	Harper River
10N03W28F01S	34.9308	117.1992	03-Sep-53	2126.6	2175	48	105953	Harper River
10N03W28H03S	34.9314	117.1903	31-Dec-58	2111.49	2165	54	105954	Harper River
10N03W28J02S	34.9275	117.1903	05-Feb-59	2116.72	2180	63	105955	Harper River
10N03W28J03S	34.9278	117.1903	05-Feb-59	2116.04	2180	64	105956	Harper River
10N03W28J04S	34.9281	117.1903	05-Feb-59	2120.04	2180	60	105957	Harper River
10N03W28K01S	34.9275	117.1948	05-Feb-59	2118.62	2180	61	105958	Harper River
10N03W28K02S	34.9278	117.1948	05-Feb-59	2117.17	2180	63	105959	Harper River
10N03W28L01S	34.9272	117.1992	03-Sep-53	2130.68	2180	49	105960	Harper River
10N03W28L01S	34.9272	117.1992	30-Dec-58	2118.85	2180	61	105961	Harper River
10N03W28L02S	34.9275	117.1992	30-Dec-58	2127.2	2185	58	105962	Harper River
10N03W28L04S	34.9281	117.1992	30-Dec-58	2132.13	2190	58	105963	Harper River
10N03W28M01S	34.9283	117.2042	21-Jul-87	2110	2176	66	105986	Harper River
10N03W28M01S	34.9283	117.2042	26-May-89	2105	2176	71	106006	Harper River
10N03W28M01S	34.9283	117.2042	21-May-90	2103.43	2176	72.57	105966	Harper River
10N03W28M01S	34.9283	117.2042	01-Nov-90	2108.63	2176	67.37	105967	Harper River
10N03W28M01S	34.9283	117.2042	11-Jun-91	2106.22	2176	69.78	105968	Harper River
10N03W28M01S	34.9283	117.2042	26-May-92	2109.25	2176	66.75	105969	Harper River
10N03W28M01S	34.9283	117.2042	19-May-93	2107.92	2176	68.08	105970	Harper River
10N03W28M01S	34.9283	117.2042	15-Nov-93	2109.27	2176	66.73	105971	Harper River
10N03W28M01S	34.9283	117.2042	16-May-94	2109.68	2176	66.32	105972	Harper River
10N03W28M01S	34.9283	117.2042	21-Nov-94	2072.6	2176	103.4	105973	Harper River
10N03W28M01S	34.9283	117.2042	08-May-95	2098.1	2176	77.9	105974	Harper River
10N03W28M01S	34.9283	117.2042	17-Oct-95	2077.6	2176	98.4	105975	Harper River
10N03W28M01S	34.9283	117.2042	16-May-96	2095.99	2176	80.01	105976	Harper River
10N03W28M01S	34.9283	117.2042	11-Oct-96	2089.08	2176	86.92	105978	Harper River
10N03W28M01S	34.9283	117.2042	26-Mar-97	2087.65	2176	88.35	105979	Harper River
10N03W28M01S	34.9283	117.2042	21-Oct-97	2082.79	2176	93.21	105980	Harper River
10N03W28M01S	34.9283	117.2042	17-Mar-98	2100.26	2176	76	106021	Harper River
10N03W28M01S	34.9283	117.2042	17-May-98	2070.25	2176	105.75	105981	Harper River
10N03W28M01S	34.9283	117.2042	27-Oct-98	2016.56	2176	159.44	105982	Harper River
10N03W28M01S	34.9283	117.2042	08-Apr-99	1985.65	2176	190.35	105983	Harper River
10N03W28M01S	34.9283	117.2042	24-Nov-99	2004.17	2176	172	106024	Harper River
10N03W28M01S	34.9283	117.2042	11-Apr-00	1984.11	2176	192	106025	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W28M01S	34.9283	117.2042	24-Oct-00	1986.74	2176	189.26	105984	Harper River
10N03W28M01S	34.9283	117.2042	16-Oct-01	2004.05	2176	171.95	105985	Harper River
10N03W28M01S	34.9283	117.2042	16-Mar-04	1979.4	2176	197	106028	Harper River
10N03W28M01S	34.9283	117.2042	22-Apr-05	1968.41	2176	207.59	124680	Harper River
10N03W28M01S	34.9283	117.2042	21-Apr-06	1970.77	2176	205.23	124653	Harper River
10N03W28M06S	34.9275	117.2064	19-Jan-93	2123.83	2184.78	61	106029	Harper River
10N03W28N01S	34.9236	117.2036	30-Dec-58	2137.96	2200	62	106030	Harper River
10N03W28Q01S	34.9236	117.1948	30-Dec-58	2126.1	2195	69	106031	Harper River
10N03W28Q03S	34.9242	117.1948	05-Feb-59	2122	2190	68	106032	Harper River
10N03W28Q05S	34.9247	117.1948	05-Feb-59	2130	2195	65	106033	Harper River
10N03W28R01S	34.9222	117.1886	19-Jan-93	2093.71	2190	96	106034	Harper River
10N03W29L01S	34.9272	117.2167	29-Dec-58	2161.38	2210	49	106035	Harper River
10N03W29M01S	34.9272	117.2211	10-Mar-32	2154.8	2206.5	52	106036	Harper River
10N03W29M01S	34.9272	117.2211	25-Jul-46	2154.9	2206.5	52	106037	Harper River
10N03W29M01S	34.9272	117.2211	01-Aug-46	2154.6	2206.5	52	106038	Harper River
10N03W29M01S	34.9272	117.2211	07-Aug-46	2154.9	2206.5	52	106039	Harper River
10N03W29M01S	34.9272	117.2211	22-Aug-46	2148.7	2206.5	58	106040	Harper River
10N03W29M01S	34.9272	117.2211	06-Sep-46	2153.6	2206.5	53	106041	Harper River
10N03W29M01S	34.9272	117.2211	16-Sep-46	2154.2	2206.5	52	106042	Harper River
10N03W29M01S	34.9272	117.2211	23-Sep-46	2154.5	2206.5	52	106043	Harper River
10N03W29M01S	34.9272	117.2211	30-Sep-46	2148.7	2206.5	58	106044	Harper River
10N03W29M01S	34.9272	117.2211	06-Oct-46	2154.6	2206.5	52	106045	Harper River
10N03W29M01S	34.9272	117.2211	15-Oct-46	2154.6	2206.5	52	106046	Harper River
10N03W29M01S	34.9272	117.2211	21-Oct-46	2148.8	2206.5	58	106047	Harper River
10N03W29M01S	34.9272	117.2211	28-Oct-46	2154.6	2206.5	52	106048	Harper River
10N03W29M01S	34.9272	117.2211	06-Nov-46	2154.5	2206.5	52	106049	Harper River
10N03W29M01S	34.9272	117.2211	18-Nov-46	2142.9	2206.5	64	106050	Harper River
10N03W29M01S	34.9272	117.2211	25-Nov-46	2148.8	2206.5	58	106051	Harper River
10N03W29M01S	34.9272	117.2211	02-Dec-46	2154.8	2206.5	52	106052	Harper River
10N03W29M01S	34.9272	117.2211	17-Dec-46	2154.7	2206.5	52	106053	Harper River
10N03W29M01S	34.9272	117.2211	01-Jan-47	2154.7	2206.5	52	106054	Harper River
10N03W29M01S	34.9272	117.2211	23-Jan-47	2154.8	2206.5	52	106055	Harper River
10N03W29M01S	34.9272	117.2211	07-Feb-47	2139.4	2206.5	67	106056	Harper River
10N03W29M01S	34.9272	117.2211	20-Feb-47	2154	2206.5	52	106057	Harper River
10N03W29M01S	34.9272	117.2211	05-Mar-47	2154.7	2206.5	52	106058	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W29M01S	34.9272	117.2211	21-Mar-47	2154	2206.5	52	106059	Harper River
10N03W29M01S	34.9272	117.2211	09-Apr-47	2154.1	2206.5	52	106060	Harper River
10N03W29M01S	34.9272	117.2211	30-Apr-47	2154	2206.5	52	106061	Harper River
10N03W29M01S	34.9272	117.2211	15-May-47	2154	2206.5	52	106062	Harper River
10N03W29M01S	34.9272	117.2211	29-May-47	2154	2206.5	52	106063	Harper River
10N03W29M01S	34.9272	117.2211	12-Jun-47	2153.9	2206.5	53	106064	Harper River
10N03W29M01S	34.9272	117.2211	24-Jul-47	2153.5	2206.5	53	106065	Harper River
10N03W29M01S	34.9272	117.2211	11-Aug-47	2153.9	2206.5	53	106066	Harper River
10N03W29M01S	34.9272	117.2211	03-Sep-47	2154.5	2206.5	52	106067	Harper River
10N03W29M01S	34.9272	117.2211	15-Oct-47	2154.6	2206.5	52	106068	Harper River
10N03W29M01S	34.9272	117.2211	12-Dec-47	2154.6	2206.5	52	106069	Harper River
10N03W29M01S	34.9272	117.2211	17-Feb-48	2154.7	2206.5	52	106070	Harper River
10N03W29M01S	34.9272	117.2211	11-Mar-48	2154.6	2206.5	52	106071	Harper River
10N03W29M01S	34.9272	117.2211	15-Apr-48	2154.8	2206.5	52	106072	Harper River
10N03W29M01S	34.9272	117.2211	14-Jun-48	2154.7	2206.5	52	106073	Harper River
10N03W29M01S	34.9272	117.2211	13-Jul-48	2154.4	2206.5	52	106074	Harper River
10N03W29M01S	34.9272	117.2211	10-Aug-48	2154.5	2206.5	52	106075	Harper River
10N03W29M01S	34.9272	117.2211	14-Sep-48	2141.6	2206.5	65	106076	Harper River
10N03W29M01S	34.9272	117.2211	13-Oct-48	2142.6	2206.5	64	106077	Harper River
10N03W29M01S	34.9272	117.2211	09-Dec-48	2154.4	2206.5	52	106078	Harper River
10N03W29M01S	34.9272	117.2211	17-Jan-49	2153.7	2206.5	53	106079	Harper River
10N03W29M01S	34.9272	117.2211	17-Feb-49	2154.4	2206.5	52	106080	Harper River
10N03W29M01S	34.9272	117.2211	16-Mar-49	2154.4	2206.5	52	106081	Harper River
10N03W29M01S	34.9272	117.2211	14-Apr-49	2154.2	2206.5	52	106082	Harper River
10N03W29M01S	34.9272	117.2211	16-Jun-49	2154.2	2206.5	52	106083	Harper River
10N03W29M01S	34.9272	117.2211	14-Jul-49	2154.3	2206.5	52	106084	Harper River
10N03W29M01S	34.9272	117.2211	18-Aug-49	2154.5	2206.5	52	106085	Harper River
10N03W29M01S	34.9272	117.2211	15-Sep-49	2154.2	2206.5	52	106086	Harper River
10N03W29M01S	34.9272	117.2211	19-Oct-49	2154.3	2206.5	52	106087	Harper River
10N03W29M01S	34.9272	117.2211	14-Dec-49	2154.6	2206.5	52	106088	Harper River
10N03W29M01S	34.9272	117.2211	24-Jan-50	2154.1	2206.5	52	106089	Harper River
10N03W29M01S	34.9272	117.2211	15-Feb-50	2154.4	2206.5	52	106090	Harper River
10N03W29M01S	34.9272	117.2211	15-Mar-50	2153.8	2206.5	53	106091	Harper River
10N03W29M01S	34.9272	117.2211	19-Apr-50	2154.3	2206.5	52	106092	Harper River
10N03W29M01S	34.9272	117.2211	15-Jun-50	2154	2206.5	52	106093	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W29M01S	34.9272	117.2211	12-Jul-50	2154.4	2206.5	52	106094	Harper River
10N03W29M01S	34.9272	117.2211	15-Aug-50	2153.5	2206.5	53	106095	Harper River
10N03W29M01S	34.9272	117.2211	14-Sep-50	2154.1	2206.5	52	106096	Harper River
10N03W29M01S	34.9272	117.2211	17-Oct-50	2153.9	2206.5	53	106097	Harper River
10N03W29M01S	34.9272	117.2211	13-Dec-50	2154.1	2206.5	52	106098	Harper River
10N03W29M01S	34.9272	117.2211	16-Jan-51	2154	2206.5	52	106099	Harper River
10N03W29M01S	34.9272	117.2211	14-Feb-51	2154.1	2206.5	52	106100	Harper River
10N03W29M01S	34.9272	117.2211	20-Mar-51	2154.2	2206.5	52	106101	Harper River
10N03W29M01S	34.9272	117.2211	18-Apr-51	2154.1	2206.5	52	106102	Harper River
10N03W29M01S	34.9272	117.2211	14-Jun-51	2153.92	2206.5	53	106103	Harper River
10N03W29M01S	34.9272	117.2211	18-Jul-51	2154.32	2206.5	52	106104	Harper River
10N03W29M01S	34.9272	117.2211	15-Aug-51	2153.96	2206.5	53	106105	Harper River
10N03W29M01S	34.9272	117.2211	13-Sep-51	2154.19	2206.5	52	106106	Harper River
10N03W29M01S	34.9272	117.2211	16-Oct-51	2153.86	2206.5	53	106107	Harper River
10N03W29M01S	34.9272	117.2211	13-Dec-51	2153.92	2206.5	53	106108	Harper River
10N03W29M01S	34.9272	117.2211	22-Jan-52	2153.92	2206.5	53	106109	Harper River
10N03W29M01S	34.9272	117.2211	14-Feb-52	2153.86	2206.5	53	106110	Harper River
10N03W29M01S	34.9272	117.2211	13-Mar-52	2153.9	2206.5	53	106111	Harper River
10N03W29M01S	34.9272	117.2211	10-Apr-52	2153.92	2206.5	53	106112	Harper River
10N03W29M01S	34.9272	117.2211	12-Jun-52	2151.77	2206.5	55	106113	Harper River
10N03W29M01S	34.9272	117.2211	16-Jul-52	2148.56	2206.5	58	106114	Harper River
10N03W29M01S	34.9272	117.2211	18-Sep-52	2152.76	2206.5	54	106115	Harper River
10N03W29M01S	34.9272	117.2211	16-Oct-52	2152.97	2206.5	54	106116	Harper River
10N03W29M01S	34.9272	117.2211	16-Dec-52	2153.75	2206.5	53	106117	Harper River
10N03W29M01S	34.9272	117.2211	16-Jan-53	2153.45	2206.5	53	106118	Harper River
10N03W29M01S	34.9272	117.2211	18-Feb-53	2152.85	2206.5	54	106119	Harper River
10N03W29M01S	34.9272	117.2211	17-Mar-53	2153.02	2206.5	53	106120	Harper River
10N03W29M01S	34.9272	117.2211	14-Apr-53	2153.37	2206.5	53	106121	Harper River
10N03W29M01S	34.9272	117.2211	12-Nov-53	2152.2	2206.5	54	106122	Harper River
10N03W29M01S	34.9272	117.2211	13-May-54	2142	2206.5	64	106123	Harper River
10N03W29M01S	34.9272	117.2211	17-Nov-54	2153.7	2206.5	53	106124	Harper River
10N03W29M01S	34.9272	117.2211	14-Apr-55	2150.64	2206.5	56	106125	Harper River
10N03W29M01S	34.9272	117.2211	12-Dec-55	2153.1	2206.5	53	106126	Harper River
10N03W29M01S	34.9272	117.2211	21-Dec-56	2152.8	2206.5	54	106127	Harper River
10N03W29M01S	34.9272	117.2211	02-May-57	2152.25	2206.5	54	106128	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W29M01S	34.9272	117.2211	25-Mar-58	2137.26	2206.5	69	106129	Harper River
10N03W29M01S	34.9272	117.2211	05-Dec-58	2152.22	2206.5	54	106130	Harper River
10N03W29P01S	34.9236	117.2167	30-Dec-58	2171	2220	49	106131	Harper River
10N03W30P01S	34.9236	117.2342	29-Dec-58	2149.76	2235	85	106132	Harper River
10N03W30Q03S	34.9242	117.2298	30-Dec-58	1962.31	2035	73	106133	Harper River
10N03W30R01S	34.9236	117.2298	30-Dec-58	2164.36	2230	66	106134	Harper River
10N03W30R02S	34.9239	117.2298	21-Apr-54	2162.7	2225	62	106135	Harper River
10N03W30R02S	34.9239	117.2298	30-Dec-58	2162.37	2225	63	106136	Harper River
10N03W32C03S	34.9194	117.2172	10-Jun-79	2138.3	2215	77	106137	Harper River
10N03W32C03S	34.9194	117.2172	19-Jan-93	2138.3	2215	77	106138	Harper River
10N03W32G02S	34.9158	117.2122	23-Oct-58	2165.59	2235	69	106139	Harper River
10N03W32G03S	34.9156	117.2122	23-Oct-58	2163.74	2230	66	106140	Harper River
10N03W32H01S	34.9161	117.2078	23-Oct-58	2158.56	2230	71	106141	Harper River
10N03W32H02S	34.9156	117.2078	23-Oct-58	2159.83	2230	70	106142	Harper River
10N03W32Q01S	34.9089	117.2122	10-Mar-32	2178	2259.4	81	106143	Harper River
10N03W33A01S	34.92	117.1903	24-Oct-58	2116.1	2200	84	106144	Harper River
10N03W33A05S	34.9211	117.1903	18-Nov-58	2124.45	2210	86	106145	Harper River
10N03W33C02S	34.9203	117.1992	24-Oct-58	2140.22	2205	65	106146	Harper River
10N03W33D01S	34.92	117.2036	24-Oct-58	2150.64	2205	54	106147	Harper River
10N03W33D02S	34.9203	117.2036	24-Oct-58	2167.4	2210	43	106148	Harper River
10N03W33H01S	34.9164	117.1903	18-Nov-58	2134.44	2220	86	106149	Harper River
10N03W33H02S	34.9161	117.1903	18-Nov-58	2129.07	2215	86	106150	Harper River
10N03W33J01S	34.9114	117.1897	09-Mar-61	2142.11	2230	88	106151	Harper River
10N03W33J01S	34.9114	117.1898	09-Mar-61	2142.11	2230	88	106170	Harper River
10N03W33J01S	34.9114	117.1898	27-Oct-61	2143.94	2230	86	106171	Harper River
10N03W33J01S	34.9114	117.1897	27-Oct-61	2143.94	2230	86	106152	Harper River
10N03W33J01S	34.9114	117.1898	15-Mar-62	2141.32	2230	89	106172	Harper River
10N03W33J01S	34.9114	117.1897	15-Mar-62	2141.32	2230	89	106153	Harper River
10N03W33J01S	34.9114	117.1898	02-Nov-62	2144.34	2230	86	106173	Harper River
10N03W33J01S	34.9114	117.1897	02-Nov-62	2144.34	2230	86	106154	Harper River
10N03W33J01S	34.9114	117.1898	13-Mar-63	2144.21	2230	86	106174	Harper River
10N03W33J01S	34.9114	117.1897	13-Mar-63	2144.21	2230	86	106155	Harper River
10N03W33J01S	34.9114	117.1898	30-Oct-63	2143.82	2230	86	106175	Harper River
10N03W33J01S	34.9114	117.1897	30-Oct-63	2143.82	2230	86	106156	Harper River
10N03W33J01S	34.9114	117.1897	08-Mar-64	2143.95	2230	86	106157	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W33J01S	34.9114	117.1898	08-Mar-64	2143.95	2230	86	106176	Harper River
10N03W33J01S	34.9114	117.1897	14-Oct-64	2142.75	2230	87	106158	Harper River
10N03W33J01S	34.9114	117.1898	14-Oct-64	2142.75	2230	87	106177	Harper River
10N03W33J01S	34.9114	117.1898	10-Mar-65	2143.21	2230	87	106178	Harper River
10N03W33J01S	34.9114	117.1897	10-Mar-65	2143.21	2230	87	106159	Harper River
10N03W33J01S	34.9114	117.1898	18-Oct-65	2140.47	2230	90	106179	Harper River
10N03W33J01S	34.9114	117.1897	18-Oct-65	2140.47	2230	90	106160	Harper River
10N03W33J01S	34.9114	117.1898	16-Mar-66	2143.01	2230	87	106180	Harper River
10N03W33J01S	34.9114	117.1897	16-Mar-66	2143.01	2230	87	106161	Harper River
10N03W33J01S	34.9114	117.1898	19-Oct-66	2142.3	2230	88	106181	Harper River
10N03W33J01S	34.9114	117.1897	19-Oct-66	2142.3	2230	88	106162	Harper River
10N03W33J01S	34.9114	117.1898	11-Apr-68	2142.8	2230	87	106182	Harper River
10N03W33J01S	34.9114	117.1897	11-Apr-68	2142.8	2230	87	106163	Harper River
10N03W33J01S	34.9114	117.1898	14-Nov-68	2142.92	2230	87	106183	Harper River
10N03W33J01S	34.9114	117.1897	14-Nov-68	2142.92	2230	87	106164	Harper River
10N03W33J01S	34.9114	117.1897	07-Apr-69	2142.73	2230	87	106165	Harper River
10N03W33J01S	34.9114	117.1898	07-Apr-69	2142.73	2230	87	106184	Harper River
10N03W33J01S	34.9114	117.1897	29-Oct-69	2142.79	2230	87	106166	Harper River
10N03W33J01S	34.9114	117.1898	29-Oct-69	2142.79	2230	87	106185	Harper River
10N03W33J01S	34.9114	117.1898	23-Mar-70	2142.76	2230	87	106186	Harper River
10N03W33J01S	34.9114	117.1897	23-Mar-70	2142.76	2230	87	106167	Harper River
10N03W33J01S	34.9114	117.1897	12-Nov-70	2142.47	2230	88	106168	Harper River
10N03W33J01S	34.9114	117.1898	12-Nov-70	2142.47	2230	88	106187	Harper River
10N03W33J01S	34.9114	117.1897	19-Apr-71	2142.34	2230	88	106169	Harper River
10N03W33J01S	34.9114	117.1898	19-Apr-71	2142.34	2230	88	106188	Harper River
10N03W34A01S	34.92	117.1728	19-Nov-58	2080.05	2185	105	106189	Harper River
10N03W34B01S	34.92	117.1772	19-Nov-58	2095.65	2195	99	106190	Harper River
10N03W34B03S	34.9206	117.1772	19-Nov-58	2102.4	2200	98	106191	Harper River
10N03W34C01S	34.92	117.1817	19-Nov-58	2104.65	2200	95	106192	Harper River
10N03W34C02S	34.9203	117.1817	19-Nov-58	2100	2190	90	106193	Harper River
10N03W34C03S	34.9206	117.1817	19-Nov-58	2097.01	2190	93	106194	Harper River
10N03W34D01S	34.92	117.1859	19-Nov-58	2110.08	2200	90	106195	Harper River
10N03W34D02S	34.9203	117.1859	19-Nov-58	2109.32	2200	91	106196	Harper River
10N03W34D03S	34.9206	117.1859	19-Nov-58	2108.59	2200	91	106197	Harper River
10N03W34G01S	34.9164	117.1772	19-Nov-58	2114.99	2205	90	106198	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W34H01S	34.9147	117.172	19-Nov-58	2095.84	2203	107	106201	Harper River
10N03W34H01S	34.9147	117.1719	19-Nov-58	2095.84	2203	107	106199	Harper River
10N03W34H01S	34.9147	117.172	20-Jan-93	2090.85	2203	112	106202	Harper River
10N03W34H01S	34.9147	117.1719	20-Jan-93	2090.85	2203	112	106200	Harper River
10N03W34J01S	34.9128	117.1728	19-Nov-58	2102.62	2200	97	106203	Harper River
10N03W34M02S	34.9131	117.1859	18-Nov-58	2147.97	2225	77	106204	Harper River
10N03W35A01S	34.92	117.1553	20-Nov-58	2100	2190	90	106205	Harper River
10N03W35A02S	34.9203	117.1553	20-Nov-58	2098	2190	92	106206	Harper River
10N03W35B01S	34.92	117.1595	20-Nov-58	2081.34	2190	109	106207	Harper River
10N03W35E01S	34.9164	117.1684	20-Nov-58	2096.32	2205	109	106208	Harper River
10N03W35F01S	34.9164	117.1639	20-Nov-58	2091.78	2195	103	106209	Harper River
10N03W35G01S	34.9164	117.1595	20-Nov-58	2094.42	2195	101	106210	Harper River
10N03W35J01S	34.9128	117.155	20-Nov-58	2109.9	2195	85	106211	Harper River
10N03W35J02S	34.9125	117.155	20-Nov-58	2103.98	2190	86	106212	Harper River
10N03W35J08S	34.9225	117.1625	06-Feb-78	2071	2195	124	106213	Harper River
10N03W35J08S	34.9225	117.1625	20-Jan-93	2101.75	2195	93	106214	Harper River
10N03W35N01S	34.9111	117.1703	19-Sep-30	2160	2212	52	106215	Harper River
10N03W35N01S	34.9111	117.1703	19-Dec-30	2160.9	2212	51	106216	Harper River
10N03W35N01S	34.9111	117.1703	06-Aug-31	2158	2212	54	106217	Harper River
10N03W35N01S	34.9111	117.1703	04-Mar-32	2159.2	2212	53	106218	Harper River
10N03W35N01S	34.9111	117.1703	29-Mar-32	2158.6	2212	53	106219	Harper River
10N03W35N01S	34.9111	117.1703	21-Apr-32	2157.9	2212	54	106220	Harper River
10N03W35N01S	34.9111	117.1703	26-Jul-32	2156.6	2212	55	106221	Harper River
10N03W35N01S	34.9111	117.1703	22-Dec-32	2157.6	2212	54	106222	Harper River
10N03W35N01S	34.9111	117.1703	20-Nov-58	2115.42	2212	97	106223	Harper River
10N03W35N01S	34.9111	117.1703	01-Dec-59	2112.69	2212	99	106224	Harper River
10N03W35N01S	34.9111	117.1703	02-Mar-60	2106.59	2212	105	106225	Harper River
10N03W35N01S	34.9111	117.1703	16-Nov-60	2112.66	2212	99	106226	Harper River
10N03W35N01S	34.9111	117.1703	08-Mar-61	2113.26	2212	99	106227	Harper River
10N03W35N01S	34.9111	117.1703	27-Oct-61	2113.46	2212	99	106228	Harper River
10N03W35N01S	34.9111	117.1703	15-Mar-62	2113.67	2212	98	106229	Harper River
10N03W35N01S	34.9111	117.1703	20-Nov-62	2112.95	2212	99	106230	Harper River
10N03W35N01S	34.9111	117.1703	13-Mar-63	2111.06	2212	101	106231	Harper River
10N03W35N01S	34.9111	117.1703	30-Oct-63	2111.6	2212	100	106232	Harper River
10N03W35N01S	34.9111	117.1703	08-Mar-64	2111.17	2212	101	106233	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W35N01S	34.9111	117.1703	14-Oct-64	2110.36	2212	102	106234	Harper River
10N03W35N01S	34.9111	117.1703	10-Mar-65	2109.93	2212	102	106235	Harper River
10N03W35N01S	34.9111	117.1703	18-Oct-65	2109.14	2212	103	106236	Harper River
10N03W35N01S	34.9111	117.1703	16-Mar-66	2108.85	2212	103	106237	Harper River
10N03W35N01S	34.9111	117.1703	19-Oct-66	2107.88	2212	104	106238	Harper River
10N03W35N01S	34.9111	117.1703	15-Mar-67	2107.61	2212	104	106239	Harper River
10N03W35N01S	34.9111	117.1703	23-Oct-67	2107.32	2212	105	106240	Harper River
10N03W35N01S	34.9111	117.1703	11-Apr-68	2107.27	2212	105	106241	Harper River
10N03W35N01S	34.9111	117.1703	14-Nov-68	2107.71	2212	104	106242	Harper River
10N03W35N01S	34.9111	117.1703	08-Apr-69	2105.4	2212	107	106243	Harper River
10N03W35N01S	34.9111	117.1703	28-Oct-69	2101.63	2212	110	106244	Harper River
10N03W35N01S	34.9111	117.1703	23-Mar-70	2100.66	2212	111	106245	Harper River
10N03W35N01S	34.9111	117.1703	11-Nov-70	2101.33	2212	111	106246	Harper River
10N03W35N01S	34.9111	117.1703	14-Apr-71	2103.97	2212	108	106247	Harper River
10N03W35P01S	34.9092	117.1639	20-Nov-58	2085.97	2205	119	106248	Harper River
10N03W35Q01S	34.9092	117.1595	26-Mar-58	2100.12	2200	100	106249	Harper River
10N03W35Q02S	34.9094	117.1595	26-Mar-58	2108.03	2200	92	106250	Harper River
10N03W35Q02S	34.9094	117.1595	20-Nov-58	2093.23	2200	107	106251	Harper River
10N03W35Q03S	34.9097	117.1595	20-Nov-58	2091.5	2200	108	106252	Harper River
10N03W36A01S	34.9203	117.1375	01-Dec-58	2143.87	2180	36	106253	Harper River
10N03W36B01S	34.9203	117.142	30-Jul-46	2148.1	2185.6	38	106254	Harper River
10N03W36B01S	34.9203	117.142	07-Aug-46	2148.2	2185.6	37	106255	Harper River
10N03W36B01S	34.9203	117.142	26-Aug-46	2146.9	2185.6	39	106256	Harper River
10N03W36B01S	34.9203	117.142	06-Sep-46	2149.8	2185.6	36	106257	Harper River
10N03W36B01S	34.9203	117.142	16-Sep-46	2148.2	2185.6	37	106258	Harper River
10N03W36B01S	34.9203	117.142	23-Sep-46	2148.2	2185.6	37	106259	Harper River
10N03W36B01S	34.9203	117.142	30-Sep-46	2149.3	2185.6	36	106260	Harper River
10N03W36B01S	34.9203	117.142	06-Oct-46	2149.1	2185.6	36	106261	Harper River
10N03W36B01S	34.9203	117.142	15-Oct-46	2149.2	2185.6	36	106262	Harper River
10N03W36B01S	34.9203	117.142	21-Oct-46	2151.5	2185.6	34	106263	Harper River
10N03W36B01S	34.9203	117.142	28-Oct-46	2151.9	2185.6	34	106264	Harper River
10N03W36B01S	34.9203	117.142	28-Apr-47	2149.5	2185.6	36	106265	Harper River
10N03W36B01S	34.9203	117.142	15-May-47	2148.5	2185.6	37	106266	Harper River
10N03W36B01S	34.9203	117.142	29-May-47	2148.1	2185.6	38	106267	Harper River
10N03W36B01S	34.9203	117.142	12-Jun-47	2147.9	2185.6	38	106268	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W36B01S	34.9203	117.142	25-Jun-47	2146.7	2185.6	39	106269	Harper River
10N03W36B01S	34.9203	117.142	10-Jul-47	2145.9	2185.6	40	106270	Harper River
10N03W36B01S	34.9203	117.142	24-Jul-47	2145.8	2185.6	40	106271	Harper River
10N03W36B01S	34.9203	117.142	07-Aug-47	2148.5	2185.6	37	106272	Harper River
10N03W36B01S	34.9203	117.142	04-Sep-47	2145.9	2185.6	40	106273	Harper River
10N03W36B01S	34.9203	117.142	15-Oct-47	2149.1	2185.6	36	106274	Harper River
10N03W36B01S	34.9203	117.142	12-Dec-47	2152.2	2185.6	33	106275	Harper River
10N03W36B01S	34.9203	117.142	17-Feb-48	2153.4	2185.6	32	106276	Harper River
10N03W36B01S	34.9203	117.142	11-Mar-48	2150.4	2185.6	35	106277	Harper River
10N03W36B01S	34.9203	117.142	15-Apr-48	2153.2	2185.6	32	106278	Harper River
10N03W36B01S	34.9203	117.142	13-Jul-48	2143.6	2185.6	42	106279	Harper River
10N03W36B01S	34.9203	117.142	10-Aug-48	2153.8	2185.6	32	106280	Harper River
10N03W36B01S	34.9203	117.142	14-Sep-48	2154.8	2185.6	31	106281	Harper River
10N03W36B01S	34.9203	117.142	13-Oct-48	2158	2185.6	28	106282	Harper River
10N03W36B01S	34.9203	117.142	29-Dec-48	2161.4	2185.6	24	106283	Harper River
10N03W36B01S	34.9203	117.142	17-Jan-49	2162.6	2185.6	23	106284	Harper River
10N03W36B01S	34.9203	117.142	17-Feb-49	2161.6	2185.6	24	106285	Harper River
10N03W36B01S	34.9203	117.142	16-Mar-49	2158.1	2185.6	28	106286	Harper River
10N03W36B01S	34.9203	117.142	14-Apr-49	2156.4	2185.6	29	106287	Harper River
10N03W36B01S	34.9203	117.142	16-Jun-49	2149.8	2185.6	36	106288	Harper River
10N03W36B01S	34.9203	117.142	14-Jul-49	2151.5	2185.6	34	106289	Harper River
10N03W36B01S	34.9203	117.142	18-Aug-49	2151	2185.6	35	106290	Harper River
10N03W36B01S	34.9203	117.142	15-Sep-49	2150.4	2185.6	35	106291	Harper River
10N03W36B01S	34.9203	117.142	19-Oct-49	2154.6	2185.6	31	106292	Harper River
10N03W36B01S	34.9203	117.142	14-Dec-49	2157.8	2185.6	28	106293	Harper River
10N03W36B01S	34.9203	117.142	24-Jan-50	2157.9	2185.6	28	106294	Harper River
10N03W36B01S	34.9203	117.142	15-Feb-50	2158	2185.6	28	106295	Harper River
10N03W36B01S	34.9203	117.142	15-Mar-50	2156.9	2185.6	29	106296	Harper River
10N03W36B01S	34.9203	117.142	19-Apr-50	2151.1	2185.6	34	106297	Harper River
10N03W36B01S	34.9203	117.142	15-Jun-50	2148.3	2185.6	37	106298	Harper River
10N03W36B01S	34.9203	117.142	12-Jul-50	2147.8	2185.6	38	106299	Harper River
10N03W36B01S	34.9203	117.142	15-Aug-50	2144.7	2185.6	41	106300	Harper River
10N03W36B01S	34.9203	117.142	14-Sep-50	2149.6	2185.6	36	106301	Harper River
10N03W36B01S	34.9203	117.142	17-Oct-50	2152.2	2185.6	33	106302	Harper River
10N03W36B01S	34.9203	117.142	13-Dec-50	2154.1	2185.6	32	106303	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W36B01S	34.9203	117.142	16-Jan-51	2157.8	2185.6	28	106304	Harper River
10N03W36B01S	34.9203	117.142	14-Feb-51	2155.1	2185.6	30	106305	Harper River
10N03W36B01S	34.9203	117.142	20-Mar-51	2155.4	2185.6	30	106306	Harper River
10N03W36B01S	34.9203	117.142	18-Apr-51	2150.2	2185.6	35	106307	Harper River
10N03W36B01S	34.9203	117.142	14-Jun-51	2143.37	2185.6	42	106308	Harper River
10N03W36B01S	34.9203	117.142	18-Jul-51	2142.31	2185.6	43	106309	Harper River
10N03W36B01S	34.9203	117.142	15-Aug-51	2141.23	2185.6	44	106310	Harper River
10N03W36B01S	34.9203	117.142	13-Sep-51	2141.1	2185.6	44	106311	Harper River
10N03W36B01S	34.9203	117.142	16-Oct-51	2143.02	2185.6	43	106312	Harper River
10N03W36B01S	34.9203	117.142	13-Dec-51	2155.83	2185.6	30	106313	Harper River
10N03W36B01S	34.9203	117.142	26-Mar-58	2116.12	2185.6	69	106314	Harper River
10N03W36C01S	34.9203	117.1464	21-Nov-58	2106	2180	74	106315	Harper River
10N03W36D02S	34.9206	117.1509	20-Nov-58	2110.56	2180	69	106316	Harper River
10N03W36F01S	34.9164	117.1464	21-Nov-58	2111.74	2185	73	106317	Harper River
10N03W36G02S	34.915	117.1431	18-Mar-93	2095.91	2182	86	106318	Harper River
10N03W36G02S	34.915	117.1431	21-Mar-00	2112.92	2182	69	106319	Harper River
10N03W36J01S	34.9128	117.1375	21-Nov-58	2136.37	2185	49	106320	Harper River
10N03W36J02S	34.9131	117.1375	01-Dec-58	2128.27	2180	52	106321	Harper River
10N03W36J04S	34.9114	117.1356	18-Mar-93	2091.71	2185	93	106322	Harper River
10N03W36J04S	34.9114	117.1356	30-Apr-96	2114.4	2185	71	106323	Harper River
10N03W36J04S	34.9114	117.1356	31-Mar-98	2115.83	2185	69	106324	Harper River
10N03W36J04S	34.9114	117.1356	11-Mar-04	2102.73	2185	82	106325	Harper River
10N03W36L01S	34.9131	117.1464	21-Nov-58	2112.2	2185	73	106326	Harper River
10N03W36N02S	34.9092	117.1509	15-Jun-50	2122.6	2190	67	106327	Harper River
10N03W36N02S	34.9092	117.1509	14-Sep-50	2120	2190	70	106328	Harper River
10N03W36N02S	34.9092	117.1509	17-Oct-50	2126.3	2190	64	106329	Harper River
10N03W36N02S	34.9092	117.1509	13-Dec-50	2128.56	2190	61	106330	Harper River
10N03W36N02S	34.9092	117.1509	16-Jan-51	2133.1	2190	57	106331	Harper River
10N03W36N02S	34.9092	117.1509	14-Feb-51	2134.6	2190	55	106332	Harper River
10N03W36N02S	34.9092	117.1509	15-Aug-51	2122	2190	68	106333	Harper River
10N03W36N02S	34.9092	117.1509	13-Sep-51	2121.3	2190	69	106334	Harper River
10N03W36N02S	34.9092	117.1509	16-Oct-51	2123.07	2190	67	106335	Harper River
10N03W36N02S	34.9092	117.1509	13-Dec-51	2126.56	2190	63	106336	Harper River
10N03W36N02S	34.9092	117.1509	22-Jan-52	2128.85	2190	61	106337	Harper River
10N03W36N02S	34.9092	117.1509	14-Feb-52	2129.21	2190	61	106338	Harper River

