



Twentynine Palms Water District
*Serving the Residents of Twentynine Palms and
unincorporated San Bernardino County*



Groundwater Management Plan Update

Final Report

Kennedy/Jenks Consultants

Engineers & Scientists

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List of Abbreviations

AB 3030	Assembly Bill 3030
AFY	Acre-feet per year
bgs	below ground surface
BMPs	Best Management Practices
CUWCC	California Urban Water Conservation Council
DPH	Department of Public Health
DWR	Department of Water Resources
DWSAP	Drinking Water Source Assessment and Protection
GWMP	Groundwater Management Plan
MCL	Maximum Contaminant Level
mgd	million gallons per day
MSL	Mean Sea Level
MWA	Mojave Water Agency
MWD	Metropolitan Water District of Southern California
PCAs	Potentially Contaminating Activities
RWQCB	Regional Water Quality Control Board
SWRCB	State Water Resources Control Board
TDS	Total Dissolved Solids
USEPA	U.S. Environmental Protection Agency

Section 1: Introduction and Background

This Section provides background information about the Twentynine Palms Water District (District) and Assembly Bill 3030 Groundwater Management Plans. The structure and contents of the remainder of the document are also discussed.

1.1 History and Nature of the Twentynine Palms Water District

The District is located in the high desert of Southern California, approximately 72 miles due east of the City of San Bernardino and 35 miles northeast of the City of Palm Springs. The District service area encompasses approximately 86.6 square miles and includes the City of Twentynine Palms, as shown in Figure 1. The District largely services single-family residences, with some multi-family residential units, commercial properties, and minor light industry. There is no community sewage system and wastewater is disposed of through individual septic tank and tile field disposal systems.

Prior to 1954, the Twentynine Palms area was served by three privately owned water companies: Abell Water Company, Condor Mutual Water Company, and Pacific Water Company. The District was formed in 1954 and immediately purchased the three water companies. Their wells, storage facilities, and piping served as the initial water system for the District.

Potable water is scarce in the District for several reasons:

- The area receives an average of only four inches of annual rainfall.
- There is negligible infiltration of direct precipitation in areas where the alluvial deposits are thick.
- A substantial amount of runoff is lost to evaporation after flowing into the basin.
- Some of the water is unsuitable for drinking water due to naturally-occurring soluble minerals, such as fluoride.

The District is located within the boundaries of three groundwater basins, identified as the Twentynine Palms Valley Groundwater Basin, the Joshua Tree Groundwater Basin, and the Dale Valley Basin by the California Department of Water Resources (DWR) Bulletin 118-03 (DWR, 2004). The District only pumps groundwater from and manages the Twentynine Palms Valley Groundwater Basin and portions of the Joshua Tree Groundwater Basin. The District's portion of the Joshua Tree Groundwater Basin has historically been divided into three sub-basins: Indian Cove, Fortynine Palms, and Eastern. The Twentynine Palms Valley Basin is also known locally as the Mesquite Springs Basin. The basins and sub-basins are shown on Figure 2.

Water provided by the District is derived solely from groundwater pumped from supply wells located along the southern limit of the service area. Currently, the District has nine active potable supply wells, eight in the Joshua Tree Basin and one in the Twentynine Palms Valley Basin. The remaining wells are inactive and/or used for groundwater monitoring. The locations of the District's production wells are shown in Figure 2. Available information indicates that more than 400 private wells have also been constructed within the District's service area. Most of these wells are not currently operated.

Imported water from either the Metropolitan Water District of Southern California (MWD) or the Mojave Water Agency (MWA) does not appear to be a viable option for the District. The District is not within the service area of either agency; MWD's closest facilities are more than 45 miles southwest of the District; and MWA's facilities extend no closer to the District than Yucca Valley, approximately 23 miles west of the District. The District has on two occasions voted against extending imported water service to the District.

Historic pumpage and water deliveries by the District have steadily increased since its formation in 1954. According to the 2005 Urban Water Management Plan, the total water demand in the District was 3,200 acre-feet in 2004, with a projected demand of 3,450 acre-feet in 2010 and 3,760 acre-feet in 2015. (Kennedy/Jenks Consultants, 2005)

1.2 Assembly Bill 3030

Assembly Bill 3030 (AB 3030), also called the Groundwater Management Act (Section 10750 et. seq. of the California Water Code), was intended to provide local public agencies increased management authority over groundwater resources. Any local public agency which provides water service to all or a portion of its service area and whose service areas includes all or a portion of a groundwater basin may adopt a Groundwater Management Plan (GWMP).

The purpose of a GWMP is to outline the role of the District in the management of the local groundwater resource and to develop a management plan that can be implemented by the District to protect the quantity and quality of groundwater within its service area. The GWMP also assesses the current status of the groundwater basin and defines how to best manage the basin under local control.

In addition to AB 3030, the District is also subject to the San Bernardino County Ordinance, approved on 29 October 2002, that gives the County jurisdiction over the management of groundwater in the unincorporated, unadjudicated desert region of San Bernardino County not covered by a GWMP. The San Bernardino County Ordinance is included as Appendix A.

1.2.1 2008 Groundwater Management Plan Update

The 2008 Groundwater Management Plan Update replaces the District's 2001 Groundwater Management Plan to reflect the amendments to California Water Code section 10750 *et seq.*, enacted through passage of SB 1938 (Statutes of 2002, Chapter 603). Section 10750 requires that an agency maintain a GWMP that incorporates the following components to be eligible for state funding from the Department of Water Resources (DWR) (Groundwater Resources Association of California, 2005):

- Include documentation that a written statement was provided to the public “describing the manner in which interested parties may participate in developing the groundwater management plan,” which may include appointing a technical advisory committee.
- Include a plan by the managing entity to “involve other agencies that enables the local agency to work cooperatively with other public entities whose service area or boundary overlies the groundwater basin”. A local agency includes “any local public agency that provides water service to all or a portion of its service area”.
- Provide a map showing the area of the groundwater basin, as defined by DWR Bulletin 118, with the area of the local agency subject to the plan as well as the boundaries of other local agencies that overlie the basin in which the agency is developing a groundwater management plan.
- Establish Basin Management Objectives (BMOs) for the groundwater basin that is subject to the plan.
- Include components relating to the monitoring and management of groundwater levels, groundwater quality, inelastic land surface subsidence, and changes in surface-water flow and surface-water quality that directly affect groundwater levels or quality or are caused by groundwater pumping. Consider additional components listed in Water Code section 10753.8 (a) through (l).
- Adopt monitoring protocols for the above components. Monitoring protocols are not defined in the Water Code, but the requirement is interpreted to mean developing a monitoring program capable of tracking changes in conditions for the purpose of meeting BMOs.

The 2008 Update incorporates the required elements to allow the District to seek state funding from DWR. Additionally, the 2008 Update provides revisions to descriptions of the District's groundwater basins to reflect updates to Bulletin 118 as well updates to the District's current groundwater management activities.

1.2.2 Groundwater Management Plan Preparation and Approval Process

AB 3030 requires that a local agency adhere to a specific procedure in developing and approving a GWMP. This procedure is as follows:

- Conduct a public hearing (noticed as required by Section 6066 of the Government Code) to adopt a Resolution of Intention to draft the GWMP. (This hearing was held on 25 June 2008.)
- Adopt a Resolution of Intention to draft the GWMP. (This occurred on 25 June 2008.)
- Draft the GWMP within two years of the Notice of Intention.
- Conduct second public hearing (noticed as required by Section 6066 of the Government Code) to adopt a Resolution of Intention to approve the GWMP. (The second public hearing was held on 19 November 2008.)
- Following the adoption of the Resolution of Intention, final adoption of the GWMP must be delayed for at least 35 days to allow for the filing of protests against the GWMP. If a majority protest is not filed within 35 days of the second public hearing, the GWMP may be adopted. A majority protest consists of landowners accounting for more than 50 percent of the assessed value of the land within the District.

1.2.3 Contents of the Groundwater Management Plan

This Groundwater Management Plan describes the Basin Management Objectives that are used to define the quantitative goals which guide the management activities of the District's groundwater resources. AB 3030 also defines 12 elements that may be included in a GWMP. These elements are included in this GWMP, as follows:

- Control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas.
- Regulation of the migration of contaminated groundwater.
- Administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.

- Identification of well construction policies.
- Development of relationships with state and federal regulatory agencies.
- Construction and operation by local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling, and extraction projects.
- Review of land use plans and coordination with land use planning agencies to assess activities that create a reasonable risk of groundwater contamination.

1.3 Objectives and Authorization

The objectives of this Groundwater Management Plan are:

- To provide the District with increased management authority over its local groundwater resources.
- To more effectively manage the District's limited groundwater resources.
- To address concerns associated with the County of San Bernardino ordinance, as applicable.
- To achieve these objectives, the District authorized with Kennedy/Jenks to prepare this Groundwater Management Plan Update.

Section 2: Characterization of the Twentynine Palms Valley Basin

This Section provides climatic, geologic, and hydrogeologic information about the District and its groundwater sub-basins. An understanding of the nature of the sub-basins and their groundwater is essential to the development of an effective Groundwater Management Plan.

2.1 Climate

The District is located in the “high desert” areas of Southern California. The weather is arid with average annual rainfall of four inches, most of which occurs during the winter months. Temperatures range from 20°F to 60°F during the winter and from 80°F to 110°F degrees during the summer.

2.2 Geology

Nearly all of the District’s service area is directly underlain by Quaternary alluvium. The alluvium is comprised of fluvial basin-fill deposits consisting of alternating layers/lenses and poorly sorted mixtures of sand, gravel, silt, and clay. The alluvium pinches out near the bounding mountains and increases to an unknown depth, probably in excess of 2,000 feet, near the center of the District. Bedrock beneath the alluvium and outcropping in the mountains of Joshua Tree National Park to the south, Copper Mountain to the west, and on the U.S. Marine Base to the northeast is primarily composed of crystalline igneous and metamorphic rocks types. These rock types typically do not transmit or store significant quantities of groundwater except in highly fractured zones/areas such as along or near major faults or regionally extensive fracture systems. (Haley & Aldrich, 2000)

Several major faults traverse the District. These faults include the Pinto Mountain, Mesquite, Surprise Spring, and Calico Faults. These faults are significant in that they have offset alluvial sediments and have affected the movement of groundwater. The Mesquite Fault is a significant barrier to the easterly migration of groundwater, while the Pinto Mountain Fault also restricts groundwater movement from moving northward. (Haley & Aldrich, 2000) Additionally, an anticline on the northern boundary of the Twentynine Palms Valley Basin acts as a partial barrier to groundwater flow to the south.

The faults also serve to delineate some of the basins. The Pinto Mountain Fault forms the southernmost boundary between the Twentynine Palms Valley and Joshua Tree Basins. The Twentynine Palms Valley Basin is constricted on the East by the Mesquite Fault and on the West by the Surprise Spring Fault.

A geologic map of the District and surrounding area is shown in Figure 3.

2.3 Groundwater

As indicated previously, the District is located within three groundwater basins: Twentynine Palms Valley, Joshua Tree, and Dale Valley. Of these three, the District extracts water from the Twentynine Palms Valley and Joshua Tree basins only. Within the Joshua Tree Basin, the District extracts water from portions of the Indian Cove Sub-basin, the Fortynine Palms Sub-basin, and the Eastern Sub-basin.

Groundwater occurs within the interstitial pore space of the alluvium underlying nearly all the District, in both confined and unconfined conditions. Limited quantities of groundwater also occur in fractures within the bedrock. The majority of the District's wells are in the Indian Cove and Fortynine Palms Sub-basins, with a smaller number in the Eastern Sub-basin. There is one high capacity well in the Twentynine Palms Valley Basin, which will be used to supply water to the Fluoride Removal Water Treatment Plant. The Fluoride Removal Water Treatment Plant is discussed in detail in Section 3.

The depth to groundwater within the District ranges from less than 20 feet along the west side of the Mesquite Dry Lake and Shortz Dry Lake to more than 400 feet in the northwest corner. Water level elevations range from about 1,550 feet above mean sea level (MSL) east of the Mesquite Fault to about 2,400 feet above MSL south of the Pinto Mountain Fault in the southwest corner in the Indian Cove Sub-basin. The predominant natural overall groundwater flow direction is easterly across the District. Groundwater north of the Pinto Mountain Fault in the Twentynine Palms Valley Basin flows easterly toward the Mesquite Fault and the topographic low areas between Shortz Lake and Mesquite Dry Lake. Natural groundwater discharge occurs as evaporation in these low areas along the west side of the Mesquite Fault and probably as some underflow through the fault. (Haley & Aldrich, 2000)

South of the Pinto Mountain Fault, in the Indian Cove, Fortynine Palms, and Eastern Sub-basins, natural groundwater flow is also easterly. However, historical groundwater pumping by the District and private well owners has resulted in localized pumping depressions in the Indian Cove and Eastern Sub-basins. Groundwater flows toward these depressions. (Haley & Aldrich, 2000)

Specific capacity measures the yield of a well, in gallons per minute per foot of water level decline. The specific capacity values for District wells range from a low of 2.4 gpm/ft to 124 gpm/ft. Testing has indicated that aquifer transmissivity in the Twentynine Palms Valley Basin is approximately 80,000 gpd/ft, while an aquifer transmissivity of about 10,000 gpd/ft was observed in the Indian Cove Sub-basin. (Haley & Aldrich, 2000)

2.4 Safe Yield, Overdraft, and Recharge

According to DWR, safe yield is "the maximum quantity of water that can be continuously withdrawn from a ground water basin without adverse effect." (DWR, 1975) A groundwater basin's maximum safe yield is therefore approximately equivalent to or less than the basin's annual net groundwater recharge.

DWR defines overdraft as "the temporary condition of a ground water basin where the amount of water withdrawn by pumping exceeds the amount of water replenishing the basin over a

period of time.” (DWR, 1975) Significant groundwater overdraft has the potential to result in adverse impacts, including ground surface subsidence, degraded water quality, falling water table, and increased pumping costs.

The DWR Bulletin 118-03 estimates total storage capacity of the Joshua Tree Basin to be 2,540,000 acre-feet using an estimated area of 33,800 acres, specific yield of 15 percent, and an average thickness of basin material of 500 feet. This estimate applies to the entire groundwater basin, and not just the area over which the District manages. Groundwater in storage was estimated to be 1,010,000 acre-feet. Actual groundwater extractions in the Joshua Tree Basin are measured by the Joshua Basin Water District. Data suggest that extractions between 1985 and 1995 were over 50% more than natural recharge and that groundwater levels have dropped by an average of 1 foot per year since about 1973. Currently, there is no available data specific to the Indian Cove, Fortynine Palms, and Eastern Sub-Basins which are the portions of the Joshua Tree Basin managed by the District.

Storage capacity of the entire Twentynine Palms Valley Basin, also known locally as the Mesquite Basin, is estimated in Bulletin 118-03 as 1,420,000 acre-feet. The total amount of groundwater available in the basin was estimated to be 132,000 acre-feet in 1984. The basin is considered to be in overdraft, as the estimated annual rate of groundwater depletion is 1,500 acre-feet while recharge is only 300 acre-feet. Additionally, the Colorado River Basin Plan identifies the Twentynine Palms Valley Subunit of the Dale Hydrologic Unit as being an area where overdraft and increase of mineral content (particularly fluoride) of the groundwater are concerns. (California Regional Water Quality Control Board and State Water Resources Control Board, 1994) The District only overlies and pumps from the southern portion of this basin.

Within the Joshua Tree Basin, long-term water level declines in excess of 50 feet are evident south of the Pinto Mountain Fault throughout the Indian Cove and Fortynine Palms Sub-basins. Water level declines of more than 85 feet have occurred near pumping centers of both sub-basins. Long-term historic declines have also occurred in the Eastern Sub-basin near the District's wellfield. These declines have ranges between 20 to 40 feet. Minimal water level declines have been observed north of the Pinto Mountain Fault, within the Twentynine Palms Valley Basin.

Recharge of the groundwater occurs when the limited rainfall in the area percolates through the soil into the aquifer. The primary mechanisms of groundwater recharge are the high-energy surface runoff from the mountains and subsequent infiltration into the mountain-front alluvial fans, and the infiltration of precipitation into fractured bedrock exposed in the mountains. Direct precipitation on the valley floor provides little water to the groundwater system because of adsorption by the soil and subsequent rapid evaporation. Summertime rainstorms over Joshua Tree National Park result in limited recharge for the alluvial fans that extend out to the desert floor. Additionally, a major portion of the runoff collects in the dry lakebeds to the east of the City, where it percolates into the groundwater table. However, the soils in this area are high in fluoride, which is dissolved in the groundwater during percolation. The high fluoride content renders the groundwater unusable for potable purposes without treatment.

Geothermal discharge from major fault systems underlying the sub-basins has occurred for many millions of years and adds a small amount of water to the groundwater system. This water commonly contains high levels of fluoride and can contaminate otherwise potable water from other sources. Consequently, fluoride minerals precipitated by these waters have been trapped

in the thick deposits of clays, which are found dispersed throughout the alluvium in the sub-basins. When there is a significant increase in groundwater flow, as there is near a pumping well, some of this fluoride from the sediment goes into solution producing fluoride levels above state standards.

Some of the groundwater produced and delivered to customers, returns to the sub-basins through infiltration and percolation of irrigation water and of septic tank discharges. Groundwater recharge resulting from return water has the potential to gradually degrade water quality. There are no artificial recharge operations in the District at this time.

The calculation of recharge volume, storage volumes, and safe yields can vary based on the input data and methodology. In 1984, DWR utilized theoretical calculations to calculate volumes in storage and they demonstrated the estimated life for each sub-basin. From this theoretical calculation, overdraft of both Indian Cove and Fortynine Palms Sub-basins should cease if the maximum extraction rate were reduced to approximately 1,400 AF per sub-basin per year. (California Department of Water Resources, 1984)

Some of the data obtained by BCI Geonetics conflicts with DWR's recharge value, particularly for the Indian Cove Sub-basin. Annual recharge for the Indian Cove Sub-basin of 2,500 acre-feet was estimated by using runoff data calculated from the precipitation data for the entire basin over a 29-year period. In 1990, the overdraft was estimated to be 200 acre-feet per year for the Indian Cove Sub-basin. The total calculated volume of groundwater in storage for the sub-basin is 83,000 AF with about 65,000 acre-feet within the lower aquifer (2,000 to 2,200 feet elevation) and only about 18,000 acre-feet within the upper aquifer (above 2,200 feet elevation) (BCI Geonetics, Inc., 1990)

Additionally, BCI Geonetics postulated that the decline in water level in the Indian Cove Sub-basin may be only partially due to overpumping. It is possible that the pumping wells are not receiving recharge from the entire sub-basin because they are isolated from the recharge zones by faults. Additional reasons for groundwater level decline include long-term regional decline, subsidence related to recent tectonics, geothermal circulation, and compartmentalization.

2.5 Water Quality

District groundwater is typically of good quality. There is no known contamination in the District, although there are concerns about high levels of both fluoride and total dissolved solids (TDS) in certain areas of the District. Additionally, the historic and current use of septic systems for wastewater disposal has an effect on groundwater quality.

Septic systems discharge their effluent into constructed permeable leach fields and/or to the shallow soil, where they are treated by biological organisms in the soil and/or degraded by other natural processes over time. Septic effluent is characterized by concentrations of ammonia, chloride, phosphorus, sodium, potassium, boron, volatile organic compounds, and bacteria that are higher than that in the native groundwater. Additionally, groundwater may be contaminated by releases from septic systems when the systems are poorly designed (tanks are installed in areas with inadequate soils or shallow depth to ground water); poorly constructed or sealed; are improperly used, located, or maintained; or are abandoned.

Fluoride concentrations are increased when stormwater runoff percolates through soils high in fluoride, as described in the previous section. Fluoride concentrations range between 0.2 mg/l to 10 mg/l in the District, with the lowest fluoride concentrations present in the area south of the Pinto Mountain Fault and the highest concentrations in the northern half of the District (Haley & Aldrich, 2000). The maximum contaminant level (MCL) allowed by the California Department of Public Health (DPH) for fluoride is 2 mg/l. On 21 January 1993, the Twentynine Palms Water District was granted a variance from the California Primary Drinking Water Standard for fluoride, which states "the District shall not serve water containing fluoride levels in excess of 3.0 milligrams per liter (mg/L) or 75% of the U.S. Environmental Protection Agency Primary Drinking Water Standard (currently at 4.0 mg/L), whichever is higher.". According to the 2006 Consumer Confidence Report on the District website, the variance shall be in effect for a period of up to 30 years from the date of issuance

The TDS content of groundwater within the District ranges from about 100 to 1,200 mg/l. The lowest TDS concentrations occur south of the Pinto Mountain Fault, with a wide range of values occurring east of the Mesquite Fault. Groundwater TDS concentrations typically increase through recharge of septic effluent. (Haley & Aldrich, 2000)

The groundwater south of the Pinto Mountain Fault is bicarbonate type with a low TDS and calcium and sodium as the predominant cations. Groundwater between the Mesquite and Pinto Mountain Faults is also bicarbonate type, with sodium as the primary cation. The central and western portions of the Twentynine Palms Valley Basin have sodium-sulfate type water. East of the Mesquite Fault, the water type varies considerably from sodium-bicarbonate to sodium-sulfate. (Haley & Aldrich, 2000)

2.6 The Basins

As mentioned previously, the District overlays portions of the Indian Cove, Eastern, and Fortynine Palms sub-basins of the Joshua Tree Basin, as well as a portion of the Twentynine Palms Valley Basin. The geology and groundwater characteristics of the sub-basins are similar, as they are contiguous. However, there are some differentiating characteristics among the sub-basins. These are discussed below. As many of the District's existing production wells are located within the Indian Cove Sub-basin, more data are available on this sub-basin than the others.

2.6.1 Twentynine Palms Valley Basin

The Twentynine Palms Valley Groundwater Basin encompasses 97.5 square miles and underlies most of the northern portion of the District's service area (see Figure 2). It is bound to the south by the Pinto Mountain fault, the north by the "transverse arch", the west by the Surprise Spring Fault, and the east by the Mesquite Fault. Water is produced from this basin through the TP1 production well, which provides water for the Fluoride Removal Water Treatment Plant.

The basin underlies an alluvial valley in the southern Mojave Desert below the dry Mesquite Lake and the town of Twentynine Palms. Water-bearing materials in the basin consist of unconfined, unconsolidated to partly consolidated Miocene to Quaternary continental deposits. The most productive water-bearing deposits are interbedded gravels, conglomerates, and silts

deposited in alluvial fan systems. Other, less productive deposits include alluvial channel sands and gravels, active silt, clay, sandy-clay deposits and dune sands. Water-bearing deposits in the basin are up to 10,000 feet in thickness

Groundwater flows generally from west to east toward Mesquite Lake. The Pinto Mountain fault zone acts as a barrier to groundwater flow, and the water level is 100 feet lower in the Twentynine Palms Valley Basin than in the Joshua Tree Basin. The Mesquite fault is also a barrier to groundwater flow, with water levels being 240 feet higher on the eastern border of the Twentynine Palms Valley Basin than in the adjacent Dale Valley Basin. The “transverse arch” on the northern border acts as a partial barrier to groundwater flow to the south, but allows some flow from the Deadman Valley Basin into the Twentynine Palms Valley Basin. Groundwater levels in the basin are generally stable.

Very little data on the depth to bedrock are available for the Twentynine Palms Valley Basin. Water level depths vary widely, ranging from depths of less than 50 feet to more than 400 feet bgs. Water elevations also vary from between 1,700 to 1,850 feet. No water level declines have been observed in the basin. Water quality in the basin is not as good as in the Joshua Tree Basin. Fluoride levels are higher, above 10 mg/l in some places and between 3 and 10 mg/l throughout the rest of the basin. TDS levels vary, with most of the basin having between 500 and 800 mg/l. In some areas of the basin, TDS levels of more than 800 mg/l have been observed. (Haley & Aldrich, 2000)

The District has one high-capacity production well in the Twentynine Palms Valley Basin which is used to supply the Fluoride Removal Water Treatment Plant.

2.6.2 Joshua Tree Basin

The Joshua Tree Groundwater Basin encompasses 53.8 square miles and underlies an area south of the Pinto Mountain fault beneath the town of Joshua Tree, eastward to immediately south of the town of Twentynine Palms. The Basin’s northern area borders to the Twentynine Palms Valley Basin along the Pinto Mountain fault. The southern boundary is exposed consolidated basement of the Little San Bernardino Mountains within Joshua Tree National Park. The western boundary of the basin is coincident with a basement constriction located between the towns of Yucca Valley and Joshua Tree. The eastern boundary of the basin lies along a line extending from the southern tip of the Mesquite fault to a basement outcrop of the Little San Bernardino Mountains.

Like the Twentynine Palms Valley Basin, productive water-bearing materials in the basin also consist of unconsolidated to partly consolidated Miocene to Quaternary continental deposits to a depth of 10,000 feet in thickness. However, because the basin incorporates additional areas of shallower alluvial fill, average thickness is about 500 feet. Also similar to the Twentynine Palms Valley Basin, groundwater in the basin typically occurs in interbedded gravels, conglomerates, and silts deposited in alluvial fan systems.

Groundwater generally flows eastward in the region, and travels northward in the Joshua Tree Basin towards the Pinto Mountain fault, then eastward and possibly discharges through the Pinto Mountain fault into the Copper Mountain Basin. However, the Pinto Mountain fault is a groundwater barrier, with water levels about 125 feet lower in the Copper Mountain Valley Basin

north of the fault than in the Joshua Tree Basin to the south. The constriction that forms the western boundary of the basin appears responsible for an eastward drop in groundwater level of about 400 feet. Data support that water levels in the basin have been dropping by an average of a foot per year since 1973.

2.6.2.1 Indian Cove Sub-basin

The Indian Cove Sub-basin encompasses 20 square miles and is located southwest of the City of Twentynine Palms in the Joshua Tree Basin. It is bounded on the north by the Pinto Mountain Fault, which separates it from the Valley Basin. It is directly west of the Fortynine Palms Sub-basin. Five of the District's production wells are in this sub-basin.

The Indian Cove Sub-basin is a basement-floored alluvial basin, cut by several east-west striking subvertical faults and a steeply dipping northwest striking fault. These faults inhibit groundwater flow perpendicular to the faults. Bedrock consists of Mesozoic quartz monzonite in the west, which has intruded older Mesozoic granite rocks and Precambrian gneissic rocks. These are exposed in the surrounding mountains and undoubtedly extend beneath the Indian Cove Sub-basin. Alluvial sediments within the basin predominantly consist of alluvial fan deposits that interfinger with clay lenses and stream deposits. The sediments are dominated by sand and gravels and they become coarser and more heterogeneous near the mountain fronts. The stream valley rarely floods, suggesting that a significant part of the runoff is infiltrating into the groundwater.

Much of the groundwater flow through the Indian Cove Sub-basin occurs in the easternmost part of the sub-basin since 60 percent of the watershed area drains into this area. Groundwater flowing in this portion of the sub-basin flows primarily along two subsurface bedrock channels that are separated by a basement high.

The depth to bedrock in the Indian Cove Sub-basin varies from 100 to 1,200 feet below ground surface (bgs). Groundwater level depths vary from 173 to 426 feet bgs, while water level elevations measure between 2,100 and 2,400 feet. Water level declines of less than 10 feet have been observed in this sub-basin. (Haley & Aldrich, 2000)

Water quality in the Indian Cove Sub-basin is generally good. Typically, fluoride concentrations tend to increase with increasing groundwater temperature. Regional water temperatures decrease southward; associated higher fluoride concentrations also decrease. Fluoride concentrations are intermediate with respect to regional values, but are generally higher than desired, with fluoride levels in the Indian Cove Sub-basin below 3 mg/l. TDS levels are around 250 mg/l. The Secondary MCL is 500 mg/l. (Haley & Aldrich, 2000)

2.6.2.2 Eastern Sub-basin

The Eastern Sub-basin has the largest watershed and sediment volume of the District's sub-basins. It is located south of the Twentynine Palms Valley Basin and east of the Fortynine Palms Sub-basin. One of the District's production wells is in this sub-basin. Groundwater supplies in the Eastern Sub-basin appear to be limited with most of the flow confined to a shallow zone above or in the bedrock.

The known depth to bedrock in the Eastern Sub-basin varies between 160 and 750 feet bgs. Groundwater depths vary widely from 19 feet to more than 450 feet bgs, while water level elevations show less variation and are typically between 1,900 and 2,000 feet. Water level declines of between 10 and 25 feet have been observed in the Eastern Sub-basin. Water in the Eastern Sub-basin has higher fluoride levels than any of the other sub-basins.

2.6.2.3 Fortynine Palms Sub-basin

The Fortynine Palms Sub-basin is the smallest of the District's sub-basins in volume and watershed. It is separated from the Twentynine Palms Valley Basin on the north by the Pinto Mountain Fault. The Indian Cove Sub-basin lies to the west and the Eastern Sub-basin to the east. Two of the District's production wells are in this sub-basin.

The known depth to bedrock in the Fortynine Palms Sub-basin ranges between 168 and 430 feet bgs. Water level depths range between 176 and 258 feet bgs. Water elevations are typically around 1,950 feet. Water level declines of nearly 50 feet have been observed in the Fortynine Palms Sub-basin. Water quality in the Fortynine Palms Sub-basin is similar to that of the Indian Cove and Eastern Sub-basins, with fluoride levels below 3 mg/l and TDS levels below 250 mg/l. (Haley & Aldrich, 2000)

Section 3: Basin Management Objectives

This section describes the District's Basin Management Objectives (BMOs), which establish specific goals for management of groundwater level, quality, land subsidence, and surface water levels and quality.

3.1 Background

Assembly Bill 3030 (AB 3030), also called the Groundwater Management Act (Section 10750 et. seq. of the California Water Code), was intended to provide local public agencies increased management authority over groundwater resources. Any local public agency which provides water service to all or a portion of its service area and whose service areas includes all or a portion of a groundwater basin may adopt a Groundwater Management Plan (GWMP).

A GWMP must contain Basin Management Objectives that define quantitative goals and thresholds for groundwater level, groundwater quality, inelastic land surface subsidence, and surface water levels and quality. Additionally, a GWMP must contain a monitoring program capable of tracking changes in conditions for the purpose of meeting the BMOs.

3.2 Basin Management Objectives

The goals of the District's GWMP are to provide the District with increased management authority over its local groundwater resources and to more effectively manage its limited groundwater resources. In order to do so, the District must establish BMOs; specific, measurable accomplishments that must be completed to meet the goals. These BMOs establish the water level and water quality conditions that are acceptable in the basin and address conditions that need to be remedied. The following BMOs are proposed for the Twentynine Palms Water District.

- BMO #1 - Minimize long-term drawdown of groundwater levels
- BMO #2 – Maintain groundwater quality
- BMO #3 - Monitor and track groundwater levels, quality, and storage
- BMO #4 - Reduce water consumption through water conservation
- BMO #5 - Facilitate groundwater replenishment projects
- BMO #6 – Identify and obtain funding for groundwater projects

3.2.1 BMO #1 - Minimize Long-Term Drawdown of Groundwater Levels

The District overlies two groundwater basins, the Joshua Tree and Twentynine Palms Valley Basins. Within the Joshua Tree Basin are three sub-basins, the Indian Cove, Fortynine Palms,

and Eastern Sub-basins. Long term water declines in the Joshua Tree Basin have been observed. The District has historically used only these three sub-basins for groundwater production.