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N03W36N02S	34.9092	117.1509	13-Mar-52	2129.51	2190	60	106339	Harper River
10N03W36N02S	34.9092	117.1509	10-Apr-52	2123.49	2190	67	106340	Harper River
10N03W36N02S	34.9092	117.1509	17-Dec-52	2116.7	2190	73	106341	Harper River
10N03W36N02S	34.9092	117.1509	16-Jan-53	2124.2	2190	66	106342	Harper River
10N03W36N02S	34.9092	117.1509	18-Feb-53	2120.65	2190	69	106343	Harper River
10N03W36N02S	34.9092	117.1509	13-Nov-53	2118.15	2190	72	106344	Harper River
10N03W36N02S	34.9092	117.1509	25-Nov-54	2111.4	2190	79	106345	Harper River
10N03W36N02S	34.9092	117.1509	13-Dec-55	2104.48	2190	86	106346	Harper River
10N03W36N02S	34.9092	117.1509	21-Dec-56	2104.22	2190	86	106347	Harper River
10N03W36N02S	34.9092	117.1509	02-May-57	2097.66	2190	92	106348	Harper River
10N03W36N02S	34.9092	117.1509	21-Nov-58	2109.5	2190	80	106349	Harper River
10N03W36P01S	34.9094	117.1464	21-Nov-58	2121.63	2190	68	106350	Harper River
10N03W36P02S	34.9097	117.1464	21-Nov-58	2146.42	2190	44	106351	Harper River
10N03W36Q01S	34.9078	117.1422	10-Feb-78	2089	2188	99	106352	Harper River
10N03W36Q01S	34.9078	117.1422	02-Nov-90	2104.69	2188	83	106353	Harper River
10N03W36R01S	34.9094	117.1375	01-Dec-58	2147.7	2185	37	106354	Harper River
10N03W36R05S	34.9083	117.137	20-Jan-93	2087.9	2185	97	106355	Harper River
10N04W02A01S	34.9939	117.2611	20-May-59	2018	2080	62	106709	Harper South
10N04W02A02S	34.9942	117.2611	20-May-59	2021.1	2100	79	106710	Harper South
10N04W03F01S	34.9903	117.2875	24-Jun-53	2002.9	2150	147	106711	Harper South
10N04W03F01S	34.9903	117.2875	17-Mar-54	2005.58	2150	144	106712	Harper South
10N04W03F01S	34.9903	117.2875	01-Dec-54	2001.09	2150	149	106713	Harper South
10N04W03F01S	34.9903	117.2875	04-Mar-55	2002.8	2150	147	106714	Harper South
10N04W03F01S	34.9903	117.2875	17-Nov-55	1998.25	2150	152	106715	Harper South
10N04W03F01S	34.9903	117.2875	22-Mar-56	1998.23	2150	152	106716	Harper South
10N04W03F01S	34.9903	117.2875	06-Mar-57	1997.8	2150	152	106717	Harper South
10N04W03F01S	34.9903	117.2875	08-Nov-57	1992.81	2150	157	106718	Harper South
10N04W03F01S	34.9903	117.2875	11-Mar-58	1994.15	2150	156	106719	Harper South
10N04W03Q01S	34.9831	117.2831	24-Jun-53	1974.88	2125	150	106720	Harper South
10N04W03Q01S	34.9831	117.2831	25-Mar-58	1965.81	2125	159	106721	Harper South
10N04W03Q01S	34.9831	117.2831	18-May-59	1966.05	2125	159	106722	Harper South
10N04W03Q01S	34.9831	117.2831	17-Nov-60	1965.71	2125	159	106723	Harper South
10N04W03Q01S	34.9831	117.2831	09-Mar-61	1969.7	2125	155	106724	Harper South
10N04W03Q01S	34.9831	117.2831	27-Oct-61	1966.41	2125	159	106725	Harper South
10N04W03Q01S	34.9831	117.2831	15-Mar-62	1958.45	2125	167	106726	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N04W03Q01S	34.9831	117.2831	02-Nov-62	1958	2125	167	106727	Harper South
10N04W04C01S	34.9939	117.3053	27-May-59	1940	2100	160	106728	Harper South
10N04W06A01S	34.9942	117.332	19-May-59	1945.5	2120	174	106729	Harper South
10N04W10A01S	34.9792	117.2786	20-May-59	1933	2120	187	106732	Harper South
10N04W10D01S	34.9808	117.2923	02-Nov-62	1965.11	2135	169.89	106733	Harper South
10N04W10D01S	34.9808	117.2923	13-Mar-63	1966.95	2135	168.05	106734	Harper South
10N04W10D01S	34.9808	117.2923	30-Oct-63	1965.43	2135	169.57	106735	Harper South
10N04W10D01S	34.9808	117.2923	08-Mar-64	1966.87	2135	168.13	106736	Harper South
10N04W10D01S	34.9808	117.2923	14-Oct-64	1962.63	2135	172.37	106737	Harper South
10N04W10D01S	34.9808	117.2923	10-Mar-65	1963.94	2135	171.06	106738	Harper South
10N04W10D01S	34.9808	117.2923	19-Oct-65	1958.31	2135	176.69	106739	Harper South
10N04W10D01S	34.9808	117.2923	16-Mar-66	1960.79	2135	174.21	106740	Harper South
10N04W10D01S	34.9808	117.2923	19-Oct-66	1954.62	2135	180.38	106741	Harper South
10N04W10D01S	34.9808	117.2923	15-Mar-67	1956.66	2135	178.34	106742	Harper South
10N04W10D01S	34.9808	117.2923	23-Oct-67	1950.95	2135	184.05	106743	Harper South
10N04W10D01S	34.9808	117.2923	11-Apr-68	1951.24	2135	183.76	106744	Harper South
10N04W10D01S	34.9808	117.2923	14-Nov-68	1947.98	2135	187.02	106745	Harper South
10N04W10D01S	34.9808	117.2923	08-Apr-69	1950	2135	185	106746	Harper South
10N04W10D01S	34.9808	117.2923	29-Oct-69	1941.95	2135	193.05	106747	Harper South
10N04W10D01S	34.9808	117.2923	23-Mar-70	1944.56	2135	190.44	106748	Harper South
10N04W10D01S	34.9808	117.2923	12-Nov-70	1938.06	2135	196.94	106749	Harper South
10N04W10D01S	34.9808	117.2923	14-Apr-71	1938.55	2135	196.45	106750	Harper South
10N04W10D01S	34.9808	117.2923	19-Nov-92	1898.47	2135	236.53	106751	Harper South
10N04W10D01S	34.9808	117.2923	19-May-93	1898.49	2135	236.51	106752	Harper South
10N04W10D01S	34.9808	117.2923	17-May-94	1897.79	2135	237.21	106753	Harper South
10N04W10D01S	34.9808	117.2923	08-May-95	1896.9	2135	238.1	106754	Harper South
10N04W10D01S	34.9808	117.2923	13-May-96	1896.36	2135	238.64	106755	Harper South
10N04W10D01S	34.9808	117.2923	24-Mar-97	1895.78	2135	239.22	106756	Harper South
10N04W10D01S	34.9808	117.2923	17-Mar-98	1895.61	2135	239.39	106757	Harper South
10N04W10D01S	34.9808	117.2923	13-Apr-98	1895.62	2135	239.38	106758	Harper South
10N04W10D01S	34.9808	117.2923	08-Apr-99	1896.36	2135	238.64	106759	Harper South
10N04W10D01S	34.9808	117.2923	22-Mar-00	1897.13	2135	238	106789	Harper South
10N04W10D01S	34.9808	117.2923	12-Apr-00	1897.21	2135	237.79	106760	Harper South
10N04W10D01S	34.9808	117.2923	19-Apr-01	1898.31	2135	237	106791	Harper South
10N04W10D01S	34.9808	117.2923	14-Mar-02	1897.89	2135	237.11	106761	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
10N04W10D01S	34.9808	117.2923	28-Feb-03	1900.17	2135	235	106793	Harper South
10N04W10D01S	34.9808	117.2923	16-Mar-04	1901.04	2135	234	106794	Harper South
10N04W10D01S	34.9808	117.2923	21-Apr-05	1902.24	2135	232.76	124677	Harper South
10N04W10D01S	34.9808	117.2923	21-Apr-06	1903.2	2135	231.8	124654	Harper South
11N03W07D01S	35.0661	117.2395	26-Aug-53	2008.58	2071	62	108001	Harper North
11N03W07D01S	35.0661	117.2394	26-Aug-53	2008.58	2071	62	107936	Harper North
11N03W07D01S	35.0661	117.2394	16-Jun-54	2015.45	2071	56	107937	Harper North
11N03W07D01S	35.0661	117.2395	16-Jun-54	2015.45	2071	56	108002	Harper North
11N03W07D01S	35.0661	117.2395	22-Nov-54	2015.1	2071	56	108003	Harper North
11N03W07D01S	35.0661	117.2394	22-Nov-54	2015.1	2071	56	107938	Harper North
11N03W07D01S	35.0661	117.2395	04-Mar-55	2014.91	2071	56	108004	Harper North
11N03W07D01S	35.0661	117.2394	04-Mar-55	2014.91	2071	56	107939	Harper North
11N03W07D01S	35.0661	117.2394	14-Apr-55	2013.4	2071	58	107940	Harper North
11N03W07D01S	35.0661	117.2395	14-Apr-55	2013.4	2071	58	108005	Harper North
11N03W07D01S	35.0661	117.2394	17-Nov-55	2014.38	2071	57	107941	Harper North
11N03W07D01S	35.0661	117.2395	17-Nov-55	2014.38	2071	57	108006	Harper North
11N03W07D01S	35.0661	117.2394	23-Mar-56	2014.11	2071	57	107942	Harper North
11N03W07D01S	35.0661	117.2395	23-Mar-56	2014.11	2071	57	108007	Harper North
11N03W07D01S	35.0661	117.2395	12-Apr-56	2013.73	2071	57	108008	Harper North
11N03W07D01S	35.0661	117.2394	12-Apr-56	2013.73	2071	57	107943	Harper North
11N03W07D01S	35.0661	117.2395	02-Nov-56	2013.72	2071	57	108009	Harper North
11N03W07D01S	35.0661	117.2394	02-Nov-56	2013.72	2071	57	107944	Harper North
11N03W07D01S	35.0661	117.2395	21-Dec-56	2013.55	2071	57	108010	Harper North
11N03W07D01S	35.0661	117.2394	21-Dec-56	2013.55	2071	57	107945	Harper North
11N03W07D01S	35.0661	117.2394	06-Mar-57	2010.7	2071	60	107946	Harper North
11N03W07D01S	35.0661	117.2395	06-Mar-57	2010.7	2071	60	108011	Harper North
11N03W07D01S	35.0661	117.2395	02-May-57	2013.24	2071	58	108012	Harper North
11N03W07D01S	35.0661	117.2394	02-May-57	2013.24	2071	58	107947	Harper North
11N03W07D01S	35.0661	117.2395	08-Nov-57	2012.85	2071	58	108013	Harper North
11N03W07D01S	35.0661	117.2394	08-Nov-57	2012.85	2071	58	107948	Harper North
11N03W07D01S	35.0661	117.2394	03-Dec-57	2012.78	2071	58	107949	Harper North
11N03W07D01S	35.0661	117.2395	03-Dec-57	2012.78	2071	58	108014	Harper North
11N03W07D01S	35.0661	117.2395	11-Mar-58	2012.55	2071	58	108015	Harper North
11N03W07D01S	35.0661	117.2394	11-Mar-58	2012.55	2071	58	107950	Harper North
11N03W07D01S	35.0661	117.2394	25-Mar-58	2012.53	2071	58	107951	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W07D01S	35.0661	117.2395	25-Mar-58	2012.53	2071	58	108016	Harper North
11N03W07D01S	35.0661	117.2395	06-Nov-58	2012.09	2071	59	108017	Harper North
11N03W07D01S	35.0661	117.2394	06-Nov-58	2012.09	2071	59	107952	Harper North
11N03W07D01S	35.0661	117.2394	02-Dec-58	2012	2071	59	107953	Harper North
11N03W07D01S	35.0661	117.2395	02-Dec-58	2012	2071	59	108018	Harper North
11N03W07D01S	35.0661	117.2395	12-Mar-59	2011.79	2071	59	108019	Harper North
11N03W07D01S	35.0661	117.2394	12-Mar-59	2011.79	2071	59	107954	Harper North
11N03W07D01S	35.0661	117.2394	04-May-59	2012.27	2071	59	107955	Harper North
11N03W07D01S	35.0661	117.2395	04-May-59	2012.27	2071	59	108020	Harper North
11N03W07D01S	35.0661	117.2395	11-Nov-59	2011.67	2071	59	108021	Harper North
11N03W07D01S	35.0661	117.2394	11-Nov-59	2011.67	2071	59	107956	Harper North
11N03W07D01S	35.0661	117.2394	18-Nov-59	2011.31	2071	60	107957	Harper North
11N03W07D01S	35.0661	117.2395	18-Nov-59	2011.31	2071	60	108022	Harper North
11N03W07D01S	35.0661	117.2395	02-Mar-60	2011.1	2071	60	108023	Harper North
11N03W07D01S	35.0661	117.2394	02-Mar-60	2011.1	2071	60	107958	Harper North
11N03W07D01S	35.0661	117.2395	23-Mar-60	2011.52	2071	59	108024	Harper North
11N03W07D01S	35.0661	117.2394	23-Mar-60	2011.52	2071	59	107959	Harper North
11N03W07D01S	35.0661	117.2395	16-Nov-60	2010.67	2071	60	108025	Harper North
11N03W07D01S	35.0661	117.2394	16-Nov-60	2010.67	2071	60	107960	Harper North
11N03W07D01S	35.0661	117.2395	08-Mar-61	2010.48	2071	61	108026	Harper North
11N03W07D01S	35.0661	117.2394	08-Mar-61	2010.48	2071	61	107961	Harper North
11N03W07D01S	35.0661	117.2395	01-May-61	2007.2	2071	64	108027	Harper North
11N03W07D01S	35.0661	117.2394	01-May-61	2007.2	2071	64	107962	Harper North
11N03W07D01S	35.0661	117.2395	27-Oct-61	2010.16	2071	61	108028	Harper North
11N03W07D01S	35.0661	117.2394	27-Oct-61	2010.16	2071	61	107963	Harper North
11N03W07D01S	35.0661	117.2395	28-Nov-61	2010.4	2071	61	108029	Harper North
11N03W07D01S	35.0661	117.2394	28-Nov-61	2010.4	2071	61	107964	Harper North
11N03W07D01S	35.0661	117.2394	15-Mar-62	2009.94	2071	61	107965	Harper North
11N03W07D01S	35.0661	117.2395	15-Mar-62	2009.94	2071	61	108030	Harper North
11N03W07D01S	35.0661	117.2395	22-Mar-62	2010	2071	61	108031	Harper North
11N03W07D01S	35.0661	117.2394	22-Mar-62	2010	2071	61	107966	Harper North
11N03W07D01S	35.0661	117.2394	02-Nov-62	2009.57	2071	61	107967	Harper North
11N03W07D01S	35.0661	117.2395	02-Nov-62	2009.57	2071	61	108032	Harper North
11N03W07D01S	35.0661	117.2395	14-Nov-62	2009.5	2071	62	108033	Harper North
11N03W07D01S	35.0661	117.2394	14-Nov-62	2009.5	2071	62	107968	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W07D01S	35.0661	117.2395	13-Mar-63	2009.41	2071	62	108034	Harper North
11N03W07D01S	35.0661	117.2394	13-Mar-63	2009.41	2071	62	107969	Harper North
11N03W07D01S	35.0661	117.2394	18-Mar-63	2009.3	2071	62	107970	Harper North
11N03W07D01S	35.0661	117.2395	18-Mar-63	2009.3	2071	62	108035	Harper North
11N03W07D01S	35.0661	117.2394	30-Oct-63	2009.07	2071	62	107971	Harper North
11N03W07D01S	35.0661	117.2395	30-Oct-63	2009.07	2071	62	108036	Harper North
11N03W07D01S	35.0661	117.2394	17-Jan-64	2008.9	2071	62	107972	Harper North
11N03W07D01S	35.0661	117.2395	17-Jan-64	2008.9	2071	62	108037	Harper North
11N03W07D01S	35.0661	117.2395	08-Mar-64	2008.88	2071	62	108038	Harper North
11N03W07D01S	35.0661	117.2394	08-Mar-64	2008.88	2071	62	107973	Harper North
11N03W07D01S	35.0661	117.2394	21-Apr-64	2008.9	2071	62	107974	Harper North
11N03W07D01S	35.0661	117.2395	21-Apr-64	2008.9	2071	62	108039	Harper North
11N03W07D01S	35.0661	117.2394	14-Oct-64	2008.5	2071	62	107975	Harper North
11N03W07D01S	35.0661	117.2395	14-Oct-64	2008.5	2071	62	108040	Harper North
11N03W07D01S	35.0661	117.2394	03-Dec-64	2008.4	2071	63	107976	Harper North
11N03W07D01S	35.0661	117.2395	03-Dec-64	2008.4	2071	63	108041	Harper North
11N03W07D01S	35.0661	117.2395	10-Mar-65	2008.24	2071	63	108042	Harper North
11N03W07D01S	35.0661	117.2394	10-Mar-65	2008.24	2071	63	107977	Harper North
11N03W07D01S	35.0661	117.2394	18-Oct-65	2007.89	2071	63	107978	Harper North
11N03W07D01S	35.0661	117.2395	18-Oct-65	2007.89	2071	63	108043	Harper North
11N03W07D01S	35.0661	117.2394	16-Mar-66	2007.63	2071	63	107979	Harper North
11N03W07D01S	35.0661	117.2395	16-Mar-66	2007.63	2071	63	108044	Harper North
11N03W07D01S	35.0661	117.2395	04-May-66	2007.6	2071	63	108045	Harper North
11N03W07D01S	35.0661	117.2394	04-May-66	2007.6	2071	63	107980	Harper North
11N03W07D01S	35.0661	117.2395	19-Oct-66	2007.27	2071	64	108046	Harper North
11N03W07D01S	35.0661	117.2394	19-Oct-66	2007.27	2071	64	107981	Harper North
11N03W07D01S	35.0661	117.2394	17-Nov-66	2007.3	2071	64	107982	Harper North
11N03W07D01S	35.0661	117.2395	17-Nov-66	2007.3	2071	64	108047	Harper North
11N03W07D01S	35.0661	117.2395	15-Mar-67	2006.45	2071	65	108048	Harper North
11N03W07D01S	35.0661	117.2394	15-Mar-67	2006.45	2071	65	107983	Harper North
11N03W07D01S	35.0661	117.2394	31-Mar-67	2007	2071	64	107984	Harper North
11N03W07D01S	35.0661	117.2395	31-Mar-67	2007	2071	64	108049	Harper North
11N03W07D01S	35.0661	117.2395	23-Oct-67	2006.5	2071	64	108050	Harper North
11N03W07D01S	35.0661	117.2394	23-Oct-67	2006.5	2071	64	107985	Harper North
11N03W07D01S	35.0661	117.2394	11-Apr-68	2006.18	2071	65	107986	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W07D01S	35.0661	117.2395	11-Apr-68	2006.18	2071	65	108051	Harper North
11N03W07D01S	35.0661	117.2394	03-May-68	2006	2071	65	107987	Harper North
11N03W07D01S	35.0661	117.2395	03-May-68	2006	2071	65	108052	Harper North
11N03W07D01S	35.0661	117.2394	01-Jul-68	2006	2071	65	107988	Harper North
11N03W07D01S	35.0661	117.2395	01-Jul-68	2006	2071	65	108053	Harper North
11N03W07D01S	35.0661	117.2394	10-Jul-68	2006.12	2071	65	107989	Harper North
11N03W07D01S	35.0661	117.2395	10-Jul-68	2006.12	2071	65	108054	Harper North
11N03W07D01S	35.0661	117.2395	14-Nov-68	2005.74	2071	65	108055	Harper North
11N03W07D01S	35.0661	117.2394	14-Nov-68	2005.74	2071	65	107990	Harper North
11N03W07D01S	35.0661	117.2395	21-Nov-68	2005.7	2071	65	108056	Harper North
11N03W07D01S	35.0661	117.2394	21-Nov-68	2005.7	2071	65	107991	Harper North
11N03W07D01S	35.0661	117.2394	08-Apr-69	2005.42	2071	66	107992	Harper North
11N03W07D01S	35.0661	117.2395	08-Apr-69	2005.42	2071	66	108057	Harper North
11N03W07D01S	35.0661	117.2395	11-Apr-69	2005	2071	66	108058	Harper North
11N03W07D01S	35.0661	117.2394	11-Apr-69	2005	2071	66	107993	Harper North
11N03W07D01S	35.0661	117.2394	28-Oct-69	2004.97	2071	66	107994	Harper North
11N03W07D01S	35.0661	117.2395	28-Oct-69	2004.97	2071	66	108059	Harper North
11N03W07D01S	35.0661	117.2395	23-Mar-70	2004.61	2071	66	108060	Harper North
11N03W07D01S	35.0661	117.2394	23-Mar-70	2004.61	2071	66	107995	Harper North
11N03W07D01S	35.0661	117.2394	11-Nov-70	2004.5	2071	66	107996	Harper North
11N03W07D01S	35.0661	117.2395	11-Nov-70	2004.5	2071	66	108061	Harper North
11N03W07D01S	35.0661	117.2395	14-Apr-71	2003.66	2071	67	108062	Harper North
11N03W07D01S	35.0661	117.2394	14-Apr-71	2003.66	2071	67	107997	Harper North
11N03W07D01S	35.0661	117.2394	22-Nov-92	1979.87	2071	91	107998	Harper North
11N03W07D01S	35.0661	117.2395	22-Nov-92	1979.87	2071	91	108063	Harper North
11N03W07D01S	35.0661	117.2395	17-Apr-96	1975.45	2071	96	108064	Harper North
11N03W07D01S	35.0661	117.2394	17-Apr-96	1975.45	2071	96	107999	Harper North
11N03W07D01S	35.0661	117.2394	16-Mar-98	1973.65	2071	97	108000	Harper North
11N03W07D01S	35.0661	117.2395	16-Mar-98	1973.65	2071	97	108065	Harper North
11N03W07D01S	35.0661	117.2395	12-Mar-02	1986.33	2071	85	108066	Harper North
11N03W07D01S	35.0661	117.2395	11-Mar-04	1959.68	2071	111	108067	Harper North
11N03W07D01S	35.0661	117.2395	21-Mar-06	1966.93	2071	104.07	124640	Harper North
11N03W07M01S	35.0614	117.2375	10-May-55	2422.26	2450	28	108068	Harper North
11N03W07R01S	35.0547	117.2242	01-Jul-68	2014	2040	26	108069	Harper North
11N03W07Z02S	35.0592	117.2247	01-Jan-19	2030	2045	15	108070	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W07Z03S	35.0542	117.2322	01-Jan-19	2021	2040	19	108071	Harper North
11N03W08G01S	35.0622	117.2122	11-May-55	2027.08	2075	48	108072	Harper North
11N03W08G01S	35.0622	117.2122	01-Jul-68	2023	2075	52	108073	Harper North
11N03W08G01S	35.0622	117.2122	10-Jul-68	2023.12	2075	52	108074	Harper North
11N03W08N01S	35.0544	117.2222	01-Jul-68	2023	2040	17	108075	Harper North
11N03W15C01S	35.0481	117.1822	01-Jan-57	2070	2190	120	108076	Harper North
11N03W15D01S	35.0508	117.1869	01-Jul-68	2026.94	2155	128	108077	Harper North
11N03W15D01S	35.0508	117.187	01-Jul-68	2026.94	2155	128	108078	Harper North
11N03W15E01S	35.0469	117.1869	11-May-55	2032	2140	108	108079	Harper North
11N03W15E01S	35.0469	117.187	11-May-55	2032	2140	108	108080	Harper North
11N03W15E02S	35.0483	117.1869	01-Jul-68	2034	2155	121	108081	Harper North
11N03W15E02S	35.0483	117.187	01-Jul-68	2034	2155	121	108082	Harper North
11N03W16D01S	35.0522	117.2053	22-Nov-92	2003.28	2077	74	108083	Harper North
11N03W16D01S	35.0522	117.2053	17-Apr-96	1998.46	2077	79	108084	Harper North
11N03W16D01S	35.0522	117.2053	16-Mar-98	1996.66	2077	80	108085	Harper North
11N03W16D01S	35.0522	117.2053	22-Mar-00	1994.33	2077	83	108086	Harper North
11N03W16D01S	35.0522	117.2053	11-Mar-04	1993.72	2077	83	108087	Harper North
11N03W16D01S	35.0522	117.2053	21-Mar-06	1993.54	2077	83.46	124639	Harper North
11N03W16Z01S	35.0444	117.1894	01-Jan-19	2015	2125	110	108088	Harper North
11N03W17J01S	35.0467	117.2072	01-Jul-68	2019	2060	41	108089	Harper North
11N03W19B01S	35.0361	117.2292	11-May-55	2025.49	2030	5	108090	Harper North
11N03W19B01S	35.0361	117.2292	01-Aug-69	2023	2030	7	108091	Harper North
11N03W19B01S	35.0361	117.2292	19-Aug-69	2022.74	2030	7	108092	Harper North
11N03W20J01S	35.03	117.207	01-Jul-68	2030	2055	25	108094	Harper North
11N03W20J01S	35.03	117.2069	01-Jul-68	2030	2055	25	108093	Harper North
11N03W20N01S	35.025	117.2219	01-Jan-19	2029	2040	11	108095	Harper North
11N03W20P01S	35.0258	117.2111	11-May-55	2033.84	2050	16	108096	Harper North
11N03W20P01S	35.0258	117.2111	01-Jul-68	2028	2050	22	108097	Harper North
11N03W20P01S	35.0258	117.2111	03-Jul-68	2027.98	2050	22	108098	Harper North
11N03W20R01S	35.0256	117.2067	01-Jul-68	2030	2050	20	108099	Harper North
11N03W21L01S	35.03	117.2011	01-Jan-66	2025.5	2065	40	108100	Harper North
11N03W21L02S	35.03	117.1994	01-Jan-62	2022.5	2065	42	108101	Harper North
11N03W21N02S	35.0264	117.2022	01-Jul-68	2023	2055	32	108102	Harper North
11N03W21R01S	35.0261	117.1908	05-May-54	2024.85	2080	55	108103	Harper North
11N03W21R01S	35.0261	117.1909	05-May-54	2024.85	2080	55	108108	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W21R01S	35.0261	117.1908	26-Aug-54	2024.06	2080	56	108104	Harper North
11N03W21R01S	35.0261	117.1909	26-Aug-54	2024.06	2080	56	108109	Harper North
11N03W21R01S	35.0261	117.1909	11-May-55	2024.64	2080	55	108110	Harper North
11N03W21R01S	35.0261	117.1908	11-May-55	2024.64	2080	55	108105	Harper North
11N03W21R01S	35.0261	117.1908	01-Jul-68	2019	2080	61	108106	Harper North
11N03W21R01S	35.0261	117.1909	01-Jul-68	2019	2080	61	108111	Harper North
11N03W21R01S	35.0261	117.1909	05-Jul-68	2019.38	2080	61	108112	Harper North
11N03W21R01S	35.0261	117.1908	05-Jul-68	2019.38	2080	61	108107	Harper North
11N03W27L01S	35.0156	117.1814	11-May-55	2038.8	2105	66	108113	Harper North
11N03W27N02S	35.0114	117.1867	01-Jan-19	2047	2075	28	108114	Harper North
11N03W28H01S	35.0189	117.1889	01-Jan-19	2040.5	2079	38	108115	Harper North
11N03W28H01S	35.0189	117.1889	31-May-30	2037.7	2079	41	108116	Harper North
11N03W28H01S	35.0189	117.1889	25-Feb-31	2037.6	2079	41	108117	Harper North
11N03W28H01S	35.0189	117.1889	10-Mar-32	2037.5	2079	42	108118	Harper North
11N03W28H01S	35.0189	117.1889	29-Mar-32	2037.5	2079	42	108119	Harper North
11N03W28H01S	35.0189	117.1889	06-Jul-32	2037.4	2079	42	108120	Harper North
11N03W28H01S	35.0189	117.1889	22-Dec-32	2037.3	2079	42	108121	Harper North
11N03W28H01S	35.0189	117.1889	09-Feb-34	2036.9	2079	42	108122	Harper North
11N03W28H02S	35.0189	117.1889	31-May-30	2037.9	2078	40	108123	Harper North
11N03W28H02S	35.0189	117.1889	25-Feb-31	2037.9	2078	40	108124	Harper North
11N03W28H02S	35.0189	117.1889	10-Mar-32	2037.7	2078	40	108125	Harper North
11N03W28H02S	35.0189	117.1889	29-Mar-32	2037.7	2078	40	108126	Harper North
11N03W28H02S	35.0189	117.1889	06-Jul-32	2037.7	2078	40	108127	Harper North
11N03W28J01S	35.0142	117.1889	01-Jan-19	2063.4	2080	17	108128	Harper North
11N03W28R01S	35.0122	117.1889	31-May-30	2052.7	2074	21	108129	Harper North
11N03W28R01S	35.0122	117.1889	25-Feb-31	2052.6	2074	21	108130	Harper North
11N03W28R01S	35.0122	117.1889	27-Aug-31	2051.6	2074	22	108131	Harper North
11N03W28R01S	35.0122	117.1889	10-Mar-32	2051.8	2074	22	108132	Harper North
11N03W28R01S	35.0122	117.1889	06-Jul-32	2051.9	2074	22	108133	Harper North
11N03W28R01S	35.0122	117.1889	22-Dec-32	2051.1	2074	23	108134	Harper North
11N03W28R01S	35.0122	117.1889	07-Jan-47	2047.51	2074	26	108135	Harper North
11N03W28R01S	35.0122	117.1889	20-May-47	2047.47	2074	27	108136	Harper North
11N03W28R01S	35.0122	117.1889	13-Nov-47	2047.19	2074	27	108137	Harper North
11N03W28R01S	35.0122	117.1889	17-May-48	2047.22	2074	27	108138	Harper North
11N03W28R01S	35.0122	117.1889	18-Nov-48	2047.18	2074	27	108139	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W28R01S	35.0122	117.1889	09-May-49	2046.85	2074	27	108140	Harper North
11N03W28R01S	35.0122	117.1889	16-Nov-49	2046.93	2074	27	108141	Harper North
11N03W28R01S	35.0122	117.1889	01-May-50	2046.86	2074	27	108142	Harper North
11N03W28R01S	35.0122	117.1889	08-Nov-50	2046.69	2074	27	108143	Harper North
11N03W28R01S	35.0122	117.1889	16-May-51	2046.69	2074	27	108144	Harper North
11N03W28R01S	35.0122	117.1889	27-Nov-51	2046.36	2074	28	108145	Harper North
11N03W28R01S	35.0122	117.1889	30-May-52	2046.02	2074	28	108146	Harper North
11N03W28R01S	35.0122	117.1889	26-Nov-52	2045.07	2074	29	108147	Harper North
11N03W28R01S	35.0122	117.1889	27-May-53	2045.1	2074	29	108148	Harper North
11N03W28R01S	35.0122	117.1889	25-Jun-53	2044.5	2074	30	108149	Harper North
11N03W28R01S	35.0122	117.1889	12-Dec-55	2043.35	2074	31	108150	Harper North
11N03W28R01S	35.0122	117.1889	12-Apr-56	2042.98	2074	31	108151	Harper North
11N03W28R01S	35.0122	117.1889	02-Jan-57	2042.31	2074	32	108152	Harper North
11N03W28R01S	35.0122	117.1889	11-Nov-59	2042.82	2074	31	108153	Harper North
11N03W28R01S	35.0122	117.1889	23-Mar-60	2043.12	2074	31	108154	Harper North
11N03W28R02S	35.0108	117.1898	26-Jun-53	2047	2073	26	108240	Harper North
11N03W28R02S	35.0108	117.1898	17-Mar-54	2046.69	2073	26.31	108156	Harper North
11N03W28R02S	35.0108	117.1898	01-Dec-54	2046.25	2073	26.75	108157	Harper North
11N03W28R02S	35.0108	117.1898	04-Mar-55	2046.13	2073	26.87	108158	Harper North
11N03W28R02S	35.0108	117.1898	18-Nov-55	2045.61	2073	27.39	108159	Harper North
11N03W28R02S	35.0108	117.1898	23-Mar-56	2045.37	2073	27.63	108160	Harper North
11N03W28R02S	35.0108	117.1898	02-Nov-56	2044.82	2073	28.18	108161	Harper North
11N03W28R02S	35.0108	117.1898	06-Mar-57	2044.7	2073	28.3	108162	Harper North
11N03W28R02S	35.0108	117.1898	08-Nov-57	2044.06	2073	28.94	108163	Harper North
11N03W28R02S	35.0108	117.1898	11-Mar-58	2044	2073	29	108249	Harper North
11N03W28R02S	35.0108	117.1898	06-Nov-58	2043.26	2073	29.74	108165	Harper North
11N03W28R02S	35.0108	117.1898	12-Mar-59	2042.13	2073	30.87	108166	Harper North
11N03W28R02S	35.0108	117.1898	02-Mar-60	2042.12	2073	30.88	108167	Harper North
11N03W28R02S	35.0108	117.1898	16-Nov-60	2041	2073	32	108168	Harper North
11N03W28R02S	35.0108	117.1898	08-Mar-61	2040.93	2073	32.07	108169	Harper North
11N03W28R02S	35.0108	117.1898	27-Oct-61	2040.15	2073	32.85	108170	Harper North
11N03W28R02S	35.0108	117.1898	15-Mar-62	2040.21	2073	32.79	108171	Harper North
11N03W28R02S	35.0108	117.1898	02-Nov-62	2039.26	2073	33.74	108172	Harper North
11N03W28R02S	35.0108	117.1898	13-Mar-63	2039.44	2073	33.56	108173	Harper North
11N03W28R02S	35.0108	117.1898	30-Oct-63	2038.6	2073	34.4	108174	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W28R02S	35.0108	117.1898	08-Mar-64	2038.84	2073	34.16	108175	Harper North
11N03W28R02S	35.0108	117.1898	14-Oct-64	2035.38	2073	37.62	108176	Harper North
11N03W28R02S	35.0108	117.1898	10-Mar-65	2036.79	2073	36.21	108177	Harper North
11N03W28R02S	35.0108	117.1898	18-Oct-65	2035.16	2073	37.84	108178	Harper North
11N03W28R02S	35.0108	117.1898	16-Mar-66	2035	2073	38	108346	Harper North
11N03W28R02S	35.0108	117.1898	15-Mar-67	2033.3	2073	39.7	108180	Harper North
11N03W28R02S	35.0108	117.1898	23-Oct-67	2034.16	2073	38.84	108181	Harper North
11N03W28R02S	35.0108	117.1898	11-Apr-68	2033.15	2073	39.85	108182	Harper North
11N03W28R02S	35.0108	117.1898	03-Jul-68	2032.9	2073	40.1	108183	Harper North
11N03W28R02S	35.0108	117.1898	14-Nov-68	2035.15	2073	37.85	108184	Harper North
11N03W28R02S	35.0108	117.1898	08-Apr-69	2032.54	2073	40.46	108185	Harper North
11N03W28R02S	35.0108	117.1898	28-Oct-69	2031.36	2073	41.64	108186	Harper North
11N03W28R02S	35.0108	117.1898	23-Mar-70	2031.27	2073	41.73	108187	Harper North
11N03W28R02S	35.0108	117.1898	11-Nov-70	2030.73	2073	42.27	108188	Harper North
11N03W28R02S	35.0108	117.1898	14-Apr-71	2030.27	2073	42.73	108189	Harper North
11N03W28R02S	35.0108	117.1898	14-Jul-78	2021.71	2073	51.29	108190	Harper North
11N03W28R02S	35.0108	117.1898	27-Mar-80	2023.5	2073	49.5	108191	Harper North
11N03W28R02S	35.0108	117.1898	11-Dec-80	2022.3	2073	50.7	108192	Harper North
11N03W28R02S	35.0108	117.1898	26-Mar-81	2022.3	2073	50.7	108193	Harper North
11N03W28R02S	35.0108	117.1898	25-Jun-81	2018.72	2073	54.28	108194	Harper North
11N03W28R02S	35.0108	117.1898	07-Oct-81	2020.44	2073	52.56	108195	Harper North
11N03W28R02S	35.0108	117.1898	24-Mar-82	2020.86	2073	52.14	108196	Harper North
11N03W28R02S	35.0108	117.1898	03-Jun-82	2020.95	2073	52.05	108197	Harper North
11N03W28R02S	35.0108	117.1898	21-Oct-82	2020.98	2073	52.02	108198	Harper North
11N03W28R02S	35.0108	117.1898	14-Dec-82	2021.26	2073	51.74	108199	Harper North
11N03W28R02S	35.0108	117.1898	17-Mar-83	2021.55	2073	51.45	108200	Harper North
11N03W28R02S	35.0108	117.1898	22-Jun-83	2020.74	2073	52.26	108201	Harper North
11N03W28R02S	35.0108	117.1898	20-Oct-83	2020.53	2073	52.47	108202	Harper North
11N03W28R02S	35.0108	117.1898	28-Mar-84	2020.66	2073	52.34	108203	Harper North
11N03W28R02S	35.0108	117.1898	21-May-84	2020.96	2073	52.04	108204	Harper North
11N03W28R02S	35.0108	117.1898	18-Oct-84	2020.53	2073	52.47	108205	Harper North
11N03W28R02S	35.0108	117.1898	16-Jan-85	2020.7	2073	52.3	108206	Harper North
11N03W28R02S	35.0108	117.1898	15-May-85	2019.55	2073	53.45	108207	Harper North
11N03W28R02S	35.0108	117.1898	17-Oct-85	2019.21	2073	53.79	108208	Harper North
11N03W28R02S	35.0108	117.1898	22-Jan-86	2020.08	2073	52.92	108209	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W28R02S	35.0108	117.1898	23-Apr-86	2019.86	2073	53.14	108210	Harper North
11N03W28R02S	35.0108	117.1898	15-Jul-86	2019.46	2073	53.54	108211	Harper North
11N03W28R02S	35.0108	117.1898	12-Dec-86	2019.25	2073	53.75	108212	Harper North
11N03W28R02S	35.0108	117.1898	31-Mar-87	2019.19	2073	53.81	108213	Harper North
11N03W28R02S	35.0108	117.1898	12-May-87	2018.64	2073	54.36	108214	Harper North
11N03W28R02S	35.0108	117.1898	04-Nov-87	2017.82	2073	55.18	108215	Harper North
11N03W28R02S	35.0108	117.1898	09-Mar-88	2018.02	2073	54.98	108216	Harper North
11N03W28R02S	35.0108	117.1898	21-Nov-88	2017.05	2073	55.95	108217	Harper North
11N03W28R02S	35.0108	117.1898	02-Jun-89	2011.82	2073	61.18	108218	Harper North
11N03W28R02S	35.0108	117.1898	29-Oct-89	2016.06	2073	56.94	108219	Harper North
11N03W28R02S	35.0108	117.1898	24-May-90	2018.78	2073	54.22	108220	Harper North
11N03W28R02S	35.0108	117.1898	02-Nov-90	2015.2	2073	57.8	108221	Harper North
11N03W28R02S	35.0108	117.1898	11-Jun-91	2015.2	2073	57.8	108222	Harper North
11N03W28R02S	35.0108	117.1898	31-Oct-91	2013.95	2073	59.05	108223	Harper North
11N03W28R02S	35.0108	117.1898	23-Nov-92	2013.58	2073	59.42	108224	Harper North
11N03W28R02S	35.0108	117.1898	19-May-93	2012.69	2073	60.31	108225	Harper North
11N03W28R02S	35.0108	117.1898	15-Nov-93	2011.8	2073	61.2	108226	Harper North
11N03W28R02S	35.0108	117.1898	21-Nov-94	2011.35	2073	61.65	108227	Harper North
11N03W28R02S	35.0108	117.1898	16-May-95	2011.34	2073	61.66	108228	Harper North
11N03W28R02S	35.0108	117.1898	17-Oct-95	2008.81	2073	64.19	108229	Harper North
11N03W28R02S	35.0108	117.1898	14-May-96	2009.49	2073	63.51	108230	Harper North
11N03W28R02S	35.0108	117.1898	11-Oct-96	1986.08	2073	86.92	108231	Harper North
11N03W28R02S	35.0108	117.1898	11-Oct-96	2004.69	2073	68.31	108232	Harper North
11N03W28R02S	35.0108	117.1898	21-Oct-97	2006.55	2073	66.45	108233	Harper North
11N03W28R02S	35.0108	117.1898	16-Mar-98	2008.8	2073	64	108318	Harper North
11N03W28R02S	35.0108	117.1898	11-Apr-98	2008.32	2073	64.68	108234	Harper North
11N03W28R02S	35.0108	117.1898	27-Oct-98	2004.91	2073	68.09	108235	Harper North
11N03W28R02S	35.0108	117.1898	08-Apr-99	2006.52	2073	66.48	108236	Harper North
11N03W28R02S	35.0108	117.1898	24-Nov-99	2005.29	2073	68	108404	Harper North
11N03W28R02S	35.0108	117.1898	22-Mar-00	2006.53	2073	66	108405	Harper North
11N03W28R02S	35.0108	117.1898	11-Apr-00	2004.33	2073	69	108406	Harper North
11N03W28R02S	35.0108	117.1898	24-Oct-00	1999.54	2073	73.46	108237	Harper North
11N03W28R02S	35.0108	117.1898	16-Oct-01	2000.2	2073	72.8	108238	Harper North
11N03W28R02S	35.0108	117.1898	12-Mar-02	2001.25	2073	71.75	108239	Harper North
11N03W28R02S	35.0108	117.1898	19-Apr-02	1988.14	2073	85	108410	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W28R02S	35.0108	117.1898	17-Oct-02	1998.28	2073	75	108411	Harper North
11N03W28R02S	35.0108	117.1898	28-Feb-03	2001.45	2073	72	108412	Harper North
11N03W28R02S	35.0108	117.1898	16-May-03	2001.15	2073	72	108413	Harper North
11N03W28R02S	35.0108	117.1898	27-Oct-03	2000.77	2073	72	108414	Harper North
11N03W28R02S	35.0108	117.1898	16-Mar-04	2002.23	2073	71	108415	Harper North
11N03W28R02S	35.0108	117.1898	26-Oct-04	1998.57	2073	74.43	124668	Harper North
11N03W28R02S	35.0108	117.1898	20-Apr-05	2000.55	2073	72.45	124676	Harper North
11N03W28R02S	35.0108	117.1898	27-Oct-05	1998.1	2073	74.9	124689	Harper North
11N03W28R02S	35.0108	117.1898	25-May-06	1998.45	2073	74.55	124658	Harper North
11N03W28R02S	35.0108	117.1898	11-Oct-06	1997.29	2073	75.71	124659	Harper North
11N03W30A01S	35.0178	117.2294	31-May-30	2028.1	2031	3	108416	Harper North
11N03W30A01S	35.0178	117.2295	31-May-30	2028.1	2031	3	108477	Harper North
11N03W30A01S	35.0178	117.2294	25-Feb-31	2028.3	2031	3	108417	Harper North
11N03W30A01S	35.0178	117.2295	25-Feb-31	2028.3	2031	3	108478	Harper North
11N03W30A01S	35.0178	117.2295	27-Aug-31	2025.8	2031	5	108479	Harper North
11N03W30A01S	35.0178	117.2294	27-Aug-31	2025.8	2031	5	108418	Harper North
11N03W30A01S	35.0178	117.2294	10-Mar-32	2027.6	2031	3	108419	Harper North
11N03W30A01S	35.0178	117.2295	10-Mar-32	2027.6	2031	3	108480	Harper North
11N03W30A01S	35.0178	117.2294	22-Dec-32	2026.9	2031	4	108420	Harper North
11N03W30A01S	35.0178	117.2295	22-Dec-32	2026.9	2031	4	108481	Harper North
11N03W30A01S	35.0178	117.2295	09-Feb-34	2027	2031	4	108482	Harper North
11N03W30A01S	35.0178	117.2294	09-Feb-34	2027	2031	4	108421	Harper North
11N03W30A01S	35.0178	117.2295	08-May-42	2030.4	2031	1	108483	Harper North
11N03W30A01S	35.0178	117.2294	08-May-42	2030.4	2031	1	108422	Harper North
11N03W30A01S	35.0178	117.2294	08-Nov-50	2030.4	2031	1	108423	Harper North
11N03W30A01S	35.0178	117.2295	08-Nov-50	2030.4	2031	1	108484	Harper North
11N03W30A01S	35.0178	117.2294	16-May-51	2030.4	2031	1	108424	Harper North
11N03W30A01S	35.0178	117.2295	16-May-51	2030.4	2031	1	108485	Harper North
11N03W30A01S	35.0178	117.2295	27-Nov-51	2030.4	2031	1	108486	Harper North
11N03W30A01S	35.0178	117.2294	27-Nov-51	2030.4	2031	1	108425	Harper North
11N03W30A01S	35.0178	117.2295	30-May-52	2030.4	2031	1	108487	Harper North
11N03W30A01S	35.0178	117.2294	30-May-52	2030.4	2031	1	108426	Harper North
11N03W30A01S	35.0178	117.2295	26-Nov-52	2030.4	2031	1	108488	Harper North
11N03W30A01S	35.0178	117.2294	26-Nov-52	2030.4	2031	1	108427	Harper North
11N03W30A01S	35.0178	117.2294	25-Jun-53	2030.4	2031	1	108428	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W30A01S	35.0178	117.2295	25-Jun-53	2030.4	2031	1	108489	Harper North
11N03W30A01S	35.0178	117.2294	12-Nov-53	2030.4	2031	1	108429	Harper North
11N03W30A01S	35.0178	117.2295	12-Nov-53	2030.4	2031	1	108490	Harper North
11N03W30A01S	35.0178	117.2294	13-May-54	2030.4	2031	1	108430	Harper North
11N03W30A01S	35.0178	117.2295	13-May-54	2030.4	2031	1	108491	Harper North
11N03W30A01S	35.0178	117.2294	22-Nov-54	2030.4	2031	1	108431	Harper North
11N03W30A01S	35.0178	117.2295	22-Nov-54	2030.4	2031	1	108492	Harper North
11N03W30A01S	35.0178	117.2295	11-May-55	2030.4	2031	1	108493	Harper North
11N03W30A01S	35.0178	117.2294	11-May-55	2030.4	2031	1	108432	Harper North
11N03W30A01S	35.0178	117.2295	17-Nov-55	2030.4	2031	1	108494	Harper North
11N03W30A01S	35.0178	117.2294	17-Nov-55	2030.4	2031	1	108433	Harper North
11N03W30A01S	35.0178	117.2295	23-Mar-56	2030.4	2031	1	108495	Harper North
11N03W30A01S	35.0178	117.2294	23-Mar-56	2030.4	2031	1	108434	Harper North
11N03W30A01S	35.0178	117.2295	12-Apr-56	2030.4	2031	1	108496	Harper North
11N03W30A01S	35.0178	117.2294	12-Apr-56	2030.4	2031	1	108435	Harper North
11N03W30A01S	35.0178	117.2295	02-Nov-56	2030.4	2031	1	108497	Harper North
11N03W30A01S	35.0178	117.2294	02-Nov-56	2030.4	2031	1	108436	Harper North
11N03W30A01S	35.0178	117.2294	02-Mar-60	2030.9	2031	0	108437	Harper North
11N03W30A01S	35.0178	117.2295	02-Mar-60	2030.9	2031	0	108498	Harper North
11N03W30A01S	35.0178	117.2294	16-Nov-60	2030.7	2031	0	108438	Harper North
11N03W30A01S	35.0178	117.2295	16-Nov-60	2030.7	2031	0	108499	Harper North
11N03W30A01S	35.0178	117.2294	08-Mar-61	2030.99	2031	0	108439	Harper North
11N03W30A01S	35.0178	117.2295	08-Mar-61	2030.99	2031	0	108500	Harper North
11N03W30A01S	35.0178	117.2294	01-May-61	2030.4	2031	1	108440	Harper North
11N03W30A01S	35.0178	117.2295	01-May-61	2030.4	2031	1	108501	Harper North
11N03W30A01S	35.0178	117.2294	27-Oct-61	2029.95	2031	1	108441	Harper North
11N03W30A01S	35.0178	117.2295	27-Oct-61	2029.95	2031	1	108502	Harper North
11N03W30A01S	35.0178	117.2295	28-Nov-61	2030	2031	1	108503	Harper North
11N03W30A01S	35.0178	117.2294	28-Nov-61	2030	2031	1	108442	Harper North
11N03W30A01S	35.0178	117.2295	15-May-62	2029.96	2031	1	108504	Harper North
11N03W30A01S	35.0178	117.2294	15-May-62	2029.96	2031	1	108443	Harper North
11N03W30A01S	35.0178	117.2294	02-Nov-62	2029.95	2031	1	108444	Harper North
11N03W30A01S	35.0178	117.2295	02-Nov-62	2029.95	2031	1	108505	Harper North
11N03W30A01S	35.0178	117.2295	14-Nov-62	2030	2031	1	108506	Harper North
11N03W30A01S	35.0178	117.2294	14-Nov-62	2030	2031	1	108445	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W30A01S	35.0178	117.2295	13-Mar-63	2029.95	2031	1	108507	Harper North
11N03W30A01S	35.0178	117.2294	13-Mar-63	2029.95	2031	1	108446	Harper North
11N03W30A01S	35.0178	117.2294	22-Mar-63	2028.9	2031	2	108447	Harper North
11N03W30A01S	35.0178	117.2295	22-Mar-63	2028.9	2031	2	108508	Harper North
11N03W30A01S	35.0178	117.2295	30-Oct-63	2029.61	2031	1	108509	Harper North
11N03W30A01S	35.0178	117.2294	30-Oct-63	2029.61	2031	1	108448	Harper North
11N03W30A01S	35.0178	117.2294	17-Jan-64	2029.3	2031	2	108449	Harper North
11N03W30A01S	35.0178	117.2295	17-Jan-64	2029.3	2031	2	108510	Harper North
11N03W30A01S	35.0178	117.2295	08-Mar-64	2030.99	2031	0	108511	Harper North
11N03W30A01S	35.0178	117.2294	08-Mar-64	2030.99	2031	0	108450	Harper North
11N03W30A01S	35.0178	117.2295	21-Apr-64	2029.6	2031	1	108512	Harper North
11N03W30A01S	35.0178	117.2294	21-Apr-64	2029.6	2031	1	108451	Harper North
11N03W30A01S	35.0178	117.2294	14-Oct-64	2029.22	2031	2	108452	Harper North
11N03W30A01S	35.0178	117.2295	14-Oct-64	2029.22	2031	2	108513	Harper North
11N03W30A01S	35.0178	117.2294	03-Dec-64	2029.3	2031	2	108453	Harper North
11N03W30A01S	35.0178	117.2295	03-Dec-64	2029.3	2031	2	108514	Harper North
11N03W30A01S	35.0178	117.2294	09-Mar-65	2029.36	2031	2	108454	Harper North
11N03W30A01S	35.0178	117.2295	09-Mar-65	2029.36	2031	2	108515	Harper North
11N03W30A01S	35.0178	117.2294	19-May-65	2029.3	2031	2	108455	Harper North
11N03W30A01S	35.0178	117.2295	19-May-65	2029.3	2031	2	108516	Harper North
11N03W30A01S	35.0178	117.2294	16-Mar-66	2029.49	2031	2	108456	Harper North
11N03W30A01S	35.0178	117.2295	16-Mar-66	2029.49	2031	2	108517	Harper North
11N03W30A01S	35.0178	117.2294	04-May-66	2029.6	2031	1	108457	Harper North
11N03W30A01S	35.0178	117.2295	04-May-66	2029.6	2031	1	108518	Harper North
11N03W30A01S	35.0178	117.2294	19-Oct-66	2028.67	2031	2	108458	Harper North
11N03W30A01S	35.0178	117.2295	19-Oct-66	2028.67	2031	2	108519	Harper North
11N03W30A01S	35.0178	117.2295	17-Nov-66	2028.8	2031	2	108520	Harper North
11N03W30A01S	35.0178	117.2294	17-Nov-66	2028.8	2031	2	108459	Harper North
11N03W30A01S	35.0178	117.2294	15-Mar-67	2028.99	2031	2	108460	Harper North
11N03W30A01S	35.0178	117.2295	15-Mar-67	2028.99	2031	2	108521	Harper North
11N03W30A01S	35.0178	117.2295	31-Mar-67	2029.1	2031	2	108522	Harper North
11N03W30A01S	35.0178	117.2294	31-Mar-67	2029.1	2031	2	108461	Harper North
11N03W30A01S	35.0178	117.2295	23-Oct-67	2028.35	2031	3	108523	Harper North
11N03W30A01S	35.0178	117.2294	23-Oct-67	2028.35	2031	3	108462	Harper North
11N03W30A01S	35.0178	117.2295	07-Dec-67	2028.8	2031	2	108524	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W30A01S	35.0178	117.2294	07-Dec-67	2028.8	2031	2	108463	Harper North
11N03W30A01S	35.0178	117.2295	11-Apr-68	2028.95	2031	2	108525	Harper North
11N03W30A01S	35.0178	117.2294	11-Apr-68	2028.95	2031	2	108464	Harper North
11N03W30A01S	35.0178	117.2294	30-Apr-68	2029	2031	2	108465	Harper North
11N03W30A01S	35.0178	117.2295	30-Apr-68	2029	2031	2	108526	Harper North
11N03W30A01S	35.0178	117.2295	01-Jul-68	2028	2031	3	108527	Harper North
11N03W30A01S	35.0178	117.2294	01-Jul-68	2028	2031	3	108466	Harper North
11N03W30A01S	35.0178	117.2294	18-Jul-68	2028.16	2031	3	108467	Harper North
11N03W30A01S	35.0178	117.2295	18-Jul-68	2028.16	2031	3	108528	Harper North
11N03W30A01S	35.0178	117.2294	14-Nov-68	2027.88	2031	3	108468	Harper North
11N03W30A01S	35.0178	117.2295	14-Nov-68	2027.88	2031	3	108529	Harper North
11N03W30A01S	35.0178	117.2294	21-Nov-68	2027.8	2031	3	108469	Harper North
11N03W30A01S	35.0178	117.2295	21-Nov-68	2027.8	2031	3	108530	Harper North
11N03W30A01S	35.0178	117.2294	08-Apr-69	2028.78	2031	2	108470	Harper North
11N03W30A01S	35.0178	117.2295	08-Apr-69	2028.78	2031	2	108531	Harper North
11N03W30A01S	35.0178	117.2294	10-Apr-69	2028.8	2031	2	108471	Harper North
11N03W30A01S	35.0178	117.2295	10-Apr-69	2028.8	2031	2	108532	Harper North
11N03W30A01S	35.0178	117.2294	19-Aug-69	2027.84	2031	3	108472	Harper North
11N03W30A01S	35.0178	117.2295	19-Aug-69	2027.84	2031	3	108533	Harper North
11N03W30A01S	35.0178	117.2294	28-Oct-69	2028	2031	3	108473	Harper North
11N03W30A01S	35.0178	117.2295	28-Oct-69	2028	2031	3	108534	Harper North
11N03W30A01S	35.0178	117.2294	23-Mar-70	2028.17	2031	3	108474	Harper North
11N03W30A01S	35.0178	117.2295	23-Mar-70	2028.17	2031	3	108535	Harper North
11N03W30A01S	35.0178	117.2294	11-Nov-70	2027.98	2031	3	108475	Harper North
11N03W30A01S	35.0178	117.2295	11-Nov-70	2027.98	2031	3	108536	Harper North
11N03W30A01S	35.0178	117.2295	14-Apr-71	2027.9	2031	3	108537	Harper North
11N03W30A01S	35.0178	117.2294	14-Apr-71	2027.9	2031	3	108476	Harper North
11N03W30A02S	35.0175	117.2283	02-Nov-62	2032.42	2033	1	108538	Harper North
11N03W30A02S	35.0175	117.2284	02-Nov-62	2032.42	2033	1	108573	Harper North
11N03W30A02S	35.0175	117.2284	14-Nov-62	2032.6	2033	0	108574	Harper North
11N03W30A02S	35.0175	117.2283	14-Nov-62	2032.6	2033	0	108539	Harper North
11N03W30A02S	35.0175	117.2283	13-Mar-63	2032.72	2033	0	108540	Harper North
11N03W30A02S	35.0175	117.2284	13-Mar-63	2032.72	2033	0	108575	Harper North
11N03W30A02S	35.0175	117.2283	18-Mar-63	2032.7	2033	0	108541	Harper North
11N03W30A02S	35.0175	117.2284	18-Mar-63	2032.7	2033	0	108576	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W30A02S	35.0175	117.2283	30-Oct-63	2032.58	2033	0	108542	Harper North
11N03W30A02S	35.0175	117.2284	30-Oct-63	2032.58	2033	0	108577	Harper North
11N03W30A02S	35.0175	117.2283	17-Jan-64	2031.1	2033	2	108543	Harper North
11N03W30A02S	35.0175	117.2284	17-Jan-64	2031.1	2033	2	108578	Harper North
11N03W30A02S	35.0175	117.2284	08-Mar-64	2032.36	2033	1	108579	Harper North
11N03W30A02S	35.0175	117.2283	08-Mar-64	2032.36	2033	1	108544	Harper North
11N03W30A02S	35.0175	117.2284	21-Apr-64	2031.2	2033	2	108580	Harper North
11N03W30A02S	35.0175	117.2283	21-Apr-64	2031.2	2033	2	108545	Harper North
11N03W30A02S	35.0175	117.2283	14-Oct-64	2032.35	2033	1	108546	Harper North
11N03W30A02S	35.0175	117.2284	14-Oct-64	2032.35	2033	1	108581	Harper North
11N03W30A02S	35.0175	117.2284	03-Dec-64	2030.7	2033	2	108582	Harper North
11N03W30A02S	35.0175	117.2283	03-Dec-64	2030.7	2033	2	108547	Harper North
11N03W30A02S	35.0175	117.2284	10-Mar-65	2032.59	2033	0	108583	Harper North
11N03W30A02S	35.0175	117.2283	10-Mar-65	2032.59	2033	0	108548	Harper North
11N03W30A02S	35.0175	117.2284	19-May-65	2031.1	2033	2	108584	Harper North
11N03W30A02S	35.0175	117.2283	19-May-65	2031.1	2033	2	108549	Harper North
11N03W30A02S	35.0175	117.2283	18-Oct-65	2032.17	2033	1	108550	Harper North
11N03W30A02S	35.0175	117.2284	18-Oct-65	2032.17	2033	1	108585	Harper North
11N03W30A02S	35.0175	117.2284	16-Mar-66	2032.4	2033	1	108586	Harper North
11N03W30A02S	35.0175	117.2283	16-Mar-66	2032.4	2033	1	108551	Harper North
11N03W30A02S	35.0175	117.2283	04-May-66	2032.3	2033	1	108552	Harper North
11N03W30A02S	35.0175	117.2284	04-May-66	2032.3	2033	1	108587	Harper North
11N03W30A02S	35.0175	117.2284	19-Oct-66	2031.8	2033	1	108588	Harper North
11N03W30A02S	35.0175	117.2283	19-Oct-66	2031.8	2033	1	108553	Harper North
11N03W30A02S	35.0175	117.2283	17-Nov-66	2031.8	2033	1	108554	Harper North
11N03W30A02S	35.0175	117.2284	17-Nov-66	2031.8	2033	1	108589	Harper North
11N03W30A02S	35.0175	117.2283	15-Mar-67	2031.22	2033	2	108555	Harper North
11N03W30A02S	35.0175	117.2284	15-Mar-67	2031.22	2033	2	108590	Harper North
11N03W30A02S	35.0175	117.2284	31-Mar-67	2031.3	2033	2	108591	Harper North
11N03W30A02S	35.0175	117.2283	31-Mar-67	2031.3	2033	2	108556	Harper North
11N03W30A02S	35.0175	117.2284	23-Oct-67	2030.94	2033	2	108592	Harper North
11N03W30A02S	35.0175	117.2283	23-Oct-67	2030.94	2033	2	108557	Harper North
11N03W30A02S	35.0175	117.2284	07-Dec-67	2031.2	2033	2	108593	Harper North
11N03W30A02S	35.0175	117.2283	07-Dec-67	2031.2	2033	2	108558	Harper North
11N03W30A02S	35.0175	117.2284	11-Apr-68	2031.35	2033	2	108594	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W30A02S	35.0175	117.2283	11-Apr-68	2031.35	2033	2	108559	Harper North
11N03W30A02S	35.0175	117.2284	30-Apr-68	2031.3	2033	2	108595	Harper North
11N03W30A02S	35.0175	117.2283	30-Apr-68	2031.3	2033	2	108560	Harper North
11N03W30A02S	35.0175	117.2284	01-Jul-68	2031	2033	2	108596	Harper North
11N03W30A02S	35.0175	117.2283	01-Jul-68	2031	2033	2	108561	Harper North
11N03W30A02S	35.0175	117.2284	18-Jul-68	2030.8	2033	2	108597	Harper North
11N03W30A02S	35.0175	117.2283	18-Jul-68	2030.8	2033	2	108562	Harper North
11N03W30A02S	35.0175	117.2283	14-Nov-68	2030.92	2033	2	108563	Harper North
11N03W30A02S	35.0175	117.2284	14-Nov-68	2030.92	2033	2	108598	Harper North
11N03W30A02S	35.0175	117.2284	21-Nov-68	2030.9	2033	2	108599	Harper North
11N03W30A02S	35.0175	117.2283	21-Nov-68	2030.9	2033	2	108564	Harper North
11N03W30A02S	35.0175	117.2284	08-Apr-69	2031.07	2033	2	108600	Harper North
11N03W30A02S	35.0175	117.2283	08-Apr-69	2031.07	2033	2	108565	Harper North
11N03W30A02S	35.0175	117.2284	11-Apr-69	2031.1	2033	2	108601	Harper North
11N03W30A02S	35.0175	117.2283	11-Apr-69	2031.1	2033	2	108566	Harper North
11N03W30A02S	35.0175	117.2284	19-Aug-69	2030.48	2033	3	108602	Harper North
11N03W30A02S	35.0175	117.2283	19-Aug-69	2030.48	2033	3	108567	Harper North
11N03W30A02S	35.0175	117.2284	28-Oct-69	2030.46	2033	3	108603	Harper North
11N03W30A02S	35.0175	117.2283	28-Oct-69	2030.46	2033	3	108568	Harper North
11N03W30A02S	35.0175	117.2284	23-Mar-70	2030.62	2033	2	108604	Harper North
11N03W30A02S	35.0175	117.2283	23-Mar-70	2030.62	2033	2	108569	Harper North
11N03W30A02S	35.0175	117.2284	11-Nov-70	2030.55	2033	2	108605	Harper North
11N03W30A02S	35.0175	117.2283	11-Nov-70	2030.55	2033	2	108570	Harper North
11N03W30A02S	35.0175	117.2284	14-Apr-71	2030.12	2033	3	108606	Harper North
11N03W30A02S	35.0175	117.2283	14-Apr-71	2030.12	2033	3	108571	Harper North
11N03W30A02S	35.0175	117.2284	14-Jul-78	2025.98	2033	7	108607	Harper North
11N03W30A02S	35.0175	117.2283	14-Jul-78	2025.98	2033	7	108572	Harper North
11N03W30G01S	35.0175	117.2292	14-Jul-78	2020.47	2031	11	108608	Harper North
11N03W30G01S	35.0175	117.2292	05-Mar-80	2020.82	2031	10	108609	Harper North
11N03W30G01S	35.0175	117.2292	06-Aug-80	2019.88	2031	11	108610	Harper North
11N03W30G01S	35.0175	117.2292	11-Dec-80	2020.17	2031	11	108611	Harper North
11N03W30G01S	35.0175	117.2292	11-Mar-04	2016.1	2031	15	108612	Harper North
11N03W30G01S	35.0175	117.2292	21-Mar-06	2015.77	2031	15.23	124638	Harper North
11N03W30G02S	35.0172	117.2284	22-Nov-92	2019.77	2035	15	108614	Harper North
11N03W30G02S	35.0172	117.2283	22-Nov-92	2019.77	2035	15	108613	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W32P01S	34.9972	117.1992	25-Jun-53	2041	2050	9	108615	Harper North
11N03W32P02S	34.9975	117.1992	25-Jun-53	2038.6	2050	11	108616	Harper North
11N03W32R01S	34.9972	117.1903	18-May-59	2040	2065	25	108617	Harper North
11N03W33H01S	35.0025	117.1889	01-Jul-68	2035	2075	40	108618	Harper North
11N03W33H02S	35.0042	117.1919	01-Jul-68	2048	2080	32	108619	Harper North
11N03W33H02S	35.0042	117.192	01-Jul-68	2048	2080	32	108620	Harper North
11N03W33N01S	35.1006	117.2056	16-Mar-98	2012.87	2070	57	108621	Harper North
11N03W33N01S	35.1006	117.2056	25-Apr-00	2016.81	2070	53	108622	Harper North
11N03W33N01S	35.1006	117.2056	11-Mar-04	2010.8	2070	59	108623	Harper North
11N03W34F01S	35.0042	117.1842	31-May-30	2056.94	2085	28	108624	Harper North
11N03W34F01S	35.0042	117.1842	25-Feb-31	2056.77	2085	28	108625	Harper North
11N03W34F01S	35.0042	117.1842	27-Aug-31	2056.77	2085	28	108626	Harper North
11N03W34F01S	35.0042	117.1842	10-Mar-32	2056.52	2085	28	108627	Harper North
11N03W34F01S	35.0042	117.1842	29-Mar-32	2056.6	2085	28	108628	Harper North
11N03W34F01S	35.0042	117.1842	22-Dec-32	2056.47	2085	29	108629	Harper North
11N03W34F01S	35.0042	117.1842	09-Feb-34	2056.23	2085	29	108630	Harper North
11N03W34F01S	35.0042	117.1842	01-Mar-35	2055.98	2085	29	108631	Harper North
11N03W34F01S	35.0042	117.1842	03-Jan-36	2055.6	2085	29	108632	Harper North
11N03W34F01S	35.0042	117.1842	15-Jan-37	2055.31	2085	30	108633	Harper North
11N03W34F01S	35.0042	117.1842	21-Jun-37	2055.15	2085	30	108634	Harper North
11N03W34F01S	35.0042	117.1842	01-Jun-38	2054.85	2085	30	108635	Harper North
11N03W34F01S	35.0042	117.1842	18-Nov-38	2054.7	2085	30	108636	Harper North
11N03W34F01S	35.0042	117.1842	23-May-39	2054.38	2085	31	108637	Harper North
11N03W34F01S	35.0042	117.1842	25-Nov-39	2054.3	2085	31	108638	Harper North
11N03W34F01S	35.0042	117.1842	24-May-40	2054.14	2085	31	108639	Harper North
11N03W34F01S	35.0042	117.1842	05-Dec-40	2053.83	2085	31	108640	Harper North
11N03W34F01S	35.0042	117.1842	10-Jun-41	2053.61	2085	31	108641	Harper North
11N03W34F01S	35.0042	117.1842	13-Nov-41	2053.5	2085	32	108642	Harper North
11N03W34F01S	35.0042	117.1842	08-May-42	2053.3	2085	32	108643	Harper North
11N03W34F01S	35.0042	117.1842	27-Nov-42	2053.13	2085	32	108644	Harper North
11N03W34F01S	35.0042	117.1842	14-May-43	2052.89	2085	32	108645	Harper North
11N03W34F01S	35.0042	117.1842	22-Dec-43	2052.67	2085	32	108646	Harper North
11N03W34F01S	35.0042	117.1842	22-Apr-44	2051.72	2085	33	108647	Harper North
11N03W34F01S	35.0042	117.1842	12-Dec-44	2052.28	2085	33	108648	Harper North
11N03W34F01S	35.0042	117.1842	04-May-45	2052.14	2085	33	108649	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N03W34F01S	35.0042	117.1842	27-Nov-45	2051.95	2085	33	108650	Harper North
11N03W34F01S	35.0042	117.1842	30-Apr-46	2051.74	2085	33	108651	Harper North
11N03W34F01S	35.0042	117.1842	07-Jan-47	2051.14	2085	34	108652	Harper North
11N03W34F01S	35.0042	117.1842	20-May-47	2051.43	2085	34	108653	Harper North
11N03W34F01S	35.0042	117.1842	13-Nov-47	2051.21	2085	34	108654	Harper North
11N03W34F01S	35.0042	117.1842	17-May-48	2051.16	2085	34	108655	Harper North
11N03W34F01S	35.0042	117.1842	18-Nov-48	2051	2085	34	108656	Harper North
11N03W34F01S	35.0042	117.1842	09-May-49	2050.64	2085	34	108657	Harper North
11N03W34F01S	35.0042	117.1842	16-Nov-49	2050.65	2085	34	108658	Harper North
11N03W34F01S	35.0042	117.1842	01-May-50	2050.52	2085	34	108659	Harper North
11N03W34F01S	35.0042	117.1842	08-Nov-50	2050.26	2085	35	108660	Harper North
11N03W34F01S	35.0042	117.1842	16-May-51	2050.1	2085	35	108661	Harper North
11N03W34F01S	35.0042	117.1842	27-Nov-51	2049.88	2085	35	108662	Harper North
11N03W34F01S	35.0042	117.1842	30-May-52	2049.75	2085	35	108663	Harper North
11N03W34F01S	35.0042	117.1842	26-Nov-52	2049.24	2085	36	108664	Harper North
11N03W34F01S	35.0042	117.1842	27-May-53	2049.02	2085	36	108665	Harper North
11N03W34F01S	35.0042	117.1842	26-Jun-53	2048.85	2085	36	108666	Harper North
11N03W34F01S	35.0042	117.1842	13-Nov-53	2048.6	2085	36	108667	Harper North
11N03W34F01S	35.0042	117.1842	17-May-54	2047.7	2085	37	108668	Harper North
11N03W34F01S	35.0042	117.1842	22-Nov-54	2047.5	2085	38	108669	Harper North
11N03W34F01S	35.0042	117.1842	14-Apr-55	2047.41	2085	38	108670	Harper North
11N03W34F01S	35.0042	117.1842	12-Dec-55	2047.11	2085	38	108671	Harper North
11N03W34F01S	35.0042	117.1842	12-Apr-56	2046.6	2085	38	108672	Harper North
11N03W34F01S	35.0042	117.1842	02-Jan-57	2045.93	2085	39	108673	Harper North
11N03W34F01S	35.0042	117.1842	02-May-57	2046	2085	39	108674	Harper North
11N03W34F01S	35.0042	117.1842	03-Dec-57	2045.55	2085	39	108675	Harper North
11N03W34F01S	35.0042	117.1842	25-Mar-58	2045.4	2085	40	108676	Harper North
11N04W01N01S	35.0686	117.2581	31-Oct-50	2006.6	2074	67	108677	Harper North
11N04W03H01S	35.0764	117.2769	01-Jul-68	1958	2080	122	108678	Harper North
11N04W03H01S	35.0764	117.277	01-Jul-68	1958	2080	122	108679	Harper North
11N04W04J01S	35.0728	117.2978	02-Jul-60	1994	2040	46	108680	Harper North
11N04W04J01S	35.0728	117.2978	01-Jul-68	1961	2040	79	108681	Harper North
11N04W04J01S	35.0728	117.2978	10-Jul-68	1961.44	2040	79	108682	Harper North
11N04W04M01S	35.075	117.3106	01-Jul-68	2007	2035	28	108683	Harper North
11N04W04R01S	35.0722	117.2956	02-Sep-53	1999.76	2036	36	108684	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W04R01S	35.0722	117.2956	17-Mar-54	2001.05	2036	35	108685	Harper North
11N04W04R01S	35.0722	117.2956	16-Jun-54	2000.93	2036	35	108686	Harper North
11N04W04R01S	35.0722	117.2956	01-Dec-54	2000.92	2036	35	108687	Harper North
11N04W04R01S	35.0722	117.2956	04-Mar-55	2000.88	2036	35	108688	Harper North
11N04W04R01S	35.0722	117.2956	17-Nov-55	2000.63	2036	35	108689	Harper North
11N04W04R01S	35.0722	117.2956	23-Mar-56	2000.54	2036	35	108690	Harper North
11N04W04R01S	35.0722	117.2956	02-Nov-56	2000.37	2036	36	108691	Harper North
11N04W04R01S	35.0722	117.2956	06-Mar-57	2000.38	2036	36	108692	Harper North
11N04W04R01S	35.0722	117.2956	08-Nov-57	2000.11	2036	36	108693	Harper North
11N04W04R01S	35.0722	117.2956	11-Mar-58	2000.06	2036	36	108694	Harper North
11N04W04R01S	35.0722	117.2956	06-Nov-58	1999.94	2036	36	108695	Harper North
11N04W04R01S	35.0722	117.2956	12-Mar-59	1999.84	2036	36	108696	Harper North
11N04W04R01S	35.0722	117.2956	18-Nov-59	1999.66	2036	36	108697	Harper North
11N04W04R01S	35.0722	117.2956	02-Mar-60	1999.62	2036	36	108698	Harper North
11N04W04R01S	35.0722	117.2956	16-Nov-60	1999.47	2036	37	108699	Harper North
11N04W04R01S	35.0722	117.2956	08-Mar-61	1999.4	2036	37	108700	Harper North
11N04W04R01S	35.0722	117.2956	27-Oct-61	1999.02	2036	37	108701	Harper North
11N04W04R01S	35.0722	117.2956	15-Mar-62	1999.17	2036	37	108702	Harper North
11N04W04R01S	35.0722	117.2956	02-Nov-62	1999.04	2036	37	108703	Harper North
11N04W04R01S	35.0722	117.2956	13-Mar-63	1999.01	2036	37	108704	Harper North
11N04W04R01S	35.0722	117.2956	30-Oct-63	1998.76	2036	37	108705	Harper North
11N04W04R01S	35.0722	117.2956	08-Mar-64	1997.8	2036	38	108706	Harper North
11N04W04R01S	35.0722	117.2956	14-Oct-64	1997.34	2036	39	108707	Harper North
11N04W04R01S	35.0722	117.2956	10-Mar-65	1998.13	2036	38	108708	Harper North
11N04W04R01S	35.0722	117.2956	18-Oct-65	1998.5	2036	38	108709	Harper North
11N04W04R01S	35.0722	117.2956	16-Mar-66	1998.36	2036	38	108710	Harper North
11N04W04R01S	35.0722	117.2956	19-Oct-66	1997.7	2036	38	108711	Harper North
11N04W04R01S	35.0722	117.2956	15-Mar-67	1998.13	2036	38	108712	Harper North
11N04W04R01S	35.0722	117.2956	23-Oct-67	1998.55	2036	37	108713	Harper North
11N04W04R01S	35.0722	117.2956	11-Apr-68	1994.47	2036	42	108714	Harper North
11N04W04R01S	35.0722	117.2956	01-Jul-68	1998	2036	38	108715	Harper North
11N04W04R01S	35.0722	117.2956	03-Jul-68	1997.9	2036	38	108716	Harper North
11N04W06E01S	35.0753	117.3458	21-Dec-56	2010.1	2045	35	108717	Harper North
11N04W06E01S	35.0753	117.3458	02-May-57	2010.17	2045	35	108718	Harper North
11N04W06E01S	35.0753	117.3458	03-Dec-57	2010.42	2045	35	108719	Harper North