- The Eastern Sub-basin only provides water through a single well and is rarely used due to the high fluoride concentrations.
- The Fortynine Palms Sub-basin is also impaired by declining water levels, with historical declines of about 10 feet per year.
- Groundwater levels in the Indian Cove Sub-Basin are currently increasing.
- In the past, water was not produced from the Twentynine Palms Valley Basin due to high fluoride concentrations.

3.2.2 BMO #2 – Protect Groundwater Quality

Groundwater in the Joshua Tree and Twentynine Palms Valley Basins is typically of good quality. There is no known contamination in the District, although there are concerns about high levels of both fluoride and total dissolved solids (TDS) and the use of septic systems for wastewater disposal in certain areas of the District.

It is the intent of the District that use of groundwater by member agencies in the basin is not hindered by contamination, and that such use does not cause degradation of the quality of the resource. The unconfined aquifers of the Joshua Tree and Twentynine Palms Valley Basins are subject to impact from the quality of water infiltrating from the surface. Once water quality has been compromised, the resource may be subject to loss of use or expensive water treatment processes.

3.2.3 BMO #3 - Monitor and Track Groundwater Levels, Quality, and Storage

In order to continue to analyze current groundwater conditions and track changes in the groundwater basin resulting from active management activities, the District will maintain regular groundwater level and quality monitoring to improve the understanding of groundwater level fluctuations, potential impacts to groundwater quality, and changes in groundwater storage across the three sub-basins of interest. Changes to groundwater storage will be accounted for by tracking groundwater levels. The District currently conducts water quality monitoring per California Department of Public Health standards which is sufficient for the purpose of tracking changes in the groundwater basin.

3.2.4 BMO #4 - Reduce Water Consumption Through Water Conservation

Better management of the District's groundwater supplies alone does not provide a complete solution to declining water levels in the District's service area. The District does not have access to imported water sources, and is restricted in its ability to recharge its basins. While the

District's residential water use is relatively low at 0.31 AFY per household, savings in residential water use could be accomplished through additional conservation efforts. The District could implement more aggressive water conservation efforts and consider participation in the CUWCC programs for water conservation in order to reduce demand for groundwater resources and pumping in the region.

3.2.5 BMO #5 - Facilitate Groundwater Replenishment

In order to reduce groundwater overdraft, the amount of recharge experienced by the District's sub-basins could be increased through "artificial recharge." Since the District does not have access to imported surface or recycled water sources, the only source of water for replenishment is the impoundment or collection of runoff. Therefore, groundwater replenishment should be increased by maximizing the use of the only source of recharge available (precipitation) by providing recharge enhancement.

3.2.6 BMO #6 - Identify and Obtain Funding for Groundwater Projects

Adequate funding is a key element in sustaining long-term groundwater management. Therefore, the District intends to develop a strategy for long-term funding including the pursuit of local, state and federal grants and loans.

Section 4: Basin Management Strategies

The following groundwater management strategies have been identified as having the potential for improving the management of the Joshua Tree and Twentynine Palms Valley Basins. The strategies are grouped below relative to the BMOs for direct reference to the relevant BMO.

4.1 Strategies to Minimize Long-Term Drawdown

The District overlies two groundwater basins, the Joshua Tree and Twentynine Palms Valley Basins. Within the Joshua Tree Basin are three sub-basins, the Indian Cove, Fortynine Palms, and Eastern Sub-basins. Long term water declines in the Joshua Tree Basin have been observed. The District has historically used only these three sub-basins for groundwater production.

BMO #1 addresses the minimization of long-term drawdown of groundwater levels in the Joshua Tree and Twentynine Palms Valley Basins. The following strategies present measures to potentially address BMO #1.

4.1.1 Inter-basin Balancing of Production

The District currently draws groundwater from among four sub-basins. Several of these sub-basins are experiencing greater evidence of overdraft than others. The District continually monitors groundwater levels and quality and makes operational adjustments to best distribute water to meet demand among the four sub-basins. For example, if evidence of quickly declining water levels appears in one basin, demand can be shifted to a different sub-basin and natural (or artificial) recharge can be allowed to replenish the sub-basin. Effective practice of this balancing technique is heavily dependent on regularly monitoring the situation in the basins (see Section 10) and making the necessary operational changes in response to the data.

The District has shifted groundwater production from the heavily-overdrafted Indian Cove and Fortynine Palms Sub-basins to the Twentynine Palms Valley Basin to help stabilize dropping water levels and will be investigating the possibility of shifting even more production to the Twentynine Palms Valley Basin.

4.1.2 Infrastructure Improvements

To better manage groundwater resources, the District brought two new reservoirs and three booster stations online in late 2007. This has allowed the District greater flexibility in operating wells to manage water quantity and quality issues.

The District has already made strides toward balancing demands on the various sub-basins with construction of the Twentynine Palms Fluoride Removal Water Treatment Plant, which currently pumps 1 MGD from the Twentynine Palms Valley Basin. The plant removes fluoride to levels below the MCL, allowing it to be used for drinking water. With the operation of the Fluoride Removal Water Treatment Plant, a portion of the District's water demand can be shifted away from the Joshua Basin to the Twentynine Palms Valley Basin. Since the Fluoride Removal

Water Treatment Plant came online, water declines in the Fortynine Palms sub-basin have slowed to approximately 5 feet per year. Currently, the Fluoride Removal Water Treatment Plant produces 1 MGD, 7 days per week. The plant will ultimately have 3 mgd capacity and also includes the flexibility to remove arsenic and radon, if it becomes necessary to do so.

4.1.3 Investigate Increased Use of Twentynine Palms Valley Basin

The District plans to initiate a groundwater study of the Twentynine Palms Valley Basin within the next five years to determine the effects of increased pumping on the basin. This Basin has not been previously tapped for water supply because of water quality concerns, particularly fluoride, which prevented the water from being used without treatment. The District believes that it may be possible to shift additional water production from the Joshua Tree Basin to the Twentynine Palms Valley Basin in order to stabilize water levels within the Joshua Tree Basin. The results of this study will be used to determine whether or not the District can manage its groundwater basins by shifting supply from the heavily-used Joshua Basin to the less-utilized Twentynine Palms Valley Basin.

The District plans to investigate the effects of the pumping from the Twentynine Palms Valley Basin and will have funds in the 2008/2009 budget to implement this in an update of the 1992 Water Facilities Master Plan. The District will monitor whether pumping in the Twentynine Palms Valley Basin is causing water level declines or other evidence of overdraft. If water levels remain stable, constructing additional wells in the Twentynine Palms Valley Basin and expanding the Fluoride Removal Water Treatment Plant may be viable. Because of potential water quality concerns in this sub-basin, before constructing additional wells a complete assessment of all available subsurface information should be performed, including well logs, chemistry, and water levels. This will allow the preparation of a step-by-step characterization strategy that is cost-effective and provides sufficient information about whether the sub-basin is viable for expanded development of usable groundwater.

4.2 Strategies to Protect Groundwater Quality

Groundwater in the Joshua Tree and Twentynine Palms Valley Basins is typically of good quality. There is no known contamination in the District.

BMO #2 addresses the protecting groundwater quality in the Joshua Tree and Twentynine Palms Valley Basins. The following strategies present measures to potentially address BMO #2.

4.2.1 Mitigation of Fluoride and Total Dissolved Solids

There are concerns about high levels of both fluoride and total dissolved solids (TDS) in certain areas of the District. The following activities would help to address any potential future water quality concerns:

- Minimizing overdraft to prevent migration of saline water. (See Section 8.)
- Avoiding well construction near areas of high salinity.

- Evaluate monitoring program data to identify water quality trends.

4.2.2 Fluoride Removal Water Treatment Plant

The District has built the Twentynine Palms Fluoride Removal Water Treatment Plant in the Twentynine Palms Valley Basin to remove fluoride from the groundwater to levels below the State MCL of 2 mg/l. Because the fluoride is naturally occurring, treatment is the most practical and effective means to achieve drinking water quality standards. While this does not prevent the increase in salt content of the groundwater, it does protect the quality of drinking water received by the consumer.

4.2.3 Vulnerability Analysis

California's Drinking Water Source Assessment and Protection (DWSAP) Program was developed by the California Department of Health Services to protect the state's public water systems and includes both a source water assessment and wellhead protection program. The District completed assessment of its groundwater wells in 2002 to identify Potential Contaminating Activities (PCA's) and indicated that the geology of the area places most of the District's wells in the moderate category (moderately vulnerable). The District currently receives information from the City of Twentynine Palms regarding potential future land development which it uses to determine if the projects represent a PCA. This process provides effective protection from the limited PCAs present in the District.

As part of the DWSAP, the District should identify which wells are located within an unconfined aquifer. Wells in an unconfined aquifer would benefit from the designation of wellhead protection areas. The wellhead protection areas would have a radius sufficient to protect the well, such as that determined using the DWSAP's calculated fixed radius method. Once the size and location of the wellhead protection areas have been determined, this information must be coordinated with local planning agencies to prevent the siting of potentially contaminating activities within the wellhead protection areas.

4.2.4 Conduct Groundwater Quality Studies

The monitoring currently conducted by the District is sufficient to provide a clear picture of the basins and sub-basins under their management. Vertical water quality profiling will be used in new wells for increasing understanding of the basins, starting with a new Fluoride Removal Water Treatment Plant well currently undergoing environmental documentation and design.

Potential sources include infiltration from playa lakes and deep sources within movement into the basin alluvial aquifer along faults. Vertical water quality profiling involves chemically profiling of periodic samples from a new well being drilled. With the information gained through profiling, wells can be better designed to block off the source of poor quality water by sealing selected intervals during drilling, plugging the bottom of a hole, or building better surface seals.

4.3 Continue Groundwater Monitoring Program

BMO #3 recommends the continued implementation of the groundwater management program by the District for the Joshua Tree and Twentynine Palms Valley Basins. The District will incorporate all future and historical data from its monitoring activities into a single database. An effective GWMP must incorporate a database that will allow data to be collected and analyzed efficiently. At a minimum, this database will collect the following parameters:

- Static and pumping water levels
- Water extractions
- Water quality constituents

Effective groundwater management also requires that collected data be evaluated regularly to determine the status of the basins. Collected data can be used to generate analytical tools for decision making, such as hydrographs, graphs of chemical constituents, contour maps of water levels and water quality, groundwater models, and basin yield evaluations. This information must be made available to stakeholders and decision-makers through a regular, scheduled reporting process. The District will produce annual reports which will contain up-to-date monitoring data, a brief analysis of the data, and description of the status of the basins, in order to facilitate the groundwater management process.

4.4 Implement Water Conservation Measures

BMO #4 addresses the implementation of water conservation measures by the District. The following strategies present measures to potentially address BMO #4.

Increased water conservation would reduce demand on the local sub-basins. According to the 2005 Urban Water Management Plan, the District has implemented water conservation efforts through public education and outreach. Currently, the District produces a brochure and distributes it through new customer information packages and water bills. Outreach is also conducted at local schools where speakers and educational materials regarding water conservation are provided in conjunction with District participation in poster contests and Earth Day activities. Additionally, the District completed a pipeline replacement program in 2004, to replace aging infrastructure and reduce system water loss.

Additional avenues are available to achieve increased levels of water conservation. The Best Management Practices (BMPs) contained in the Memorandum of Understanding Regarding Urban Water Conservation in California (MOU) and the resources available from the California Urban Water Conservation Council (CUWCC) for agencies that sign the MOU could help the District's customers conserve water. Measures include water fixture and appliance rebate programs as well as water surveys, audits and numerous other programs.

Over the past year the California water picture has changed dramatically. Recent Delta related court rulings that have reduced imported water deliveries to Southern California, which combined with an extended drought on the Colorado River has put extreme strain on the State's water resources, with impacts felt particularly in Southern California. This has translated into an increased focus on water conservation at the State policy level and continuing developments

even as this report is being written. Three developments that have significant implications for the strategies outlined in this report are:

- AB 1420, passed in 2007, requires water purveyors to implement all locally cost effective BMPs in order to be eligible for State Grant Funding. Water conservation programs and levels of implementation must be fully described in all Urban Water Management Plans submitted to DWR.
- The CUWCC has embarked upon a significant revision of the Urban MOU and existing BMPs and is also planning to propose new ways of implementing BMPs.
- The Governor has issued a mandate to reduce per capita water use 20 percent by 2020.

Thus the conservation paradigm in California is likely to change significantly in the next five years.

The District may wish to consider signing the MOU and implementing conservation measures contained in the MOU (as locally cost-effective). This would have the added benefit of assisting the District with preparation of significant portions of its Urban Water Management Plan (UWMP) updates.

4.5 Evaluate Potential Groundwater Replenishment Facilities

BMO #5 recommends the evaluation of potential groundwater replenishment project in the Joshua Tree and Twentynine Palms Valley Basins. Recharge enhancement is accomplished by constructing facilities such as berms that will slow down runoff and increase infiltration rates, wetted surface area, and contact time of flood runoff. These structures increase the potential for the available precipitation to reach the groundwater system. Recharge enhancements may be viable in both the Indian Cove and Fortynine Palms Sub-basins, with this additional recharge potentially increasing the yield and/or reducing the overdraft in these basins.

4.6 Identify Funding Sources for Groundwater Projects

BMO #6 recommends an evaluation to identify potential funding sources for future groundwater projects. This section identifies various funding sources and their associated requirements and guidelines, to assist with implementation of recharge projects and programs. Table C-1 in Appendix C provides a summary of some of the available, identified funding opportunities, divided into local, state, and federal funding sources.

4.6.1 Local

Local sources of funds may include: water and wastewater general funds, capital improvement funds, general funds from local Cities, County departments, private organizations, member dues, and user fees. Local taxpayers may also fund these projects through rate increases, bond measures, and tax increases.

- Capital Improvements Program Funding (Revenue Bonds, Certificates of Participation)
- Property Tax Assessment (Assessed Valuation)
- User Fees

4.6.2 State

Potential funding for groundwater recharge programs may be available through various State programs, including Propositions 84, 1E, and 50. The discussion below and Table C-1 provide information on State funding opportunities.

- Proposition 84
- Integrated Regional Water Management Planning
- Department of Public Health - Emergency and Urgent Water Protection
- Department of Public Health - Small Community Drinking Water Infrastructure
- Department of Public Health – Prevention of Groundwater Contamination
- State Water Resources Control Board – Storm Water Grant Program
- Proposition 1E
- Proposition 50
- Department of Public Health – Water Security
- Department of Public Health - Water System Monitoring Facilities
- Department of Public Health - Drinking Water Source Protection
- Department of Public Health – Byproduct Treatment Facilities
- Department of Public Health - Small Community Water System Facilities
- Department of Public Health - Contaminant Treatment and Removal
- Department of Public Health – Contaminant Removal
- Department of Public Health – UV and Ozone Disinfection
- Department of Water Resources – Water Use Efficiency Grants
- State Revolving Fund
- State Water Resources Control Board – Federal 319 Program
- State Water Resources Control Board – Water Recycling Funding Program
- Department of Water Resources – Local Groundwater Assistance Program
- State Department of Housing and Community Development – Community *Development Block Grant Program*
- Pending State Legislation

4.6.3 Federal

This section includes a discussion of some of the funds available through various federal programs and specifies eligibility requirements. A summary of potential federal funding sources is provided in Table C-1.

- Environmental Protection Agency, Source Reduction Assistance
- Environmental Protection Agency, Wetlands Program Development Grants
- National Park Service, Rivers, Trails, and Conservation Assistance (RTCA) Program
- Natural Resources Conservation Service, Watershed Protection and Flood Prevention Grant
- US Bureau of Reclamation, Challenge Grant Program
- US Department of Agriculture, Water and Waste Disposal Program
- US Fish and Wildlife Service, North American Wetlands Conservation Act Grant
- Federal Legislation

Section 5: AB 3030 Technical Components

Water Code Section 10753 provides a list of 12 examples of groundwater basin issues that may be considered in an AB3030 GWMP. These examples serve as a checklist to ensure that major groundwater basin issues are addressed. The issues are listed below, followed by an explanation of the relationship between each issue and the management strategies proposed in this GWMP.

5.1 Control of High-Salinity Waters

The District is located sufficiently distant from the Pacific Ocean that sea water intrusion as a result of groundwater pumping within the District is not a concern. However, other sources of saline water exist may impact the quality of District groundwater, including the following:

- Increase in salt content of percolating irrigation or surface recharge water caused by dissolution of minerals from native earth materials. In the District, fluoride is the most common mineral of concern.
- Increased salinity in the groundwater and surface water recharge in areas near historic dry lakes.

Areas near historic dry lakes, such as Mesquite Dry Lake and Shortz Dry Lake, tend to have higher salinity contents in both the groundwater and surface water. The District's groundwater supplies do not appear to be suffering from this phenomena and no action is recommended at this time.

5.2 Identification and Management of Wellhead Protection Areas and Recharge Areas

The purpose of a recharge and wellhead protection area is to establish a protective zone around wells, well fields, and recharge areas to protect groundwater sources from contamination, eliminating the need for costly treatment to meet drinking water standards. The State has a formal wellhead and recharge protection program as part of the California Department of Health DWSAP Program, which is being incorporated into the District's DWSAP Program. The District is active in efforts to protect groundwater sources, and recently worked with a developer, the City, and the Regional Water Quality Control Board (RWQCB), Colorado River Region, to require a housing tract development to incorporate a packaged treatment plant in order to protect water resources.

The District's DWSAP was completed in 2002 and indicates that the geology of the area places most of the District's wells in the moderate category (moderately vulnerable). This is because the District's wells are largely in unconfined aquifers. The DWSAP also indicates that very few PCAs are located near the District's wells. PCAs that are located near the District's wells including roads and streets, wells (drinking water and/or monitoring), and golf courses, which are mostly lower risk uses than industrial facilities.

Another aspect of recharge protection is the potential loss of recharge areas due to residential, commercial, or industrial development. Protection is typically accomplished by managing the land use activities occurring within the protection area. As the District is not directly responsible for land use decisions, management must be accomplished through joint efforts with the appropriate land use planning agency. This issue is discussed in Section 5.12.

5.3 Regulation of the Migration of Contaminated Groundwater

Contamination can render the groundwater unusable for agricultural or municipal purposes. The responsibility for regulating and controlling the migration and cleanup of contaminated groundwater rests with various County, State, and Federal agencies, including the County of San Bernardino Fire Department, Hazardous Materials Division, and the Regional Water Quality Control Board (RWQCB), Colorado River Region. No contaminated groundwater from surface land uses has been identified in the District's service area to date and the District has few uses that are potential sources of contamination.

The District does have groundwater with concentrations of undesirable natural constituents that exceed their respective MCLs, such as fluoride, TDS, and boron. It is not practical for the District to actively decrease the high natural concentrations of these constituents.

5.4 Administration of a Well Abandonment and Well Destruction Program

Available information from the California Department of Water Resources, United States Geological Survey, and CDWR, and the District indicate that more than 400 private wells have been constructed within the District's service area. Most of these wells are not currently operated. The District has field located and inspected approximately 250 (60 percent) of the private wells.

The continued presence of unusable wells creates several concerns. Older wells were often screened or perforated over a long depth, allowing vertical communication between various water bearing zones leading to mixing of poor and good quality groundwater and interzonal movement of pollutants. Rusting, corrosion, and caving can compromise the integrity of the well casing. In addition, older wells may lack the concrete sanitary seals that are standard today. These wells are potential conduits for pollutants at ground surface to enter groundwater and a surface hazard to people and animals.

To reduce the risk of groundwater pollution, all District and private wells not anticipated to be used in the future should be properly abandoned and destroyed. California Well Standards, Bulletin 74-81, and its supplements, provide minimum standards for well abandonment and destruction. The County of San Bernardino Public Health Department determines how those standards are implemented within the County. For example, there are several methods of well abandonment and destruction in the Well Standards; the County would make a determination as to whether a more or less involved method is appropriate for the particular well. Additionally, the County does require a permit for all well construction and destruction activities. These permits are required for activities within both incorporated and unincorporated areas of the County.

The District currently adheres to these minimum well abandonment and destruction standards for its own wells. In addition to abandoning and destroying unusable wells, the District will also strive to educate private well owners within the District of the need for proper well abandonment and their responsibility under the law.

The District should improve public awareness and education about well abandonment and destruction requirements by producing a brochure briefly outlining the importance of proper well abandonment and providing contact information, such as a phone number and website address, for how to obtain more information about the requirements and how to comply with them. This brochure could be included as a “bill stuffer” or made available at local public libraries, city hall, and post offices to reach private well owners who are not District customers.

Additionally, the District should include aquifer protection as part of a school outreach program. While the in-class discussion would need to be more basic in terms of why it is important to protect the aquifer, brochures can be made available for students to bring home to their parents.

5.5 Mitigation of Conditions of Overdraft

Several publications indicate that overdraft is occurring within the Twentynine Palms Valley Groundwater Basin. Bulletin 118, published by DWR, identifies the Twentynine Palm Valley Basins as having evidence of overdraft. Similarly, the Colorado River Basin Plan identifies the Twentynine Palms Valley Subunit of the Dale Hydrologic Unit as being an area where overdraft is a concern. In addition, long-term water level declines have been observed in the Indian Cove, Fortynine Palms, and Eastern Sub-basins. Some of these water declines are in excess of 50 feet. Finally, recharge calculations have indicated that more groundwater is being pumped than is being recharged during an average year. Overdraft is discussed in greater detail in Section 2.4.

The District does not have access to surface or imported water sources, therefore the options for mitigating conditions of overdraft are limited. The following recommendations may be viable for the District.

5.6 Replenishment of Groundwater Extracted by Water Producers

Groundwater extracted from the sub-basins is currently replenished solely by natural recharge mechanisms. Mechanisms of recharge are discussed in more detail in Section 2.4.

In order to reduce groundwater overdraft, the amount of recharge experienced by the District's sub-basins could be increased through “artificial recharge.” Since the District does not have access to imported surface or recycled water sources, the only source of water for replenishment is the impoundment or collection of runoff. Therefore, groundwater replenishment should be increased by maximizing the use of the only source of recharge available (precipitation) by providing recharge enhancement.

5.7 Monitoring of Groundwater Levels and Storage

A strong groundwater management program includes the monitoring of both water levels and water quality. Monitoring of water levels can help to determine the effects of recharge and extraction activities and to estimate the quantity of groundwater in storage. Using the results of groundwater level monitoring, extraction and recharge activities can be modified to optimize groundwater use. Monitoring of groundwater quality can be used to detect changes in water quality resulting from manmade contamination or natural phenomena.

5.8 Facilitating Conjunctive Use Operations

Because the District does not have access to imported or local surface water supplies, conjunctive use is not a viable option at this time. Should the District gain access to imported water supplies, a conjunctive use program could be initiated, using a combination of existing and possibly new facilities.

5.9 Identification of Well Construction Policies

Improperly constructed wells can result in poor yields and contaminated groundwater. Wells that are improperly constructed can serve as conduits allowing contamination from the surface or shallow aquifers to migrate into the groundwater. A properly constructed well can also minimize contaminant migration between aquifers. Sections 13700 through 13806 of the California Water Code require all water wells to meet certain minimum standards. DWR Bulletins 74-81 and 74-90 describe these minimum standards.

All District groundwater extraction, injection, and monitoring wells and all piezometer wells will be constructed according to applicable county and state, including DPH, regulations. Minimum state standards are specified in DWR Bulletin 74-90. Well drilling contractors will possess an active C57 (Water Well Drilling) Contractor's license. Well construction activities will be observed and inspected by District personnel.

The construction of private wells in the District is not within the District's jurisdiction. The County is responsible for enforcing well construction standards for these types of wells.

5.10 Development of Relationships with State and Federal Regulatory Agencies

The management of District groundwater resources requires establishing and maintaining communication with the following state and federal regulatory agencies:

- State Water Resources Control Board (SWRCB).
- Regional Water Quality Control Board (RWQCB) – Colorado River Region.
- California Department of Water Resources (DWR).
- U.S. Environmental Protection Agency (USEPA).

The District has already established strong working relationships with DPH, DWR, and USEPA through various past projects, including loans and grant funding for the repiping program and the Fluoride Removal Water Treatment Plant in the Twentynine Palms Valley Basin. The District will continue to report to and communicate with these agencies, as required by law. Additionally, the District will continue to pursue grant and loan opportunities to help fund improvements and programs to better manage its groundwater resources through programs offered by these agencies.

5.11 Construction and Operation of Groundwater Contamination Cleanup, Recharge, Storage, Conservation, Water Recycling, and Extraction Projects

5.11.1 Groundwater Contamination Cleanup

As discussed in Section 2, the District does not have any known groundwater contamination problems and, therefore, does not have the need to construct or operate any groundwater contamination cleanup projects.

5.11.2 Recharge

District should investigate the feasibility of implementing a recharge enhancement program. This program would involve the construction of berms to allow increased percolation into the aquifer. These facilities would likely be designed by an outside consultant, constructed by a contractor, and operated and maintained by District staff. Since this concept is in the preliminary and conceptual stages, detailed information about its construction and operation cannot be provided at this time.

5.11.3 Storage

The District has several reservoirs for system storage, which enable the District to provide adequate service for peak demands plus fire flow and emergency reserve. The District regularly evaluates its distribution and storage network through preparation of a Water Facilities Master Plan. As part of this process, the need for new improvements including additional storage capacity is evaluated and a capital improvement program is developed in order to construct the necessary improvements. Existing storage facilities are operated and maintained by District staff. There are no plans for any large-scale storage projects or conjunctive use/groundwater storage facilities at this time.

5.11.4 Conservation

The District utilizes public outreach to promote conservation, specifically water conservation brochures available through the District and distributed in new customer packages and water bills, as well as through speakers and events conducted at local schools which include poster contests and involvement in earth day activities. Additional water conservation measures are addressed through BMO #4 and the current and planned water management strategies targeting conservation and water savings are described in sections 3.2.4 and 4.4.

5.11.5 Water Recycling

The District does not have a municipal sewer system or a wastewater treatment plant. Therefore, at this time there are no opportunities for water recycling or programs that deal with recycled water.

5.11.6 Extraction

Like storage facilities, the need for additional extraction facilities is evaluated as part of the Master Plan process and wells are incorporated into the capital improvements program. District staff operates and maintain the wells.

5.12 Development of Land Use Plans and Coordination with Land Use Planning Agencies to Assess Activities that Create a Reasonable Risk of Groundwater Contamination

Good land use planning can help to prevent or minimize the effects of several potential groundwater-related concerns, including activities that pose a risk of groundwater contamination and the development of areas with impervious surfaces, reducing groundwater recharge. Common land use planning techniques for the protection of groundwater quality and quantity include the development of land use controls and well drilling and abandonment codes.

The District does not have jurisdiction over land use planning. Land use planning is the responsibility of the City of Twentynine Palms for areas within the City boundaries and its Sphere of Influence and San Bernardino County for the unincorporated portions of the District. The District can work with local land use planning agencies, including the City of Twentynine Palms and San Bernardino County, to minimize land use activities that have the potential to contaminate groundwater. However, Senate Bills 610 and 221 amended state law, effective 2002, to improve the link between information on water supply availability and certain land use decisions made by cities and counties for certain defined projects. These statutes require detailed information regarding water availability to be provided to city and county decision-makers prior to approval of specified large development projects. To provide that information, the governing body of the water agency that will serve the development must adopt an SB 610 Water Supply Assessment (WSA). Both statutes also require this detailed information be included in the administrative record that serves as the evidentiary basis for an approval action by the city or county on such projects. Should a future developer suggest that the District is the future water supplier for any proposed development, it may become the responsibility of the District to not only approve the WSA, but show how it will serve the development now and into the future while still continuing to meet current and proposed future demands.

Land use in the City of Twentynine Palms is governed by the City of Twentynine Palms General Plan, updated in 2000/2001. The City Planning Department is responsible for implementing the General Plan. One of the policies of the City's General Plan is to "Maintain a consistent level of quality water service by working with the Twentynine Palms Water District while minimizing any impacts of land development on the existing system."

Land use in the unincorporated portions of the District is governed by the County of San Bernardino General Plan, updated in 2007. The County Land Use Services responsible for administering the General Plan. The County's General Plan addresses water supply issues and includes the following water-related policies:

- Recognize the jurisdiction and authority of all agencies providing water service within the County with consideration given to the County's diverse geographic region.
- Coordinate with all agencies providing water service and protection to achieve effective local and regional planning to:
 - Promote cooperation and sharing of information.
 - Provide mutual assistance in regional projects.
 - Keep members informed of projects and activities.

Although land use planning will be coordinated with local and state agencies, it is important to note that there are few current or anticipated future uses in the District that pose a reasonable risk of groundwater contamination. The District includes little or no industrial uses, no mining, very little agriculture, and minimal petroleum activities. The activities in the District that may be potential sources of contamination include RV parks, gas stations, and golf courses. The risk that these activities pose to the District's groundwater sources is being assessed as part of the District's DWSAP, as described in Section 4.2.3.

Additionally, the District coordinates with both the City and County by using General Plan information to provide the foundation for land use and population projections for its Water Master Plan. The District's current Master Plan was prepared in 1992, with an update in 1995. The District will continue to update its Master Plan periodically, approximately every 10 years.

As part of developing a wellhead protection area program, as described in Section 5.2, it is essential that the designated wellhead protection areas are communicated to the local land use planning agencies, namely the City of Twentynine Palms and San Bernardino County, and that the land use planning agencies agree to make the necessary modifications to their zoning and/or general plans to prevent any potentially contaminating activities from being sited within the wellhead protection areas.

Section 6: Groundwater Monitoring Program

This section describes the District's current and planned groundwater level and quality monitoring efforts.

6.1 Existing Groundwater Monitoring

The District currently has a groundwater monitoring program. The main purpose of this program is to provide long-term tracking of groundwater storage and quality, identify trends, and trigger management steps to protect groundwater quality and quantity.

The District currently operates nine production wells and 17 monitoring wells. According to the 2005 UWMP, between the years 2000 and 2004, the District's annual groundwater pumpage averaged 3,240 acre-feet per year.

Available information from the California Department of Water Resources, United States Geological Survey and the District indicate that more than 400 private wells have been constructed within the District's service area. Most of these wells are not currently operated. The District has field located and inspected approximately 250 (60 percent) of the private wells.

Historical pumping data from private wells are not available. However, the District's historic service connection delivery rates suggest that when active, private wells may have averaged between 350 to 500 gallons per day per residential unit. Assuming that half of the private wells may have been active during any one year, the maximum private well pumpage for any given year was probably on the order of 25 to 35 million gallons.

Groundwater static levels and pumping levels are monitored on a monthly basis for all production wells. Groundwater quality monitoring for fluoride and arsenic is conducted monthly and monitoring for other constituents occurs according to the requirements set by California Department of Public Health (DPH) Drinking Water Monitoring Schedule for all production wells. The Fluoride Removal Water Treatment Plant monitoring wells are also monitored on a monthly basis and various District wide monitoring wells are monitored on a quarterly basis. These levels are collected on a time schedule each month to ensure consistent data collection. All groundwater level records are kept at the District's office. No water quality monitoring is currently being collected for monitoring wells.

The following table shows the monitoring frequency for District production and monitoring wells. The locations of District production wells are shown in Figure 2. The Drinking Water Monitoring Schedule is included as Appendix B.