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W06E01S	35.0753	117.3458	25-Mar-58	2010.66	2045	34	108720	Harper North
11N04W06E01S	35.0753	117.3458	02-Dec-58	2010.68	2045	34	108721	Harper North
11N04W06E01S	35.0753	117.3458	04-May-59	2011.12	2045	34	108722	Harper North
11N04W06E01S	35.0753	117.3458	11-Nov-59	2014.42	2045	31	108723	Harper North
11N04W06E01S	35.0753	117.3458	23-Mar-60	2015.23	2045	30	108724	Harper North
11N04W06E01S	35.0753	117.3458	01-May-61	2008.15	2045	37	108725	Harper North
11N04W06E01S	35.0753	117.3458	27-Oct-61	2014.95	2045	30	108726	Harper North
11N04W06E01S	35.0753	117.3458	01-Jul-68	2002	2045	43	108727	Harper North
11N04W06E01S	35.0753	117.3458	17-Jul-68	2001.94	2045	43	108728	Harper North
11N04W06L01S	35.0756	117.3389	01-Jul-68	4005	4035	30	108741	Harper North
11N04W12H01S	35.0611	117.2461	13-Nov-53	2002.7	2050	47	108742	Harper North
11N04W12H01S	35.0611	117.2461	13-May-54	1999.7	2050	50	108743	Harper North
11N04W12H01S	35.0611	117.2461	22-Nov-54	2000.7	2050	49	108744	Harper North
11N04W12H01S	35.0611	117.2461	14-Apr-55	1999.57	2050	50	108745	Harper North
11N04W12H01S	35.0611	117.2461	21-Dec-56	2001.19	2050	49	108746	Harper North
11N04W12H01S	35.0611	117.2461	02-May-57	2000.91	2050	49	108747	Harper North
11N04W12H01S	35.0611	117.2461	03-Dec-57	2000.48	2050	50	108748	Harper North
11N04W12H01S	35.0611	117.2461	25-Mar-58	2000.29	2050	50	108749	Harper North
11N04W12H01S	35.0611	117.2461	02-Dec-58	1999.78	2050	50	108750	Harper North
11N04W12H01S	35.0611	117.2461	04-May-59	1999.52	2050	50	108751	Harper North
11N04W12H01S	35.0611	117.2461	11-Nov-59	1999.18	2050	51	108752	Harper North
11N04W12H01S	35.0611	117.2461	23-Mar-60	1998.64	2050	51	108753	Harper North
11N04W12H01S	35.0611	117.2461	01-May-61	1993.1	2050	57	108754	Harper North
11N04W12H01S	35.0611	117.2461	01-Jul-68	1994	2050	56	108755	Harper North
11N04W12H01S	35.0611	117.2461	10-Jul-68	1993.52	2050	56	108756	Harper North
11N04W15A01S	35.0511	117.2786	01-Jul-68	2005	2025	20	108757	Harper North
11N04W18C01S	35.0522	117.3408	17-Jun-53	1960.43	2035	75	108758	Harper South
11N04W18C01S	35.0522	117.3409	17-Jun-53	1960.43	2035	75	108759	Harper South
11N04W18Z01S	35.0531	117.3461	01-Jan-19	2005	2030	25	108760	Harper South
11N04W19E01S	35.0331	117.3472	12-Jun-53	1881.3	2060	179	108761	Harper South
11N04W19G01S	35.0328	117.3364	01-Apr-51	1945	2045	100	108762	Harper South
11N04W19G01S	35.0328	117.3364	01-Jul-68	1892	2045	153	108763	Harper South
11N04W19G01S	35.0328	117.3364	16-Jul-68	1891.74	2045	153	108764	Harper South
11N04W19H01S	35.0331	117.3286	12-Nov-53	1943.4	239	96	108765	Harper South
11N04W19H01S	35.0331	117.3286	17-Nov-54	1940.7	239	98	108766	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W19H01S	35.0331	117.3286	14-Apr-55	1926.8	239	112	108767	Harper South
11N04W19H01S	35.0331	117.3286	12-Dec-55	1942.9	239	96	108768	Harper South
11N04W19H01S	35.0331	117.3286	12-Apr-56	1933	239	106	108769	Harper South
11N04W19H01S	35.0331	117.3286	21-Dec-56	1937.95	239	101	108770	Harper South
11N04W19H01S	35.0331	117.3286	02-May-57	1924.63	239	114	108771	Harper South
11N04W19H01S	35.0331	117.3286	03-Dec-57	1937.83	239	101	108772	Harper South
11N04W19H01S	35.0331	117.3286	25-Mar-58	1942.2	239	97	108773	Harper South
11N04W19H01S	35.0331	117.3286	02-Dec-58	1935.31	239	104	108774	Harper South
11N04W19H01S	35.0331	117.3286	04-May-59	1956.91	239	82	108775	Harper South
11N04W19H01S	35.0331	117.3286	11-Nov-59	1952.51	239	86	108776	Harper South
11N04W19H01S	35.0331	117.3286	23-Mar-60	1957.8	239	81	108777	Harper South
11N04W19H01S	35.0331	117.3286	01-May-61	1952.8	239	86	108778	Harper South
11N04W19H01S	35.0331	117.3286	28-Nov-61	1955.3	239	84	108779	Harper South
11N04W19H01S	35.0331	117.3286	22-Mar-62	1956.1	239	83	108780	Harper South
11N04W19H01S	35.0331	117.3286	14-Nov-62	1954.1	239	85	108781	Harper South
11N04W19H01S	35.0331	117.3286	18-Mar-63	1951.7	239	87	108782	Harper South
11N04W19H01S	35.0331	117.3286	17-Jan-64	1950.3	239	89	108783	Harper South
11N04W19H01S	35.0331	117.3286	21-Apr-64	1945.6	239	93	108784	Harper South
11N04W19H01S	35.0331	117.3286	03-Dec-64	1950.8	239	88	108785	Harper South
11N04W19H01S	35.0331	117.3286	19-May-65	1953.3	239	86	108786	Harper South
11N04W19H01S	35.0331	117.3286	08-Dec-65	1958.7	239	80	108787	Harper South
11N04W19H01S	35.0331	117.3286	05-May-66	1919.1	239	120	108788	Harper South
11N04W19H01S	35.0331	117.3286	17-Nov-66	1926.2	239	113	108789	Harper South
11N04W19H01S	35.0331	117.3286	31-Mar-67	1921.9	239	117	108790	Harper South
11N04W19H01S	35.0331	117.3286	07-Dec-67	1923	239	116	108791	Harper South
11N04W19H01S	35.0331	117.3286	30-Apr-68	1916.6	239	122	108792	Harper South
11N04W19H01S	35.0331	117.3286	01-Jul-68	1905	239	134	108793	Harper South
11N04W19H01S	35.0331	117.3286	16-Jul-68	1905.21	239	134	108794	Harper South
11N04W19H01S	35.0331	117.3286	15-Nov-68	1914.9	239	124	108795	Harper South
11N04W19H01S	35.0331	117.3286	11-Apr-69	1927.2	239	112	108796	Harper South
11N04W19H02S	35.0328	117.3328	01-Jul-68	1900	2040	140	108797	Harper South
11N04W19L01S	35.0311	117.3403	01-Mar-51	1955	2055	100	108798	Harper South
11N04W19L01S	35.0311	117.3403	12-Jun-53	1910.4	2055	145	108799	Harper South
11N04W19L01S	35.0311	117.3403	17-Mar-54	1920.32	2055	135	108800	Harper South
11N04W19L01S	35.0311	117.3403	01-Dec-54	1929.5	2055	126	108801	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W19L01S	35.0311	117.3403	04-Mar-55	1924.28	2055	131	108802	Harper South
11N04W19L01S	35.0311	117.3403	17-Nov-55	1923.37	2055	132	108803	Harper South
11N04W19L01S	35.0311	117.3403	23-Mar-56	1918.12	2055	137	108804	Harper South
11N04W19L01S	35.0311	117.3403	01-Nov-56	1898.6	2055	156	108805	Harper South
11N04W19L01S	35.0311	117.3403	06-Mar-57	1930.34	2055	125	108806	Harper South
11N04W19L01S	35.0311	117.3403	08-Nov-57	1918.28	2055	137	108807	Harper South
11N04W19L01S	35.0311	117.3403	11-Mar-58	1920.42	2055	135	108808	Harper South
11N04W19L01S	35.0311	117.3403	11-Mar-59	1928.94	2055	126	108809	Harper South
11N04W19L01S	35.0311	117.3403	18-Nov-59	1940.58	2055	114	108810	Harper South
11N04W19L01S	35.0311	117.3403	02-Mar-60	1941.72	2055	113	108811	Harper South
11N04W19L01S	35.0311	117.3403	17-Nov-60	1952.18	2055	103	108812	Harper South
11N04W19L01S	35.0311	117.3403	09-Mar-61	1948.09	2055	107	108813	Harper South
11N04W19L01S	35.0311	117.3403	27-Oct-61	1941.84	2055	113	108814	Harper South
11N04W19L01S	35.0311	117.3403	15-Mar-62	1939.75	2055	115	108815	Harper South
11N04W19L01S	35.0311	117.3403	02-Nov-62	1933.35	2055	122	108816	Harper South
11N04W19L01S	35.0311	117.3403	13-Mar-63	1934.28	2055	121	108817	Harper South
11N04W19L01S	35.0311	117.3403	30-Oct-63	1933.92	2055	121	108818	Harper South
11N04W19L01S	35.0311	117.3403	08-Mar-64	1934.28	2055	121	108819	Harper South
11N04W19L01S	35.0311	117.3403	14-Oct-64	1914.36	2055	141	108820	Harper South
11N04W19L01S	35.0311	117.3403	10-Mar-65	1925.74	2055	129	108821	Harper South
11N04W19L01S	35.0311	117.3403	19-Oct-65	1890.18	2055	165	108822	Harper South
11N04W19L01S	35.0311	117.3403	16-Mar-66	1920.39	2055	135	108823	Harper South
11N04W19L01S	35.0311	117.3403	19-Oct-66	1896.3	2055	159	108824	Harper South
11N04W19L01S	35.0311	117.3403	15-Mar-67	1908.91	2055	146	108825	Harper South
11N04W19L01S	35.0311	117.3403	23-Oct-67	1892.4	2055	163	108826	Harper South
11N04W19L01S	35.0311	117.3403	11-Apr-68	1899.1	2055	156	108827	Harper South
11N04W19L01S	35.0311	117.3403	14-Nov-68	1894.62	2055	160	108828	Harper South
11N04W19L01S	35.0311	117.3403	08-Apr-69	1903.55	2055	151	108829	Harper South
11N04W19L01S	35.0311	117.3403	28-Oct-69	1888.31	2055	167	108830	Harper South
11N04W19L01S	35.0311	117.3403	23-Mar-70	1885.22	2055	170	108831	Harper South
11N04W19L01S	35.0311	117.3403	11-Nov-70	1894.8	2055	160	108832	Harper South
11N04W19P01S	35.0258	117.3428	01-Jul-68	1875	2065	190	108833	Harper South
11N04W19R01S	35.0261	117.3325	10-Jun-53	1919	2044	125	108834	Harper South
11N04W19Z01S	35.0311	117.3353	01-Jan-19	1992	2045	53	108835	Harper South
11N04W20E01S	35.0328	117.3286	26-Mar-55	1943	2035	92	108836	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W28N01S	35.0111	117.3094	18-Mar-51	1980.95	2040	59	108837	Harper South
11N04W28N01S	35.0111	117.3095	18-Mar-51	1980.95	2040	59	108867	Harper South
11N04W28N01S	35.0111	117.3094	15-Apr-53	1964.51	2040	75	108838	Harper South
11N04W28N01S	35.0111	117.3095	15-Apr-53	1964.51	2040	75	108868	Harper South
11N04W28N01S	35.0111	117.3094	12-Nov-53	1958.6	2040	81	108839	Harper South
11N04W28N01S	35.0111	117.3095	12-Nov-53	1958.6	2040	81	108869	Harper South
11N04W28N01S	35.0111	117.3095	13-May-54	1956.5	2040	84	108870	Harper South
11N04W28N01S	35.0111	117.3094	13-May-54	1956.5	2040	84	108840	Harper South
11N04W28N01S	35.0111	117.3095	17-Nov-54	1958.65	2040	81	108871	Harper South
11N04W28N01S	35.0111	117.3094	17-Nov-54	1958.65	2040	81	108841	Harper South
11N04W28N01S	35.0111	117.3095	14-Apr-55	1957.07	2040	83	108872	Harper South
11N04W28N01S	35.0111	117.3094	14-Apr-55	1957.07	2040	83	108842	Harper South
11N04W28N01S	35.0111	117.3095	12-Apr-56	1944.7	2040	95	108873	Harper South
11N04W28N01S	35.0111	117.3094	12-Apr-56	1944.7	2040	95	108843	Harper South
11N04W28N01S	35.0111	117.3094	02-May-57	1947.64	2040	92	108844	Harper South
11N04W28N01S	35.0111	117.3095	02-May-57	1947.64	2040	92	108874	Harper South
11N04W28N01S	35.0111	117.3095	03-Dec-57	1947.02	2040	93	108875	Harper South
11N04W28N01S	35.0111	117.3094	03-Dec-57	1947.02	2040	93	108845	Harper South
11N04W28N01S	35.0111	117.3095	25-Mar-58	1953.74	2040	86	108876	Harper South
11N04W28N01S	35.0111	117.3094	25-Mar-58	1953.74	2040	86	108846	Harper South
11N04W28N01S	35.0111	117.3095	02-Dec-58	1948.57	2040	91	108877	Harper South
11N04W28N01S	35.0111	117.3094	02-Dec-58	1948.57	2040	91	108847	Harper South
11N04W28N01S	35.0111	117.3095	04-May-59	1969.73	2040	70	108878	Harper South
11N04W28N01S	35.0111	117.3094	04-May-59	1969.73	2040	70	108848	Harper South
11N04W28N01S	35.0111	117.3095	11-Nov-59	1956.88	2040	83	108879	Harper South
11N04W28N01S	35.0111	117.3094	11-Nov-59	1956.88	2040	83	108849	Harper South
11N04W28N01S	35.0111	117.3095	23-Mar-60	1963.13	2040	77	108880	Harper South
11N04W28N01S	35.0111	117.3094	23-Mar-60	1963.13	2040	77	108850	Harper South
11N04W28N01S	35.0111	117.3094	01-May-61	1957.56	2040	82	108851	Harper South
11N04W28N01S	35.0111	117.3095	01-May-61	1957.56	2040	82	108881	Harper South
11N04W28N01S	35.0111	117.3094	28-Nov-61	1954.71	2040	85	108852	Harper South
11N04W28N01S	35.0111	117.3095	28-Nov-61	1954.71	2040	85	108882	Harper South
11N04W28N01S	35.0111	117.3094	14-Nov-62	1954.5	2040	86	108853	Harper South
11N04W28N01S	35.0111	117.3095	14-Nov-62	1954.5	2040	86	108883	Harper South
11N04W28N01S	35.0111	117.3094	18-Mar-63	1956.6	2040	83	108854	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W28N01S	35.0111	117.3095	18-Mar-63	1956.6	2040	83	108884	Harper South
11N04W28N01S	35.0111	117.3095	21-Apr-63	1952.5	2040	88	108885	Harper South
11N04W28N01S	35.0111	117.3094	21-Apr-63	1952.5	2040	88	108855	Harper South
11N04W28N01S	35.0111	117.3094	17-Jan-64	1956.5	2040	84	108856	Harper South
11N04W28N01S	35.0111	117.3095	17-Jan-64	1956.5	2040	84	108886	Harper South
11N04W28N01S	35.0111	117.3095	03-Dec-64	1952.4	2040	88	108887	Harper South
11N04W28N01S	35.0111	117.3094	03-Dec-64	1952.4	2040	88	108857	Harper South
11N04W28N01S	35.0111	117.3094	19-May-65	1946.2	2040	94	108858	Harper South
11N04W28N01S	35.0111	117.3095	19-May-65	1946.2	2040	94	108888	Harper South
11N04W28N01S	35.0111	117.3094	08-Dec-65	1948	2040	92	108859	Harper South
11N04W28N01S	35.0111	117.3095	08-Dec-65	1948	2040	92	108889	Harper South
11N04W28N01S	35.0111	117.3094	05-May-66	1931	2040	109	108860	Harper South
11N04W28N01S	35.0111	117.3095	05-May-66	1931	2040	109	108890	Harper South
11N04W28N01S	35.0111	117.3094	17-Nov-66	1938.3	2040	102	108861	Harper South
11N04W28N01S	35.0111	117.3095	17-Nov-66	1938.3	2040	102	108891	Harper South
11N04W28N01S	35.0111	117.3094	31-Mar-67	1932.5	2040	108	108862	Harper South
11N04W28N01S	35.0111	117.3095	31-Mar-67	1932.5	2040	108	108892	Harper South
11N04W28N01S	35.0111	117.3095	07-Dec-67	1937.5	2040	102	108893	Harper South
11N04W28N01S	35.0111	117.3094	07-Dec-67	1937.5	2040	102	108863	Harper South
11N04W28N01S	35.0111	117.3095	30-Apr-68	1921.6	2040	118	108894	Harper South
11N04W28N01S	35.0111	117.3094	30-Apr-68	1921.6	2040	118	108864	Harper South
11N04W28N01S	35.0111	117.3095	15-Nov-68	1929	2040	111	108895	Harper South
11N04W28N01S	35.0111	117.3094	15-Nov-68	1929	2040	111	108865	Harper South
11N04W28N01S	35.0111	117.3094	15-Apr-69	1926.5	2040	114	108866	Harper South
11N04W28N01S	35.0111	117.3095	15-Apr-69	1926.5	2040	114	108896	Harper South
11N04W28N02S	35.0111	117.3094	01-Jul-68	2027	2040	13	108897	Harper South
11N04W28N02S	35.0111	117.3095	01-Jul-68	2027	2040	13	108898	Harper South
11N04W28Q01S	35.0111	117.3022	01-Jan-19	2017	2035	18	108899	Harper South
11N04W28Q01S	35.0111	117.3022	01-Jul-68	1910	2035	125	108900	Harper South
11N04W28Q01S	35.0111	117.3022	18-Jul-68	1910.47	2035	125	108901	Harper South
11N04W29Q01S	35.0108	117.3192	18-Nov-59	1957.44	2055	98	108902	Harper South
11N04W29Q01S	35.0108	117.3192	02-Mar-60	1960.32	2055	95	108903	Harper South
11N04W29Q01S	35.0108	117.3192	17-Nov-60	1964.42	2055	91	108904	Harper South
11N04W29R01S	35.0108	117.3156	16-Jun-53	1950.1	2045	94.9	108905	Harper South
11N04W29R01S	35.0108	117.3156	17-Mar-54	1959.67	2045	85.33	108906	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W29R01S	35.0108	117.3156	01-Dec-54	1955.73	2045	89.27	108907	Harper South
11N04W29R01S	35.0108	117.3156	04-Mar-55	1958.18	2045	86.82	108908	Harper South
11N04W29R01S	35.0108	117.3156	17-Nov-55	1950.94	2045	94.06	108909	Harper South
11N04W29R01S	35.0108	117.3156	22-Mar-56	1949.83	2045	95.17	108910	Harper South
11N04W29R01S	35.0108	117.3156	01-Nov-56	1946.2	2045	98.8	108911	Harper South
11N04W29R01S	35.0108	117.3156	06-Mar-57	1953.88	2045	91.12	108912	Harper South
11N04W29R01S	35.0108	117.3156	08-Nov-57	1947.38	2045	97.62	108913	Harper South
11N04W29R01S	35.0108	117.3156	11-Mar-58	1948.28	2045	96.72	108914	Harper South
11N04W29R01S	35.0108	117.3156	11-Mar-59	1950.34	2045	94.66	108915	Harper South
11N04W29R01S	35.0108	117.3156	18-Nov-59	1946.44	2045	98.56	108916	Harper South
11N04W29R01S	35.0108	117.3156	02-Mar-60	1949.32	2045	95.68	108917	Harper South
11N04W29R01S	35.0108	117.3156	17-Nov-60	1961.58	2045	83.42	108918	Harper South
11N04W29R01S	35.0108	117.3156	09-Mar-61	1957.41	2045	87.59	108919	Harper South
11N04W29R01S	35.0108	117.3156	27-Oct-61	1955.17	2045	89.83	108920	Harper South
11N04W29R01S	35.0108	117.3156	15-Mar-62	1953.36	2045	91.64	108921	Harper South
11N04W29R01S	35.0108	117.3156	02-Nov-62	1950.33	2045	94.67	108922	Harper South
11N04W29R01S	35.0108	117.3156	13-Mar-63	1953.49	2045	91.51	108923	Harper South
11N04W29R01S	35.0108	117.3156	30-Oct-63	1949.29	2045	95.71	108924	Harper South
11N04W29R01S	35.0108	117.3156	08-Mar-64	1953.98	2045	91.02	108925	Harper South
11N04W29R01S	35.0108	117.3156	14-Oct-64	1943.12	2045	101.88	108926	Harper South
11N04W29R01S	35.0108	117.3156	10-Mar-65	1948.53	2045	96.47	108927	Harper South
11N04W29R01S	35.0108	117.3156	19-Oct-65	1933.65	2045	111.35	108928	Harper South
11N04W29R01S	35.0108	117.3156	16-Mar-66	1940.35	2045	104.65	108929	Harper South
11N04W29R01S	35.0108	117.3156	19-Oct-66	1931.07	2045	113.93	108930	Harper South
11N04W29R01S	35.0108	117.3156	15-Mar-67	1936.82	2045	108.18	108931	Harper South
11N04W29R01S	35.0108	117.3156	23-Oct-67	1929.13	2045	115.87	108932	Harper South
11N04W29R01S	35.0108	117.3156	11-Apr-68	1918.35	2045	126.65	108933	Harper South
11N04W29R01S	35.0108	117.3156	11-Jul-68	1911.44	2045	133.56	108934	Harper South
11N04W29R01S	35.0108	117.3156	14-Nov-68	1925.98	2045	119.02	108935	Harper South
11N04W29R01S	35.0108	117.3156	08-Apr-69	1924	2045	121	109072	Harper South
11N04W29R01S	35.0108	117.3156	28-Oct-69	1920.31	2045	124.69	108937	Harper South
11N04W29R01S	35.0108	117.3156	23-Mar-70	1916.62	2045	128.38	108938	Harper South
11N04W29R01S	35.0108	117.3156	12-Nov-70	1917.06	2045	127.94	108939	Harper South
11N04W29R01S	35.0108	117.3156	14-Apr-71	1906.2	2045	138.8	108940	Harper South
11N04W29R01S	35.0108	117.3156	14-Jul-78	1873.85	2045	171.15	108941	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W29R01S	35.0108	117.3156	10-Apr-79	1887.7	2045	157.3	108942	Harper South
11N04W29R01S	35.0108	117.3156	04-Mar-80	1892.24	2045	152.76	108943	Harper South
11N04W29R01S	35.0108	117.3156	06-Aug-80	1869.05	2045	175.95	108944	Harper South
11N04W29R01S	35.0108	117.3156	11-Dec-80	1885.76	2045	159.24	108945	Harper South
11N04W29R01S	35.0108	117.3156	26-Mar-81	1879.82	2045	165.18	108946	Harper South
11N04W29R01S	35.0108	117.3156	30-Jun-81	1870.02	2045	174.98	108947	Harper South
11N04W29R01S	35.0108	117.3156	07-Oct-81	1869	2045	176	109084	Harper South
11N04W29R01S	35.0108	117.3156	02-Dec-81	1882.7	2045	162.3	108949	Harper South
11N04W29R01S	35.0108	117.3156	24-Mar-82	1883.61	2045	161.39	108950	Harper South
11N04W29R01S	35.0108	117.3156	03-Jun-82	1874.24	2045	170.76	108951	Harper South
11N04W29R01S	35.0108	117.3156	21-Oct-82	1876.29	2045	168.71	108952	Harper South
11N04W29R01S	35.0108	117.3156	14-Dec-82	1880.83	2045	164.17	108953	Harper South
11N04W29R01S	35.0108	117.3156	17-Mar-83	1885.12	2045	159.88	108954	Harper South
11N04W29R01S	35.0108	117.3156	22-Jun-83	1868.25	2045	176.75	108955	Harper South
11N04W29R01S	35.0108	117.3156	20-Oct-83	1874.34	2045	170.66	108956	Harper South
11N04W29R01S	35.0108	117.3156	29-Mar-84	1871.48	2045	173.52	108957	Harper South
11N04W29R01S	35.0108	117.3156	21-May-84	1869.53	2045	175.47	108958	Harper South
11N04W29R01S	35.0108	117.3156	01-Nov-84	1873.35	2045	171.65	108959	Harper South
11N04W29R01S	35.0108	117.3156	16-Jan-85	1876.5	2045	168.5	108960	Harper South
11N04W29R01S	35.0108	117.3156	15-May-85	1869.01	2045	175.99	108961	Harper South
11N04W29R01S	35.0108	117.3156	23-Apr-86	1869.24	2045	175.76	108962	Harper South
11N04W29R01S	35.0108	117.3156	15-Jul-86	1861.73	2045	183.27	108963	Harper South
11N04W29R01S	35.0108	117.3156	09-Oct-86	1871.5	2045	173.5	108964	Harper South
11N04W29R01S	35.0108	117.3156	11-Dec-86	1875.93	2045	169.07	108965	Harper South
11N04W29R01S	35.0108	117.3156	31-Mar-87	1875.64	2045	169.36	108966	Harper South
11N04W29R01S	35.0108	117.3156	12-May-87	1870.61	2045	174	109103	Harper South
11N04W29R01S	35.0108	117.3156	11-Apr-96	1870.43	2045	174.57	108967	Harper South
11N04W29R01S	35.0108	117.3156	11-Oct-96	1976.69	2045	68.31	108968	Harper South
11N04W29R01S	35.0108	117.3156	24-Mar-97	1871.52	2045	173.48	108969	Harper South
11N04W29R01S	35.0108	117.3156	11-Apr-98	1880.06	2045	164.94	108970	Harper South
11N04W29R01S	35.0108	117.3156	08-Apr-99	1884.32	2045	160.68	108971	Harper South
11N04W29R01S	35.0108	117.3156	12-Apr-00	1888.11	2045	156.89	108972	Harper South
11N04W29R01S	35.0108	117.3156	19-Apr-01	1890	2045	155	109109	Harper South