Additionally, the District has compiled past monitoring data – from both District and private wells – into a single document the “Baseline Report, Compilation of Groundwater and Wells Information within the Twentynine Palms Water District Service Area”, which is continually updated with data from additional private wells. This single report includes all of the groundwater data – both water quality and water level data – that are available within the District service area and provides a strong historical database of groundwater information for the

District. In 2002, the District completed an assessment of its wells under the DWSAP Program for the California Department of Public Health, described in detail in Section 4.2.3.

TABLE 6.1 – Groundwater Monitoring Program well locations and sampling frequencies.

Well	Type	Basin	Monitoring Frequency		
			Level	Quality (Fluoride, Arsenic)	Quality (Other Constituents)
1	Non-potable	Eastern	-	-	-
2	Monitoring	Eastern	Quarterly	N/A	N/A
4	Active	Fortynine Palms	Monthly	Monthly	Per Drinking Water Monitoring Schedule
6	Active	Indian Cove	Monthly	Monthly	Per Drinking Water Monitoring Schedule
7	Inactive	Indian Cove	N/A	N/A	N/A
8	Monitoring	Indian Cove	Monthly	N/A	N/A
9	Active	Indian Cove	Monthly	Monthly	Per Drinking Water Monitoring Schedule
10	Inactive	Indian Cove	N/A	N/A	N/A
11	Active	Indian Cove	Monthly	Monthly	Per Drinking Water Monitoring Schedule
12	Active	Indian Cove	Monthly	Monthly	Per Drinking Water Monitoring Schedule
13	Inactive	Fortynine Palms	N/A	N/A	N/A
14	Active	Fortynine Palms	Monthly	Monthly	Per Drinking Water Monitoring Schedule
15	Active	Indian Cove	Monthly	Monthly	Per Drinking Water Monitoring Schedule
16	Active	Eastern	Monthly	Monthly	Per Drinking Water Monitoring Schedule
18	Monitoring	Twentynine Palms	Quarterly	N/A	N/A
03B	Inactive	Fortynine Palms	N/A	N/A	N/A
M#1	Monitoring	Twentynine Palms	Monthly	N/A	N/A
M#2	Monitoring	Twentynine Palms	Monthly	N/A	N/A
M#3	Monitoring	Twentynine Palms	Monthly	N/A	N/A
N-1	Monitoring	Twentynine Palms	Monthly	N/A	N/A
N-2	Monitoring	Twentynine Palms	Monthly	N/A	N/A
N-3	Monitoring	Twentynine Palms	Monthly	N/A	N/A
N-4	Monitoring	Twentynine Palms	Monthly	N/A	N/A
N-5	Monitoring	Twentynine Palms	Monthly	N/A	N/A
N-6	Monitoring	Twentynine Palms	Monthly	N/A	N/A
S-1	Monitoring	Twentynine Palms	Monthly	N/A	N/A
S-2	Monitoring	Twentynine Palms	Monthly	N/A	N/A
S-3	Monitoring	Twentynine Palms	Monthly	N/A	N/A
S-4	Monitoring	Twentynine Palms	Monthly	N/A	N/A
S-5	Monitoring	Twentynine Palms	Monthly	N/A	N/A
TP-1	Active	Twentynine Palms	Monthly	Monthly	Per Drinking Water Monitoring Schedule

To continue to effectively monitor groundwater quality and quantity in the four sub-basins, the Baseline Report should be updated every 3-5 years, including recent additional data from District and private wells. The update should include new hydrographs and contours. Where insufficient data is available, the District should consider additional sampling, testing and/or monitoring wells. The update will help the District focus on any existing or potential future

problems with District groundwater quantity and quality. Groundwater management decisions can then be made in an informed manner.

Funding may be available for this effort through the AB 303, Groundwater Management Assistance Fund. This grant program, administered by DWR, provides funds for groundwater monitoring or management and groundwater studies. A list of possible funding opportunities is provided in Appendix C.

Section 7: Implementation Plan

Based on the current level of understanding of groundwater conditions and anticipated future land uses and water demands within the District's service area, it is recommended that the following activities described throughout this report be implemented by the District.

1. Avoid well construction in areas of high salinity.
2. Develop and implement a DWSAP Program Plan, as required by DPH.
3. Designate wellhead protection areas around wells in unconfined aquifers. Coordinate with local land use planning agencies to prevent the siting of potentially contaminating activities within the wellhead protection areas.
4. Continue to adhere to the requirements for well abandonment and destruction for all District-owned wells.
5. Prepare a brochure explaining well abandonment and destruction requirements to be distributed as a "bill stuffer" and/or made available at local public facilities.
6. Investigate the increased use of groundwater from the Twentynine Palms Valley Basin by monitoring the effects of the high capacity well and Fluoride Removal Water Treatment Plant on water levels and concentrations of fluoride and TDS. Perform a complete assessment of all available subsurface information and prepare a step-by-step characterization strategy to determine whether the sub-basin is viable for expanded development of usable groundwater. If appropriate, construct more wells and expand the Fluoride Removal Water Treatment Plant.
7. Investigate the use of recharge enhancement facilities, such as berms, in areas where recharge is feasible.
8. Balance groundwater use among the four sub-basins, by monitoring groundwater levels and quality and making operational adjustments.
9. Continue to monitor water quality and prepare periodic updates to the Baseline Report as well as annual reports to document the data collected. Develop a database to collect and analyze data efficiently. Pursue funding through AB 303 for this effort.
10. Profile vertical water quality in new District wells.
11. Continue to construct all District wells according to applicable county and state regulations.
12. Consider upgrading the District's water conservation program by signing the MOU and implementing water conservation BMPs as a means to reduce demand.

Section 8: References

- BCI Geonetics, Inc., Determination of Active Recharge to the Twentynine Palms Water District, Twentynine Palms, California, Indian Cove Basin Recharge System, June 1990.
- California Department of Water Resources, California's Ground Water, Bulletin 118, 2004
- California Department of Water Resources, Twentynine Palms Ground Water Study, 1984.
- California Regional Water Quality Control Board and State Water Resources Control Board, Water Quality Control Plan, Colorado River Basin - Region 7, 1994.
- Groundwater Resources Association of California, California Groundwater Management, A Resource for Future Generations. 2005.
- Haley & Aldrich, Baseline Report, Compilation of Groundwater and Wells Information within the Twentynine Palms Water District Service Area, December 2000.
- Kennedy Jenks Consultants, 2005 Urban Water Management Plan, Twentynine Palms Water District, December 1, 2005.
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- Lear, Janet Marie, A Geophysical Investigation of the Structure and Hydrogeology of Twentynine Palms, California, March 1987.
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- Woodward-Clyde Consultants, Twentynine Palms Groundwater Study, Final Report, May 1985.
- W.P. Rowe and Son, Report on Available Water Supply and Estimated Future Water Requirements, Twentynine Palms County Water District, June 1964.

Figures

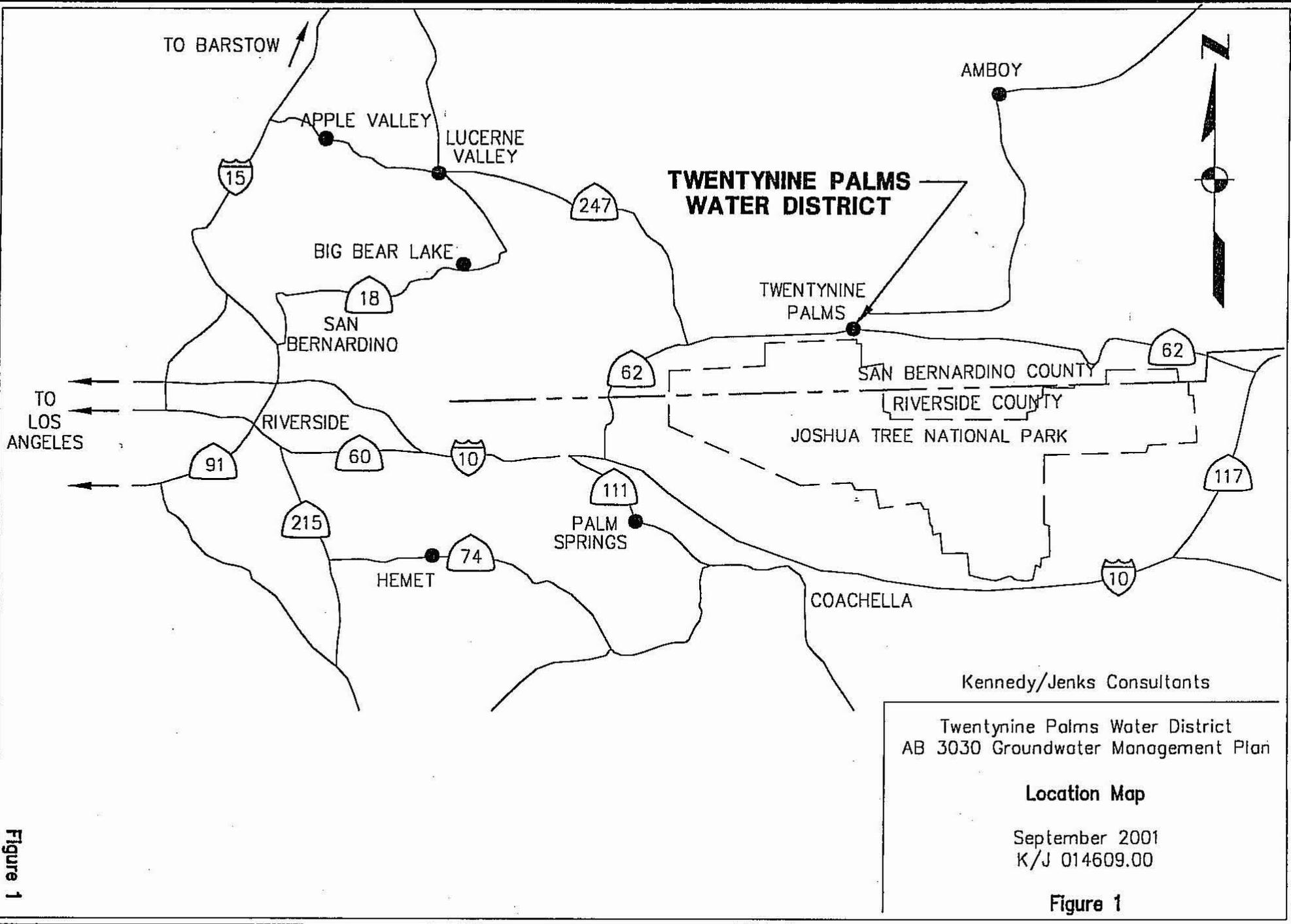
Figure 1 – Location Map

Figure 2 – Groundwater Sub-Basin

Figure 3 – Geological Map

K:/J FILE: X:\DWC\014609\FIGURE-1.DWG REV. DATE: 9/28/2001

Figure 1



Kennedy/Jenks Consultants

Twentynine Palms Water District
AB 3030 Groundwater Management Plan

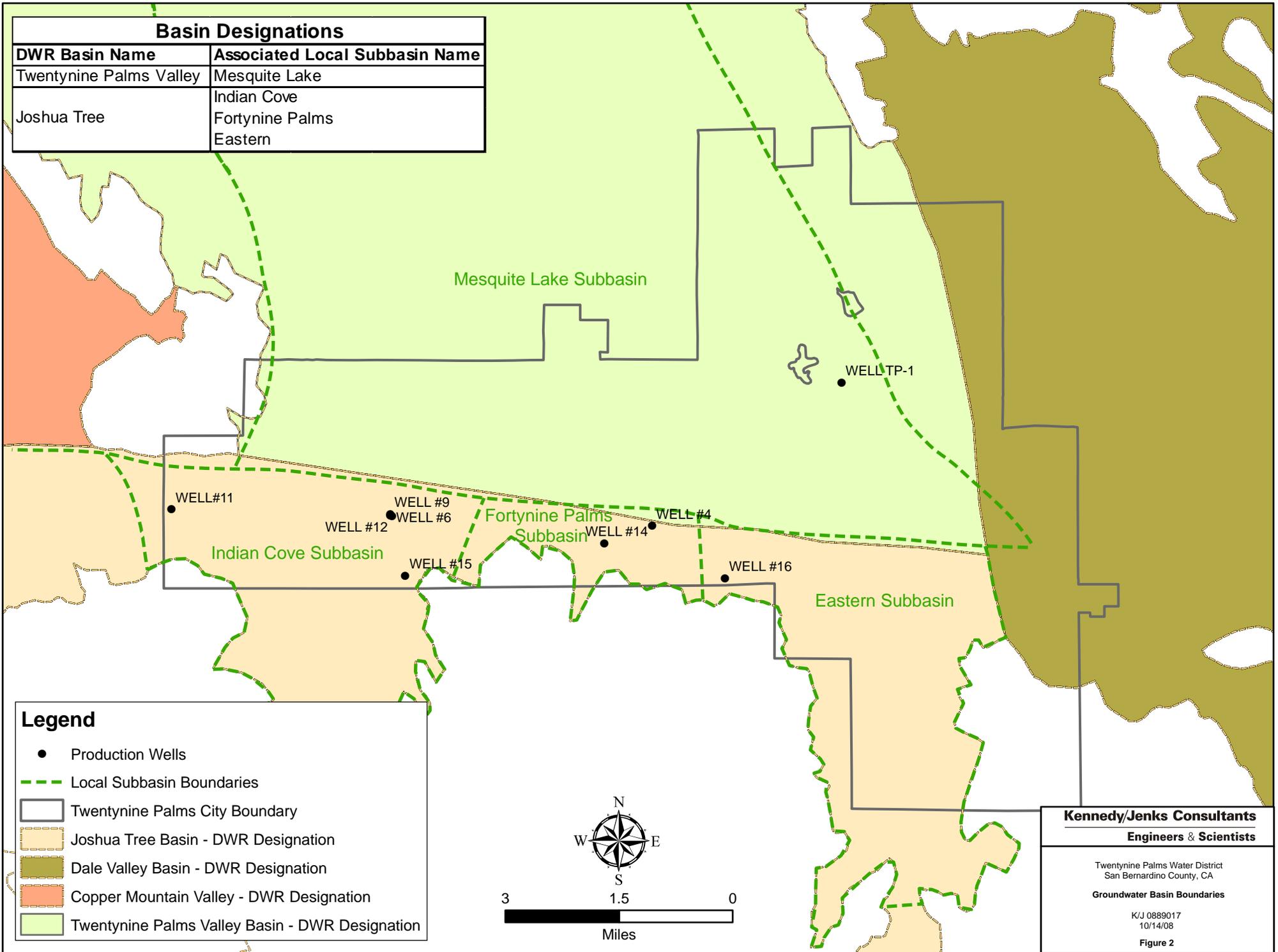
Location Map

September 2001
K/J 014609.00

Figure 1

Basin Designations

DWR Basin Name	Associated Local Subbasin Name
Twentynine Palms Valley	Mesquite Lake
Joshua Tree	Indian Cove Fortynine Palms Eastern



Legend

- Production Wells
- Local Subbasin Boundaries
- ▭ Twentynine Palms City Boundary
- ▭ Joshua Tree Basin - DWR Designation
- ▭ Dale Valley Basin - DWR Designation
- ▭ Copper Mountain Valley - DWR Designation
- ▭ Twentynine Palms Valley Basin - DWR Designation

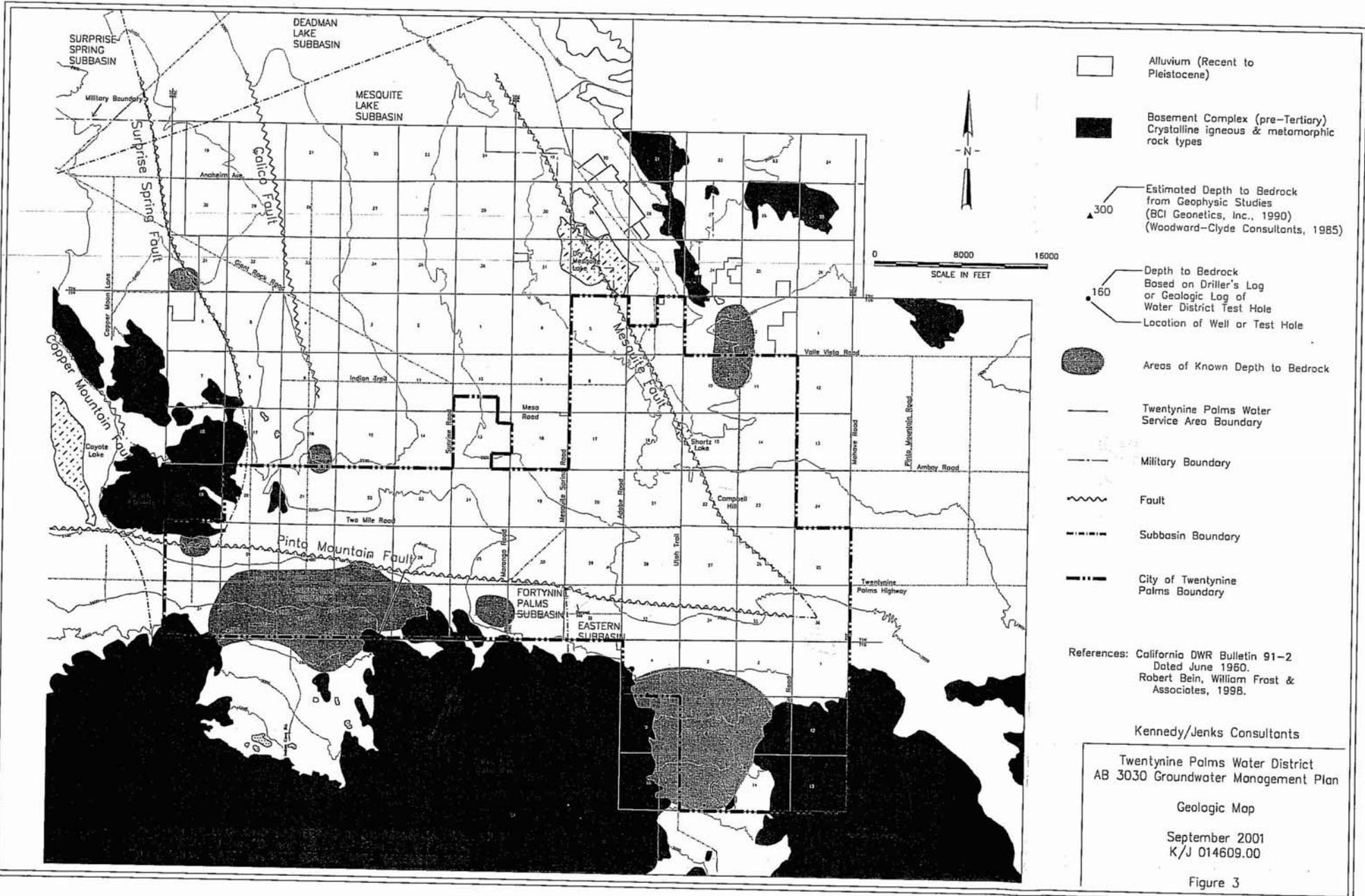
Kennedy/Jenks Consultants
Engineers & Scientists

Twentynine Palms Water District
 San Bernardino County, CA

Groundwater Basin Boundaries

K/J 0889017
 10/14/08

Figure 2



-  Alluvium (Recent to Pleistocene)
-  Basement Complex (pre-Tertiary) Crystalline igneous & metamorphic rock types
-  300 Estimated Depth to Bedrock from Geophisic Studies (BCI Geonetics, Inc., 1990) (Woodward-Clyde Consultants, 1985)
-  160 Depth to Bedrock Based on Driller's Log or Geologic Log of Water District Test Hole
-  Areas of Known Depth to Bedrock
-  Twentynine Palms Water Service Area Boundary
-  Military Boundary
-  Fault
-  Subbasin Boundary
-  City of Twentynine Palms Boundary

References: California DWR Bulletin 91-2
Dated June 1960.
Robert Bein, William Frost & Associates, 1998.

Kennedy/Jenks Consultants
Twentynine Palms Water District
AB 3030 Groundwater Management Plan
Geologic Map
September 2001
K/J 014609.00

Figure 3

Appendices

Appendix A – Proposed San Bernardino County Ordinance “Desert Groundwater Management”

Appendix B – Department of Public Health Drinking Water Monitoring Schedules

Appendix C – Funding Opportunities

Appendix D - Resolution of Intention

Appendix E – Ordinance No. 91 Adoption of the Groundwater Management Plan Update

Appendix A – Proposed San Bernardino Ordinance
“Desert Groundwater Management”

Adopted Ordinance #3512 (1992);

33.06520 Required Fees.

Each person applying to qualify for certification or for renewal of his/her certification shall first pay all applicable fees to the San Bernardino County Department of Environmental Health Services (DEHS) for each activity in the amounts set forth in Chapter 2 of Division 6 of Title I of the San Bernardino County Code schedule of fees.

Adopted Ordinance #3512 (1992);

33.06525 Denial, Revocation and Suspension of Certification.

(a) The San Bernardino County Department of Environmental Health Services (DEHS) may deny, revoke, or suspend a certification for any one or more of the following causes pertaining to conduct of the applicant or certification holder:

- (1) Where falsified information is submitted to DEHS in an application for certification, testing report(s), or correspondence; or
- (2) Where federal, state, or local laws or regulations pertaining to the testing and/or certification of a backflow prevention assembly or assemblies have been violated.
- (3) Where required fees have not been paid.

(b) Upon determining probable cause for the denial, revocation, or suspension of a certification, DEHS shall give written notice to the applicant or certificate holder at the address given on the application or certificate to show cause why the certification should not be denied, revoked, or suspended, and conduct a hearing if requested in accordance with the provisions of Chapter 2 of Division 3 of Title 3 of the San Bernardino County Code.

(c) A person whose certification has been denied or revoked pursuant to this Section shall not be considered by DEHS for a certification until at least after one (1) year from the date of such denial or revocation. After three (3) such denials or revocations, or combinations thereof, no new certification shall be granted to such applicant.

Adopted Ordinance #3512 (1992);

33.06530 Non-Transferability of Certifications.

Certifications issued pursuant to this Article are non-transferable as to any person or entity.

Adopted Ordinance #3512 (1992);

33.06535 Administration, Enforcement, Remedies and Penalties.

It shall be unlawful for any person or entity to violate any provision of this Article. Except as provided herein, all administration, enforcement, remedies, and penalties as to this Article shall be as set forth in Chapters 1 and 2 of Division 3 of Title 3 of the San Bernardino County Code.

Adopted Ordinance #3512 (1992);

33.06540 - 33.06550 (Reserved).

**Article 5
Desert Groundwater Management**

Sections:

- 33.06551 Purpose.
- 33.06552 Scope and Exclusions.
- 33.06553 Definitions.
- 33.06554 Permits.
- 33.06555 Notice of Pending Decision.
- 33.06556 Appeals.
- 33.06557 Violations, Remedies and Penalties.

33.06551 Purpose.

(a) The protection of groundwater resources within San Bernardino County is of utmost importance. The public health, safety and general welfare of the people of the State of California and of the County depend upon the continued availability of groundwater through ensuring that extraction of groundwater does not exceed the safe yield of affected groundwater aquifers, considering both the short and long-term impacts of groundwater extraction, including the recovery of groundwater aquifers through natural as well as artificial recharge. The protection of the

groundwater resource within San Bernardino County also includes the consideration of the health of individual aquifers and the continued ability of those aquifers to store and maintain water.

(b) The protection of groundwater resources within the unincorporated and unadjudicated desert region of San Bernardino County is of particular importance due to:

- (1) the existence of vast aquifers that underlie those areas which have not been overdrafted;
- (2) the relative lack of significant natural recharge in those areas when compared to the mountain areas and other less arid areas of the County; and
- (3) the lack of regulatory or judicial oversight of the groundwater aquifers within the unadjudicated desert region, which oversight would serve to ensure the groundwater safe yield and health of the aquifers.

(c) This Article protects the groundwater resources of San Bernardino County in order to ensure the health of that resource. This Article is intended to be consistent with the California Constitution, Article 10, section 2 (water rights), and Article 11, section 7 (police powers).

(d) This Article augments and supplements the Groundwater Management authority the County may otherwise have pursuant to the Groundwater Management Act, California Water Code section 10750, et seq.

33.06552 Scope and Exclusions.

(a) This Article shall only apply to those groundwater aquifers that have not been adjudicated by judicial decree, which are located outside of the jurisdictional boundaries of the Mojave Water Agency and Public Water Districts within the Morongo Basin and which are situated in the unincorporated desert region of the County, generally described as that area of the County lying west of the Colorado River and the California-Nevada state line, north of the San Bernardino-Riverside county line, south of the San Bernardino-Inyo county line and east of Fort Irwin Military Reservation, the Mojave Water Agency, the Marine Air Ground Task Force Command Center, Twentynine Palms Water District and the City of Twentynine Palms. The area subject to this Article is more specifically identified on the attached Desert Groundwater Ordinance Map.

(b) This Article shall not apply to any well operated by any district or person where the district or person has performed both of the following:

(1) adopted a groundwater management plan pursuant to Water Code section 10750, et seq. ("AB 3030 Plan") which adheres to "groundwater safe yield" and "aquifer health" limitations, as those terms are defined in section 33.06553 of this Code or has otherwise developed and instituted a County-approved groundwater management, monitoring and mitigation plan associated with its extraction of water that is consistent with guidelines developed by the County; and

(2) executed a Memorandum of Understanding ("MOU") or other binding agreement with the County which:

(A) requires the parties to share groundwater monitoring information and data and to coordinate their efforts to monitor groundwater resources in the County; and

(B) ensures that the measures identified in the AB 3030 Plan or County-approved groundwater management, monitoring and mitigation plan are fully implemented and enforced. Such MOU or agreement must remain enforceable in order to provide for an exclusion from this Article.

(c) This Article shall not apply to the following:

(1) groundwater wells subject to the Lower Colorado Water Supply Project;

(2) groundwater wells within the jurisdictional boundary of the Mojave Water Agency, including public water agencies within the Morongo Basin;

(3) groundwater well operations approved before the effective date of this Article as part of a currently valid and complied with Conditional Use Permit or well construction permit. Owner must provide evidence or certification the well was drilled prior to permit requirements or was permitted prior to the effective date of this ordinance;

(4) groundwater wells used in conjunction with mining operations for which a currently valid and complied with mining reclamation plan has been established;

(5) groundwater wells associated with an agricultural operation, where the cumulative extraction from all of the agricultural wells from such an operation is less than 1,100 acre-feet per year and where the water is used on site and allowed to percolate into the ground, resulting in some return flow to the underlying aquifer.

(6) groundwater wells which replace abandoned wells if (i) proof of abandonment for the existing well is shown, (ii) the replacement well casing is not larger in diameter than the abandoned well, and/or (iii) the pumping capacity of the replacement well is no more than the pumping capacity of the abandoned well.

(7) non-agricultural wells with casings smaller than ten inches in diameter or those to be pumped for less than thirty (30) acre feet per year. Notwithstanding the foregoing exemption, this Article shall apply to a non-agricultural well that is proposed on a parcel on which other wells are located and where the total production of all wells on-site is greater than fifty (50) acre feet per year. The term, "parcel" shall include all parcels within any one groundwater aquifer in which the same person or persons have a common ownership interest.

(8) groundwater wells located on Federal lands unless otherwise specified by inter-agency agreement. Notwithstanding the foregoing exclusion, this Article shall apply to groundwater wells located on privately

held lands, which are within the boundaries of a National Park, Preserve or Monument or any other Federal designation.

33.06553 Definitions.

The following terms related to groundwater management are defined as follows:

- (a) "AB 3030 District": A district which also has adopted a plan pursuant to the Groundwater Management Act.
- (b) "Aquifer": A geologic formation that stores, transmits and yields significant quantities of water to wells and springs.
- (c) "Aquifer Health": The geologic integrity of the affected aquifer, its storage capacity and the quality of water within the aquifer, including the quality of water for a drinking water supply.
- (d) "Code": The San Bernardino County Code.
- (e) "District": Excluding a city wholly or in part located within the boundaries of the County, any district or political subdivision whose primary function is the irrigation, reclamation or drainage of land or is the diversion, storage, management or distribution of water primarily for domestic, municipal, agricultural, industrial, recreation, fish and wildlife enhancement, flood control or power production purposes.
- (f) "Enforcement Agency": The Enforcement Agency for San Bernardino County may be the Board of Supervisors or the Director of the Department of Public Health, Environmental Health Services Division.
- (g) "Groundwater": All water beneath the surface of the earth within the zone below the water table in which the soil is completely saturated with water, but does not include water which flows in known and definite channels.
- (h) "Groundwater Management Act": California Water Code section 10750, et seq.
- (i) "Groundwater Safe Yield": The maximum quantity of water that can be annually withdrawn from a groundwater aquifer (i) without resulting in overdraft (ii) without adversely affecting aquifer health and (iii) without adversely affecting the health of associated lakes, streams, springs and seeps or their biological resources. The safe yield of an aquifer can be increased by management actions such as artificial recharge, including infiltration and other similar actions.
- (j) "Overdraft": The condition of a groundwater supply in which the average annual amount of water withdrawn by pumping exceeds the average annual amount of water replenishing the aquifer in any ten (10) year period, considering all sources of recharge and withdrawal.
- (k) "Person": Any state or local government agency, private corporation, firm, partnership, individual, group of individuals or, to the extent authorized by law, any federal agency.
- (l) "Recharge": Flow to groundwater storage from precipitation, irrigation, infiltration from streams, spreading basins and other sources of water.

33.06554 Permits.

(a) Requirement for Permit. Except as otherwise excluded from the application of this Article and in addition to any applicable permitting requirements for well construction, reconstruction, abandonment and destruction pursuant to the provisions of the San Bernardino County Code, no person, district or other entity acting as principal, agent or employee, shall locate, construct, operate or maintain any new groundwater well within the desert region of San Bernardino County, as identified in section 33.06552(a), without first filing a written application to do so with the enforcement agency and receiving and retaining a valid permit as provided herein. This permit is a discretionary permit under the California Environmental Quality Act (CEQA, Public Resources Code section 21000, et seq.)

(b) Application for Permit. Applications for permits under this Article shall be submitted to the enforcement agency in a format prescribed by the enforcement agency, and shall be of sufficient detail to allow the determinations set forth in subsections (c) and (d) of this section to be made. Applications shall include the following information:

- (1) A plot plan depicting the location of the proposed well(s) on a section map depicting the location of the following items within 1/2 mile of the well(s):
 - (A) property lines, location and ownership of all parcels and easements;
 - (B) all intermittent, perennial, natural or artificial bodies of water or watercourses;
 - (C) notable nearby geographic features (faults, etc.);
 - (D) all other wells; and
 - (E) landfills, septic systems or other liquid or solid waste facilities.
- (2) Proposed well diameter, depth and completion interval (screen or perforation locations) for proposed well(s).
- (3) Well design capacities for proposed well(s).
- (4) Anticipated groundwater safe yield of the affected groundwater aquifer.
- (5) Anticipated static and pumping levels.
- (6) Anticipated water quality.
- (7) The intended use of groundwater from the proposed well(s).

- etc.).
- (8) The proposed months of operation of the proposed well(s) (year-round, irrigation months, etc.).
 - (9) The proposed pumping cycles (one eight-hour/day cycle, two six-hour/day cycles, etc.).
 - (10) Estimated annual pumpage from the proposed well(s) in acre-feet.
 - (11) System description (irrigation, domestic, etc.).
 - (12) Anticipated return flows (deep percolation, runoff, etc.).
 - (13) The estimated rate of natural recharge to the affected groundwater aquifer(s) calculated in accordance with generally accepted scientific methodologies and as deemed appropriate by the enforcement agency.
 - (14) A description of the affected groundwater aquifer(s) including estimated storage capacity and the overall quality of water within the aquifer.
 - (15) Other information as may be reasonably necessary for the County to determine the potential effects of the proposed well operations on the groundwater safe yield and aquifer health of the affected aquifer.
 - (16) Supporting documentation, where available, for all of the foregoing items.

(c) Permit Review.

(1) Procedure: Administrative Review or Public Hearing.
 (2) Reviewing Authority: The Director of the Department of Public Health, Environmental Health Services Division, shall be the reviewing authority for Permit applications except in the following circumstances:

(A) Where the Director of the Department of Public Health, Environmental Health Services Division refers the proposal to the Board of Supervisors for Public Hearing.

(B) Where the proposal is filed concurrently with an application subject to Public Hearing review procedures.

(3) Where the Director of the Department of Public Health, Environmental Health Services Division is the reviewing authority, the procedure shall be considered to be Administrative Review and notice shall be provided pursuant to Section 33.06555 herein.

(d) Conditions of Approval. Plans shall be submitted to the enforcement agency demonstrating compliance with the standards of this Article. No permit shall be issued unless the enforcement agency determines, based upon the available data, that the well(s) constructed and operated as proposed, would not result in exceeding the groundwater safe yield of the relevant aquifers. Permits may include conditions and requirements found by the enforcement agency to be reasonably necessary to accomplish the purposes of this Article, including, but not limited to, conditions requiring groundwater management, mitigation and monitoring by the applicant.

(e) Environmental Review. Prior to taking an action to approve an application for a permit, the enforcement agency shall make the environmental findings required under the California Environmental Quality Act.

(f) Denial. The enforcement agency shall deny the application where it determines that the standards of this Article have not been met; where the well operations proposed in the application would result in exceeding the groundwater safe yield of the relevant aquifers considered individually or in conjunction with other existing wells.

(g) Permit Fees. The hourly rates for administering the provisions of this Article are established under the provisions of the San Bernardino County Code Schedule of Fees.

(h) Permit Suspension/Revocation or Modification. Permits may be issued only for so long as the well operations do not exceed the groundwater safe yield of the relevant aquifers. Permits will be suspended, revoked or modified if the enforcement agency determines that continued operations under the permit would result in overdraft of the relevant aquifers.

(i) Administrative Variances and Special Circumstances. The County may grant an administrative variance from any provision of this Article due to special circumstances or hardship. The County may describe alternative requirements where submitted documents as may be reasonably required by the County provide substantial evidence that a modification of the requirements in this Article will not endanger the general public health and safety and strict compliance would be unreasonable in view of all of the circumstances.

(j) Inspection and Monitoring. The enforcement agency may, with consent or a warrant if required, at any and all reasonable times enter any and all places, property, enclosures and structures for the purposes of making examinations and investigations to determine whether any provision of this Article is being or has been violated.

33.06555 Notice of Pending Decision

(a) Upon receipt of a request for a decision, the reviewing authority shall cause notice to be given specifying the time and place at least ten (10) calendar days prior to the date of the scheduled decision by the following applicable methods:

(1) Notice shall be published once in a newspaper of general circulation in the respective community of the proposal for decisions using the Public Hearing procedure.

(2) Notice shall be given by first class mail to any person who has filed a written request for a specific application.

(3) Notice shall be given by first class mail or delivery to all property owners within one (1) mile of the external boundaries of the parcel of the proposed extraction for decisions using the Public Hearing or the Administrative Review procedures.

(4) Notice may be given in such other manner as is deemed necessary or desirable.

(b) Said notice shall include sufficient information to give those receiving the notice a reasonable opportunity to evaluate the implications of the proposal and to participate in the decision making process.

(c) Ownership and addresses of properties shall be determined from the latest equalized tax assessment role or from other records of the County Assessor or County Tax Collector, whichever contains more recent information.

(d) If during a public hearing, items are continued by the reviewing authority to a specific date, the items shall not be re-noticed unless specifically requested by the reviewing authority.

33.06556 Appeals.

(a) Prior to its effective date, a decision made in accordance with the provisions of this code by a reviewing authority other than the County Board of Supervisors may be appealed by the applicant or other affected party, as follows:

(1) Applications for an appeal to the Board of Supervisors shall be made on forms supplied by the enforcement agency. Applications for appeals shall be accompanied by a written statement of the grounds upon which the appeal is based. The appeal application shall identify:

- (A) the subject permit application;
- (B) the specific decision, condition of approval or other matter being appealed;
- (C) the date of such action;
- (D) the justification for the appeal; and
- (E) any remedy or solution for which the appellant petitions.

(2) A uniform fee established by the Board of Supervisors shall be paid to the County upon the filing of each appeal.

(3) A properly filed application for appeal stays proceedings in the matter appealed until a decision is rendered on the appeal.

(4) An application for an appeal must be submitted to the Clerk of the Board of Supervisors within fifteen (15) days after a notice of decision is mailed by the enforcing agency to the applicant.

(5) Within thirty (30) days of the acceptance of an application for an appeal, the Clerk of the Board of Supervisors shall set the matter for hearing and shall give notice of the date, time and place of the hearing to the appellant, the applicant and to any other party who has requested in writing to be so notified.

(6) Upon hearing the appeal, the Board of Supervisors shall consider the record and such additional evidence as may be offered and may affirm, reverse or modify in whole or in part the decision appealed. The Board of Supervisors is subject to all of the criteria, findings and requirements imposed by this Code upon the original decision maker.

33.06557 Violations, Remedies and Penalties.

It shall be unlawful for any person or entity to violate any provision of this Article. All enforcement procedures, remedies and penalties of Chapter 1 of Division 3 of Title 3 of this Code shall apply to this Article and are in addition to all others provided by law.

Adopted Ordinance 3872 (2002)

Appendix B – Department of Public Drinking Water
Monitoring Schedules

NOTE: Parameters marked "DUE" have waivers and are not required to be sampled at this time.

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-004 WELL 04

Source Number: 004

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2006/01/18	.000	2009/01
ANTIMONY	01097	36	2006/01/18	.000	2009/01
ARSENIC	01002	36	2006/10/30	5.700	2009/10
ASBESTOS	81855	WAIVED			
BARIUM	01007	36	2006/01/18	.000	2009/01
BERYLLIUM	01012	36	2006/01/18	.000	2009/01
CADMIUM	01027	36	2006/01/18	.000	2009/01
CHROMIUM (TOTAL)	01034	36	2006/01/18	11.000	2009/01
CYANIDE	01291	36	2006/01/18	.000	2009/01
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2008/04/07	1.700	2011/04
LEAD	01051	WAIVED	2006/01/18	.000	
MERCURY	71900	36	2006/01/18	.000	2009/01
NICKEL	01067	36	2006/01/18	.000	2009/01
PERCHLORATE	A-031	WAIVED	2008/04/08	.000	
SELENIUM	01147	36	2006/01/18	.000	2009/01
THALLIUM	01059	36	2006/01/18	.000	2009/01

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2007/11/26	28.000	2008/11
NITRITE (AS N)	00620	36	2006/01/18	.000	2009/01

RADIOLOGICAL

GROSS ALPHA	01501	36	2007/11/28	8.000	2010/11
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED	2003/10/24	.000	
RADIUM 228	11501	WAIVED	2007/11/28	.280	
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-004 WELL 04

Source Number: 004

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	2007/11/28	13.000
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	72	1993/08/16	.000	1999/08	DUE
2,4,5-TP (SILVEX)	39045	72	1993/08/16	.000	1999/08	DUE
2,4-D	39730	72	1993/08/16	.000	1999/08	DUE
ALACHLOR	77825	72	1993/08/16	.000	1999/08	DUE
ATRAZINE	39033	72	1993/08/16	.000	1999/08	DUE
BENTAZON	38710	72	1993/08/16	.000	1999/08	DUE
BENZO (A) PYRENE	34247	72	1993/08/16	.000	1999/08	DUE
CARBOFURAN	81405	72	1993/08/16	.000	1999/08	DUE
CHLORDANE	39350	72	1993/08/16	.000	1999/08	DUE
DALAPON	38432	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)ADIPATE	A-026	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)PHTHALATE	39100	72	1993/08/16	.000	1999/08	DUE
DIBROMOCHLOROPROPANE (DBCP)	38761	36	2005/11/29	.000	2008/11	
DINOSEB	81287	72	1993/08/16	.000	1999/08	DUE
DIQUAT	78885	72	1993/08/16	.000	1999/08	DUE
ENDOTHALL	38926	72	1993/08/16	.000	1999/08	DUE
ENDRIN	39390	72	1993/08/16	.000	1999/08	DUE
ETHYLENE DIBROMIDE (EDB)	77651	36	2005/11/29	.000	2008/11	
GLYPHOSATE	79743	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR	39410	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR EPOXIDE	39420	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROBENZENE	39700	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROCYCLOPENTADIENE	34386	72	1993/08/16	.000	1999/08	DUE
LINDANE	39340	72	1993/08/16	.000	1999/08	DUE
METHOXYCHLOR	39480	72	1993/08/16	.000	1999/08	DUE
MOLINATE	82199	72	1993/08/16	.000	1999/08	DUE
OXAMYL	38865	72	1993/08/16	.000	1999/08	DUE

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-004 WELL 04

Source Number: 004

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	72	1993/08/16	.000	1999/08 DUE
PICLORAM	39720	72	1993/08/16	.000	1999/08 DUE
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	72	1993/08/16	.000	1999/08 DUE
SIMAZINE	39055	72	1993/08/16	.000	1999/08 DUE
THIOBENCARB	A-001	72	1993/08/16	.000	1999/08 DUE
TOXAPHENE	39400	72	1993/08/16	.000	1999/08 DUE

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2005/07/27	.000	2011/07
1,1,2,2-TETRACHLOROETHANE	34516	72	2005/07/27	.000	2011/07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2005/07/27	.000	2011/07
1,1,2-TRICHLOROETHANE	34511	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHANE	34496	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHYLENE	34501	72	2005/07/27	.000	2011/07
1,2,4-TRICHLOROBENZENE	34551	72	2005/07/27	.000	2011/07
1,2-DICHLOROBENZENE	34536	72	2005/07/27	.000	2011/07
1,2-DICHLOROETHANE	34531	72	2005/07/27	.000	2011/07
1,2-DICHLOROPROPANE	34541	72	2005/07/27	.000	2011/07
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2005/07/27	.000	2011/07
1,4-DICHLOROBENZENE	34571	72	2005/07/27	.000	2011/07
BENZENE	34030	72	2005/07/27	.000	2011/07
CARBON TETRACHLORIDE	32102	72	2005/07/27	.000	2011/07
CIS-1,2-DICHLOROETHYLENE	77093	72	2005/07/27	.000	2011/07
DICHLOROMETHANE	34423	72	2005/07/27	.000	2011/07
ETHYLBENZENE	34371	72	2005/07/27	.000	2011/07
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2005/07/27	.000	2008/07
MONOCHLOROBENZENE	34301	72	2005/07/27	.000	2011/07
STYRENE	77128	72	2005/07/27	.000	2011/07
TETRACHLOROETHYLENE	34475	72	2005/07/27	.000	2011/07
TOLUENE	34010	72	2005/07/27	.000	2011/07

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-004 WELL 04

Source Number: 004

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2005/07/27	.000	2011/07
TRICHLOROETHYLENE	39180	72	2005/07/27	.000	2011/07
TRICHLOROFUOROMETHANE	34488	72	2005/07/27	.000	2011/07
VINYL CHLORIDE	39175	72	2005/07/27	.000	2011/07
XYLENES (TOTAL)	81551	72	2005/07/27	.000	2011/07

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2006/01/18	11.620	2009/01
BICARBONATE ALKALINITY	00440	36	2006/01/18	130.000	2009/01
CALCIUM	00916	36	2006/01/18	25.000	2009/01
CARBONATE ALKALINITY	00445	36	2006/01/18	.000	2009/01
CHLORIDE	00940	36	2006/01/18	20.000	2009/01
COLOR	00081	36	2006/01/18	.000	2009/01
COPPER	01042	36	2006/01/18	.000	2009/01
FOAMING AGENTS (MBAS)	38260	36	2006/01/18	.000	2009/01
HARDNESS (TOTAL) AS CaCO3	00900	36	2006/01/18	74.000	2009/01
HYDROXIDE ALKALINITY	71830	36	2006/01/18	.000	2009/01
IRON	01045	36	2006/01/18	.000	2009/01
MAGNESIUM	00927	36	2006/01/18	3.100	2009/01
MANGANESE	01055	36	2006/01/18	.000	2009/01
ODOR THRESHOLD @ 60 C	00086	36	2006/01/18	1.000	2009/01
PH, LABORATORY	00403	36	2006/01/18	7.800	2009/01
SILVER	01077	36	2006/01/18	.000	2009/01
SODIUM	00929	36	2006/01/18	48.000	2009/01
SPECIFIC CONDUCTANCE	00095	36	2006/01/18	340.000	2009/01
SULFATE	00945	36	2006/01/18	18.000	2009/01
TOTAL DISSOLVED SOLIDS	70300	36	2006/01/18	200.000	2009/01
TURBIDITY, LABORATORY	82079	36	2006/01/18	.100	2009/01
ZINC	01092	36	2006/01/18	.000	2009/01

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-006 WELL 06

Source Number: 006

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2006/01/18	.000	2009/01
ANTIMONY	01097	36	2006/01/18	.000	2009/01
ARSENIC	01002	36	2006/10/30	4.900	2009/10
ASBESTOS	81855	WAIVED			
BARIUM	01007	36	2006/01/18	.000	2009/01
BERYLLIUM	01012	36	2006/01/18	.000	2009/01
CADMIUM	01027	36	2006/01/18	.000	2009/01
CHROMIUM (TOTAL)	01034	36	2006/01/18	.000	2009/01
CYANIDE	01291	36	2006/01/18	.000	2009/01
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2008/04/07	.610	2011/04
LEAD	01051	WAIVED	2006/01/18	.000	
MERCURY	71900	36	2006/01/18	.000	2009/01
NICKEL	01067	36	2006/01/18	.000	2009/01
PERCHLORATE	A-031	WAIVED	2008/04/08	.000	
SELENIUM	01147	36	2006/01/18	.000	2009/01
THALLIUM	01059	36	2006/01/18	.000	2009/01

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2007/11/26	6.500	2008/11
NITRITE (AS N)	00620	36	2006/01/18	.000	2009/01

RADIOLOGICAL

GROSS ALPHA	01501	36	2007/11/28	.000	2010/11
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED			
RADIUM 228	11501	WAIVED	2007/11/28	.166	
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-006 WELL 06

Source Number: 006

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	2007/11/28	2.300
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	72	1993/08/16	.000	1999/08	DUE
2,4,5-TP (SILVEX)	39045	72	1993/08/16	.000	1999/08	DUE
2,4-D	39730	72	1993/08/16	.000	1999/08	DUE
ALACHLOR	77825	72	1993/08/16	.000	1999/08	DUE
ATRAZINE	39033	72	1993/08/16	.000	1999/08	DUE
BENTAZON	38710	72	1993/08/16	.000	1999/08	DUE
BENZO (A) PYRENE	34247	72	1993/08/16	.000	1999/08	DUE
CARBOFURAN	81405	72	1993/08/16	.000	1999/08	DUE
CHLORDANE	39350	72	1993/08/16	.000	1999/08	DUE
DALAPON	38432	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)ADIPATE	A-026	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)PHTHALATE	39100	72	1993/08/16	.000	1999/08	DUE
DIBROMOCHLOROPROPANE (DBCP)	38761	36	2005/11/29	.000	2008/11	
DINOSEB	81287	72	1993/08/16	.000	1999/08	DUE
DIQUAT	78885	72	1993/08/16	.000	1999/08	DUE
ENDOTHALL	38926	72	1993/08/16	.000	1999/08	DUE
ENDRIN	39390	72	1993/08/16	.000	1999/08	DUE
ETHYLENE DIBROMIDE (EDB)	77651	36	2005/11/29	.000	2008/11	
GLYPHOSATE	79743	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR	39410	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR EPOXIDE	39420	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROBENZENE	39700	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROCYCLOPENTADIENE	34386	72	1993/08/16	.000	1999/08	DUE
LINDANE	39340	72	1993/08/16	.000	1999/08	DUE
METHOXYCHLOR	39480	72	1993/08/16	.000	1999/08	DUE
MOLINATE	82199	72	1993/08/16	.000	1999/08	DUE
OXAMYL	38865	72	1993/08/16	.000	1999/08	DUE

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-006 WELL 06

Source Number: 006

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	72	1993/08/16	.000	1999/08 DUE
PICLORAM	39720	72	1993/08/16	.000	1999/08 DUE
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	72	1993/08/16	.000	1999/08 DUE
SIMAZINE	39055	72	1993/08/16	.000	1999/08 DUE
THIOBENCARB	A-001	72	1993/08/16	.000	1999/08 DUE
TOXAPHENE	39400	72	1993/08/16	.000	1999/08 DUE

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2005/07/27	.000	2011/07
1,1,2,2-TETRACHLOROETHANE	34516	72	2005/07/27	.000	2011/07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2005/07/27	.000	2011/07
1,1,2-TRICHLOROETHANE	34511	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHANE	34496	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHYLENE	34501	72	2005/07/27	.000	2011/07
1,2,4-TRICHLOROBENZENE	34551	72	2005/07/27	.000	2011/07
1,2-DICHLOROBENZENE	34536	72	2005/07/27	.000	2011/07
1,2-DICHLOROETHANE	34531	72	2005/07/27	.000	2011/07
1,2-DICHLOROPROPANE	34541	72	2005/07/27	.000	2011/07
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2005/07/27	.000	2011/07
1,4-DICHLOROBENZENE	34571	72	2005/07/27	.000	2011/07
BENZENE	34030	72	2005/07/27	.000	2011/07
CARBON TETRACHLORIDE	32102	72	2005/07/27	.000	2011/07
CIS-1,2-DICHLOROETHYLENE	77093	72	2005/07/27	.000	2011/07
DICHLOROMETHANE	34423	72	2005/07/27	.000	2011/07
ETHYLBENZENE	34371	72	2005/07/27	.000	2011/07
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2005/07/27	.000	2008/07
MONOCHLOROBENZENE	34301	72	2005/07/27	.000	2011/07
STYRENE	77128	72	2005/07/27	.000	2011/07
TETRACHLOROETHYLENE	34475	72	2005/07/27	.000	2011/07
TOLUENE	34010	72	2005/07/27	.000	2011/07

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-006 WELL 06

Source Number: 006

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2005/07/27	.000	2011/07
TRICHLOROETHYLENE	39180	72	2005/07/27	.000	2011/07
TRICHLOROFUOROMETHANE	34488	72	2005/07/27	.000	2011/07
VINYL CHLORIDE	39175	72	2005/07/27	.000	2011/07
XYLENES (TOTAL)	81551	72	2005/07/27	.000	2011/07

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2006/01/18	11.190	2009/01
BICARBONATE ALKALINITY	00440	36	2006/01/18	88.000	2009/01
CALCIUM	00916	36	2006/01/18	22.000	2009/01
CARBONATE ALKALINITY	00445	36	2006/01/18	.000	2009/01
CHLORIDE	00940	36	2006/01/18	9.400	2009/01
COLOR	00081	36	2006/01/18	.000	2009/01
COPPER	01042	36	2006/01/18	.000	2009/01
FOAMING AGENTS (MBAS)	38260	36	2006/01/18	.000	2009/01
HARDNESS (TOTAL) AS CaCO3	00900	36	2006/01/18	60.000	2009/01
HYDROXIDE ALKALINITY	71830	36	2006/01/18	.000	2009/01
IRON	01045	36	2006/01/18	.000	2009/01
MAGNESIUM	00927	36	2006/01/18	2.000	2009/01
MANGANESE	01055	36	2006/01/18	.000	2009/01
ODOR THRESHOLD @ 60 C	00086	36	2006/01/18	1.000	2009/01
PH, LABORATORY	00403	36	2006/01/18	7.600	2009/01
SILVER	01077	36	2006/01/18	.000	2009/01
SODIUM	00929	36	2006/01/18	20.000	2009/01
SPECIFIC CONDUCTANCE	00095	36	2006/01/18	180.000	2009/01
SULFATE	00945	36	2006/01/18	9.900	2009/01
TOTAL DISSOLVED SOLIDS	70300	36	2006/01/18	120.000	2009/01
TURBIDITY, LABORATORY	82079	36	2006/01/18	.100	2009/01
ZINC	01092	36	2006/01/18	.000	2009/01

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-007 WELL 07

Source Number: 007

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2000/01/12	<	50.000	2003/01	DUE
ANTIMONY	01097	36	2000/01/12	<	6.000	2003/01	DUE
ARSENIC	01002	36	2000/01/12		6.000	2003/01	DUE
ASBESTOS	81855	WAIVED					
BARIUM	01007	36	2000/01/12	<	100.000	2003/01	DUE
BERYLLIUM	01012	36	2000/01/12	<	1.000	2003/01	DUE
CADMIUM	01027	36	2000/01/12	<	1.000	2003/01	DUE
CHROMIUM (TOTAL)	01034	36	2000/01/12	<	10.000	2003/01	DUE
CYANIDE	01291	36	2000/01/12	<	100.000	2003/01	DUE
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2005/07/06		.550	2008/07	
LEAD	01051	WAIVED	2000/01/12	<	5.000		
MERCURY	71900	36	2000/01/12	<	1.000	2003/01	DUE
NICKEL	01067	36	2000/01/12	<	10.000	2003/01	DUE
PERCHLORATE	A-031	WAIVED	2003/09/24		.000		
SELENIUM	01147	36	2000/01/12	<	5.000	2003/01	DUE
THALLIUM	01059	36	2000/01/12	<	1.000	2003/01	DUE

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2005/07/06		6.200	2006/07	DUE
NITRITE (AS N)	00620	36	2000/01/12	<	400.000	2003/01	DUE

RADIOLOGICAL

GROSS ALPHA	01501	36	2003/10/24		4.400	2006/10	DUE
GROSS BETA	03501	WAIVED					
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED					
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED					
RADIUM 226	09501	WAIVED					
RADIUM 228	11501	WAIVED					
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED					
STRONTIUM-90	13501	WAIVED					
TRITIUM	07000	WAIVED					

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-007 WELL 07

Source Number: 007

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	1996/01/03	3.000
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	72	1993/08/16	.000	1999/08	DUE
2,4,5-TP (SILVEX)	39045	72	1993/08/16	.000	1999/08	DUE
2,4-D	39730	72	1993/08/16	.000	1999/08	DUE
ALACHLOR	77825	72	1993/08/16	.000	1999/08	DUE
ATRAZINE	39033	72	1993/08/16	.000	1999/08	DUE
BENTAZON	38710	72	1993/08/16	.000	1999/08	DUE
BENZO (A) PYRENE	34247	72	1993/08/16	.000	1999/08	DUE
CARBOFURAN	81405	72	1993/08/16	.000	1999/08	DUE
CHLORDANE	39350	72	1993/08/16	.000	1999/08	DUE
DALAPON	38432	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)ADIPATE	A-026	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)PHTHALATE	39100	72	1993/08/16	.000	1999/08	DUE
DIBROMOCHLOROPROPANE (DBCP)	38761	36	1993/08/16	.000	1996/08	DUE
DINOSEB	81287	72	1993/08/16	.000	1999/08	DUE
DIQUAT	78885	72	1993/08/16	.000	1999/08	DUE
ENDOTHALL	38926	72	1993/08/16	.000	1999/08	DUE
ENDRIN	39390	72	1993/08/16	.000	1999/08	DUE
ETHYLENE DIBROMIDE (EDB)	77651	36	1993/08/16	.000	1996/08	DUE
GLYPHOSATE	79743	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR	39410	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR EPOXIDE	39420	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROBENZENE	39700	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROCYCLOPENTADIENE	34386	72	1993/08/16	.000	1999/08	DUE
LINDANE	39340	72	1993/08/16	.000	1999/08	DUE
METHOXYCHLOR	39480	72	1993/08/16	.000	1999/08	DUE
MOLINATE	82199	72	1993/08/16	.000	1999/08	DUE
OXAMYL	38865	72	1993/08/16	.000	1999/08	DUE

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-007 WELL 07

Source Number: 007

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	72	1993/08/16	.000	1999/08 DUE
PICLORAM	39720	72	1993/08/16	.000	1999/08 DUE
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	72	1993/08/16	.000	1999/08 DUE
SIMAZINE	39055	72	1993/08/16	.000	1999/08 DUE
THIOBENCARB	A-001	72	1993/08/16	.000	1999/08 DUE
TOXAPHENE	39400	72	1993/08/16	.000	1999/08 DUE

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2003/09/24	.000	2009/09
1,1,2,2-TETRACHLOROETHANE	34516	72	2003/09/24	.000	2009/09
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2003/09/24	.000	2009/09
1,1,2-TRICHLOROETHANE	34511	72	2003/09/24	.000	2009/09
1,1-DICHLOROETHANE	34496	72	2003/09/24	.000	2009/09
1,1-DICHLOROETHYLENE	34501	72	2003/09/24	.000	2009/09
1,2,4-TRICHLOROBENZENE	34551	72	2003/09/24	.000	2009/09
1,2-DICHLOROBENZENE	34536	72	2003/09/24	.000	2009/09
1,2-DICHLOROETHANE	34531	72	2003/09/24	.000	2009/09
1,2-DICHLOROPROPANE	34541	72	2003/09/24	.000	2009/09
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2003/09/24	.000	2009/09
1,4-DICHLOROBENZENE	34571	72	2003/09/24	.000	2009/09
BENZENE	34030	72	2003/09/24	.000	2009/09
CARBON TETRACHLORIDE	32102	72	2003/09/24	.000	2009/09
CIS-1,2-DICHLOROETHYLENE	77093	72	2003/09/24	.000	2009/09
DICHLOROMETHANE	34423	72	2003/09/24	.000	2009/09
ETHYLBENZENE	34371	72	2003/09/24	.000	2009/09
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2003/09/24	.000	2006/09 DUE
MONOCHLOROBENZENE	34301	72	2003/09/24	.000	2009/09
STYRENE	77128	72	2003/09/24	.000	2009/09
TETRACHLOROETHYLENE	34475	72	2003/09/24	.000	2009/09
TOLUENE	34010	72	2003/09/24	.000	2009/09

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-007 WELL 07

Source Number: 007

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2003/09/24	.000	2009/09
TRICHLOROETHYLENE	39180	72	2003/09/24	.000	2009/09
TRICHLOROFUOROMETHANE	34488	72	2003/09/24	.000	2009/09
VINYL CHLORIDE	39175	72	2003/09/24	.000	2009/09
XYLENES (TOTAL)	81551	72	2003/09/24	.000	2009/09

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2001/04/23	11.210	2004/04 DUE
BICARBONATE ALKALINITY	00440	36	2000/03/06	85.000	2003/03 DUE
CALCIUM	00916	36	2000/03/06	23.000	2003/03 DUE
CARBONATE ALKALINITY	00445	36	2000/03/06	< 1.000	2003/03 DUE
CHLORIDE	00940	36	2000/03/06	8.000	2003/03 DUE
COLOR	00081	36	2000/03/13	< 3.000	2003/03 DUE
COPPER	01042	36	2000/03/06	< 50.000	2003/03 DUE
FOAMING AGENTS (MBAS)	38260	36	2000/03/06	< .000	2003/03 DUE
HARDNESS (TOTAL) AS CaCO3	00900	36	2000/03/06	80.000	2003/03 DUE
HYDROXIDE ALKALINITY	71830	36	2000/03/06	< 1.000	2003/03 DUE
IRON	01045	36	2000/03/06	< 100.000	2003/03 DUE
MAGNESIUM	00927	36	2000/03/06	6.000	2003/03 DUE
MANGANESE	01055	36	2000/03/06	< 20.000	2003/03 DUE
ODOR THRESHOLD @ 60 C	00086	36	2000/03/13	1.000	2003/03 DUE
PH, LABORATORY	00403	36	2000/03/06	8.000	2003/03 DUE
SILVER	01077	36	2000/01/12	< 10.000	2003/01 DUE
SODIUM	00929	36	2000/03/06	9.000	2003/03 DUE
SPECIFIC CONDUCTANCE	00095	36	2000/03/06	190.000	2003/03 DUE
SULFATE	00945	36	2000/03/06	8.000	2003/03 DUE
TOTAL DISSOLVED SOLIDS	70300	36	2000/03/06	102.000	2003/03 DUE
TURBIDITY, LABORATORY	82079	36	2000/03/13	1.000	2003/03 DUE
ZINC	01092	36	2000/03/06	< 50.000	2003/03 DUE

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-009 WELL 09

Source Number: 009

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2006/01/18	.000	2009/01
ANTIMONY	01097	36	2006/01/18	.000	2009/01
ARSENIC	01002	36	2006/10/30	9.300	2009/10
ASBESTOS	81855	WAIVED			
BARIUM	01007	36	2006/01/18	.000	2009/01
BERYLLIUM	01012	36	2006/01/18	.000	2009/01
CADMIUM	01027	36	2006/01/18	.000	2009/01
CHROMIUM (TOTAL)	01034	36	2006/01/18	17.000	2009/01
CYANIDE	01291	36	2006/01/18	.000	2009/01
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2008/04/07	2.700	2011/04
LEAD	01051	WAIVED	2006/01/18	.000	
MERCURY	71900	36	2006/01/18	.000	2009/01
NICKEL	01067	36	2006/01/18	.000	2009/01
PERCHLORATE	A-031	WAIVED	2008/04/08	.000	
SELENIUM	01147	36	2006/01/18	.000	2009/01
THALLIUM	01059	36	2006/01/18	.000	2009/01

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2007/09/17	10.000	2008/09
NITRITE (AS N)	00620	36	2006/01/18	.000	2009/01

RADIOLOGICAL

GROSS ALPHA	01501	36	2007/11/28	10.000	2010/11
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED	2004/02/25	.141	
RADIUM 228	11501	WAIVED	2007/11/28	.000	
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-009 WELL 09