11N04W29R01S	35.0108	117.3156	14-Mar-02	1890.49	2045	154.51	108973	Harper South
11N04W29R01S	35.0108	117.3156	28-Feb-03	1894.24	2045	151	109111	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W29R01S	35.0108	117.3156	16-Mar-04	1895.39	2045	150	109112	Harper South
11N04W29R01S	35.0108	117.3156	21-Apr-05	1897.15	2045	147.85	124678	Harper South
11N04W29R01S	35.0108	117.3156	25-Apr-06	1898.12	2045	146.88	124656	Harper South
11N04W30N01S	35.0139	117.3469	21-Nov-92	1876.93	2100	223	109119	Harper South
11N04W30N01S	35.0139	117.347	21-Nov-92	1876.93	2100	223	109125	Harper South
11N04W30N01S	35.0139	117.3469	19-May-93	1876.82	2100	223	109120	Harper South
11N04W30N01S	35.0139	117.347	19-May-93	1876.82	2100	223	109126	Harper South
11N04W30N01S	35.0139	117.347	10-Jun-94	1877.65	2100	222	109127	Harper South
11N04W30N01S	35.0139	117.3469	10-Jun-94	1877.65	2100	222	109121	Harper South
11N04W30N01S	35.0139	117.3469	08-May-95	1877.25	2100	223	109122	Harper South
11N04W30N01S	35.0139	117.347	08-May-95	1877.25	2100	223	109128	Harper South
11N04W30N01S	35.0139	117.347	13-May-96	1877.07	2100	223	109129	Harper South
11N04W30N01S	35.0139	117.3469	13-May-96	1877.07	2100	223	109123	Harper South
11N04W30N01S	35.0139	117.347	13-Apr-98	1882.91	2100	217	109130	Harper South
11N04W30N01S	35.0139	117.3469	13-Apr-98	1882.91	2100	217	109124	Harper South
11N04W30N01S	35.0139	117.347	12-Apr-00	1884.44	2100	216	109131	Harper South
11N04W30N01S	35.0139	117.347	19-Apr-01	1888.7	2100	211	109132	Harper South
11N04W30N01S	35.0139	117.347	14-Mar-02	1892.23	2100	208	109133	Harper South
11N04W30N01S	35.0139	117.347	28-Feb-03	1893.57	2100	206	109134	Harper South
11N04W30N01S	35.0139	117.347	16-Mar-04	1895.14	2100	205	109135	Harper South
11N04W30N01S	35.0139	117.347	21-Apr-05	1905.06	2100	194.94	124679	Harper South
11N04W30N01S	35.0139	117.347	25-Apr-06	1897	2100	203	124657	Harper South
11N04W30N02S	35.0111	117.3472	22-Oct-52	1941.1	2100	159	109136	Harper South
11N04W30N03S	35.0119	117.3467	01-Jan-19	2084	2100	16	109137	Harper South
11N04W30P01S	35.0114	117.3411	10-Jun-53	1947.8	2095	147	109138	Harper South
11N04W30P01S	35.0114	117.3411	17-Mar-54	1954	2095	141	109139	Harper South
11N04W30P01S	35.0114	117.3411	01-Dec-54	1936.36	2095	159	109140	Harper South
11N04W30P01S	35.0114	117.3411	04-Mar-55	1952.36	2095	143	109141	Harper South
11N04W30P01S	35.0114	117.3411	17-Nov-55	1943.53	2095	151	109142	Harper South
11N04W30P01S	35.0114	117.3411	06-Mar-57	1942.48	2095	153	109143	Harper South
11N04W30P01S	35.0114	117.3411	08-Nov-57	1936.11	2095	159	109144	Harper South
11N04W30P01S	35.0114	117.3411	06-Nov-58	1935	2095	160	109145	Harper South
11N04W30P01S	35.0114	117.3411	11-Mar-59	1942.6	2095	152	109146	Harper South
11N04W30P01S	35.0114	117.3411	18-Nov-59	1946	2095	149	109147	Harper South
11N04W30P01S	35.0114	117.3411	01-Dec-59	1954.78	2095	140	109148	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W30P01S	35.0114	117.3411	02-Mar-60	1960.4	2095	135	109149	Harper South
11N04W30P01S	35.0114	117.3411	17-Nov-60	1966.01	2095	129	109150	Harper South
11N04W30P01S	35.0114	117.3411	09-Mar-61	1959.79	2095	135	109151	Harper South
11N04W30P01S	35.0114	117.3411	27-Oct-61	1961.41	2095	134	109152	Harper South
11N04W30P01S	35.0114	117.3411	15-Mar-62	1960.05	2095	135	109153	Harper South
11N04W30P01S	35.0114	117.3411	02-Nov-62	1943.6	2095	151	109154	Harper South
11N04W30P01S	35.0114	117.3411	13-Mar-63	1949.01	2095	146	109155	Harper South
11N04W30P01S	35.0114	117.3411	30-Oct-63	1953.03	2095	142	109156	Harper South
11N04W30P01S	35.0114	117.3411	08-Mar-64	1953.86	2095	141	109157	Harper South
11N04W30P01S	35.0114	117.3411	14-Oct-64	1942.45	2095	153	109158	Harper South
11N04W30P01S	35.0114	117.3411	10-Mar-65	1950.96	2095	144	109159	Harper South
11N04W30P01S	35.0114	117.3411	19-Oct-65	1942.52	2095	152	109160	Harper South
11N04W30P01S	35.0114	117.3411	16-Mar-66	1947.79	2095	147	109161	Harper South
11N04W30P01S	35.0114	117.3411	19-Oct-66	1936.9	2095	158	109162	Harper South
11N04W30P01S	35.0114	117.3411	15-Mar-67	1937.85	2095	157	109163	Harper South
11N04W30P01S	35.0114	117.3411	23-Oct-67	1924.11	2095	171	109164	Harper South
11N04W30P01S	35.0114	117.3411	11-Apr-68	1928.41	2095	167	109165	Harper South
11N04W30P01S	35.0114	117.3411	01-Jul-68	1922	2095	173	109166	Harper South
11N04W30P01S	35.0114	117.3411	12-Jul-68	1922.46	2095	173	109167	Harper South
11N04W30P01S	35.0114	117.3411	14-Nov-68	1923.15	2095	172	109168	Harper South
11N04W30P01S	35.0114	117.3411	08-Apr-69	1924.2	2095	171	109169	Harper South
11N04W30P01S	35.0114	117.3411	28-Oct-69	1911.54	2095	183	109170	Harper South
11N04W30P01S	35.0114	117.3411	23-Mar-70	1922.84	2095	172	109171	Harper South
11N04W30P01S	35.0114	117.3411	12-Nov-70	1916.48	2095	179	109172	Harper South
11N04W30P01S	35.0114	117.3411	14-Apr-71	1918.39	2095	177	109173	Harper South
11N04W30P01S	35.0114	117.3411	14-Jul-78	1903.44	2095	192	109174	Harper South
11N04W30R01S	35.0131	117.3325	10-Jun-53	1935.9	2070	134	109175	Harper South
11N04W30Z02S	35.0194	117.3322	01-Jan-19	2025	2055	30	109176	Harper South
11N04W31A01S	35.0089	117.3486	25-Jul-46	1980.8	2076	95	109177	Harper South
11N04W31A01S	35.0089	117.3486	31-Jul-46	1980.7	2076	95	109178	Harper South
11N04W31A01S	35.0089	117.3486	08-Aug-46	1979.5	2076	96	109179	Harper South
11N04W31A01S	35.0089	117.3486	22-Aug-46	1979.8	2076	96	109180	Harper South
11N04W31A01S	35.0089	117.3486	06-Sep-46	1981.9	2076	94	109181	Harper South
11N04W31A01S	35.0089	117.3486	16-Sep-46	1983.3	2076	93	109182	Harper South
11N04W31A01S	35.0089	117.3486	23-Sep-46	1983.5	2076	92	109183	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W31A01S	35.0089	117.3486	30-Sep-46	1977.4	2076	99	109184	Harper South
11N04W31A01S	35.0089	117.3486	06-Oct-46	1977.1	2076	99	109185	Harper South
11N04W31A01S	35.0089	117.3486	15-Oct-46	1980.3	2076	96	109186	Harper South
11N04W31A01S	35.0089	117.3486	21-Oct-46	1980.7	2076	95	109187	Harper South
11N04W31A01S	35.0089	117.3486	28-Oct-46	1987	2076	89	109188	Harper South
11N04W31A01S	35.0089	117.3486	06-Nov-46	1990.1	2076	86	109189	Harper South
11N04W31A01S	35.0089	117.3486	18-Nov-46	1991.5	2076	84	109190	Harper South
11N04W31A01S	35.0089	117.3486	02-Dec-46	1992.9	2076	83	109191	Harper South
11N04W31A01S	35.0089	117.3486	17-Dec-46	1993.9	2076	82	109192	Harper South
11N04W31A01S	35.0089	117.3486	01-Jan-47	1994.8	2076	81	109193	Harper South
11N04W31A01S	35.0089	117.3486	23-Jan-47	1995.6	2076	80	109194	Harper South
11N04W31A01S	35.0089	117.3486	20-Feb-47	1996.2	2076	80	109195	Harper South
11N04W31A01S	35.0089	117.3486	21-Mar-47	1992.4	2076	84	109196	Harper South
11N04W31A01S	35.0089	117.3486	09-Apr-47	1987.8	2076	88	109197	Harper South
11N04W31A01S	35.0089	117.3486	30-Apr-47	1988.3	2076	88	109198	Harper South
11N04W31A01S	35.0089	117.3486	12-Jun-47	1974.9	2076	101	109199	Harper South
11N04W31A01S	35.0089	117.3486	10-Jul-47	1977.9	2076	98	109200	Harper South
11N04W31A01S	35.0089	117.3486	11-Aug-47	1982.3	2076	94	109201	Harper South
11N04W31A01S	35.0089	117.3486	04-Sep-47	1983.3	2076	93	109202	Harper South
11N04W31A01S	35.0089	117.3486	15-Oct-47	1982.3	2076	94	109203	Harper South
11N04W31A01S	35.0089	117.3486	16-Feb-48	1994.1	2076	82	109204	Harper South
11N04W31A01S	35.0089	117.3486	11-Mar-48	1992.6	2076	83	109205	Harper South
11N04W31A01S	35.0089	117.3486	15-Apr-48	1985.6	2076	90	109206	Harper South
11N04W31A01S	35.0089	117.3486	14-Jun-48	1978.9	2076	97	109207	Harper South
11N04W31A01S	35.0089	117.3486	13-Jul-48	1975.3	2076	101	109208	Harper South
11N04W31A01S	35.0089	117.3486	10-Aug-48	1969.8	2076	106	109209	Harper South
11N04W31A01S	35.0089	117.3486	14-Sep-48	1959	2076	117	109210	Harper South
11N04W31A01S	35.0089	117.3486	13-Oct-48	1978.5	2076	98	109211	Harper South
11N04W31A01S	35.0089	117.3486	17-Jan-49	1984.2	2076	92	109212	Harper South
11N04W31A01S	35.0089	117.3486	17-Feb-49	1997	2076	79	109213	Harper South
11N04W31A01S	35.0089	117.3486	14-Apr-49	1984.9	2076	91	109214	Harper South
11N04W31A01S	35.0089	117.3486	16-Jun-49	1968.9	2076	107	109215	Harper South
11N04W31A01S	35.0089	117.3486	18-Aug-49	1967.3	2076	109	109216	Harper South
11N04W31A01S	35.0089	117.3486	15-Sep-49	1968	2076	108	109217	Harper South
11N04W31A01S	35.0089	117.3486	14-Dec-49	1979.7	2076	96	109218	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W31A01S	35.0089	117.3486	24-Jan-50	1984.8	2076	91	109219	Harper South
11N04W31A01S	35.0089	117.3486	15-Feb-50	1986.4	2076	90	109220	Harper South
11N04W31A01S	35.0089	117.3486	19-Apr-50	1984.7	2076	91	109221	Harper South
11N04W31A01S	35.0089	117.3486	15-Jun-50	1968.8	2076	107	109222	Harper South
11N04W31A01S	35.0089	117.3486	15-Aug-50	1956.3	2076	120	109223	Harper South
11N04W31A01S	35.0089	117.3486	14-Sep-50	1960.4	2076	116	109224	Harper South
11N04W31A01S	35.0089	117.3486	13-Dec-50	1967.5	2076	108	109225	Harper South
11N04W31A01S	35.0089	117.3486	16-Jan-51	1972.3	2076	104	109226	Harper South
11N04W31A01S	35.0089	117.3486	14-Feb-51	1972.3	2076	104	109227	Harper South
11N04W31A01S	35.0089	117.3486	20-Mar-51	1969.6	2076	106	109228	Harper South
11N04W31A01S	35.0089	117.3486	18-Apr-51	1959.4	2076	117	109229	Harper South
11N04W31A01S	35.0089	117.3486	14-Jun-51	1955.98	2076	120	109230	Harper South
11N04W31A01S	35.0089	117.3486	13-Sep-51	1951.01	2076	125	109231	Harper South
11N04W31A01S	35.0089	117.3486	16-Oct-51	1957.11	2076	119	109232	Harper South
11N04W31A01S	35.0089	117.3486	13-Dec-51	1957.3	2076	119	109233	Harper South
11N04W31A01S	35.0089	117.3486	22-Jan-52	1964.3	2076	112	109234	Harper South
11N04W31A01S	35.0089	117.3486	13-Mar-52	1965.84	2076	110	109235	Harper South
11N04W31A01S	35.0089	117.3486	12-Jun-52	1970.58	2076	105	109236	Harper South
11N04W31A01S	35.0089	117.3486	16-Jul-52	1950.79	2076	125	109237	Harper South
11N04W31A01S	35.0089	117.3486	16-Dec-52	1959.3	2076	117	109238	Harper South
11N04W31A01S	35.0089	117.3486	09-Jun-53	1948	2076	128	109239	Harper South
11N04W31A01S	35.0089	117.3486	08-Nov-57	1937.76	2076	138	109240	Harper South
11N04W31A01S	35.0089	117.3486	11-Mar-58	1938	2076	138	109241	Harper South
11N04W31A01S	35.0089	117.3486	18-Nov-59	1946	2076	130	109242	Harper South
11N04W31A01S	35.0089	117.3486	17-Nov-60	1928	2076	148	109243	Harper South
11N04W31A01S	35.0089	117.3486	01-Jul-68	1909	2076	167	109244	Harper South
11N04W31A01S	35.0089	117.3486	11-Jul-68	1909.36	2076	167	109245	Harper South
11N04W31H01S	35.0064	117.3306	16-Jan-53	1957.4	2076	119	109246	Harper South
11N04W31H01S	35.0064	117.3306	18-Feb-53	1955.85	2076	120	109247	Harper South
11N04W31H01S	35.0064	117.3306	15-Mar-53	1963.89	2076	112	109248	Harper South
11N04W31H01S	35.0064	117.3306	15-Apr-53	1953.32	2076	123	109249	Harper South
11N04W31H01S	35.0064	117.3306	12-Nov-53	1946.35	2076	130	109250	Harper South
11N04W31H01S	35.0064	117.3306	13-May-54	1947.6	2076	128	109251	Harper South
11N04W31H01S	35.0064	117.3306	17-Nov-54	1946.85	2076	129	109252	Harper South
11N04W31H01S	35.0064	117.3306	14-Apr-55	1941.7	2076	134	109253	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W31H01S	35.0064	117.3306	12-Dec-55	1944.8	2076	131	109254	Harper South
11N04W31H01S	35.0064	117.3306	12-Apr-56	1943.18	2076	133	109255	Harper South
11N04W31H01S	35.0064	117.3306	21-Dec-56	1943.05	2076	133	109256	Harper South
11N04W31H01S	35.0064	117.3306	02-May-57	1940.24	2076	136	109257	Harper South
11N04W31H01S	35.0064	117.3306	03-Dec-57	1942.18	2076	134	109258	Harper South
11N04W31H01S	35.0064	117.3306	25-Mar-58	1945.08	2076	131	109259	Harper South
11N04W31H01S	35.0064	117.3306	01-Dec-58	1938.7	2076	137	109260	Harper South
11N04W31H01S	35.0064	117.3306	04-May-59	1940.07	2076	136	109261	Harper South
11N04W31H01S	35.0064	117.3306	11-Nov-59	1949.92	2076	126	109262	Harper South
11N04W31H01S	35.0064	117.3306	23-Mar-60	1947.15	2076	129	109263	Harper South
11N04W31H01S	35.0064	117.3306	01-May-61	1951.3	2076	125	109264	Harper South
11N04W31H01S	35.0064	117.3306	28-Nov-61	1951.55	2076	124	109265	Harper South
11N04W31H01S	35.0064	117.3306	22-Mar-62	1951.3	2076	125	109266	Harper South
11N04W31H01S	35.0064	117.3306	14-Nov-62	1947.5	2076	128	109267	Harper South
11N04W31H01S	35.0064	117.3306	18-Mar-63	1949.8	2076	126	109268	Harper South
11N04W31H01S	35.0064	117.3306	17-Jan-64	1949.1	2076	127	109269	Harper South
11N04W31H01S	35.0064	117.3306	21-Apr-64	1947.9	2076	128	109270	Harper South
11N04W31H01S	35.0064	117.3306	03-Dec-64	1945.8	2076	130	109271	Harper South
11N04W31H01S	35.0064	117.3306	19-May-65	1935.3	2076	141	109272	Harper South
11N04W31H01S	35.0064	117.3306	08-Dec-65	1941.5	2076	134	109273	Harper South
11N04W31H01S	35.0064	117.3306	05-May-66	1936.1	2076	140	109274	Harper South
11N04W31H01S	35.0064	117.3306	31-Mar-67	1926.3	2076	150	109275	Harper South
11N04W32A01S	35.0106	117.3125	25-Sep-67	1909	2044	135	109276	Harper South
11N04W32D01S	35.0075	117.3286	07-Dec-67	1933.7	2075	141	109277	Harper South
11N04W32D01S	35.0075	117.3286	30-Apr-68	1925.8	2075	149	109278	Harper South
11N04W32D01S	35.0075	117.3286	15-Nov-68	1924	2075	151	109279	Harper South
11N04W32D01S	35.0075	117.3286	11-Apr-69	1926.5	2075	148	109280	Harper South
11N04W32D02S	35.0103	117.3256	01-Apr-51	1960	2060	100	109281	Harper South
11N04W32D02S	35.0103	117.3256	01-Jul-68	1913	2060	147	109282	Harper South
11N04W32D02S	35.0103	117.3256	11-Jul-68	1913.33	2060	147	109283	Harper South
11N04W32F01S	35.0047	117.3242	09-Jun-53	1955.2	2080	125	109284	Harper South
11N04W32F01S	35.0047	117.3242	01-Jul-68	1984	2080	96	109285	Harper South
11N04W32F01S	35.0047	117.3242	11-Jul-68	1984	2080	96	109286	Harper South
11N04W32L01S	35.0017	117.3239	01-May-49	1980	2090	110	109287	Harper South
11N04W32L01S	35.0017	117.3239	09-Jun-53	1958.3	2090	132	109288	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N04W32L01S	35.0017	117.3239	01-Jul-68	1925	2090	165	109289	Harper South
11N04W32L01S	35.0017	117.3239	11-Jul-68	1924.7	2090	165	109290	Harper South
11N04W33Q01S	34.9978	117.2922	20-May-59	1964.02	2095	131	109291	Harper South
11N04W33Q01S	34.9978	117.2922	10-Mar-67	1950.7	2095	144	109292	Harper South
11N04W34B01S	35.0092	117.2822	01-Aug-68	2022	2023	1	109293	Harper South
11N04W34D01S	35.0078	117.2922	01-Jan-19	2019	2035	16	109294	Harper South
11N04W34D02S	35.0081	117.292	21-Nov-92	2028	2035	7	109296	Harper South
11N04W34D02S	35.0081	117.2919	21-Nov-92	2028	2035	7	109295	Harper South
11N04W35F01S	35.0036	117.2694	10-May-55	2017.08	2050	33	109297	Harper South
11N04W35F01S	35.0036	117.2695	10-May-55	2017.08	2050	33	109298	Harper South
11N04W35G01S	35.0036	117.2678	15-Apr-53	2018.53	2050	31	109299	Harper South
11N04W35G01S	35.0036	117.2678	25-Jun-53	2018.42	2050	32	109300	Harper South
11N04W35G01S	35.0036	117.2678	12-Nov-53	2018.4	2050	32	109301	Harper South
11N04W35G01S	35.0036	117.2678	13-May-54	2018.6	2050	31	109302	Harper South
11N04W35G01S	35.0036	117.2678	17-Nov-54	2018	2050	32	109303	Harper South
11N04W35G01S	35.0036	117.2678	14-Apr-55	2018.47	2050	32	109304	Harper South
11N04W35G01S	35.0036	117.2678	12-Dec-55	2018.88	2050	31	109305	Harper South
11N04W35G01S	35.0036	117.2678	12-Apr-56	2018.94	2050	31	109306	Harper South
11N04W35G01S	35.0036	117.2678	21-Dec-56	2019.03	2050	31	109307	Harper South
11N04W35G01S	35.0036	117.2678	02-May-57	2019.06	2050	31	109308	Harper South
11N04W35G01S	35.0036	117.2678	03-Dec-57	2019.05	2050	31	109309	Harper South
11N04W35G01S	35.0036	117.2678	25-Mar-58	2019.07	2050	31	109310	Harper South
11N04W35G01S	35.0036	117.2678	02-Dec-58	2019.02	2050	31	109311	Harper South
11N04W35G01S	35.0036	117.2678	04-May-59	2019.13	2050	31	109312	Harper South
11N04W35G01S	35.0036	117.2678	11-Nov-59	2019.05	2050	31	109313	Harper South
11N04W35G01S	35.0036	117.2678	23-Mar-60	2018.94	2050	31	109314	Harper South
11N04W35G01S	35.0036	117.2678	01-May-61	2019	2050	31	109315	Harper South
11N04W35G01S	35.0036	117.2678	28-Nov-61	2019	2050	31	109316	Harper South
11N04W35G01S	35.0036	117.2678	22-Mar-62	2019	2050	31	109317	Harper South
11N04W35G01S	35.0036	117.2678	14-Nov-62	2018.9	2050	31	109318	Harper South
11N04W35G01S	35.0036	117.2678	18-Mar-63	2019	2050	31	109319	Harper South
11N05W01N01S	35.0703	117.3645	31-Oct-50	2008	2060	52	109394	Harper South
11N05W01N01S	35.0703	117.3644	31-Oct-50	2008	2060	52	109392	Harper South
11N05W01N01S	35.0703	117.3644	01-Jul-68	1987	2060	73	109393	Harper South
11N05W01N01S	35.0703	117.3645	01-Jul-68	1987	2060	73	109395	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N05W02B01S	35.0836	117.3722	31-Oct-50	2005	2102	97	109396	Harper South
11N05W02B01S	35.0836	117.3722	17-Jun-53	2002.35	2102	100	109397	Harper South
11N05W02B01S	35.0836	117.3722	01-Jul-68	1988	2102	114	109398	Harper South
11N05W02B01S	35.0836	117.3722	24-Jul-68	1987.82	2102	114	109399	Harper South
11N05W02B02S	35.0836	117.3722	17-Jun-53	2003.18	2102	99	109400	Harper South
11N05W02B02S	35.0836	117.3723	17-Jun-53	2003.18	2102	99	109401	Harper South
11N05W02D01S	35.0839	117.3828	01-Jan-19		2100	165	109402	Harper South
11N05W02D01S	35.0839	117.3828	17-Jun-53	1968.9	2100	131	109403	Harper South
11N05W12G01S	35.0628	117.3561	10-May-55	1987.16	2055	68	109405	Harper South
11N05W12G01S	35.0628	117.3561	01-Jul-68	1970	2055	85	109406	Harper South
11N05W12G01S	35.0628	117.3561	15-Jul-68	1969.91	2055	85	109407	Harper South
11N05W12M01S	35.0617	117.3644	01-Jan-19	2022	2070	48	109408	Harper South
11N05W12Z01S	35.0603	117.3581	01-Jan-19	2030	2055	25	109409	Harper South
11N05W13H01S	35.0506	117.3484	30-Oct-50	1973	2037	64	109447	Harper South
11N05W13H01S	35.0506	117.3483	30-Oct-50	1973	2037	64	109410	Harper South
11N05W13H01S	35.0506	117.3483	18-Mar-53	1970.31	2037	67	109411	Harper South
11N05W13H01S	35.0506	117.3484	18-Mar-53	1970.31	2037	67	109448	Harper South
11N05W13H01S	35.0506	117.3483	15-Apr-53	1959.45	2037	78	109412	Harper South
11N05W13H01S	35.0506	117.3484	15-Apr-53	1959.45	2037	78	109449	Harper South
11N05W13H01S	35.0506	117.3484	17-Jun-53	1952.3	2037	85	109450	Harper South
11N05W13H01S	35.0506	117.3483	17-Jun-53	1952.3	2037	85	109413	Harper South
11N05W13H01S	35.0506	117.3483	12-Nov-53	1955.35	2037	82	109414	Harper South
11N05W13H01S	35.0506	117.3484	12-Nov-53	1955.35	2037	82	109451	Harper South
11N05W13H01S	35.0506	117.3483	13-May-54	1951.7	2037	85	109415	Harper South
11N05W13H01S	35.0506	117.3484	13-May-54	1951.7	2037	85	109452	Harper South
11N05W13H01S	35.0506	117.3483	17-Nov-54	1952.5	2037	84	109416	Harper South
11N05W13H01S	35.0506	117.3484	17-Nov-54	1952.5	2037	84	109453	Harper South
11N05W13H01S	35.0506	117.3484	14-Apr-55	1953	2037	84	109454	Harper South
11N05W13H01S	35.0506	117.3483	14-Apr-55	1953	2037	84	109417	Harper South
11N05W13H01S	35.0506	117.3484	12-Dec-55	1954.29	2037	83	109455	Harper South
11N05W13H01S	35.0506	117.3483	12-Dec-55	1954.29	2037	83	109418	Harper South
11N05W13H01S	35.0506	117.3484	12-Apr-56	1948.42	2037	89	109456	Harper South
11N05W13H01S	35.0506	117.3483	12-Apr-56	1948.42	2037	89	109419	Harper South
11N05W13H01S	35.0506	117.3484	21-Dec-56	1950.91	2037	86	109457	Harper South
11N05W13H01S	35.0506	117.3483	21-Dec-56	1950.91	2037	86	109420	Harper South