Source Number: 009

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	2007/11/28	11.000
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	72	1993/08/16	.000	1999/08	DUE
2,4,5-TP (SILVEX)	39045	72	1993/08/16	.000	1999/08	DUE
2,4-D	39730	72	1993/08/16	.000	1999/08	DUE
ALACHLOR	77825	72	1993/08/16	.000	1999/08	DUE
ATRAZINE	39033	72	1993/08/16	.000	1999/08	DUE
BENTAZON	38710	72	1993/08/16	.000	1999/08	DUE
BENZO (A) PYRENE	34247	72	1993/08/16	.000	1999/08	DUE
CARBOFURAN	81405	72	1993/08/16	.000	1999/08	DUE
CHLORDANE	39350	72	1993/08/16	.000	1999/08	DUE
DALAPON	38432	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)ADIPATE	A-026	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)PHTHALATE	39100	72	1993/08/16	.000	1999/08	DUE
DIBROMOCHLOROPROPANE (DBCP)	38761	36	2005/11/29	.000	2008/11	
DINOSEB	81287	72	1993/08/16	.000	1999/08	DUE
DIQUAT	78885	72	1993/08/16	.000	1999/08	DUE
ENDOTHALL	38926	72	1993/08/16	.000	1999/08	DUE
ENDRIN	39390	72	1993/08/16	.000	1999/08	DUE
ETHYLENE DIBROMIDE (EDB)	77651	36	2005/11/29	.000	2008/11	
GLYPHOSATE	79743	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR	39410	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR EPOXIDE	39420	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROBENZENE	39700	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROCYCLOPENTADIENE	34386	72	1993/08/16	.000	1999/08	DUE
LINDANE	39340	72	1993/08/16	.000	1999/08	DUE
METHOXYCHLOR	39480	72	1993/08/16	.000	1999/08	DUE
MOLINATE	82199	72	1993/08/16	.000	1999/08	DUE
OXAMYL	38865	72	1993/08/16	.000	1999/08	DUE

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-009 WELL 09

Source Number: 009

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	72	1993/08/16	.000	1999/08 DUE
PICLORAM	39720	72	1993/08/16	.000	1999/08 DUE
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	72	1993/08/16	.000	1999/08 DUE
SIMAZINE	39055	72	1993/08/16	.000	1999/08 DUE
THIOBENCARB	A-001	72	1993/08/16	.000	1999/08 DUE
TOXAPHENE	39400	72	1993/08/16	.000	1999/08 DUE

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2005/07/27	.000	2011/07
1,1,2,2-TETRACHLOROETHANE	34516	72	2005/07/27	.000	2011/07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2005/07/27	.000	2011/07
1,1,2-TRICHLOROETHANE	34511	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHANE	34496	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHYLENE	34501	72	2005/07/27	.000	2011/07
1,2,4-TRICHLOROBENZENE	34551	72	2005/07/27	.000	2011/07
1,2-DICHLOROBENZENE	34536	72	2005/07/27	.000	2011/07
1,2-DICHLOROETHANE	34531	72	2005/07/27	.000	2011/07
1,2-DICHLOROPROPANE	34541	72	2005/07/27	.000	2011/07
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2005/07/27	.000	2011/07
1,4-DICHLOROBENZENE	34571	72	2005/07/27	.000	2011/07
BENZENE	34030	72	2005/07/27	.000	2011/07
CARBON TETRACHLORIDE	32102	72	2005/07/27	.000	2011/07
CIS-1,2-DICHLOROETHYLENE	77093	72	2005/07/27	.000	2011/07
DICHLOROMETHANE	34423	72	2005/07/27	.000	2011/07
ETHYLBENZENE	34371	72	2005/07/27	.000	2011/07
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2005/07/27	.000	2008/07
MONOCHLOROBENZENE	34301	72	2005/07/27	.000	2011/07
STYRENE	77128	72	2005/07/27	.000	2011/07
TETRACHLOROETHYLENE	34475	72	2005/07/27	.000	2011/07
TOLUENE	34010	72	2005/07/27	.000	2011/07

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-009 WELL 09

Source Number: 009

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2005/07/27	.000	2011/07
TRICHLOROETHYLENE	39180	72	2005/07/27	.000	2011/07
TRICHLOROFUOROMETHANE	34488	72	2005/07/27	.000	2011/07
VINYL CHLORIDE	39175	72	2005/07/27	.000	2011/07
XYLENES (TOTAL)	81551	72	2005/07/27	.000	2011/07

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2006/01/18	11.470	2009/01
BICARBONATE ALKALINITY	00440	36	2006/01/18	120.000	2009/01
CALCIUM	00916	36	2006/01/18	19.000	2009/01
CARBONATE ALKALINITY	00445	36	2006/01/18	.000	2009/01
CHLORIDE	00940	36	2006/01/18	9.600	2009/01
COLOR	00081	36	2006/01/18	.000	2009/01
COPPER	01042	36	2006/01/18	.000	2009/01
FOAMING AGENTS (MBAS)	38260	36	2006/01/18	.000	2009/01
HARDNESS (TOTAL) AS CaCO3	00900	36	2006/01/18	50.000	2009/01
HYDROXIDE ALKALINITY	71830	36	2006/01/18	.000	2009/01
IRON	01045	36	2006/01/18	.000	2009/01
MAGNESIUM	00927	36	2006/01/18	1.100	2009/01
MANGANESE	01055	36	2006/01/18	.000	2009/01
ODOR THRESHOLD @ 60 C	00086	36	2006/01/18	1.000	2009/01
PH, LABORATORY	00403	36	2006/01/18	7.800	2009/01
SILVER	01077	36	2006/01/18	.000	2009/01
SODIUM	00929	36	2006/01/18	40.000	2009/01
SPECIFIC CONDUCTANCE	00095	36	2006/01/18	250.000	2009/01
SULFATE	00945	36	2006/01/18	12.000	2009/01
TOTAL DISSOLVED SOLIDS	70300	36	2006/01/18	150.000	2009/01
TURBIDITY, LABORATORY	82079	36	2006/01/18	.100	2009/01
ZINC	01092	36	2006/01/18	.000	2009/01

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-010 WELL 10 - STANDBY

Source Number: 010

Source Status: STANDBY RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	108	2006/01/18	.000	2015/01
ANTIMONY	01097	108	2006/01/18	.000	2015/01
ARSENIC	01002	108	2007/01/09	42.000	2016/01
ASBESTOS	81855	WAIVED			
BARIUM	01007	108	2006/01/18	.000	2015/01
BERYLLIUM	01012	108	2006/01/18	.000	2015/01
CADMIUM	01027	108	2006/01/18	.000	2015/01
CHROMIUM (TOTAL)	01034	108	2006/01/18	21.000	2015/01
CYANIDE	01291	108	2006/01/18	.000	2015/01
FLUORIDE (F) (NATURAL-SOURCE)	00951	108	2006/10/02	1.400	2015/10
LEAD	01051	WAIVED	2006/01/18	.000	
MERCURY	71900	108	2006/01/18	.000	2015/01
NICKEL	01067	108	2006/01/18	.000	2015/01
PERCHLORATE	A-031	WAIVED	2003/09/24	.000	
SELENIUM	01147	108	2006/01/18	.000	2015/01
THALLIUM	01059	108	2006/01/18	.000	2015/01

NITRATE/NITRITE

NITRATE (AS NO3)	71850	108	2006/01/18	12.000	2015/01
NITRITE (AS N)	00620	108	2006/01/18	.000	2015/01

RADIOLOGICAL

GROSS ALPHA	01501	108	2003/10/24	9.830	2012/10
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED	2003/10/24	.000	
RADIUM 228	11501	WAIVED	2000/04/10	< 1.010	
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-010 WELL 10 - STANDBY

Source Number: 010

Source Status: STANDBY RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	1999/04/13	7.000
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	WAIVED	1993/08/16	.000
2,4,5-TP (SILVEX)	39045	WAIVED	1993/08/16	.000
2,4-D	39730	WAIVED	1993/08/16	.000
ALACHLOR	77825	WAIVED	1993/08/16	.000
ATRAZINE	39033	WAIVED	1993/08/16	.000
BENTAZON	38710	WAIVED	1993/08/16	.000
BENZO (A) PYRENE	34247	WAIVED	1993/08/16	.000
CARBOFURAN	81405	WAIVED	1993/08/16	.000
CHLORDANE	39350	WAIVED	1993/08/16	.000
DALAPON	38432	WAIVED	1993/08/16	.000
DI(2-ETHYLHEXYL)ADIPATE	A-026	WAIVED	1993/08/16	.000
DI(2-ETHYLHEXYL)PHthalATE	39100	WAIVED	1993/08/16	.000
DIBROMOCHLOROPROPANE (DBCP)	38761	WAIVED	2005/11/29	.000
DINOSEB	81287	WAIVED	1993/08/16	.000
DIQUAT	78885	WAIVED	1993/08/16	.000
ENDOTHALL	38926	WAIVED	1993/08/16	.000
ENDRIN	39390	WAIVED	1993/08/16	.000
ETHYLENE DIBROMIDE (EDB)	77651	WAIVED	2005/11/29	.000
GLYPHOSATE	79743	WAIVED	1993/08/16	.000
HEPTACHLOR	39410	WAIVED	1993/08/16	.000
HEPTACHLOR EPOXIDE	39420	WAIVED	1993/08/16	.000
HEXACHLOROBENZENE	39700	WAIVED	1993/08/16	.000
HEXACHLOROCYCLOPENTADIENE	34386	WAIVED	1993/08/16	.000
LINDANE	39340	WAIVED	1993/08/16	.000
METHOXYCHLOR	39480	WAIVED	1993/08/16	.000
MOLINATE	82199	WAIVED	1993/08/16	.000
OXAMYL	38865	WAIVED	1993/08/16	.000

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-010 WELL 10 - STANDBY

Source Number: 010

Source Status: STANDBY RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	WAIVED	1993/08/16	.000
PICLORAM	39720	WAIVED	1993/08/16	.000
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	WAIVED	1993/08/16	.000
SIMAZINE	39055	WAIVED	1993/08/16	.000
THIOBENCARB	A-001	WAIVED	1993/08/16	.000
TOXAPHENE	39400	WAIVED	1993/08/16	.000

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	108	2005/07/27	.000	2014/07
1,1,2,2-TETRACHLOROETHANE	34516	108	2005/07/27	.000	2014/07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	108	2005/07/27	.000	2014/07
1,1,2-TRICHLOROETHANE	34511	108	2005/07/27	.000	2014/07
1,1-DICHLOROETHANE	34496	108	2005/07/27	.000	2014/07
1,1-DICHLOROETHYLENE	34501	108	2005/07/27	.000	2014/07
1,2,4-TRICHLOROBENZENE	34551	108	2005/07/27	.000	2014/07
1,2-DICHLOROBENZENE	34536	108	2005/07/27	.000	2014/07
1,2-DICHLOROETHANE	34531	108	2005/07/27	.000	2014/07
1,2-DICHLOROPROPANE	34541	108	2005/07/27	.000	2014/07
1,3-DICHLOROPROPENE (TOTAL)	34561	108	2005/07/27	.000	2014/07
1,4-DICHLOROBENZENE	34571	108	2005/07/27	.000	2014/07
BENZENE	34030	108	2005/07/27	.000	2014/07
CARBON TETRACHLORIDE	32102	108	2005/07/27	.000	2014/07
CIS-1,2-DICHLOROETHYLENE	77093	108	2005/07/27	.000	2014/07
DICHLOROMETHANE	34423	108	2005/07/27	.000	2014/07
ETHYLBENZENE	34371	108	2005/07/27	.000	2014/07
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	108	2005/07/27	.000	2014/07
MONOCHLOROBENZENE	34301	108	2005/07/27	.000	2014/07
STYRENE	77128	108	2005/07/27	.000	2014/07
TETRACHLOROETHYLENE	34475	108	2005/07/27	.000	2014/07
TOLUENE	34010	108	2005/07/27	.000	2014/07

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-010 WELL 10 - STANDBY

Source Number: 010

Source Status: STANDBY RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	108	2005/07/27	.000	2014/07
TRICHLOROETHYLENE	39180	108	2005/07/27	.000	2014/07
TRICHLOROFUOROMETHANE	34488	108	2005/07/27	.000	2014/07
VINYL CHLORIDE	39175	108	2005/07/27	.000	2014/07
XYLENES (TOTAL)	81551	108	2005/07/27	.000	2014/07

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	108	2006/01/18	11.490	2015/01
BICARBONATE ALKALINITY	00440	108	2006/01/18	120.000	2015/01
CALCIUM	00916	108	2006/01/18	12.000	2015/01
CARBONATE ALKALINITY	00445	108	2006/01/18	.000	2015/01
CHLORIDE	00940	108	2006/01/18	11.000	2015/01
COLOR	00081	108	2006/01/18	.000	2015/01
COPPER	01042	108	2006/01/18	.000	2015/01
FOAMING AGENTS (MBAS)	38260	108	2006/01/18	.000	2015/01
HARDNESS (TOTAL) AS CaCO3	00900	108	2006/01/18	33.000	2015/01
HYDROXIDE ALKALINITY	71830	108	2006/01/18	.000	2015/01
IRON	01045	108	2006/01/18	.000	2015/01
MAGNESIUM	00927	108	2006/01/18	1.100	2015/01
MANGANESE	01055	108	2006/01/18	.000	2015/01
ODOR THRESHOLD @ 60 C	00086	108	2006/01/18	1.000	2015/01
PH, LABORATORY	00403	108	2007/01/09	8.100	2016/01
SILVER	01077	108	2006/01/18	.000	2015/01
SODIUM	00929	108	2006/01/18	51.000	2015/01
SPECIFIC CONDUCTANCE	00095	108	2006/01/18	270.000	2015/01
SULFATE	00945	108	2006/01/18	13.000	2015/01
TOTAL DISSOLVED SOLIDS	70300	108	2006/01/18	150.000	2015/01
TURBIDITY, LABORATORY	82079	108	2006/01/18	.100	2015/01
ZINC	01092	108	2006/01/18	.000	2015/01

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-011 WELL 11 - TREATMENT

Source Number: 011

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2006/01/18	.000	2009/01
ANTIMONY	01097	36	2006/01/18	.000	2009/01
ARSENIC	01002	1	2008/04/07	14.000	2008/05
ASBESTOS	81855	WAIVED			
BARIUM	01007	36	2006/01/18	.000	2009/01
BERYLLIUM	01012	36	2006/01/18	.000	2009/01
CADMIUM	01027	36	2006/01/18	.000	2009/01
CHROMIUM (TOTAL)	01034	36	2006/01/18	25.000	2009/01
CYANIDE	01291	36	2006/01/18	.000	2009/01
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2008/04/07	2.600	2011/04
LEAD	01051	WAIVED	2006/01/18	.000	
MERCURY	71900	36	2006/01/18	.000	2009/01
NICKEL	01067	36	2006/01/18	.000	2009/01
PERCHLORATE	A-031	WAIVED	2008/04/08	.000	
SELENIUM	01147	36	2006/01/18	.000	2009/01
THALLIUM	01059	36	2006/01/18	.000	2009/01

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2007/10/05	12.000	2008/10
NITRITE (AS N)	00620	36	2006/01/18	.000	2009/01

RADIOLOGICAL

GROSS ALPHA	01501	36	2007/11/28	9.200	2010/11
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED	2004/02/25	.141	
RADIUM 228	11501	WAIVED	2007/11/28	.000	
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-011 WELL 11 - TREATMENT

Source Number: 011

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	2007/11/28	12.000
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	72	1993/08/16	.000	1999/08	DUE
2,4,5-TP (SILVEX)	39045	72	1993/08/16	.000	1999/08	DUE
2,4-D	39730	72	1993/08/16	.000	1999/08	DUE
ALACHLOR	77825	72	1993/08/16	.000	1999/08	DUE
ATRAZINE	39033	72	1993/08/16	.000	1999/08	DUE
BENTAZON	38710	72	1993/08/16	.000	1999/08	DUE
BENZO (A) PYRENE	34247	72	1993/08/16	.000	1999/08	DUE
CARBOFURAN	81405	72	1993/08/16	.000	1999/08	DUE
CHLORDANE	39350	72	1993/08/16	.000	1999/08	DUE
DALAPON	38432	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)ADIPATE	A-026	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)PHTHALATE	39100	72	1993/08/16	.000	1999/08	DUE
DIBROMOCHLOROPROPANE (DBCP)	38761	36	2005/11/29	.000	2008/11	
DINOSEB	81287	72	1993/08/16	.000	1999/08	DUE
DIQUAT	78885	72	1993/08/16	.000	1999/08	DUE
ENDOTHALL	38926	72	1993/08/16	.000	1999/08	DUE
ENDRIN	39390	72	1993/08/16	.000	1999/08	DUE
ETHYLENE DIBROMIDE (EDB)	77651	36	2005/11/29	.000	2008/11	
GLYPHOSATE	79743	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR	39410	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR EPOXIDE	39420	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROBENZENE	39700	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROCYCLOPENTADIENE	34386	72	1993/08/16	.000	1999/08	DUE
LINDANE	39340	72	1993/08/16	.000	1999/08	DUE
METHOXYCHLOR	39480	72	1993/08/16	.000	1999/08	DUE
MOLINATE	82199	72	1993/08/16	.000	1999/08	DUE
OXAMYL	38865	72	1993/08/16	.000	1999/08	DUE

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-011 WELL 11 - TREATMENT

Source Number: 011

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	72	1993/08/16	.000	1999/08 DUE
PICLORAM	39720	72	1993/08/16	.000	1999/08 DUE
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	72	1993/08/16	.000	1999/08 DUE
SIMAZINE	39055	72	1993/08/16	.000	1999/08 DUE
THIOBENCARB	A-001	72	1993/08/16	.000	1999/08 DUE
TOXAPHENE	39400	72	1993/08/16	.000	1999/08 DUE

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2005/07/27	.000	2011/07
1,1,2,2-TETRACHLOROETHANE	34516	72	2005/07/27	.000	2011/07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2005/07/27	.000	2011/07
1,1,2-TRICHLOROETHANE	34511	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHANE	34496	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHYLENE	34501	72	2005/07/27	.000	2011/07
1,2,4-TRICHLOROBENZENE	34551	72	2005/07/27	.000	2011/07
1,2-DICHLOROBENZENE	34536	72	2005/07/27	.000	2011/07
1,2-DICHLOROETHANE	34531	72	2005/07/27	.000	2011/07
1,2-DICHLOROPROPANE	34541	72	2005/07/27	.000	2011/07
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2005/07/27	.000	2011/07
1,4-DICHLOROBENZENE	34571	72	2005/07/27	.000	2011/07
BENZENE	34030	72	2005/07/27	.000	2011/07
CARBON TETRACHLORIDE	32102	72	2005/07/27	.000	2011/07
CIS-1,2-DICHLOROETHYLENE	77093	72	2005/07/27	.000	2011/07
DICHLOROMETHANE	34423	72	2005/07/27	.000	2011/07
ETHYLBENZENE	34371	72	2005/07/27	.000	2011/07
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2005/07/27	.000	2008/07
MONOCHLOROBENZENE	34301	72	2005/07/27	.000	2011/07
STYRENE	77128	72	2005/07/27	.000	2011/07
TETRACHLOROETHYLENE	34475	72	2005/07/27	.000	2011/07
TOLUENE	34010	72	2005/07/27	.000	2011/07

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-011 WELL 11 - TREATMENT

Source Number: 011

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2005/07/27	.000	2011/07
TRICHLOROETHYLENE	39180	72	2005/07/27	.000	2011/07
TRICHLOROFUOROMETHANE	34488	72	2005/07/27	.000	2011/07
VINYL CHLORIDE	39175	72	2005/07/27	.000	2011/07
XYLENES (TOTAL)	81551	72	2005/07/27	.000	2011/07

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2006/01/18	11.510	2009/01
BICARBONATE ALKALINITY	00440	36	2006/01/18	130.000	2009/01
CALCIUM	00916	36	2006/01/18	16.000	2009/01
CARBONATE ALKALINITY	00445	36	2006/01/18	.000	2009/01
CHLORIDE	00940	36	2006/01/18	11.000	2009/01
COLOR	00081	36	2006/01/18	.000	2009/01
COPPER	01042	36	2006/01/18	.000	2009/01
FOAMING AGENTS (MBAS)	38260	36	2006/01/18	.000	2009/01
HARDNESS (TOTAL) AS CaCO3	00900	36	2006/01/18	42.000	2009/01
HYDROXIDE ALKALINITY	71830	36	2006/01/18	.000	2009/01
IRON	01045	36	2006/01/18	.000	2009/01
MAGNESIUM	00927	36	2006/01/18	1.400	2009/01
MANGANESE	01055	36	2006/01/18	.000	2009/01
ODOR THRESHOLD @ 60 C	00086	36	2006/01/18	1.000	2009/01
PH, LABORATORY	00403	36	2006/12/04	8.200	2009/12
SILVER	01077	36	2006/01/18	.000	2009/01
SODIUM	00929	36	2006/01/18	49.000	2009/01
SPECIFIC CONDUCTANCE	00095	36	2006/01/18	270.000	2009/01
SULFATE	00945	36	2006/01/18	14.000	2009/01
TOTAL DISSOLVED SOLIDS	70300	36	2006/01/18	160.000	2009/01
TURBIDITY, LABORATORY	82079	36	2006/01/18	.100	2009/01
ZINC	01092	36	2006/01/18	.000	2009/01

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-012 WELL 12

Source Number: 012

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2006/01/18	.000	2009/01
ANTIMONY	01097	36	2006/01/18	.000	2009/01
ARSENIC	01002	36	2006/10/30	6.300	2009/10
ASBESTOS	81855	WAIVED			
BARIUM	01007	36	2006/01/18	.000	2009/01
BERYLLIUM	01012	36	2006/01/18	.000	2009/01
CADMIUM	01027	36	2006/01/18	.000	2009/01
CHROMIUM (TOTAL)	01034	36	2006/01/18	11.000	2009/01
CYANIDE	01291	36	2006/01/18	.000	2009/01
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2008/04/07	1.300	2011/04
LEAD	01051	WAIVED	2006/01/18	.000	
MERCURY	71900	36	2006/01/18	.000	2009/01
NICKEL	01067	36	2006/01/18	.000	2009/01
PERCHLORATE	A-031	WAIVED	2008/04/08	.000	
SELENIUM	01147	36	2006/01/18	.000	2009/01
THALLIUM	01059	36	2006/01/18	.000	2009/01

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2007/09/17	9.300	2008/09
NITRITE (AS N)	00620	36	2006/01/18	.000	2009/01

RADIOLOGICAL

GROSS ALPHA	01501	36	2007/11/28	6.600	2010/11
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED	2004/02/25	.142	
RADIUM 228	11501	WAIVED	2007/11/28	.175	
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-012 WELL 12

Source Number: 012

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	2007/11/28	8.400
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	72	1993/08/16	.000	1999/08	DUE
2,4,5-TP (SILVEX)	39045	72	1993/08/16	.000	1999/08	DUE
2,4-D	39730	72	1993/08/16	.000	1999/08	DUE
ALACHLOR	77825	72	1993/08/16	.000	1999/08	DUE
ATRAZINE	39033	72	1993/08/16	.000	1999/08	DUE
BENTAZON	38710	72	1993/08/16	.000	1999/08	DUE
BENZO (A) PYRENE	34247	72	1993/08/16	.000	1999/08	DUE
CARBOFURAN	81405	72	1993/08/16	.000	1999/08	DUE
CHLORDANE	39350	72	1993/08/16	.000	1999/08	DUE
DALAPON	38432	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)ADIPATE	A-026	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)PHTHALATE	39100	72	1993/08/16	.000	1999/08	DUE
DIBROMOCHLOROPROPANE (DBCP)	38761	36	2005/11/29	.000	2008/11	
DINOSEB	81287	72	1993/08/16	.000	1999/08	DUE
DIQUAT	78885	72	1993/08/16	.000	1999/08	DUE
ENDOTHALL	38926	72	1993/08/16	.000	1999/08	DUE
ENDRIN	39390	72	1993/08/16	.000	1999/08	DUE
ETHYLENE DIBROMIDE (EDB)	77651	36	2005/11/29	.000	2008/11	
GLYPHOSATE	79743	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR	39410	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR EPOXIDE	39420	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROBENZENE	39700	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROCYCLOPENTADIENE	34386	72	1993/08/16	.000	1999/08	DUE
LINDANE	39340	72	1993/08/16	.000	1999/08	DUE
METHOXYCHLOR	39480	72	1993/08/16	.000	1999/08	DUE
MOLINATE	82199	72	1993/08/16	.000	1999/08	DUE
OXAMYL	38865	72	1993/08/16	.000	1999/08	DUE

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-012 WELL 12

Source Number: 012

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	72	1993/08/16	.000	1999/08 DUE
PICLORAM	39720	72	1993/08/16	.000	1999/08 DUE
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	72	1993/08/16	.000	1999/08 DUE
SIMAZINE	39055	72	1993/08/16	.000	1999/08 DUE
THIOBENCARB	A-001	72	1993/08/16	.000	1999/08 DUE
TOXAPHENE	39400	72	1993/08/16	.000	1999/08 DUE

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2005/07/27	.000	2011/07
1,1,2,2-TETRACHLOROETHANE	34516	72	2005/07/27	.000	2011/07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2005/07/27	.000	2011/07
1,1,2-TRICHLOROETHANE	34511	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHANE	34496	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHYLENE	34501	72	2005/07/27	.000	2011/07
1,2,4-TRICHLOROBENZENE	34551	72	2005/07/27	.000	2011/07
1,2-DICHLOROBENZENE	34536	72	2005/07/27	.000	2011/07
1,2-DICHLOROETHANE	34531	72	2005/07/27	.000	2011/07
1,2-DICHLOROPROPANE	34541	72	2005/07/27	.000	2011/07
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2005/07/27	.000	2011/07
1,4-DICHLOROBENZENE	34571	72	2005/07/27	.000	2011/07
BENZENE	34030	72	2005/07/27	.000	2011/07
CARBON TETRACHLORIDE	32102	72	2005/07/27	.000	2011/07
CIS-1,2-DICHLOROETHYLENE	77093	72	2005/07/27	.000	2011/07
DICHLOROMETHANE	34423	72	2005/07/27	.000	2011/07
ETHYLBENZENE	34371	72	2005/07/27	.000	2011/07
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2005/07/27	.000	2008/07
MONOCHLOROBENZENE	34301	72	2005/07/27	.000	2011/07
STYRENE	77128	72	2005/07/27	.000	2011/07
TETRACHLOROETHYLENE	34475	72	2005/07/27	.000	2011/07
TOLUENE	34010	72	2005/07/27	.000	2011/07

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-012 WELL 12

Source Number: 012

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2005/07/27	.000	2011/07
TRICHLOROETHYLENE	39180	72	2005/07/27	.000	2011/07
TRICHLOROFUOROMETHANE	34488	72	2005/07/27	.000	2011/07
VINYL CHLORIDE	39175	72	2005/07/27	.000	2011/07
XYLENES (TOTAL)	81551	72	2005/07/27	.000	2011/07

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2006/01/18	11.470	2009/01
BICARBONATE ALKALINITY	00440	36	2006/01/18	110.000	2009/01
CALCIUM	00916	36	2006/01/18	21.000	2009/01
CARBONATE ALKALINITY	00445	36	2006/01/18	.000	2009/01
CHLORIDE	00940	36	2006/01/18	9.700	2009/01
COLOR	00081	36	2006/01/18	.000	2009/01
COPPER	01042	36	2006/01/18	.000	2009/01
FOAMING AGENTS (MBAS)	38260	36	2006/01/18	.000	2009/01
HARDNESS (TOTAL) AS CaCO3	00900	36	2006/01/18	58.000	2009/01
HYDROXIDE ALKALINITY	71830	36	2006/01/18	.000	2009/01
IRON	01045	36	2006/01/18	.000	2009/01
MAGNESIUM	00927	36	2006/01/18	1.400	2009/01
MANGANESE	01055	36	2006/01/18	.000	2009/01
ODOR THRESHOLD @ 60 C	00086	36	2006/01/18	1.000	2009/01
PH, LABORATORY	00403	36	2006/01/18	7.800	2009/01
SILVER	01077	36	2006/01/18	.000	2009/01
SODIUM	00929	36	2006/01/18	29.000	2009/01
SPECIFIC CONDUCTANCE	00095	36	2006/01/18	230.000	2009/01
SULFATE	00945	36	2006/01/18	12.000	2009/01
TOTAL DISSOLVED SOLIDS	70300	36	2006/01/18	140.000	2009/01
TURBIDITY, LABORATORY	82079	36	2006/01/18	.100	2009/01
ZINC	01092	36	2006/01/18	.000	2009/01

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-013 WELL 13

Source Number: 013

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2003/01/13	.000	2006/01	DUE
ANTIMONY	01097	36	2003/01/13	.000	2006/01	DUE
ARSENIC	01002	36	2004/08/23	.000	2007/08	DUE
ASBESTOS	81855	WAIVED				
BARIUM	01007	36	2003/01/13	.000	2006/01	DUE
BERYLLIUM	01012	36	2003/01/13	.000	2006/01	DUE
CADMIUM	01027	36	2003/01/13	.000	2006/01	DUE
CHROMIUM (TOTAL)	01034	36	2003/01/13	.000	2006/01	DUE
CYANIDE	01291	36	2003/01/13	.000	2006/01	DUE
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2004/10/04	1.100	2007/10	DUE
LEAD	01051	WAIVED	2003/01/13	.000		
MERCURY	71900	36	2003/01/13	.000	2006/01	DUE
NICKEL	01067	36	2003/01/13	.000	2006/01	DUE
PERCHLORATE	A-031	WAIVED	2003/09/24	.000		
SELENIUM	01147	36	2003/01/13	.000	2006/01	DUE
THALLIUM	01059	36	2003/01/13	.000	2006/01	DUE

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2004/07/16	8.300	2005/07	DUE
NITRITE (AS N)	00620	36	2003/01/13	.000	2006/01	DUE

RADIOLOGICAL

GROSS ALPHA	01501	36	2003/10/24	8.170	2006/10	DUE
GROSS BETA	03501	WAIVED				
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED				
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED				
RADIUM 226	09501	WAIVED	2004/02/25	.141		
RADIUM 228	11501	WAIVED	2000/04/10	< 1.040		
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED				
STRONTIUM-90	13501	WAIVED				
TRITIUM	07000	WAIVED				

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-013 WELL 13

Source Number: 013

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	1999/04/13	16.000
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	72	1993/08/16	.000	1999/08	DUE
2,4,5-TP (SILVEX)	39045	72	1993/08/16	.000	1999/08	DUE
2,4-D	39730	72	1993/08/16	.000	1999/08	DUE
ALACHLOR	77825	72	1993/08/16	.000	1999/08	DUE
ATRAZINE	39033	72	1993/08/16	.000	1999/08	DUE
BENTAZON	38710	72	1993/08/16	.000	1999/08	DUE
BENZO (A) PYRENE	34247	72	1993/08/16	.000	1999/08	DUE
CARBOFURAN	81405	72	1993/08/16	.000	1999/08	DUE
CHLORDANE	39350	72	1993/08/16	.000	1999/08	DUE
DALAPON	38432	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)ADIPATE	A-026	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)PHTHALATE	39100	72	1993/08/16	.000	1999/08	DUE
DIBROMOCHLOROPROPANE (DBCP)	38761	36	1993/08/16	.000	1996/08	DUE
DINOSEB	81287	72	1993/08/16	.000	1999/08	DUE
DIQUAT	78885	72	1993/08/16	.000	1999/08	DUE
ENDOTHALL	38926	72	1993/08/16	.000	1999/08	DUE
ENDRIN	39390	72	1993/08/16	.000	1999/08	DUE
ETHYLENE DIBROMIDE (EDB)	77651	36	1993/08/16	.000	1996/08	DUE
GLYPHOSATE	79743	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR	39410	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR EPOXIDE	39420	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROBENZENE	39700	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROCYCLOPENTADIENE	34386	72	1993/08/16	.000	1999/08	DUE
LINDANE	39340	72	1993/08/16	.000	1999/08	DUE
METHOXYCHLOR	39480	72	1993/08/16	.000	1999/08	DUE
MOLINATE	82199	72	1993/08/16	.000	1999/08	DUE
OXAMYL	38865	72	1993/08/16	.000	1999/08	DUE

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-013 WELL 13

Source Number: 013

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	72	1993/08/16	.000	1999/08 DUE
PICLORAM	39720	72	1993/08/16	.000	1999/08 DUE
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	72	1993/08/16	.000	1999/08 DUE
SIMAZINE	39055	72	1993/08/16	.000	1999/08 DUE
THIOBENCARB	A-001	72	1993/08/16	.000	1999/08 DUE
TOXAPHENE	39400	72	1993/08/16	.000	1999/08 DUE

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2003/09/24	.000	2009/09
1,1,2,2-TETRACHLOROETHANE	34516	72	2003/09/24	.000	2009/09
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2003/09/24	.000	2009/09
1,1,2-TRICHLOROETHANE	34511	72	2003/09/24	.000	2009/09
1,1-DICHLOROETHANE	34496	72	2003/09/24	.000	2009/09
1,1-DICHLOROETHYLENE	34501	72	2003/09/24	.000	2009/09
1,2,4-TRICHLOROBENZENE	34551	72	2003/09/24	.000	2009/09
1,2-DICHLOROBENZENE	34536	72	2003/09/24	.000	2009/09
1,2-DICHLOROETHANE	34531	72	2003/09/24	.000	2009/09
1,2-DICHLOROPROPANE	34541	72	2003/09/24	.000	2009/09
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2003/09/24	.000	2009/09
1,4-DICHLOROBENZENE	34571	72	2003/09/24	.000	2009/09
BENZENE	34030	72	2003/09/24	.000	2009/09
CARBON TETRACHLORIDE	32102	72	2003/09/24	.000	2009/09
CIS-1,2-DICHLOROETHYLENE	77093	72	2003/09/24	.000	2009/09
DICHLOROMETHANE	34423	72	2003/09/24	.000	2009/09
ETHYLBENZENE	34371	72	2003/09/24	.000	2009/09
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2003/09/24	.000	2006/09 DUE
MONOCHLOROBENZENE	34301	72	2003/09/24	.000	2009/09
STYRENE	77128	72	2003/09/24	.000	2009/09
TETRACHLOROETHYLENE	34475	72	2003/09/24	.000	2009/09
TOLUENE	34010	72	2003/09/24	.000	2009/09

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-013 WELL 13

Source Number: 013

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2003/09/24	.000	2009/09
TRICHLOROETHYLENE	39180	72	2003/09/24	.000	2009/09
TRICHLOROFUOROMETHANE	34488	72	2003/09/24	.000	2009/09
VINYL CHLORIDE	39175	72	2003/09/24	.000	2009/09
XYLENES (TOTAL)	81551	72	2003/09/24	.000	2009/09

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2003/01/13	11.480	2006/01 DUE
BICARBONATE ALKALINITY	00440	36	2003/01/13	120.000	2006/01 DUE
CALCIUM	00916	36	2003/01/13	30.000	2006/01 DUE
CARBONATE ALKALINITY	00445	36	2003/01/13	.000	2006/01 DUE
CHLORIDE	00940	36	2003/01/13	13.000	2006/01 DUE
COLOR	00081	36	2003/01/13	.000	2006/01 DUE
COPPER	01042	36	2003/01/13	.000	2006/01 DUE
FOAMING AGENTS (MBAS)	38260	36	2003/01/13	.000	2006/01 DUE
HARDNESS (TOTAL) AS CaCO3	00900	36	2003/01/13	94.000	2006/01 DUE
HYDROXIDE ALKALINITY	71830	36	2003/01/13	.000	2006/01 DUE
IRON	01045	36	2003/01/13	.000	2006/01 DUE
MAGNESIUM	00927	36	2003/01/13	6.500	2006/01 DUE
MANGANESE	01055	36	2003/01/13	.000	2006/01 DUE
ODOR THRESHOLD @ 60 C	00086	36	2003/01/13	1.000	2006/01 DUE
PH, LABORATORY	00403	36	2003/01/13	7.600	2006/01 DUE
SILVER	01077	36	2003/01/13	.000	2006/01 DUE
SODIUM	00929	36	2003/01/13	24.000	2006/01 DUE
SPECIFIC CONDUCTANCE	00095	36	2003/01/13	290.000	2006/01 DUE
SULFATE	00945	36	2003/01/13	18.000	2006/01 DUE
TOTAL DISSOLVED SOLIDS	70300	36	2003/01/13	160.000	2006/01 DUE
TURBIDITY, LABORATORY	82079	36	2003/01/13	.100	2006/01 DUE
ZINC	01092	36	2003/01/13	.000	2006/01 DUE

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-014 WELL 15

Source Number: 014

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2006/12/27	75.000	2009/12
ANTIMONY	01097	36	2006/12/27	.000	2009/12
ARSENIC	01002	36	2006/12/27	.000	2009/12
ASBESTOS	81855	WAIVED	2006/12/27	.000	
BARIUM	01007	36	2006/12/27	.000	2009/12
BERYLLIUM	01012	36	2006/12/27	.000	2009/12
CADMIUM	01027	36	2006/12/27	.000	2009/12
CHROMIUM (TOTAL)	01034	36	2006/12/27	.000	2009/12
CYANIDE	01291	36	2006/12/27	.000	2009/12
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2008/04/07	.430	2011/04
LEAD	01051	WAIVED	2006/12/27	.000	
MERCURY	71900	36	2006/12/27	.000	2009/12
NICKEL	01067	36	2006/12/27	.000	2009/12
PERCHLORATE	A-031	WAIVED	2008/04/08	.000	
SELENIUM	01147	36	2006/12/27	.000	2009/12
THALLIUM	01059	36	2006/12/27	.000	2009/12

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2007/09/17	12.000	2008/09
NITRITE (AS N)	00620	36	2006/12/27	.000	2009/12

RADIOLOGICAL

GROSS ALPHA	01501	36	2007/11/28	5.400	2010/11
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED			
RADIUM 228	11501	WAIVED	2007/11/28	.000	
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-014 WELL 15

Source Number: 014

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	2007/11/28	5.300
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	72	2006/12/27	.000	2012/12
2,4,5-TP (SILVEX)	39045	72	2006/12/27	.000	2012/12
2,4-D	39730	72	2006/12/27	.000	2012/12
ALACHLOR	77825	72	2006/12/27	< 1.000	2012/12
ATRAZINE	39033	72	2006/12/27	< .500	2012/12
BENTAZON	38710	72	2006/12/27	.000	2012/12
BENZO (A) PYRENE	34247	72	2006/12/27	< .100	2012/12
CARBOFURAN	81405	72	2006/12/27	.000	2012/12
CHLORDANE	39350	72	2006/12/27	< .100	2012/12
DALAPON	38432	72	2006/12/27	.000	2012/12
DI(2-ETHYLHEXYL)ADIPATE	A-026	72	2006/12/27	< 5.000	2012/12
DI(2-ETHYLHEXYL)PHTHALATE	39100	72	2006/12/27	< 3.000	2012/12
DIBROMOCHLOROPROPANE (DBCP)	38761	36	2006/12/27	.000	2009/12
DINOSEB	81287	72	2006/12/27	.000	2012/12
DIQUAT	78885	72	2006/12/27	< 4.000	2012/12
ENDOTHALL	38926	72	2006/12/27	< 45.000	2012/12
ENDRIN	39390	72	2006/12/27	< .100	2012/12
ETHYLENE DIBROMIDE (EDB)	77651	36	2006/12/27	.000	2009/12
GLYPHOSATE	79743	72	2006/12/27	.000	2012/12
HEPTACHLOR	39410	72	2006/12/27	< .010	2012/12
HEPTACHLOR EPOXIDE	39420	72	2006/12/27	< .010	2012/12
HEXACHLOROBENZENE	39700	72	2006/12/27	< .500	2012/12
HEXACHLOROCYCLOPENTADIENE	34386	72	2006/12/27	< 1.000	2012/12
LINDANE	39340	72	2006/12/27	< .200	2012/12
METHOXYCHLOR	39480	72	2006/12/27	< 10.000	2012/12
MOLINATE	82199	72	2006/12/27	< 2.000	2012/12
OXAMYL	38865	72	2006/12/27	.000	2012/12

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-014 WELL 15

Source Number: 014

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	72	2006/12/27	.000	2012/12
PICLORAM	39720	72	2006/12/27	.000	2012/12
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	72	2006/12/27	< .500	2012/12
SIMAZINE	39055	72	2006/12/27	< 1.000	2012/12
THIOBENCARB	A-001	72	2006/12/27	< 1.000	2012/12
TOXAPHENE	39400	72	2006/12/27	< 1.000	2012/12

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2007/12/03	.000	2013/12
1,1,2,2-TETRACHLOROETHANE	34516	72	2007/12/03	.000	2013/12
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2007/12/03	.000	2013/12
1,1,2-TRICHLOROETHANE	34511	72	2007/12/03	.000	2013/12
1,1-DICHLOROETHANE	34496	72	2007/12/03	.000	2013/12
1,1-DICHLOROETHYLENE	34501	72	2007/12/03	.000	2013/12
1,2,4-TRICHLOROBENZENE	34551	72	2007/12/03	.000	2013/12
1,2-DICHLOROBENZENE	34536	72	2007/12/03	.000	2013/12
1,2-DICHLOROETHANE	34531	72	2007/12/03	.000	2013/12
1,2-DICHLOROPROPANE	34541	72	2007/12/03	.000	2013/12
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2007/12/03	.000	2013/12
1,4-DICHLOROBENZENE	34571	72	2007/12/03	.000	2013/12
BENZENE	34030	72	2007/12/03	.000	2013/12
CARBON TETRACHLORIDE	32102	72	2007/12/03	.000	2013/12
CIS-1,2-DICHLOROETHYLENE	77093	72	2007/12/03	.000	2013/12
DICHLOROMETHANE	34423	72	2007/12/03	.000	2013/12
ETHYLBENZENE	34371	72	2007/12/03	.000	2013/12
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2007/12/03	.000	2010/12
MONOCHLOROBENZENE	34301	72	2007/12/03	.000	2013/12
STYRENE	77128	72	2007/12/03	.000	2013/12
TETRACHLOROETHYLENE	34475	72	2007/12/03	.000	2013/12
TOLUENE	34010	72	2007/12/03	.000	2013/12

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-014 WELL 15

Source Number: 014

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2007/12/03	.000	2013/12
TRICHLOROETHYLENE	39180	72	2007/12/03	.000	2013/12
TRICHLOROFUOROMETHANE	34488	72	2007/12/03	.000	2013/12
VINYL CHLORIDE	39175	72	2007/12/03	.000	2013/12
XYLENES (TOTAL)	81551	72	2007/12/03	.000	2013/12

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2006/12/27	10.640	2009/12
BICARBONATE ALKALINITY	00440	36	2006/12/27	98.000	2009/12
CALCIUM	00916	36	2006/12/27	22.000	2009/12
CARBONATE ALKALINITY	00445	36	2006/12/27	.000	2009/12
CHLORIDE	00940	36	2006/12/27	8.900	2009/12
COLOR	00081	36	2006/12/27	.000	2009/12
COPPER	01042	36	2006/12/27	.000	2009/12
FOAMING AGENTS (MBAS)	38260	36	2006/12/27	.000	2009/12
HARDNESS (TOTAL) AS CaCO3	00900	36	2006/12/27	70.000	2009/12
HYDROXIDE ALKALINITY	71830	36	2006/12/27	.000	2009/12
IRON	01045	36	2006/12/27	180.000	2009/12
MAGNESIUM	00927	36	2006/12/27	3.900	2009/12
MANGANESE	01055	36	2006/12/27	.000	2009/12
ODOR THRESHOLD @ 60 C	00086	36	2006/12/27	1.000	2009/12
PH, LABORATORY	00403	36	2006/12/27	7.000	2009/12
SILVER	01077	36	2006/12/27	.000	2009/12
SODIUM	00929	36	2006/12/27	16.000	2009/12
SPECIFIC CONDUCTANCE	00095	36	2006/12/27	190.000	2009/12
SULFATE	00945	36	2006/12/27	11.000	2009/12
TOTAL DISSOLVED SOLIDS	70300	36	2006/12/27	150.000	2009/12
TURBIDITY, LABORATORY	82079	36	2006/12/27	.600	2009/12
ZINC	01092	36	2006/12/27	79.000	2009/12

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-015 WELL 16

Source Number: 015

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2006/01/18	.000	2009/01
ANTIMONY	01097	36	2006/01/18	.000	2009/01
ARSENIC	01002	36	2006/10/30	.000	2009/10
ASBESTOS	81855	WAIVED			
BARIUM	01007	36	2006/01/18	.000	2009/01
BERYLLIUM	01012	36	2006/01/18	.000	2009/01
CADMIUM	01027	36	2006/01/18	.000	2009/01
CHROMIUM (TOTAL)	01034	36	2006/01/18	.000	2009/01
CYANIDE	01291	36	2006/01/18	.000	2009/01
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2008/04/07	1.900	2011/04
LEAD	01051	WAIVED	2006/01/18	.000	
MERCURY	71900	36	2006/01/18	.000	2009/01
NICKEL	01067	36	2006/01/18	.000	2009/01
PERCHLORATE	A-031	WAIVED	2008/04/08	.000	
SELENIUM	01147	36	2006/01/18	.000	2009/01
THALLIUM	01059	36	2006/01/18	.000	2009/01

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2007/09/17	7.000	2008/09
NITRITE (AS N)	00620	36	2006/01/18	.000	2009/01

RADIOLOGICAL

GROSS ALPHA	01501	36	2007/11/28	19.000	2010/11
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED	2004/02/25	.000	
RADIUM 228	11501	WAIVED	2007/11/28	.334	
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-015 WELL 16

Source Number: 015

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	2007/11/28	18.000
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	72	1993/08/16	.000	1999/08	DUE
2,4,5-TP (SILVEX)	39045	72	1993/08/16	.000	1999/08	DUE
2,4-D	39730	72	1993/08/16	.000	1999/08	DUE
ALACHLOR	77825	72	1993/08/16	.000	1999/08	DUE
ATRAZINE	39033	72	1993/08/16	.000	1999/08	DUE
BENTAZON	38710	72	1993/08/16	.000	1999/08	DUE
BENZO (A) PYRENE	34247	72	1993/08/16	.000	1999/08	DUE
CARBOFURAN	81405	72	1993/08/16	.000	1999/08	DUE
CHLORDANE	39350	72	1993/08/16	.000	1999/08	DUE
DALAPON	38432	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)ADIPATE	A-026	72	1993/08/16	.000	1999/08	DUE
DI(2-ETHYLHEXYL)PHTHALATE	39100	72	1993/08/16	.000	1999/08	DUE
DIBROMOCHLOROPROPANE (DBCP)	38761	36	2005/11/29	.000	2008/11	
DINOSEB	81287	72	1993/08/16	.000	1999/08	DUE
DIQUAT	78885	72	1993/08/16	.000	1999/08	DUE
ENDOTHALL	38926	72	1993/08/16	.000	1999/08	DUE
ENDRIN	39390	72	1993/08/16	.000	1999/08	DUE
ETHYLENE DIBROMIDE (EDB)	77651	36	2005/11/29	.000	2008/11	
GLYPHOSATE	79743	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR	39410	72	1993/08/16	.000	1999/08	DUE
HEPTACHLOR EPOXIDE	39420	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROBENZENE	39700	72	1993/08/16	.000	1999/08	DUE
HEXACHLOROCYCLOPENTADIENE	34386	72	1993/08/16	.000	1999/08	DUE
LINDANE	39340	72	1993/08/16	.000	1999/08	DUE
METHOXYCHLOR	39480	72	1993/08/16	.000	1999/08	DUE
MOLINATE	82199	72	1993/08/16	.000	1999/08	DUE
OXAMYL	38865	72	1993/08/16	.000	1999/08	DUE

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-015 WELL 16

Source Number: 015

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	72	1993/08/16	.000	1999/08 DUE
PICLORAM	39720	72	1993/08/16	.000	1999/08 DUE
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	72	1993/08/16	.000	1999/08 DUE
SIMAZINE	39055	72	1993/08/16	.000	1999/08 DUE
THIOBENCARB	A-001	72	1993/08/16	.000	1999/08 DUE
TOXAPHENE	39400	72	1993/08/16	.000	1999/08 DUE

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2005/07/27	.000	2011/07
1,1,2,2-TETRACHLOROETHANE	34516	72	2005/07/27	.000	2011/07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2005/07/27	.000	2011/07
1,1,2-TRICHLOROETHANE	34511	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHANE	34496	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHYLENE	34501	72	2005/07/27	.000	2011/07
1,2,4-TRICHLOROBENZENE	34551	72	2005/07/27	.000	2011/07
1,2-DICHLOROBENZENE	34536	72	2005/07/27	.000	2011/07
1,2-DICHLOROETHANE	34531	72	2005/07/27	.000	2011/07
1,2-DICHLOROPROPANE	34541	72	2005/07/27	.000	2011/07
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2005/07/27	.000	2011/07
1,4-DICHLOROBENZENE	34571	72	2005/07/27	.000	2011/07
BENZENE	34030	72	2005/07/27	.000	2011/07
CARBON TETRACHLORIDE	32102	72	2005/07/27	.000	2011/07
CIS-1,2-DICHLOROETHYLENE	77093	72	2005/07/27	.000	2011/07
DICHLOROMETHANE	34423	72	2005/07/27	.000	2011/07
ETHYLBENZENE	34371	72	2005/07/27	.000	2011/07
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2005/07/27	.000	2008/07
MONOCHLOROBENZENE	34301	72	2005/07/27	.000	2011/07
STYRENE	77128	72	2005/07/27	.000	2011/07
TETRACHLOROETHYLENE	34475	72	2005/07/27	.000	2011/07
TOLUENE	34010	72	2005/07/27	.000	2011/07

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-015 WELL 16

Source Number: 015

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2005/07/27	.000	2011/07
TRICHLOROETHYLENE	39180	72	2005/07/27	.000	2011/07
TRICHLOROFUOROMETHANE	34488	72	2005/07/27	.000	2011/07
VINYL CHLORIDE	39175	72	2005/07/27	.000	2011/07
XYLENES (TOTAL)	81551	72	2005/07/27	.000	2011/07

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2006/01/18	11.540	2009/01
BICARBONATE ALKALINITY	00440	36	2006/01/18	120.000	2009/01
CALCIUM	00916	36	2006/01/18	28.000	2009/01
CARBONATE ALKALINITY	00445	36	2006/01/18	.000	2009/01
CHLORIDE	00940	36	2006/01/18	11.000	2009/01
COLOR	00081	36	2006/01/18	.000	2009/01
COPPER	01042	36	2006/01/18	.000	2009/01
FOAMING AGENTS (MBAS)	38260	36	2006/01/18	.000	2009/01
HARDNESS (TOTAL) AS CaCO3	00900	36	2006/01/18	83.000	2009/01
HYDROXIDE ALKALINITY	71830	36	2006/01/18	.000	2009/01
IRON	01045	36	2006/01/18	.000	2009/01
MAGNESIUM	00927	36	2006/01/18	4.400	2009/01
MANGANESE	01055	36	2006/01/18	.000	2009/01
ODOR THRESHOLD @ 60 C	00086	36	2006/01/18	1.000	2009/01
PH, LABORATORY	00403	36	2006/01/18	7.700	2009/01
SILVER	01077	36	2006/01/18	.000	2009/01
SODIUM	00929	36	2006/01/18	29.000	2009/01
SPECIFIC CONDUCTANCE	00095	36	2006/01/18	260.000	2009/01
SULFATE	00945	36	2006/01/18	16.000	2009/01
TOTAL DISSOLVED SOLIDS	70300	36	2006/01/18	170.000	2009/01
TURBIDITY, LABORATORY	82079	36	2006/01/18	.200	2009/01
ZINC	01092	36	2006/01/18	.000	2009/01

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-016 WELL 14

Source Number: 016

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2006/01/18	.000	2009/01
ANTIMONY	01097	36	2006/01/18	.000	2009/01
ARSENIC	01002	36	2006/10/30	2.100	2009/10
ASBESTOS	81855	WAIVED			
BARIUM	01007	36	2006/01/18	.000	2009/01
BERYLLIUM	01012	36	2006/01/18	.000	2009/01
CADMIUM	01027	36	2006/01/18	.000	2009/01
CHROMIUM (TOTAL)	01034	36	2006/01/18	.000	2009/01
CYANIDE	01291	36	2006/01/18	.000	2009/01
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2008/04/07	.830	2011/04
LEAD	01051	WAIVED	2006/01/18	.000	
MERCURY	71900	36	2006/01/18	.000	2009/01
NICKEL	01067	36	2006/01/18	.000	2009/01
PERCHLORATE	A-031	WAIVED	2008/04/08	.000	
SELENIUM	01147	36	2006/01/18	.000	2009/01
THALLIUM	01059	36	2006/01/18	.000	2009/01

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2007/09/17	10.000	2008/09
NITRITE (AS N)	00620	36	2006/01/18	.000	2009/01

RADIOLOGICAL

GROSS ALPHA	01501	36	2007/11/28	6.400	2010/11
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED	2004/02/27	.000	
RADIUM 228	11501	WAIVED	2007/11/28	.000	
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-016 WELL 14

Source Number: 016

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	2007/11/28	8.500
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	0			DUE
2,4,5-TP (SILVEX)	39045	72	1993/04/15	.000	1999/04 DUE
2,4-D	39730	72	1993/04/15	.000	1999/04 DUE
ALACHLOR	77825	72	1993/04/15	.000	1999/04 DUE
ATRAZINE	39033	72	1993/04/15	.000	1999/04 DUE
BENTAZON	38710	72	1993/04/15	.000	1999/04 DUE
BENZO (A) PYRENE	34247	0			DUE
CARBOFURAN	81405	72	1993/04/15	.000	1999/04 DUE
CHLORDANE	39350	72	1993/04/15	.000	1999/04 DUE
DALAPON	38432	0			DUE
DI(2-ETHYLHEXYL)ADIPATE	A-026	0			DUE
DI(2-ETHYLHEXYL)PHTHALATE	39100	72	1993/04/15	.000	1999/04 DUE
DIBROMOCHLOROPROPANE (DBCP)	38761	36	2005/11/29	.000	2008/11
DINOSEB	81287	0			DUE
DIQUAT	78885	0			DUE
ENDOTHALL	38926	0			DUE
ENDRIN	39390	72	1993/04/15	.000	1999/04 DUE
ETHYLENE DIBROMIDE (EDB)	77651	36	2005/11/29	.000	2008/11
GLYPHOSATE	79743	72	1993/04/15	.000	1999/04 DUE
HEPTACHLOR	39410	72	1993/04/15	.000	1999/04 DUE
HEPTACHLOR EPOXIDE	39420	72	1993/04/15	.000	1999/04 DUE
HEXACHLOROBENZENE	39700	0			DUE
HEXACHLOROCYCLOPENTADIENE	34386	0			DUE
LINDANE	39340	72	1993/04/15	.000	1999/04 DUE
METHOXYCHLOR	39480	72	1993/04/15	.000	1999/04 DUE
MOLINATE	82199	72	1993/04/15	.000	1999/04 DUE
OXAMYL	38865	0			DUE

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-016 WELL 14

Source Number: 016

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	0			DUE
PICLORAM	39720	0			DUE
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	0			DUE
SIMAZINE	39055	72	1993/04/15	.000	1999/04 DUE
THIOBENCARB	A-001	72	1993/04/15	.000	1999/04 DUE
TOXAPHENE	39400	72	1993/04/15	.000	1999/04 DUE

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2005/07/27	.000	2011/07
1,1,2,2-TETRACHLOROETHANE	34516	72	2005/07/27	.000	2011/07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2005/07/27	.000	2011/07
1,1,2-TRICHLOROETHANE	34511	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHANE	34496	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHYLENE	34501	72	2005/07/27	.000	2011/07
1,2,4-TRICHLOROBENZENE	34551	72	2005/07/27	.000	2011/07
1,2-DICHLOROBENZENE	34536	72	2005/07/27	.000	2011/07
1,2-DICHLOROETHANE	34531	72	2005/07/27	.000	2011/07
1,2-DICHLOROPROPANE	34541	72	2005/07/27	.000	2011/07
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2005/07/27	.000	2011/07
1,4-DICHLOROBENZENE	34571	72	2005/07/27	.000	2011/07
BENZENE	34030	72	2005/07/27	.000	2011/07
CARBON TETRACHLORIDE	32102	72	2005/07/27	.000	2011/07
CIS-1,2-DICHLOROETHYLENE	77093	72	2005/07/27	.000	2011/07
DICHLOROMETHANE	34423	72	2005/07/27	.000	2011/07
ETHYLBENZENE	34371	72	2005/07/27	.000	2011/07
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2005/07/27	.000	2008/07
MONOCHLOROBENZENE	34301	72	2005/07/27	.000	2011/07
STYRENE	77128	72	2005/07/27	.000	2011/07
TETRACHLOROETHYLENE	34475	72	2005/07/27	.000	2011/07
TOLUENE	34010	72	2005/07/27	.000	2011/07

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-016 WELL 14

Source Number: 016

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2005/07/27	.000	2011/07
TRICHLOROETHYLENE	39180	72	2005/07/27	.000	2011/07
TRICHLOROFUOROMETHANE	34488	72	2005/07/27	.000	2011/07
VINYL CHLORIDE	39175	72	2005/07/27	.000	2011/07
XYLENES (TOTAL)	81551	72	2005/07/27	.000	2011/07

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2006/01/18	11.540	2009/01
BICARBONATE ALKALINITY	00440	36	2006/01/18	110.000	2009/01
CALCIUM	00916	36	2006/01/18	25.000	2009/01
CARBONATE ALKALINITY	00445	36	2006/01/18	.000	2009/01
CHLORIDE	00940	36	2006/01/18	11.000	2009/01
COLOR	00081	36	2006/01/18	.000	2009/01
COPPER	01042	36	2006/01/18	.000	2009/01
FOAMING AGENTS (MBAS)	38260	36	2006/01/18	.000	2009/01
HARDNESS (TOTAL) AS CaCO3	00900	36	2006/01/18	72.000	2009/01
HYDROXIDE ALKALINITY	71830	36	2006/01/18	.000	2009/01
IRON	01045	36	2006/01/18	.000	2009/01
MAGNESIUM	00927	36	2006/01/18	3.600	2009/01
MANGANESE	01055	36	2006/01/18	.000	2009/01
ODOR THRESHOLD @ 60 C	00086	36	2006/01/18	1.000	2009/01
PH, LABORATORY	00403	36	2006/01/18	7.800	2009/01
SILVER	01077	36	2006/01/18	.000	2009/01
SODIUM	00929	36	2006/01/18	24.000	2009/01
SPECIFIC CONDUCTANCE	00095	36	2006/01/18	230.000	2009/01
SULFATE	00945	36	2006/01/18	13.000	2009/01
TOTAL DISSOLVED SOLIDS	70300	36	2006/01/18	150.000	2009/01
TURBIDITY, LABORATORY	82079	36	2006/01/18	.100	2009/01
ZINC	01092	36	2006/01/18	.000	2009/01

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-018 WELL WTP-1

Source Number: 018

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	36	2006/01/18	.000	2009/01
ANTIMONY	01097	36	2006/01/18	.000	2009/01
ARSENIC	01002	36	2006/10/30	4.800	2009/10
ASBESTOS	81855	WAIVED			
BARIUM	01007	36	2006/01/18	.000	2009/01
BERYLLIUM	01012	36	2006/01/18	.000	2009/01
CADMIUM	01027	36	2006/01/18	.000	2009/01
CHROMIUM (TOTAL)	01034	36	2006/01/18	.000	2009/01
CYANIDE	01291	36	2006/01/18	.000	2009/01
FLUORIDE (F) (NATURAL-SOURCE)	00951	36	2008/04/06	6.700	2011/04
LEAD	01051	WAIVED	2006/01/18	.000	
MERCURY	71900	36	2006/01/18	.000	2009/01
NICKEL	01067	36	2006/01/18	.000	2009/01
PERCHLORATE	A-031	WAIVED	2008/04/16	.000	
SELENIUM	01147	36	2006/01/18	.000	2009/01
THALLIUM	01059	36	2006/01/18	.000	2009/01

NITRATE/NITRITE

NITRATE (AS NO3)	71850	12	2007/09/18	.000	2008/09
NITRITE (AS N)	00620	36	2006/01/18	.000	2009/01

RADIOLOGICAL

GROSS ALPHA	01501	36	2007/11/28	14.000	2010/11
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED			
RADIUM 228	11501	WAIVED	2007/11/28	.305	
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-018 WELL WTP-1

Source Number: 018

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED	2007/11/28	15.000
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	0			DUE
2,4,5-TP (SILVEX)	39045	0			DUE
2,4-D	39730	0			DUE
ALACHLOR	77825	0			DUE
ATRAZINE	39033	0			DUE
BENTAZON	38710	0			DUE
BENZO (A) PYRENE	34247	0			DUE
CARBOFURAN	81405	0			DUE
CHLORDANE	39350	0			DUE
DALAPON	38432	0			DUE
DI(2-ETHYLHEXYL)ADIPATE	A-026	0			DUE
DI(2-ETHYLHEXYL)PHTHALATE	39100	0			DUE
DIBROMOCHLOROPROPANE (DBCP)	38761	36	2005/11/29	.000	2008/11
DINOSEB	81287	0			DUE
DIQUAT	78885	0			DUE
ENDOTHALL	38926	0			DUE
ENDRIN	39390	0			DUE
ETHYLENE DIBROMIDE (EDB)	77651	36	2005/11/29	.000	2008/11
GLYPHOSATE	79743	0			DUE
HEPTACHLOR	39410	0			DUE
HEPTACHLOR EPOXIDE	39420	0			DUE
HEXACHLOROBENZENE	39700	0			DUE
HEXACHLOROCYCLOPENTADIENE	34386	0			DUE
LINDANE	39340	0			DUE
METHOXYCHLOR	39480	0			DUE
MOLINATE	82199	0			DUE
OXAMYL	38865	0			DUE

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-018 WELL WTP-1

Source Number: 018

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	0		DUE
PICLORAM	39720	0		DUE
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	0		DUE
SIMAZINE	39055	0		DUE
THIOBENCARB	A-001	0		DUE
TOXAPHENE	39400	0		DUE