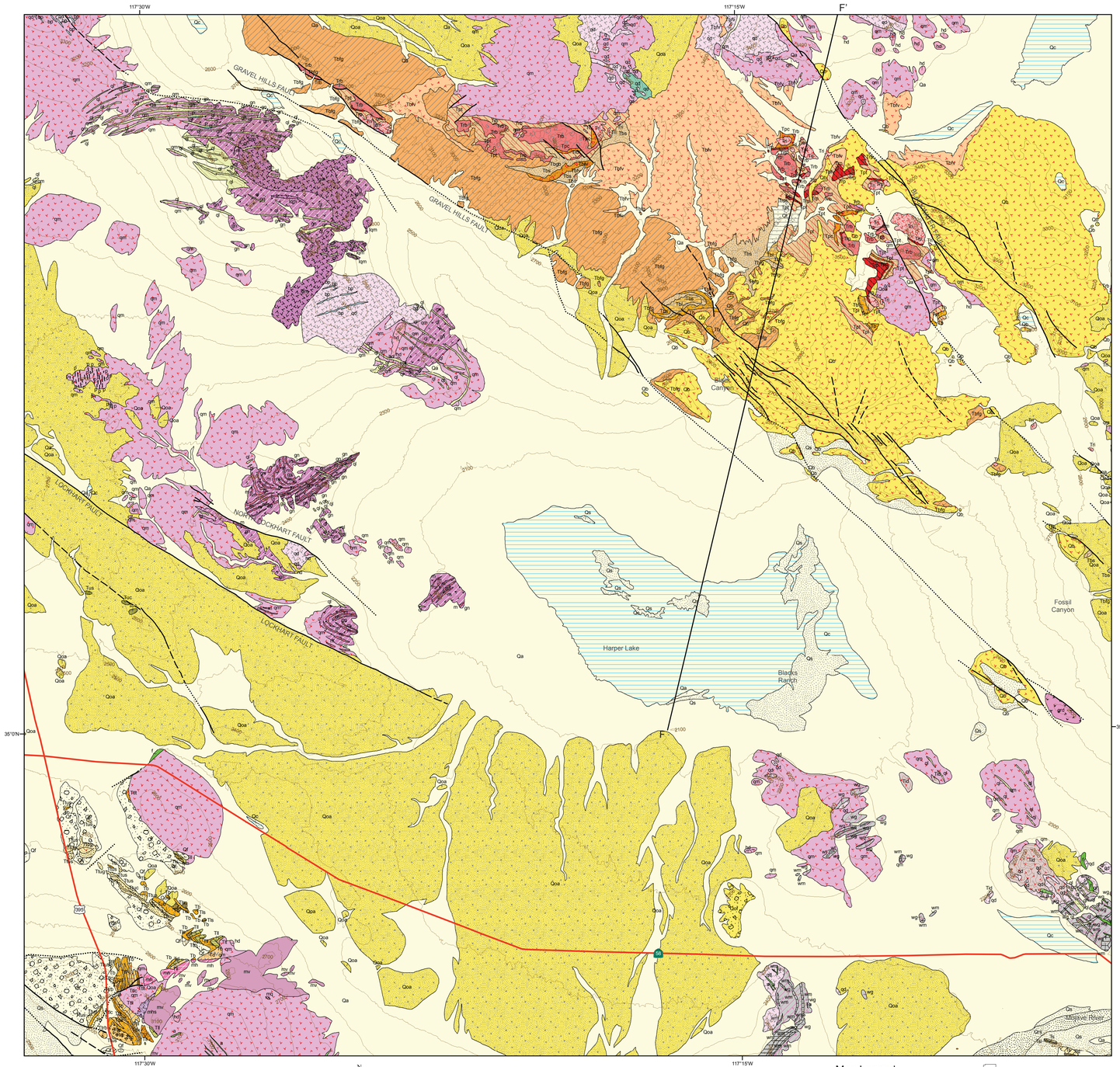
GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N05W13H01S	35.0506	117.3484	02-May-57	1945.39	2037	92	109458	Harper South
11N05W13H01S	35.0506	117.3483	02-May-57	1945.39	2037	92	109421	Harper South
11N05W13H01S	35.0506	117.3484	03-Dec-57	1950.27	2037	87	109459	Harper South
11N05W13H01S	35.0506	117.3483	03-Dec-57	1950.27	2037	87	109422	Harper South
11N05W13H01S	35.0506	117.3483	25-Mar-58	1953.68	2037	83	109423	Harper South
11N05W13H01S	35.0506	117.3484	25-Mar-58	1953.68	2037	83	109460	Harper South
11N05W13H01S	35.0506	117.3484	01-Dec-58	1949.72	2037	87	109461	Harper South
11N05W13H01S	35.0506	117.3483	01-Dec-58	1949.72	2037	87	109424	Harper South
11N05W13H01S	35.0506	117.3484	04-May-59	1957.85	2037	79	109462	Harper South
11N05W13H01S	35.0506	117.3483	04-May-59	1957.85	2037	79	109425	Harper South
11N05W13H01S	35.0506	117.3483	11-Nov-59	1962.88	2037	74	109426	Harper South
11N05W13H01S	35.0506	117.3484	11-Nov-59	1962.88	2037	74	109463	Harper South
11N05W13H01S	35.0506	117.3484	23-Mar-60	1965.5	2037	72	109464	Harper South
11N05W13H01S	35.0506	117.3483	23-Mar-60	1965.5	2037	72	109427	Harper South
11N05W13H01S	35.0506	117.3483	01-May-61	1968.6	2037	68	109428	Harper South
11N05W13H01S	35.0506	117.3484	01-May-61	1968.6	2037	68	109465	Harper South
11N05W13H01S	35.0506	117.3484	28-Nov-61	1966.4	2037	71	109466	Harper South
11N05W13H01S	35.0506	117.3483	28-Nov-61	1966.4	2037	71	109429	Harper South
11N05W13H01S	35.0506	117.3483	22-Mar-62	1968.6	2037	68	109430	Harper South
11N05W13H01S	35.0506	117.3484	22-Mar-62	1968.6	2037	68	109467	Harper South
11N05W13H01S	35.0506	117.3483	14-Nov-62	1960.6	2037	76	109431	Harper South
11N05W13H01S	35.0506	117.3484	14-Nov-62	1960.6	2037	76	109468	Harper South
11N05W13H01S	35.0506	117.3483	18-Mar-63	1963.2	2037	74	109432	Harper South
11N05W13H01S	35.0506	117.3484	18-Mar-63	1963.2	2037	74	109469	Harper South
11N05W13H01S	35.0506	117.3484	17-Jan-64	1961.7	2037	75	109470	Harper South
11N05W13H01S	35.0506	117.3483	17-Jan-64	1961.7	2037	75	109433	Harper South
11N05W13H01S	35.0506	117.3483	21-Apr-64	1955.1	2037	82	109434	Harper South
11N05W13H01S	35.0506	117.3484	21-Apr-64	1955.1	2037	82	109471	Harper South
11N05W13H01S	35.0506	117.3484	03-Dec-64	1955.1	2037	82	109472	Harper South
11N05W13H01S	35.0506	117.3483	03-Dec-64	1955.1	2037	82	109435	Harper South
11N05W13H01S	35.0506	117.3483	14-May-65	1948.7	2037	88	109436	Harper South
11N05W13H01S	35.0506	117.3484	14-May-65	1948.7	2037	88	109473	Harper South
11N05W13H01S	35.0506	117.3484	08-Dec-65	1953.7	2037	83	109474	Harper South
11N05W13H01S	35.0506	117.3483	08-Dec-65	1953.7	2037	83	109437	Harper South
11N05W13H01S	35.0506	117.3484	05-May-66	1943.3	2037	94	109475	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N05W13H01S	35.0506	117.3483	05-May-66	1943.3	2037	94	109438	Harper South
11N05W13H01S	35.0506	117.3484	17-Nov-66	1941.9	2037	95	109476	Harper South
11N05W13H01S	35.0506	117.3483	17-Nov-66	1941.9	2037	95	109439	Harper South
11N05W13H01S	35.0506	117.3483	31-Mar-67	1941.9	2037	95	109440	Harper South
11N05W13H01S	35.0506	117.3484	31-Mar-67	1941.9	2037	95	109477	Harper South
11N05W13H01S	35.0506	117.3484	07-Dec-67	1939.6	2037	97	109478	Harper South
11N05W13H01S	35.0506	117.3483	07-Dec-67	1939.6	2037	97	109441	Harper South
11N05W13H01S	35.0506	117.3483	30-Apr-68	1938.1	2037	99	109442	Harper South
11N05W13H01S	35.0506	117.3484	30-Apr-68	1938.1	2037	99	109479	Harper South
11N05W13H01S	35.0506	117.3483	01-Jul-68	1933	2037	104	109443	Harper South
11N05W13H01S	35.0506	117.3484	01-Jul-68	1933	2037	104	109480	Harper South
11N05W13H01S	35.0506	117.3483	17-Jul-68	1932.56	2037	104	109444	Harper South
11N05W13H01S	35.0506	117.3484	17-Jul-68	1932.56	2037	104	109481	Harper South
11N05W13H01S	35.0506	117.3484	15-Nov-68	1936.2	2037	101	109482	Harper South
11N05W13H01S	35.0506	117.3483	15-Nov-68	1936.2	2037	101	109445	Harper South
11N05W13H01S	35.0506	117.3484	11-Apr-69	1939.4	2037	98	109483	Harper South
11N05W13H01S	35.0506	117.3483	11-Apr-69	1939.4	2037	98	109446	Harper South
11N05W13Q01S	35.0411	117.3556	16-Jun-53	1924.7	2050	125	109484	Harper South
11N05W13Q01S	35.0411	117.3556	01-Jul-68	1896	2050	154	109485	Harper South
11N05W13Q01S	35.0411	117.3556	17-Jul-68	1895.99	2050	154	109486	Harper South
11N05W14R01S	35.0414	117.3661	18-Jun-53	2038.9	2065	26	109487	Harper South
11N05W24A01S	35.0367	117.3481	25-Jul-46	2025.4	2042	17	109488	Harper South
11N05W24A01S	35.0367	117.3481	31-Jul-46	2011.2	2042	31	109489	Harper South
11N05W24A01S	35.0367	117.3481	07-Aug-46	2012.8	2042	29	109490	Harper South
11N05W24A01S	35.0367	117.3481	22-Aug-46	1993.4	2042	49	109491	Harper South
11N05W24A01S	35.0367	117.3481	11-Mar-48	1973.5	2042	68	109492	Harper South
11N05W24A01S	35.0367	117.3481	17-Jan-49	1980.5	2042	62	109493	Harper South
11N05W24A01S	35.0367	117.3481	17-Feb-49	1979.5	2042	62	109494	Harper South
11N05W24A01S	35.0367	117.3481	16-Mar-49	1975	2042	67	109495	Harper South
11N05W24A01S	35.0367	117.3481	14-Apr-49	1962.1	2042	80	109496	Harper South
11N05W24A01S	35.0367	117.3481	16-Jun-49	1934	2042	108	109497	Harper South
11N05W24A01S	35.0367	117.3481	14-Jul-49	1932.9	2042	109	109498	Harper South
11N05W24A01S	35.0367	117.3481	18-Aug-49	1932.9	2042	109	109499	Harper South
11N05W24A01S	35.0367	117.3481	15-Sep-49	1932.3	2042	110	109500	Harper South
11N05W24A01S	35.0367	117.3481	19-Oct-49	1947	2042	95	109501	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N05W24A01S	35.0367	117.3481	15-Feb-50	1972.1	2042	70	109502	Harper South
11N05W24A01S	35.0367	117.3481	15-Mar-50	1961.6	2042	80	109503	Harper South
11N05W24A01S	35.0367	117.3481	19-Apr-50	1951.9	2042	90	109504	Harper South
11N05W24A01S	35.0367	117.3481	15-Jun-50	1930.6	2042	111	109505	Harper South
11N05W24A01S	35.0367	117.3481	12-Jul-50	1929.5	2042	112	109506	Harper South
11N05W24A01S	35.0367	117.3481	15-Aug-50	1933.4	2042	109	109507	Harper South
11N05W24A01S	35.0367	117.3481	14-Sep-50	1939.2	2042	103	109508	Harper South
11N05W24A01S	35.0367	117.3481	17-Oct-50	1942.9	2042	99	109509	Harper South
11N05W24A01S	35.0367	117.3481	13-Dec-50	1959.2	2042	83	109510	Harper South
11N05W24A01S	35.0367	117.3481	14-Feb-51	1964.2	2042	78	109511	Harper South
11N05W24A01S	35.0367	117.3481	20-Mar-51	1946.2	2042	96	109512	Harper South
11N05W24A01S	35.0367	117.3481	14-Jun-51	1934.45	2042	108	109513	Harper South
11N05W24A01S	35.0367	117.3481	18-Jul-51	1937.22	2042	105	109514	Harper South
11N05W24A01S	35.0367	117.3481	15-Aug-51	1936.55	2042	105	109515	Harper South
11N05W24A01S	35.0367	117.3481	13-Sep-51	1936.6	2042	105	109516	Harper South
11N05W24A01S	35.0367	117.3481	16-Oct-51	1941.27	2042	101	109517	Harper South
11N05W24A01S	35.0367	117.3481	13-Dec-51	1962.48	2042	80	109518	Harper South
11N05W24A01S	35.0367	117.3481	22-Jan-52	1972.87	2042	69	109519	Harper South
11N05W24A01S	35.0367	117.3481	14-Feb-52	1971.23	2042	71	109520	Harper South
11N05W24A01S	35.0367	117.3481	13-Mar-52	1970.2	2042	72	109521	Harper South
11N05W24A01S	35.0367	117.3481	10-Apr-52	1961.87	2042	80	109522	Harper South
11N05W24A01S	35.0367	117.3481	16-Dec-52	1958.25	2042	84	109523	Harper South
11N05W24A01S	35.0367	117.3481	16-Jan-53	1959.4	2042	83	109524	Harper South
11N05W24A01S	35.0367	117.3481	18-Feb-53	1952.18	2042	90	109525	Harper South
11N05W24A01S	35.0367	117.3481	18-Mar-53	1949.2	2042	93	109526	Harper South
11N05W24A01S	35.0367	117.3481	15-Apr-53	1942.62	2042	99	109527	Harper South
11N05W24A01S	35.0367	117.3481	12-Nov-53	1932.77	2042	109	109528	Harper South
11N05W24A01S	35.0367	117.3481	13-May-54	1927.2	2042	115	109529	Harper South
11N05W24A01S	35.0367	117.3481	17-Nov-54	1922.5	2042	120	109530	Harper South
11N05W24A01S	35.0367	117.3481	14-Apr-55	1917.5	2042	124	109531	Harper South
11N05W24A01S	35.0367	117.3481	12-Dec-55	1922.9	2042	119	109532	Harper South
11N05W24A01S	35.0367	117.3481	12-Apr-56	1909.35	2042	133	109533	Harper South
11N05W24A01S	35.0367	117.3481	21-Dec-56	1916.05	2042	126	109534	Harper South
11N05W24A01S	35.0367	117.3481	02-May-57	1906.02	2042	136	109535	Harper South
11N05W24A01S	35.0367	117.3481	02-Dec-57	1915.08	2042	127	109536	Harper South