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	72	2005/07/27	.000	2011/07
1,1,2,2-TETRACHLOROETHANE	34516	72	2005/07/27	.000	2011/07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	72	2005/07/27	.000	2011/07
1,1,2-TRICHLOROETHANE	34511	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHANE	34496	72	2005/07/27	.000	2011/07
1,1-DICHLOROETHYLENE	34501	72	2005/07/27	.000	2011/07
1,2,4-TRICHLOROBENZENE	34551	72	2005/07/27	.000	2011/07
1,2-DICHLOROBENZENE	34536	72	2005/07/27	.000	2011/07
1,2-DICHLOROETHANE	34531	72	2005/07/27	.000	2011/07
1,2-DICHLOROPROPANE	34541	72	2005/07/27	.000	2011/07
1,3-DICHLOROPROPENE (TOTAL)	34561	72	2005/07/27	.000	2011/07
1,4-DICHLOROBENZENE	34571	72	2005/07/27	.000	2011/07
BENZENE	34030	72	2005/07/27	.000	2011/07
CARBON TETRACHLORIDE	32102	72	2005/07/27	.000	2011/07
CIS-1,2-DICHLOROETHYLENE	77093	72	2005/07/27	.000	2011/07
DICHLOROMETHANE	34423	72	2005/07/27	.000	2011/07
ETHYLBENZENE	34371	72	2005/07/27	.000	2011/07
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	36	2005/07/27	.000	2008/07
MONOCHLOROBENZENE	34301	72	2005/07/27	.000	2011/07
STYRENE	77128	72	2005/07/27	.000	2011/07
TETRACHLOROETHYLENE	34475	72	2005/07/27	.000	2011/07
TOLUENE	34010	72	2005/07/27	.000	2011/07

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-018 WELL WTP-1

Source Number: 018

Source Status: ACTIVE RAW

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	72	2005/07/27	.000	2011/07
TRICHLOROETHYLENE	39180	72	2005/07/27	.000	2011/07
TRICHLOROFUOROMETHANE	34488	72	2005/07/27	.000	2011/07
VINYL CHLORIDE	39175	72	2005/07/27	.000	2011/07
XYLENES (TOTAL)	81551	72	2005/07/27	.000	2011/07

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	36	2006/01/18	11.820	2009/01
BICARBONATE ALKALINITY	00440	36	2006/01/18	200.000	2009/01
CALCIUM	00916	36	2006/01/18	16.000	2009/01
CARBONATE ALKALINITY	00445	36	2006/01/18	.000	2009/01
CHLORIDE	00940	36	2006/01/18	21.000	2009/01
COLOR	00081	36	2006/01/18	.000	2009/01
COPPER	01042	36	2006/01/18	.000	2009/01
FOAMING AGENTS (MBAS)	38260	36	2006/01/18	.000	2009/01
HARDNESS (TOTAL) AS CaCO3	00900	36	2006/01/18	50.000	2009/01
HYDROXIDE ALKALINITY	71830	36	2006/01/18	.000	2009/01
IRON	01045	36	2006/01/18	.000	2009/01
MAGNESIUM	00927	36	2006/01/18	3.000	2009/01
MANGANESE	01055	36	2006/01/18	.000	2009/01
ODOR THRESHOLD @ 60 C	00086	36	2006/01/18	1.000	2009/01
PH, LABORATORY	00403	36	2008/04/06	7.900	2011/04
SILVER	01077	36	2006/01/18	.000	2009/01
SODIUM	00929	36	2006/01/18	110.000	2009/01
SPECIFIC CONDUCTANCE	00095	36	2006/01/18	550.000	2009/01
SULFATE	00945	36	2006/01/18	70.000	2009/01
TOTAL DISSOLVED SOLIDS	70300	36	2006/01/18	320.000	2009/01
TURBIDITY, LABORATORY	82079	36	2006/01/18	.100	2009/01
ZINC	01092	36	2006/01/18	.000	2009/01

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-019 WELL WTP-1 TREATMENT (FLUORIDE REMOVAL)

Source Number: 019

Source Status: ACTIVE TREATED

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	WAIVED		
ANTIMONY	01097	WAIVED		
ARSENIC	01002	WAIVED		
ASBESTOS	81855	WAIVED		
BARIUM	01007	WAIVED		
BERYLLIUM	01012	WAIVED		
CADMIUM	01027	WAIVED		
CHROMIUM (TOTAL)	01034	WAIVED		
CYANIDE	01291	WAIVED		
FLUORIDE (F) (NATURAL-SOURCE)	00951	WAIVED	2008/04/07	1.600
LEAD	01051	WAIVED		
MERCURY	71900	WAIVED		
NICKEL	01067	WAIVED		
PERCHLORATE	A-031	WAIVED		
SELENIUM	01147	WAIVED		
THALLIUM	01059	WAIVED		

NITRATE/NITRITE

NITRATE (AS NO3)	71850	WAIVED		
NITRITE (AS N)	00620	WAIVED		

RADIOLOGICAL

GROSS ALPHA	01501	WAIVED		
GROSS BETA	03501	WAIVED		
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED		
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED		
RADIUM 226	09501	WAIVED		
RADIUM 228	11501	WAIVED		
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED		
STRONTIUM-90	13501	WAIVED		
TRITIUM	07000	WAIVED		

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-019 WELL WTP-1 TREATMENT (FLUORIDE REMOVAL)

Source Number: 019

Source Status: ACTIVE TREATED

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	WAIVED
2,4,5-TP (SILVEX)	39045	WAIVED
2,4-D	39730	WAIVED
ALACHLOR	77825	WAIVED
ATRAZINE	39033	WAIVED
BENTAZON	38710	WAIVED
BENZO (A) PYRENE	34247	WAIVED
CARBOFURAN	81405	WAIVED
CHLORDANE	39350	WAIVED
DALAPON	38432	WAIVED
DI(2-ETHYLHEXYL)ADIPATE	A-026	WAIVED
DI(2-ETHYLHEXYL)PHTHALATE	39100	WAIVED
DIBROMOCHLOROPROPANE (DBCP)	38761	WAIVED
DINOSEB	81287	WAIVED
DIQUAT	78885	WAIVED
ENDOTHALL	38926	WAIVED
ENDRIN	39390	WAIVED
ETHYLENE DIBROMIDE (EDB)	77651	WAIVED
GLYPHOSATE	79743	WAIVED
HEPTACHLOR	39410	WAIVED
HEPTACHLOR EPOXIDE	39420	WAIVED
HEXACHLOROBENZENE	39700	WAIVED
HEXACHLOROCYCLOPENTADIENE	34386	WAIVED
LINDANE	39340	WAIVED
METHOXYCHLOR	39480	WAIVED
MOLINATE	82199	WAIVED
OXAMYL	38865	WAIVED

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-019 WELL WTP-1 TREATMENT (FLUORIDE REMOVAL)

Source Number: 019

Source Status: ACTIVE TREATED

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	WAIVED
PICLORAM	39720	WAIVED
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	WAIVED
SIMAZINE	39055	WAIVED
THIOBENCARB	A-001	WAIVED
TOXAPHENE	39400	WAIVED

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	WAIVED
1,1,2,2-TETRACHLOROETHANE	34516	WAIVED
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	WAIVED
1,1,2-TRICHLOROETHANE	34511	WAIVED
1,1-DICHLOROETHANE	34496	WAIVED
1,1-DICHLOROETHYLENE	34501	WAIVED
1,2,4-TRICHLOROBENZENE	34551	WAIVED
1,2-DICHLOROBENZENE	34536	WAIVED
1,2-DICHLOROETHANE	34531	WAIVED
1,2-DICHLOROPROPANE	34541	WAIVED
1,3-DICHLOROPROPENE (TOTAL)	34561	WAIVED
1,4-DICHLOROBENZENE	34571	WAIVED
BENZENE	34030	WAIVED
CARBON TETRACHLORIDE	32102	WAIVED
CIS-1,2-DICHLOROETHYLENE	77093	WAIVED
DICHLOROMETHANE	34423	WAIVED
ETHYLBENZENE	34371	WAIVED
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	WAIVED
MONOCHLOROBENZENE	34301	WAIVED
STYRENE	77128	WAIVED
TETRACHLOROETHYLENE	34475	WAIVED
TOLUENE	34010	WAIVED

*Testing interval is in months;
 0 = No data for this constituent and is DUE NOW
 999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyy/mm)</u>
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PS Code / Name:

3610049-019 WELL WTP-1 TREATMENT (FLUORIDE REMOVAL)

Source Number: 019

Source Status: ACTIVE TREATED

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	WAIVED		
TRICHLOROETHYLENE	39180	WAIVED		
TRICHLOROFUOROMETHANE	34488	WAIVED		
VINYL CHLORIDE	39175	WAIVED		
XYLENES (TOTAL)	81551	WAIVED		

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	WAIVED		
BICARBONATE ALKALINITY	00440	WAIVED		
CALCIUM	00916	WAIVED		
CARBONATE ALKALINITY	00445	WAIVED		
CHLORIDE	00940	WAIVED		
COLOR	00081	WAIVED		
COPPER	01042	WAIVED		
FOAMING AGENTS (MBAS)	38260	WAIVED		
HARDNESS (TOTAL) AS CaCO3	00900	WAIVED		
HYDROXIDE ALKALINITY	71830	WAIVED		
IRON	01045	WAIVED		
MAGNESIUM	00927	WAIVED		
MANGANESE	01055	WAIVED		
ODOR THRESHOLD @ 60 C	00086	WAIVED		
PH, LABORATORY	00403	WAIVED	2008/04/07	8.200
SILVER	01077	WAIVED		
SODIUM	00929	WAIVED		
SPECIFIC CONDUCTANCE	00095	WAIVED		
SULFATE	00945	WAIVED		
TOTAL DISSOLVED SOLIDS	70300	WAIVED		
TURBIDITY, LABORATORY	82079	WAIVED		
ZINC	01092	WAIVED		

*Testing interval is in months;

0 = No data for this constituent and is DUE NOW

999 = Waived testing (not required)

System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-020 WELL 11 - WTP EFFLUENT

Source Number: 020

Source Status: ACTIVE TREATED

Water type: GROUNDWATER OR WELL

INORGANIC

ALUMINUM	01105	WAIVED	2007/06/28	.000	
ANTIMONY	01097	WAIVED	2008/04/15	3.425	
ARSENIC	01002	1	2008/04/22	.367	2008/05
ASBESTOS	81855	WAIVED			
BARIUM	01007	WAIVED	2007/06/28	21.000	
BERYLLIUM	01012	WAIVED	2007/06/28	.000	
CADMIUM	01027	WAIVED	2007/06/28	.000	
CHROMIUM (TOTAL)	01034	WAIVED			
CYANIDE	01291	WAIVED	2007/06/28	.000	
FLUORIDE (F) (NATURAL-SOURCE)	00951	WAIVED	2007/12/04	.390	
LEAD	01051	WAIVED	2007/06/28	.000	
MERCURY	71900	WAIVED	2007/06/28	.000	
NICKEL	01067	WAIVED	2007/06/28	.000	
PERCHLORATE	A-031	WAIVED	2008/03/26	< 4.000	
SELENIUM	01147	WAIVED	2008/04/15	.555	
THALLIUM	01059	WAIVED	2007/06/28	.000	

NITRATE/NITRITE

NITRATE (AS NO3)	71850	WAIVED	2008/05/07	42.000	
NITRITE (AS N)	00620	WAIVED	2007/08/08	< 50.000	

RADIOLOGICAL

GROSS ALPHA	01501	WAIVED			
GROSS BETA	03501	WAIVED			
RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0	A-080	WAIVED			
RA-226 OR TOTAL RA BY 903.0 C.E.	A-081	WAIVED			
RADIUM 226	09501	WAIVED			
RADIUM 228	11501	WAIVED			
RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0	A-082	WAIVED			
STRONTIUM-90	13501	WAIVED			
TRITIUM	07000	WAIVED			

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System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-020 WELL 11 - WTP EFFLUENT

Source Number: 020

Source Status: ACTIVE TREATED

Water type: GROUNDWATER OR WELL

RADIOLOGICAL

URANIUM (PCI/L)	28012	WAIVED		
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REGULATED SOC

2,3,7,8-TCDD (DIOXIN)	34676	WAIVED		
2,4,5-TP (SILVEX)	39045	WAIVED	2007/07/11	< 1.000
2,4-D	39730	WAIVED	2007/07/11	< 10.000
ALACHLOR	77825	WAIVED	2007/07/11	< 1.000
ATRAZINE	39033	WAIVED	2007/07/11	< .500
BENTAZON	38710	WAIVED	2007/07/11	< 2.000
BENZO (A) PYRENE	34247	WAIVED	2007/07/11	< .100
CARBOFURAN	81405	WAIVED	2007/07/11	< 5.000
CHLORDANE	39350	WAIVED	2007/07/11	< .100
DALAPON	38432	WAIVED	2007/07/11	< 10.000
DI(2-ETHYLHEXYL)ADIPATE	A-026	WAIVED	2007/07/11	< 5.000
DI(2-ETHYLHEXYL)PHTHALATE	39100	WAIVED	2007/07/11	< 3.000
DIBROMOCHLOROPROPANE (DBCP)	38761	WAIVED	2007/07/11	< .010
DINOSEB	81287	WAIVED	2007/07/11	< 2.000
DIQUAT	78885	WAIVED	2007/07/11	< 4.000
ENDOTHALL	38926	WAIVED	2007/07/11	< 45.000
ENDRIN	39390	WAIVED	2007/07/11	< .100
ETHYLENE DIBROMIDE (EDB)	77651	WAIVED	2007/07/11	< .020
GLYPHOSATE	79743	WAIVED	2007/07/11	< 25.000
HEPTACHLOR	39410	WAIVED	2007/07/11	< .010
HEPTACHLOR EPOXIDE	39420	WAIVED	2007/07/11	< .010
HEXACHLOROBENZENE	39700	WAIVED	2007/07/11	< .500
HEXACHLOROCYCLOPENTADIENE	34386	WAIVED	2007/07/11	< 1.000
LINDANE	39340	WAIVED	2007/07/11	< .200
METHOXYCHLOR	39480	WAIVED	2007/07/11	< 10.000
MOLINATE	82199	WAIVED	2007/07/11	< 2.000
OXAMYL	38865	WAIVED	2007/07/11	< 20.000

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System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyyy/mm)</u>
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PS Code / Name:

3610049-020 WELL 11 - WTP EFFLUENT

Source Number: 020

Source Status: ACTIVE TREATED

Water type: GROUNDWATER OR WELL

REGULATED SOC

PENTACHLOROPHENOL	39032	WAIVED	2007/07/11	<	.200
PICLORAM	39720	WAIVED	2007/07/11	<	1.000
POLYCHLORINATED BIPHENYLS, TOTAL, AS DCB	39516	WAIVED	2007/07/11	<	.500
SIMAZINE	39055	WAIVED	2007/07/11	<	1.000
THIOBENCARB	A-001	WAIVED	2007/07/11	<	1.000
TOXAPHENE	39400	WAIVED	2007/07/11	<	1.000

REGULATED VOC

1,1,1-TRICHLOROETHANE	34506	WAIVED	2007/12/12	<	.500
1,1,2,2-TETRACHLOROETHANE	34516	WAIVED	2007/12/12	<	.500
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	WAIVED	2007/12/12	<	10.000
1,1,2-TRICHLOROETHANE	34511	WAIVED	2007/12/12	<	.500
1,1-DICHLOROETHANE	34496	WAIVED	2007/12/12	<	.500
1,1-DICHLOROETHYLENE	34501	WAIVED	2007/12/12	<	.500
1,2,4-TRICHLOROBENZENE	34551	WAIVED	2007/12/12	<	.500
1,2-DICHLOROBENZENE	34536	WAIVED	2007/12/12	<	.500
1,2-DICHLOROETHANE	34531	WAIVED	2007/12/12	<	.500
1,2-DICHLOROPROPANE	34541	WAIVED	2007/12/12	<	.500
1,3-DICHLOROPROPENE (TOTAL)	34561	WAIVED	2007/12/12	<	.500
1,4-DICHLOROBENZENE	34571	WAIVED	2007/12/12	<	.500
BENZENE	34030	WAIVED	2007/12/12	<	.500
CARBON TETRACHLORIDE	32102	WAIVED	2007/12/12	<	.500
CIS-1,2-DICHLOROETHYLENE	77093	WAIVED	2007/12/12	<	.500
DICHLOROMETHANE	34423	WAIVED	2007/12/12		.700
ETHYLBENZENE	34371	WAIVED	2007/12/12	<	.500
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	WAIVED	2007/12/12	<	3.000
MONOCHLOROBENZENE	34301	WAIVED	2007/12/12	<	.500
STYRENE	77128	WAIVED	2007/12/12	<	.500
TETRACHLOROETHYLENE	34475	WAIVED	2007/12/12	<	.500
TOLUENE	34010	WAIVED	2007/12/12	<	.500

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System Number / Name:

3610049 TWENTYNINE PALMS WATER DIST

<u>STORET NUMBER</u>	<u>TESTING INTERVAL (MONTHS)*</u>	<u>LAST TEST DATE (yyy/mm/dd)</u>	<u>LAST RESULT REPORTED</u>	<u>NEXT TEST DATE (yyy/mm)</u>
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PS Code / Name:

3610049-020 WELL 11 - WTP EFFLUENT

Source Number: 020

Source Status: ACTIVE TREATED

Water type: GROUNDWATER OR WELL

REGULATED VOC

TRANS-1,2-DICHLOROETHYLENE	34546	WAIVED	2007/12/12	<	.500
TRICHLOROETHYLENE	39180	WAIVED	2007/12/12	<	.500
TRICHLOROFUOROMETHANE	34488	WAIVED	2007/12/12	<	5.000
VINYL CHLORIDE	39175	WAIVED	2007/12/12	<	.500
XYLENES (TOTAL)	81551	WAIVED	2007/12/12	<	1.000

SECONDARY/GP

AGGRSSIVE INDEX (CORROSIVITY)	82383	WAIVED			
BICARBONATE ALKALINITY	00440	WAIVED	2008/04/24		72.000
CALCIUM	00916	WAIVED	2008/04/24		120.000
CARBONATE ALKALINITY	00445	WAIVED	2008/04/24	<	1.500
CHLORIDE	00940	WAIVED	2008/04/24		73.000
COLOR	00081	WAIVED	2008/02/20		15.000
COPPER	01042	WAIVED	2007/06/28		.000
FOAMING AGENTS (MBAS)	38260	WAIVED	2008/02/05	<	.100
HARDNESS (TOTAL) AS CaCO3	00900	WAIVED	2007/06/28		65.000
HYDROXIDE ALKALINITY	71830	WAIVED	2008/04/24	<	.810
IRON	01045	WAIVED	2008/03/19		3.000
MAGNESIUM	00927	WAIVED	2008/04/24		9.300
MANGANESE	01055	WAIVED	2008/05/12		25.000
ODOR THRESHOLD @ 60 C	00086	WAIVED	2008/02/04	<	1.000
PH, LABORATORY	00403	WAIVED	2008/04/24		8.010
SILVER	01077	WAIVED			
SODIUM	00929	WAIVED	2008/04/24		260.000
SPECIFIC CONDUCTANCE	00095	WAIVED	2008/04/24		1710.000
SULFATE	00945	WAIVED	2008/04/24		700.000
TOTAL DISSOLVED SOLIDS	70300	WAIVED	2008/02/12		577.000
TURBIDITY, LABORATORY	82079	WAIVED	2008/02/04		.120
ZINC	01092	WAIVED	2007/06/28		.000

*Testing interval is in months;
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Appendix C – Funding Opportunities

Appendix C – Funding Opportunities

Table C-1 in Appendix C provides a summary of some of the available, identified funding opportunities, divided into local, state, and federal funding sources. Some of these funding opportunities are also described in Sections 4.6.

Local

Local sources of funds may include: water and wastewater general funds, capital improvement funds, general funds from local Cities, County departments, private organizations, member dues, and user fees. Local taxpayers may also fund these projects through rate increases, bond v measures, and tax increases.

Capital Improvements Program Funding (Revenue Bonds, Certificates of Participation)

Water districts, as well as other government entities (e.g., counties and cities) can raise funds by issuing municipal bonds or certificates of participation. Bonds and certificates of participation are governed by an extensive system of laws and regulations. Under these systems, investors provide immediate funding for the promise of later repayment. Generally, bonds and certificates of participation are used for capital improvement projects. In the case of a water district, bonds and certificates are secured by revenues from the water system and by property taxes received by the agency.

Property Tax Assessment (Assessed Valuation)

Property taxes are a large source of revenue for water-related projects and agencies in the Region. The San Bernardino County Tax Assessor collects the charges on behalf of various districts. This funding is used for general expenditures, capital improvements, and to service bond and certificate debt. While this is a large and important source of funding for local agencies, in some cases, the State of California can divert these funds. During FY 2005/06 and FY 2006/07, the State diverted property tax revenues from special purpose districts. Future losses of property taxes may hinder the ability to fund water-related projects.

User Fees

Funding for operation and maintenance of water-related projects often comes from user fees, which are charges for water delivered to a home or charges for wholesale water supplies. In addition to these fees, many agencies also charge “hook-up” or “connection” fees – charges for providing facilities to provide water or wastewater services to a new development. These fees are also known as “facility capacity fees.” Facility capacity fee revenue is difficult to forecast due to the unpredictable timing of development activity. Development activity depends on real estate demands, the regional economy, and land use planning activity.

State

Potential funding for groundwater recharge programs may be available through various State programs, including Propositions 84, 1E, and 50. The discussion below and Table C-1 provide information on State funding opportunities.

Proposition 84

The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Act of 2006 (Public Resources Code § 75001, et seq.), was passed by California voters in the November 2006 general election. Proposition 84 will be implemented by the Department of Public Health (DPH), DWR, and the SWRCB. Specific grant funding programs available under Proposition 84 are highlighted below:

Integrated Regional Water Management Planning

DWR will offer grants for projects that assist local public agencies to meet the long-term water needs of the State including the delivery of safe drinking water and the protection of water quality and the environment. Proposition 84 allocated \$1 billion to integrated regional water management planning grants; of this amount, \$36 million is earmarked for the Colorado River Funding area. Eligible projects, which include recharge and groundwater management projects, must be part of integrated regional water management plans.

Department of Public Health - Emergency and Urgent Water Protection

DPH offers grants for projects that address emergency and urgent situations related to drinking water supplies. Eligible projects include, but are not limited to, provision of alternate water supplies, improvements to existing water systems to avoid contamination, establishment of new connections, and purchase and installation of water treatment equipment. The program is open to local water suppliers.

Department of Public Health - Small Community Drinking Water Infrastructure

DPH offers grants for small community drinking water system infrastructure improvements and related actions to meet safe drinking water standards. Priority for these grants is given to projects that address chemical and nitrate contaminants and other health hazards. Priority is also given for projects that benefit Disadvantaged Communities. Eligible recipients include public agencies and incorporated mutual water companies that serve Disadvantaged Communities.

Department of Public Health – Prevention of Groundwater Contamination

Loans and grants are available from DPH for projects that prevent or reduce contamination of groundwater that serves as a source of drinking water. Community water systems are eligible for these grants and loans and preference is given to projects that serve Disadvantaged Communities.

State Water Resources Control Board – Storm Water Grant Program

The SWRCB provides grant funds for projects designed to reduce and prevent storm water contamination of rivers, lakes, and streams. Eighty two million dollars in funding, up to \$5 million per project, is available. These grants are available to local public agencies. Preference is given to projects consistent with an integrated regional water management plan and projects that promote long-term water quality.

Proposition 1E

Proposition 1E, the Disaster Preparedness and Flood Protection Bond Act, encourages new investments for flood protection and storm water management programs. Within Proposition 1E, \$3 million in grants are available from DWR to local entities for storm water runoff projects. These projects must be outside of the State Plan of Flood Control and be consistent with an integrated regional water management plan. In addition, local match must be at least 50 percent of project costs. Preference is given to *projects that use storm water management to improve groundwater supplies*, improve water quality, and to restore ecosystems. Projects must be able to demonstrate reduction in flood damage.

Proposition 50

The Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002, Water Code §79500, et seq., was passed by California voters in the November 2002 general election. Proposition 50 authorized \$3.4B in general obligation bonds, to be repaid from the State's General Fund, to fund a variety of water projects including: specified CALFED Bay-Delta Program projects including urban and agricultural water use efficiency projects; grants and loans to reduce Colorado River water use; purchasing, protecting and restoring coastal wetlands near urban areas; competitive grants for water management and water quality improvement projects; development of river parkways; improved security for state, local and regional water systems; and grants for desalination and drinking water disinfecting projects. Many grant programs funded by Proposition 50 have concluded, but those funding programs still accepting applications are summarized below.

Department of Public Health – Water Security

These funds may be used for projects designed to: prevent damage to water treatment, distribution, and supply facilities; to prevent disruption of drinking water deliveries; and to protect drinking water supplies from intentional contamination. Eligible projects include: monitoring and early warning systems; fencing; protective structures; contamination treatment facilities; emergency interties; and communications systems. Grants cannot be used to supplant funding for routine responsibilities or for projects previously required by a DPH compliance order, permit condition or regulation. Grants are a minimum of \$50,000, up to a maximum of \$10,000,000. A 50 percent match is required, but this requirement is waived in part or in full for Disadvantaged Communities and small water systems. Public water systems are eligible to receive these funds.

Department of Public Health - Water System Monitoring Facilities

Like the Small Community Water System Facilities grant program, this program provides money to community water systems that are in non-compliance with a safe drinking water standard. However, this program is not limited to “small” community water systems as defined above. Monies are to be used to upgrade monitoring, treatment, or distribution infrastructure. Grants are a minimum of \$5,000, up to a maximum of \$2,000,000. A 50 percent match is required, but this requirement is waived in part or in full for Disadvantaged Communities and small water systems. Community water systems are eligible to receive these funds.

Department of Public Health - Drinking Water Source Protection

Grants are provided for source water protection projects to prevent contamination of the water supply. Projects should prevent a possible contaminating activity from releasing contaminants, or to prevent contaminants that have been released from reaching the water supply. Funds may be used for planning, preliminary engineering, detailed design, construction, education, land acquisition, conservation easements, equipment purchase, and implementing the elements of a surface water protection program. Funds may not be used to clean up contamination or install treatment on existing water sources. Grants are a minimum of \$50,000, up to a maximum of \$2,000,000. A 50 percent match is required, but this requirement is waived in part or in full for Disadvantaged Communities and small water systems. Public water systems are eligible for these funds.

Department of Public Health - Byproduct Treatment Facilities

Grants are offered by DPH for public water systems in noncompliance with the US EPA Stage 1 Disinfection Byproducts rule. Grants are intended to fund construction of treatment facilities necessary to meet disinfection byproduct safe drinking water standards. Applicants with the greatest health risk from disinfection byproducts will be given priority for funding. Grants are a minimum of \$50,000 up to a maximum of \$2,000,000. A 50 percent match is required, but this requirement is waived in part or in full for Disadvantaged Communities and small water systems.

Department of Public Health - Small Community Water System Facilities

This grant program provides money to small community water systems that are in noncompliance with a safe drinking water standard. Community water systems with fewer than 1,000 connections or with a population of less than 3,000 persons are eligible to receive these funds. Monies are to be used to upgrade monitoring, treatment, or distribution infrastructure. Grants are a minimum of \$5,000, up to a maximum of \$2,000,000. No local match is required and up to 25 percent of program funding is set aside to support projects benefiting Disadvantaged Communities.

Department of Public Health - Contaminant Treatment and Removal

DPH offers grants to finance development and demonstration of new treatment and related facilities for water contaminant removal and treatment. Grants are a minimum of \$50,000, up to a maximum of \$2,000,000. A 50 percent match is required, but this requirement is waived in part or in full for Disadvantaged Communities and small water systems. Public water systems are eligible to receive these funds.

Department of Public Health – Contaminant Removal

DPH provides funds for contaminant treatment or removal technology pilot and demonstration studies for specific categories of contaminants including petroleum, perchlorate, heavy metals, pesticides, and herbicides. Grants are a minimum of \$50,000, up to a maximum of \$5,000,000. A 50 percent match is required, but this requirement is waived in part or in full for Disadvantaged Communities and small water systems. Public water systems and public entities are eligible for this funding program.

Department of Public Health – UV and Ozone Disinfection

Grants to support projects using ultraviolet or ozone for disinfection of drinking water are also offered by DPH. A funded project must address a drinking water compliance violation, surface water treatment requirements, or other mandatory disinfection requirement. Public water systems are eligible for this funding program.

Department of Water Resources – Water Use Efficiency Grants

This grant program is intended to fund agricultural and urban water use efficiency projects. The program focuses on funding projects that are not locally cost effective, and that provide water savings or in-stream flows that are beneficial to the Bay-Delta or the rest of the State. Consideration is also given to projects that address water quality and energy efficiency. Specific types of projects that can be funded include: water use efficiency implementation projects providing benefits to the State; research and development projects; feasibility studies, pilot or demonstration projects; training, education or public outreach programs; and technical assistance programs related to water use efficiency. Cities, counties, joint power authorities, public water districts, tribes, non-profit organizations (including watershed management groups), other political subdivisions of the State, regulated investor-owned utilities, incorporated mutual water companies, universities and colleges, and State and Federal agencies are eligible applicants. Grants to urban water suppliers are conditioned on implementation of the Demand Management Measures described in CWC §10631. In years 2006 to 2007 \$35.3 million was allocated to fund water use efficiency grants.

Other State Funding

State Revolving Fund

The Federal Safe Drinking Water Act Amendments of 1996 authorized the creation of a revolving fund program for public water system infrastructure needs specific to drinking water. There is similar State legislation and the Safe Drinking Water State Revolving Fund reflects the intent of Federal and State laws to provide grant funding or low-interest loans to correct deficiencies in public water systems based on a prioritized system. Highest priority is given to projects that address public health risk, projects that will assist a public water system with compliance with the Safe Drinking Water Act, and projects

that assist those public water systems most in need. Funding is available for construction/enhancement of public water systems, construction of local sewers and sewer interceptors, water reclamation facilities, and related projects such as implementation of non-point source pollution prevention projects and water reclamation. The program is funded by Federal grants, State funds (including Proposition 50 and Proposition 84), and revenue bonds. The program is administered by DPH and the SWRCB. Publicly owned treatment works, local public agencies, non-profit organizations, and private parties are eligible for funding.

State Water Resources Control Board – Federal 319 Program

This program, administered by the SWRCB, is a non-point source pollution control program that is focused on controlling activities that impair beneficial uses and on limiting pollutant effects caused by those activities. The program is federally funded on an annual basis. Project proposals that address TMDL implementation and those that address problems in impaired waters are favored in the selection process. There is also a focus on implementing management activities that reduce and/or prevent release of pollutants that impair surface and ground waters. Nonprofit organizations, local government agencies including special districts, tribes, and educational institutions qualify. State or federal agencies may qualify if they are collaborating with local entities and are involved in watershed management or proposing a statewide project.

State Water Resources Control Board – Water Recycling Funding Program

This is a long-term program operated by the SWRCB that offers grants and low-interest loans for the planning, design and construction of water recycling facilities. Grants are provided for facilities planning studies to determine the feasibility of using recycled water to offset the use of fresh/potable water from state and/or local supplies. Pollution control studies, in which water recycling is an alternative, are not eligible. Planning grants are limited to 50 percent of eligible costs, up to \$75,000. Construction grants are limited to 25 percent of project costs or \$5,000,000, whichever is less. Only public agencies are eligible. The Water Recycling Funding Program receives funding from various sources, including Proposition 50 and the State Revolving Fund. Due to the varying funding sources, preferences for funding can vary. For example, funding from Proposition 50 gives preference to those recycling projects that result in benefits to the Delta.

Department of Water Resources – Local Groundwater Assistance Program

The Local Groundwater Management Assistance Act of 2000 (CWC § 10795 et seq., Assembly Bill 303) was enacted to provide grants to local public agencies to conduct groundwater studies or to carry out groundwater monitoring and management activities. Priority for grant funding is given to local public agencies that have adopted a groundwater management plan and demonstrate collaboration with other agencies in the management of the affected groundwater basin. Eligible applicants are public agencies with groundwater management authority. Grants up to \$250,000 are available. This program is funded through various sources; currently, funding is available through Proposition 84.