GWL_GST_NUMBER	NORTHING	EASTING	GWL_DATE	GWL_ELEV	GWL_GSELEV	GWL_RPWS	MAPINFO_ID	INTERBASIN
11N05W24A01S	35.0367	117.3481	25-Mar-58	1921.89	2042	120	109537	Harper South
11N05W24A01S	35.0367	117.3481	01-Dec-58	1929.17	2042	113	109538	Harper South
11N05W24A01S	35.0367	117.3481	04-May-59	1957.46	2042	85	109539	Harper South
11N05W24A01S	35.0367	117.3481	11-Nov-59	1948.69	2042	93	109540	Harper South
11N05W24A01S	35.0367	117.3481	23-Mar-60	1950.87	2042	91	109541	Harper South
11N05W24A01S	35.0367	117.3481	01-May-61	1979	2042	63	109542	Harper South
11N05W24A01S	35.0367	117.3481	28-Nov-61	1973.7	2042	68	109543	Harper South
11N05W24A01S	35.0367	117.3481	22-Mar-62	1979	2042	63	109544	Harper South
11N05W24A01S	35.0367	117.3481	14-Nov-62	1969.2	2042	73	109545	Harper South
11N05W24A01S	35.0367	117.3481	18-Mar-63	1973.9	2042	68	109546	Harper South
11N05W24E01S	35.0336	117.3617	11-Jun-53	1915	2075	160	109547	Harper South
11N05W24F01S	35.0339	117.357	22-May-67	1882	2070	188	109549	Harper South
11N05W24F01S	35.0339	117.3569	22-May-67	1882	2070	188	109548	Harper South
11N05W24P01S	35.0264	117.3608	15-Nov-50	1920	2100	180	109550	Harper South
11N05W24P01S	35.0264	117.3609	15-Nov-50	1920	2100	180	109551	Harper South
11N05W24Q01S	35.0264	117.3556	15-Dec-50	1912	2090	178	109552	Harper South
11N05W24R02S	35.0261	117.35	01-Jul-68	1922	2075	153	109553	Harper South
12N04W34C01S	35.0964	117.2864	02-Sep-53	2013.45	2150	137	111001	Harper North

Plate 1. Harper Lake Basin Composite Geologic Map.



2 1 0 2 4 Miles

2 1 0 2 4 6 Kilometers

N W E S

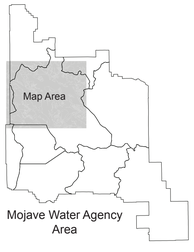
Map Legend

Major Highway

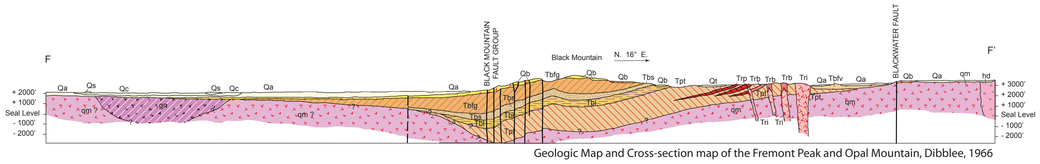
Faults

Known, approximate, inferred

Contour Interval 100 ft



Mojave Water Agency Area



Geologic Map and Cross-section map of the Fremont Peak and Opal Mountain, Dibblee, 1966

Legend

Age

Cenozoic

Quaternary

Recent

Qa alluvial gravel and sand

Qs wind blown sand

Qrs sand of Mojave River channel

Qc clay and silt of mud flats

Qt terrace gravels

Qf fanglomerate

Pleistocene

Qoa older alluvium

Qofr older fanglomerate

Tertiary

Pliocene

Tuf, Tus, Tuc, Tub, Tul

Tuf, granitic fanglomerate
Tus, sandstone
Tuc, clay shale
Tub, breccia
Tul, limestone and chert

Barstow Formation

Tbt, Tbl, Tbs, Tbgb, Tbfg, Tbfv, Ts

Tbt, tuff bed
Tbl, lacustrine clay shale
Tbs, terrestrial sandstone
Tbgb, granitic breccia
Tbfg, fanglomerate of granitic detritus
Tbfv, fanglomerate of volcanic detritus
Ts, undifferentiated sedimentary rocks

Tpbc basal conglomerate (Owl Conglomerate Member)

Tus, Tuc, Tug

Tus, sandstone and clay shale
Tuc, chert
Tug, granitic breccia

Tlc, Tll, Tlt, Tls

Tlc, clay shale
Tll, limestone and (or) dolomite, and shale
Tlt, rhyolitic tuff
Tls, sandstone

Bissell Formation

Tlb limestone and (or) dolomite

Tsl, Tst

Tsl, limestone
Tst, tuff

Tf, Tc

Tf, fanglomerate
Tc, conglomerate

Miocene

Tlf, Tlc, Tls, Tll, Tlt, Tlg

Tlf, granitic fanglomerate and sandstone
Tlc, clay shale
Tls, sandstone and clay shale
Tll, limestone and dolomite
Tlt, tuff
Tlg, conglomerate

Pickhandle Formation

Tpt, Tpl, Tpc, Tpb

Tpt, tuff and tuff breccia
Tpl, bed of limestone and chert
Tpc, granitic conglomerate
Tpb, granitic and white rhylolitic

Jackhammer Formation

sandstone and conglomerate

Tropico Group

Igneous/Metamorphic

Qb Black Mountain Basalt

Ta Lane Mountain Andesite

Tbu basalt

Red Buttes quartz basalt

Tb basalt

Td, Tdv

Td, dacite
Tdv, dacite vitrophyre

Tri, Trb, Trp, Tab Opal Mountain Volcanics

Tri, rhyolitic intrusive rocks
Trb, rhyolitic breccia and flow breccia
Trp, rhyolitic perlite
Tab, andesitic breccia

Tid

Tid, intrusive dacite

Mesozoic

Late

f, ql, a, grp, bp, P, P dike rock

f, felsite
ql, quartz latite
a, aplite
grp, complex of granitic and pegmatite-aplite dikes
bp, basaltic porphyry dikes
P, pegmatite
P, pegmatite dikes

Middle

qm, grd, gdp, qd, gr, lqm

qm, quartz monzonite
grd, granodiorite
gdp, granodiorite porphyry
qd, quartz diorite
gr, granite
lqm, leucocratic quartz monzonite

hd hornblende diorite-gabbro

Early

hvp, hvs, hvss, hq Hodge Volcanics

hvp, quartz latite-dacite porphyry
hvs, schistose meta-quartz latite
hvss, sericite and muscovite schist
hq, quartzite

hornblende schist

Paleozoic

Pennsylvanian

ol, ml, mh, mq, mql, mv Oro Grande Formation

ol, dolomitic limestone, in part brecciated
ml, limestone and dolomite marble
mh, calc-silicate hornfels
mq, quartzite
mql, metamorphosed quartz latite
mv, hornfels

wg, wm, wq, wt, q, gn Waterman Gneiss

wg, quartz diorite gneiss
wm, marble
wq, quartzite
wt, garnet tactite
q, quartzite
gn, quartz diorite gneiss

gg, m

gg, granite gneiss
m, white marble