State Department of Housing and Community Development – Community
Development Block Grant Program

The Federal Housing and Community Development Act of 1974 was amended in 1981 to allow each State the opportunity to administer Community Development Block Grant (CDBG) funds for cities with populations of less than 50,000 (except cities that are designated principal cities of Metropolitan Statistical Areas) and counties with populations less than 200,000. Local governments apply for grant funds from the state and can use funds directly or give to private or public water providers. The program seeks to help develop viable communities by providing decent housing and a suitable living environment and by expanding economic opportunities, principally for areas with low income households. Funds can be used to pay for grant administration costs, project feasibility studies, final plans and specs, site acquisition, construction, and hook-up fees for water and sewer facilities. The program will provide up to \$70,000 per year per jurisdiction, with two funding cycles per year.

Pending State Legislation

In March 2008, State Senator Machado introduced SBX2 6, the Safe Drinking Water Act of 2008. SBX2 6 proposes a \$6.8 billion bond to fund water supply reliability, Delta sustainability, clean drinking water, pollution prevention, clean beaches, groundwater quality, water recycling, and water conservation. Both direct funding and grants are proposed, with grants focused on water supply reliability projects such as agricultural and urban water use efficiency, conjunctive use, recycling/desalination, and groundwater pollution prevention and clean-up. Grants would be competitive and only projects consistent with integrated regional water management plan standards would be eligible. The proposal is undergoing review and negotiation by the State Senate.

Federal

This section includes a discussion of some of the funds available through various federal programs and specifies eligibility requirements. A summary of potential federal funding sources is provided in Table C-1.

Environmental Protection Agency, Source Reduction Assistance

The purpose of this program is to prevent the generation of pollutants at the source and ultimately provide an overall benefit to the environment. This program seeks projects that support source reduction, pollution prevention, and/or source conservation practices. Source reduction activities include: modifying equipment or technology; modifying processes or procedures; reformulating or redesigning products; substituting raw materials; and generating improvements in housekeeping, maintenance, training, or inventory control. Pollution prevention activities reduce or eliminate the creation of pollutants via such procedures as: using raw materials, energy, water or other resources more efficiently; protecting natural resources through conservation; preventing pollution; and promoting the re-use of materials and/or conservation of energy and materials. Eligible organizations include units of State, local, and tribal government; independent school district governments; private or public colleges and universities; nonprofit organizations; and community-based grassroots organizations.

Environmental Protection Agency, Wetlands Program Development Grants

This program seeks projects that promote the coordination and acceleration of research, investigations, experiments, training, demonstrations, surveys, and studies relating to the causes, effects, extent, prevention, reduction, and elimination of water pollution. The US EPA has identified three priority areas: (1) the development of a comprehensive monitoring and assessment program; (2) the improvement of the effectiveness of compensatory mitigation; and (3) the refinement of the protection of vulnerable wetlands and aquatic resources. Typically, grant amounts range from \$25,000 to \$250,000, but there is no set amount. A 25 percent match is required. Eligible entities include States, tribes, local governments, interstate associations, intertribal consortia, and national non-profit, non-governmental organizations.

National Park Service, Rivers, Trails, and Conservation Assistance (RTCA) Program

The purpose of this program is to conserve rivers, preserve open space, and develop trails and greenways. The program provides staff assistance, but not funding, to meet this intent. Projects will be evaluated on how successfully they meet the following criteria: (1) a clear anticipated outcome leading to on-the-ground success; (2) commitment, cooperation, and cost-sharing by interested public agencies and non-profit organizations; (3) opportunity for significant public involvement; (4) protection of significant natural and/or cultural resources and enhancement of outdoor recreational opportunities; and (5) consistency with the National Park Service mission. Eligible organizations include non-profits, community groups, tribes or tribal governments, and state or local government agencies.

Natural Resources Conservation Service, Watershed Protection and Flood Prevention Grant

The purpose of the program is to support activities that promote soil conservation and that promote the preservation of the watersheds of rivers and streams throughout the US. This program seeks to preserve and improve land and water resources via the prevention of erosion, floodwater, and sediment damages. The program supports improvement of: (1) flood prevention including structural and land treatment measures; (2) conservation, development, utilization, and disposal of water; or (3) conservation and proper utilization of land. Successful applicants under this program receive support for watershed surveys and planning, as well as watershed protection and flood prevention operations. Funding for watershed surveys and planning is intended to assist in the development of watershed plans to identify solutions that use conservation practices, including nonstructural measures, to ultimately solve problems. Matching funds are not required; however, applicants must generally provide matches ranging from 0 percent to 50 percent in cash or in-kind resources depending on such factors as project type and the kinds of structural measures which a project proposes. Eligible entities include: states, local governments, and other political subdivisions; soil or water conservation districts; flood prevention or control districts; and tribes. Potential applicants must be able to obtain all appropriate land and water rights and permits to successfully implement proposed projects.

US Bureau of Reclamation, Challenge Grant Program

This grant program is intended to fund collaborative local projects that improve water conservation and management through advanced technology and conservation markets. Through this program, federal funding is provided to irrigation and water districts for up to 50 percent of the cost of projects involving conservation, efficiency and water marketing. Eligible applicants include irrigation and water districts and state governmental entities with water management authority. Applicants must be located in the western US (California is an eligible area). Applicants do not have to be part of a Reclamation project but proposals with a connection to Reclamation will receive more weight in the evaluation process.

US Department of Agriculture, Water and Waste Disposal Program

The Water and Waste Disposal Program provides financial assistance in the form of grants and loans for the development and rehabilitation of water, wastewater, and storm drain systems within rural communities. Funds may be used for costs associated with planning, design, and construction of new or existing water, wastewater, and storm drain systems. Eligible projects include storage, distribution systems, and water source development. There are no funding limits, but the average project is granted \$1,800,000. Projects must benefit cities, towns, public bodies, and census-designated places with a population less than 10,000 persons. The intent of the program is to improve rural economic development and improve public health and safety.

US Fish and Wildlife Service, North American Wetlands Conservation Act Grant

This grant provides funds for projects that provide long-term protection of wetlands, and the fish and wildlife that depend upon wetlands. Applicants must provide local match equal to that requested. Entities that are eligible include organizations and individuals who have developed partnerships to carry out wetlands conservation projects in the US, Canada, and Mexico. Applications are continuously accepted by the US FWS for this grant.

Federal Legislation

Specific congressional authorizations and funding may be obtained to study, build, and construct specific projects in the Region. Potential sources include legislation and funding associated with renewal of the CWA, SWDA, and appropriations for specific agencies, such as the US ACE and the US EPA.

The Water Resources Development Act (WRDA) authorizes projects and policies of the Civil Works program of the US ACE. The US ACE is a federal agency in the Department of Defense with military and civilian responsibilities. At the direction of Congress, US ACE plans, builds, operates, and maintains a wide range of water resources facilities in US states and territories. The agency's traditional civil responsibilities have been creating and maintaining navigable channels and controlling floods. However, in the last two decades, Congress has increased US ACE's responsibilities in ecosystem restoration, municipal water and wastewater infrastructure, disaster relief, and other activities. WRDA often includes specific authorizations for federal, regional, and local projects. Inclusion in WRDA authorizes a given project but does not guarantee funding for a specific project.

Local projects can also receive authorization and federal funding as part of appropriations for the US EPA. The US EPA will enter into assistance agreements with local agencies to fund studies and projects associated with: (1) various environmental requirements (e.g., wastewater treatment); (2) identifying, developing, and/or demonstrating necessary pollution control techniques to prevent, reduce, and eliminate pollution; and/or (3) evaluating the economic and social consequences of alternative strategies and mechanisms for use by those in economic, social, governmental, and environmental management positions.

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
LOCAL						
Other local funding opportunities include revenue bonds and property taxes for capital, parcel taxes, existing capital improvement budgets, and user fees.						
STATE						
Proposition 84						
Water Quality, Water Supply, Resource Stewardship	DWR	Funding for IRWMP planning and implementation	\$100M budget	Public agencies and non-profit organizations (other groups may also receive funding if teamed with public agency or non-profit organization)	Funding anticipated in FY 2008.	Joe Yun jjun@water.ca.gov
Water Quality	DPH	Emergency/urgent water supply protection	\$10M budget; max grant \$250,000	Local water suppliers	Funding anticipated in FY 2008.	Steve Woods (916) 449-5624
Water Quality	DPH	Small Community Drinking Water Infrastructure Program	\$180M budget, max grant \$5 million	Local water suppliers	Funding anticipated in FY 2008.	Steve Woods (916) 449-5624
Water Quality	DPH	Prevention of Groundwater Contamination	\$50M budget	Community water systems, preference for systems serving Disadvantaged Communities	Funding anticipated in FY 2008.	Steve Woods (916) 449-5624
Water Quality	SWRCB	Storm Water Grant Program	\$90M budget	Local public agencies	Funding anticipated in FY 2008.	Erin Ragazzi (916) 341-5733
Proposition 1E						
Resource Stewardship	DWR	FloodSAFE California. Grants for stormwater flood management projects with non-state cost share of not less than 50%; projects must not be part of State Plan for Flood control, must have multiple benefits, comply with Basin Plans, and be consistent with an IRWMP	\$300M	DWR has not yet provided information on eligible applicants	DWR has not yet provided information on funding or applications for this program	floodSAFE@water.ca.gov
Proposition 50						
Water Supply	DPH	Chapter 3 - Water Security: Grants for protection of state, local, and regional drinking water systems	Grants cannot be used for the routine responsibilities or projects previously required by a DPH compliance order, permit or regulation. \$10 million maximum grant per project; \$50,000 minimum; 1 to 1 local resource match to grant award required except for small community systems and Disadvantaged Communities. http://ww2.cdph.ca.gov/certlic/drinkingwater/Pages/DWPfunding.aspx	State, local, and regional drinking water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2734
Water Supply	DPH	Chapter 4 - Community Water System Monitoring Facilities: Water quality monitoring facilities and equipment; must be in non-compliance with a safe drinking water standard	Project Funding: \$5,000-\$2 million. 50% local match required, but waived for Disadvantaged Communities and small water systems. http://ww2.cdph.ca.gov/certlic/drinkingwater/Pages/DWPfunding.aspx	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2734

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
Water Quality	DPH	Chapter 4 - Drinking Water Source Protection: For planning, preliminary engineering, detailed design, construction, education, land acquisition, conservation easements, equipment purchase, and implementing the elements	Project Funding: \$50,000-\$2 million. 50% local match required, but waived for Disadvantaged Communities and small water systems. http://ww2.cdph.ca.gov/certlic/drinkingwater/	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2735
Water Quality	DPH	Chapter 4 - Disinfection By-Product Treatment Facilities: To meet DBP safe drinking water standards, must be in noncompliance with the EPA Stage 1 DBP Rule MCLs or treatment technique	Project Funding: \$5,000-\$2 million. 50% local match required, but waived for Disadvantaged Communities and small water systems.	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs. http://www.dhs.ca.gov/ps/ddwem/funding/default.htm	Mark Bartson (707) 576-2736
Water Quality	DPH	Chapter 4 - Disinfection By-Product Treatment Facilities: To meet DBP safe drinking water standards, must be in noncompliance with the EPA Stage 1 DBP Rule MCLs or treatment technique	Project Funding: \$50,000-\$2 million. 50% local match required, but waived for Disadvantaged Communities and small water systems.	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs. http://www.dhs.ca.gov/ps/ddwem/funding/default.htm	Mark Bartson (707) 576-2737
Water Quality	DPH	Chapter 4a1 - Small Community Water System Facilities: Upgrade monitoring, treatment, or distribution infrastructure of small community water systems; must be in noncompliance with a safe drinking water standard	Project Funding: \$5,000-\$2 million. No required local match. http://ww2.cdph.ca.gov/certlic/drinkingwater/Pages/DWPFunding.aspx	Small Community Water Systems: < 1,000 connections or 3,300 people	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2738
Water Quality	DPH	Chapter 4a2 - Demonstration Projects & Studies for Contaminant Treatment: Development and demonstration of new treatment and related facilities for water contaminant removal and treatment	Project Funding: \$50,000-\$2 million. 50% local match required, but waived for Disadvantaged Communities and small water systems.	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2739
Water Quality	DPH	Chapter 6(b) - Demonstration Projects and Studies for Contaminant Removal: Treatment or removal technology for the following contaminants: Petroleum products, such as MTBE and BTEX, NNitrosodimethylamine (NDMA), Perchlorate, Radionuclides, such as radon, uranium, and radium, Pesticides	Project Funding: \$50,000-\$5 million No more than 30% of the funds can address a single contaminant. 50% match that can be waived for Disadvantaged Communities or small water systems. http://ww2.cdph.ca.gov/certlic/drinkingwater/Pages/DWPFunding.aspx	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2740
Water Quality	DPH	Chapter 6(c) - Ultraviolet (UV) and Ozone Disinfection. Must address an Maximum Contaminant Level (MCL) compliance violation, surface water treatment microbial requirements, or other mandatory disinfection that can only be met by UV/ or ozone; the water system must demonstrate that it can operate and maintain the treatment facilities; ozone treatment projects shall be designed and operated to minimize residual disinfection	Project Funding: \$50,000-\$5 million http://ww2.cdph.ca.gov/certlic/drinkingwater/Pages/DWPFunding.aspx	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2741

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
Prop 13						
Conservation	DWR	Agricultural Water Conservation: voluntary, cost effective projects or programs to improve agricultural water use efficiency, and feasibility studies for such projects	Canal or ditch piping or lining projects; tailwater recovery projects; and replacement of leaking distribution system components; \$5 million per eligible project http://www.grantsloans.water.ca.gov/loans/conservation.cfm	Local public agencies and incorporated mutual water companies	Continuous filing; application being updated.	Baryohay Davidoff DWR (916) 651-9666
Prop 82						
Water Supply	DWR	New Local Water Supply Construction: Provides funding for water supply development projects and feasibility studies (loans)	Projects such as a canals, dams, reservoirs, groundwater extraction facilities or other construction or improvements; up to \$5 million per eligible project	Local public agencies	Continuous filing	David Rolph (916) 651-9635
Other						
Water Quality	DPH, SWRCB	Drinking Water State Revolving Fund: Provides low-interest loans and/or grants to assist public agencies in correcting deficiencies in water infrastructure for compliance with the Safe Drinking Water Act	Grants and loans can be combined with other funding sources	Publicly owned treatment works, local public agencies, non-profit organizations, and private parties	Applications vary depending on type of project and agency from which funds requested. Applications are accepted on a continuing basis.	Steve Woods (DPH) (916) 449-5624 Dave Kirn (SWRCB) dkirn@waterboards.ca.gov
Water Supply	State Department of Housing and Community Development	Community Development Block Grant (CDBG) Program – Planning & Technical Assistance Grants: Project must principally benefit low income persons/ households; for example, provide clean	Pay for project feasibility study, final plans and specs, site acquisition and construction, and grant admin costs; pay for one time assessment fees; pay for installation of private laterals and hook-up fees	Cities or counties are not under HUD's CDBG entitlement program; jurisdictions can pay for their	Notices of Funding Availability released each year, with two funding cycles per year.	CDBG Program Administration (916) 552-9398
Resource Conservation	Department of Parks and Recreation	Land and Water Conservation Fund – For acquisition or development projects. Acquisition projects shall be for outdoor recreation, development projects shall include the construction of new and/or renovated existing facilities for outdoor	50% reimbursement, match can be money, services, or real property	Cities, counties and districts authorized to acquire, develop, operate and maintain park and recreation	Application for local agencies due March 3, 2008 and for state agencies June 2, 2008	Patti Keating (916) 653-7423
Resource Stewardship	Resources Agency	Environmental Enhancement and Mitigation Program – Resource Lands: Projects for the acquisition, restoration, or enhancement of watersheds, wildlife habitat, wetlands, forests, or other natural areas.	No match required. http://www.resources.ca.gov/eem/	Local, state, federal government and non-profit organizations	2008/2009 Solicitation Period TBD.	EEM Program Coordinator (916) 654-9923
Water Quality	EPA-SWRCB	Federal 319 Program: Funding to support projects throughout the State to restore impaired surface waters through the control of nonpoint source pollution	Project proposals that address TMDL implementation; problems in impaired waters; implementing management activities that lead to reduction and/or prevention of pollutants.	Public agencies, public colleges, 501(c)(3) non-profit organizations, tribes, state and federal entities	Applications accepted in periodic application cycles.	Julé Rizzardo (916) 341-5822

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
Water Supply	SWRCB	Water Recycling Funding Program: Projects to promote the beneficial use of treated municipal wastewater (water recycling) in order to augment fresh water supplies through provision of technical and financial assistance to agencies and	Grants up to \$75,000 for planning studies; local match is 25% for planning studies. Grants up to 25% of costs or \$5M (whichever is less) for construction.	Public agencies	Continuous application process	Claudia Villacorta (916) 341-5735
Water Quality	DWR	Local Groundwater Assistance: Provides grants to local public agencies to conduct groundwater studies or to carry out groundwater monitoring and management activities.	Up to \$250,000 per eligible applicant. Eligible projects include: groundwater data collection, modeling, monitoring and management studies; monitoring programs and installation of equipment; basin management; and development of	Local public agencies with authority to management groundwater resources	Applications accepted in periodic application cycles.	Harley H. Davis (916) 651-9229
Wastewater/Watershed	EPA-SWRCB	Clean Water State Revolving Fund (SRF) Program: Projects for publicly-owned wastewater treatment facilities. Funds may be used to better the quality of watersheds and protect groundwater resources through planning, design, and	Program also offers significant funding for nonpoint source pollution control and estuary protection, assistance to a variety of borrowers and partnerships with other funding sources. Matching funds are not	Borrowers range from municipalities, communities of all sizes, farmers, homeowners, small businesses, and nonprofit	Continuous application process. \$200-\$300 million annually	Christopher Stevens (916) 341-5698
Water Quality	EPA-SWRCB	State Revolving Fund Loan Nonpoint Source Protection Program: Address water quality problems associated with discharges from nonpoint source dischargers and for estuary enhancement.	Planning study to determine cost effective alternative, CEQA compliance, dedicate source repayment and compliance with certain Federal requirements. http://www.swrcb.ca.gov/funding/srf.html	Point source dischargers, municipalities and nonpoint source dischargers, public and private entities	Continuous application process. \$200-\$300 million annually	Christopher Stevens (916) 341-5698
Water Supply	California Infrastructure and Economic Development Bank (i-bank)	Infrastructure State Revolving Fund (ISRF) Program: Provides financing for construction and/or repair of publicly owned water supply and treatment systems including these components: drainage, supply, flood control, treatment and distribution	Eligible uses include: to acquire land, construct, and/or repair water collection and treatment systems, including equipment; \$10 million maximum per project; annual jurisdiction funding caps; Interest rate is 6.7%	Applicant must be a local municipal entity; project must meet tax-exempt financing criteria	Continuously accepting applications.	Diane Cummings (916) 324-4805
Water Quality	EPA	Source Reduction Assistance: The purpose of this program is to provide an overall benefit to the environment by preventing the generation of pollutants at the source. This program seeks projects that support source reduction, pollution prevention, and/or source conservation	Specific requirements for measurement and reporting requirements.	Units of state, local, and tribal government; independent school district governments; private or public colleges and	Funding opportunity anticipated in FY 2008.	Leif Magnuson Pollution Prevention Coordinator (415) 972-3286
Water Quality and Resource Stewardship	EPA	EPA Wetlands Program Development Grants: Projects that promote the coordination and acceleration of research, investigations, experiments, training, demonstrations, surveys, and studies relating to the causes, effects, extent, prevention, reduction, and elimination of	Three priority areas identified by the EPA: Developing a comprehensive monitoring and assessment program; improving the effectiveness of compensatory mitigation; and refining the protection of vulnerable wetlands	States, tribes, local governments, interstate associations, intertribal consortia, and national nonprofit, non-governmental organizations are eligible to	Grants to be awarded in FY 2008. Funding in later years is unknown.	Suzanne Marr US EPA Region 9 (415) 972-3468

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
Resource Stewardship	National Fish and Wildlife Foundation (NFWF)	Five-Star Restoration Program: Purpose is to support community-based wetland, riparian, and coastal habitat restoration projects. Applicants must demonstrate that measurable ecological, educational, social, and/or economic benefits are expected to result from the completion of	Modest financial assistance (average award of \$14,500) with no matching requirements; however, applicants are strongly encouraged to show funding support from other sources. Matching funds include cash and/or in-kind goods and services and can be from both	State and local agencies, private landowners, and other interested parties.	Proposals are due in early February each year, with notification of award in June.	Brian Kittler Brian.Kittler@nfwf.org
Resource Stewardship	National Park Service	Rivers, Trails, and Conservation Assistance Program: The program provides staff assistance to conserve rivers, preserve open space, and develop trails and greenways.	Projects will be evaluated on how they meet the following criteria: 1) A clear outcome leading to on the ground success; 2) Commitment, cooperation, and cost-sharing by applicant; 3) Opportunity for significant public involvement; 4) Protection of significant	Nonprofits, community groups, tribes, or tribal governments; and state or local government agencies.	Applications are due August 1st for assistance during the next fiscal year.	Charlie Stockman (202) 354-6900
Resource Stewardship	Natural Resources Conservation Service	Watershed Protection and Flood Prevention: Funding for activities that promote soil conservation and the preservation of the watersheds of rivers and streams throughout the US.	Matching funds are not required: applicants must generally provide matching ranging from 0%-50% in cash or in-kind resources depending on such factors as project type and the kinds of structural measures a project	States, local governments, and other political subdivisions; soil or water conservation districts; flood prevention or control districts and tribes. Potential	Not currently soliciting applications.	Luana Kiger Acting Director Watershed Planning Services (530) 792-5661
Water Supply	US Bureau of Reclamation (USBR)	Challenge Grant Program: Through the Challenge Grant Program, USBR provides 50/50 cost share funding to irrigation and water districts and states for projects focused on water conservation, efficiency, and water marketing. Projects are selected through a competitive	Funding for Water 2025 Challenge Grant projects is awarded on a competitive basis through a merit-based review process performed by a Technical Proposal Evaluation Committee. Matching funds are required. Applicants must provide a minimum	Eligible applicants include irrigation and water districts, state governmental entities with water management authority. Projects must be located in Western US.	The FY 2008 budget request for Water 2025 is \$11 million	Miguel Rocha Water 2025 Program Coordinator (303) 445-2841
Water Quality	US Department of Agriculture (USDA) Rural Development	Water and Waste Disposal Program: Program that provides financial assistance (loans and grants) for community water, wastewater, and drainage systems in rural areas	Funds may be used for planning, design, and construction of new or existing systems; eligible projects include storage, distribution, source development; no funding limits, but average project size is \$1.8 million. Greater funding share provided for low-income	Cities, towns, public bodies, and census designated places with populations less than 10,000. Must demonstrate financial	Applications accepted on continuous basis.	Dave Hartwell USDA State Office (530) 792-5817
Resource Stewardship	US FWS	North American Wetlands Conservation Act: Provides funding, up to \$75,000, for projects that provide long-term protection of wetlands and wetlands dependent fish	Partners must match the grant request at a 1 to 1 ratio.	Organizations and individuals who have developed partnerships to carry out	Applications accepted on continuous basis.	Division of Bird Habitat Conservation (703) 358-1784

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
FEDERAL						
Water Quality	US EPA	Source Reduction Assistance: The purpose of this program is to provide an overall benefit to the environment by preventing the generation of pollutants at the source. This program seeks projects that support source reduction, pollution prevention, and/or source conservation practices.	Specific requirements for measurement and reporting requirements.	Units of state, local, and tribal government; independent school district governments; private or public colleges and universities; nonprofits; and community-based grassroots organizations.	Funding opportunity anticipated in FY 2008.	Leif Magnuson Pollution Prevention Coordinator (415) 972-3286
Water Quality and Resource Stewardship	US EPA	EPA Wetlands Program Development Grants: Projects that promote the coordination and acceleration of research, investigations, experiments, training, demonstrations, surveys, and studies relating to the causes, effects, extent, prevention, reduction, and elimination of water pollution	Three priority areas identified by the EPA: Developing a comprehensive monitoring and assessment program; improving the effectiveness of compensatory mitigation; and refining the protection of vulnerable wetlands and aquatic resources. Typically \$25,000 to \$250,000, but no set amount. 25% match required.	States, tribes, local governments, interstate associations, intertribal consortia, and national non-profit, non-governmental organizations are eligible to apply.	Grants to be awarded in FY 2008. Funding in later years is unknown.	Suzanne Marr US EPA Region 9 (415) 972-3468
Resource Stewardship	National Park Service	Rivers, Trails, and Conservation Assistance Program: The program provides staff assistance to conserve rivers, preserve open space, and develop trails and greenways.	Projects will be evaluated on how they meet the following criteria: 1) A clear outcome leading to on the ground success; 2) Commitment, cooperation, and cost-sharing by applicant; 3) Opportunity for significant public involvement; 4) Protection of significant natural and/or cultural resources and enhancement of outdoor recreational opportunities; and 5) Consistency with the National Park Service mission.	Nonprofits, community groups, tribes, or tribal governments; and state or local government agencies.	Applications are due August 1st for assistance during the next fiscal year. http://www.nps.gov/rtca/	Charlie Stockman (202) 354-6900
Resource Stewardship	National Fish and Wildlife Foundation (NFWF)	Five-Star Restoration Program: Purpose is to support community-based wetland, riparian, and coastal habitat restoration projects. Applicants must demonstrate that measurable ecological, educational, social, and/or economic benefits are expected to result from the completion of the project.	Modest financial assistance (average award of \$14,500) with no matching requirements; however, applicants are strongly encouraged to show funding support from other sources. Matching funds include cash and/or in-kind goods and services and can be from both federal and non-federal sources.	State and local agencies, private landowners, and other interested parties.	Proposals are due in early February each year, with notification of award in June.	Brian Kittler Brian.Kittler@nfwf.org

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
Resource Stewardship	Natural Resources Conservation Service	Watershed Protection and Flood Prevention: Funding for activities that promote soil conservation and the preservation of the watersheds of rivers and streams throughout the US.	Matching funds are not required: applicants must generally provide matching ranging from 0%-50% in cash or in-kind resources depending on such factors as project type and the kinds of structural measures a project proposes.	States, local governments, and other political subdivisions; soil or water conservation districts; flood prevention or control districts and tribes. Potential applicants must be able to obtain all appropriate land and water rights and permits to successfully implement proposed projects.	Not currently soliciting applications.	Luana Kiger Acting Director Watershed Planning Services (530) 792-5661
Water Quality	US Department of Agriculture (USDA) Rural Development	Water and Waste Disposal Program: Program that provides financial assistance (loans and grants) for community water, wastewater, and drainage systems in rural areas	Funds may be used for planning, design, and construction of new or existing systems; eligible projects include storage, distribution, source development; no funding limits, but average project size is \$1.8 million. Greater funding share provided for low-income communities.	Cities, towns, public bodies, and census designated places with populations less than 10,000. Must demonstrate financial need.	Applications accepted on continuous basis.	Dave Hartwell USDA State Office (530) 792-5818
Water Supply	US Bureau of Reclamation (Reclamation)	Challenge Grant Program: Through the Challenge Grant Program, Reclamation provides 50/50 cost share funding to irrigation and water districts and states for projects focused on water conservation, efficiency, and water marketing. Projects are selected through a competitive process, based on their ability to meet the goals identified in Water 2025: Preventing Crises and Conflict in the West. The focus is on projects that can be completed within 24 months that will help to prevent crises over water.	Funding for Water 2025 Challenge Grant projects is awarded on a competitive basis through a merit-based review process performed by a Technical Proposal Evaluation Committee. Matching funds are required. Applicants must provide a minimum 50% of project costs in non-Federal cash or in-kind resources. Priority is given to projects that will be completed within 24 months from the date of the award, and that will decrease the likelihood of conflict over water.	Eligible applicants include irrigation and water districts, state governmental entities with water management authority. Projects must be located in Western US.	The FY 2008 budget request for <i>Water 2025</i> is \$11 million http://www.doi.gov/water2025/grant.html	Miguel Rocha Water 2025 Program Coordinator (303) 445-2841
Resource Stewardship	US Fish and Wildlife Service (USFWS)	North American Wetlands Conservation Act: Provides funding, up to \$75,000, for projects that provide long-term protection of wetlands and wetlands dependent fish and wildlife.	Partners must match the grant request at a 1 to 1 ratio.	Organizations and individuals who have developed partnerships to carry out wetlands conservation projects in the US, Canada, and Mexico.	Applications accepted on continuous basis.	Division of Bird Habitat Conservation (703) 358-1784

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
LOCAL						
Other local funding opportunities include revenue bonds and property taxes for capital, parcel taxes, existing capital improvement budgets, and user fees.						
STATE						
Proposition 84						
Water Quality, Water Supply, Resource Stewardship	DWR	Funding for IRWMP planning and implementation	\$100M budget	Public agencies and non-profit organizations (other groups may also receive funding if teamed with public agency or non-profit organization)	Funding anticipated in FY 2008.	Joe Yun jjun@water.ca.gov
Water Quality	DPH	Emergency/urgent water supply protection	\$10M budget; max grant \$250,000	Local water suppliers	Funding anticipated in FY 2008.	Steve Woods (916) 449-5624
Water Quality	DPH	Small Community Drinking Water Infrastructure Program	\$180M budget, max grant \$5 million	Local water suppliers	Funding anticipated in FY 2008.	Steve Woods (916) 449-5624
Water Quality	DPH	Prevention of Groundwater Contamination	\$50M budget	Community water systems, preference for systems serving Disadvantaged Communities	Funding anticipated in FY 2008.	Steve Woods (916) 449-5624
Water Quality	SWRCB	Storm Water Grant Program	\$90M budget	Local public agencies	Funding anticipated in FY 2008.	Erin Ragazzi (916) 341-5733
Proposition 1E						
Resource Stewardship	DWR	FloodSAFE California. Grants for stormwater flood management projects with non-state cost share of not less than 50%; projects must not be part of State Plan for Flood control, must have multiple benefits, comply with Basin Plans, and be consistent with an IRWMP	\$300M	DWR has not yet provided information on eligible applicants	DWR has not yet provided information on funding or applications for this program	floodSAFE@water.ca.gov
Proposition 50						
Water Supply	DPH	Chapter 3 - Water Security: Grants for protection of state, local, and regional drinking water systems	Grants cannot be used for the routine responsibilities or projects previously required by a DPH compliance order, permit or regulation. \$10 million maximum grant per project; \$50,000 minimum; 1 to 1 local resource match to grant award required except for small community systems and Disadvantaged Communities. http://ww2.cdph.ca.gov/certlic/drinkingwater/Pages/DWPfunding.aspx	State, local, and regional drinking water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2734
Water Supply	DPH	Chapter 4 - Community Water System Monitoring Facilities: Water quality monitoring facilities and equipment; must be in non-compliance with a safe drinking water standard	Project Funding: \$5,000-\$2 million. 50% local match required, but waived for Disadvantaged Communities and small water systems. http://ww2.cdph.ca.gov/certlic/drinkingwater/Pages/DWPfunding.aspx	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2734

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
Water Quality	DPH	Chapter 4 - Drinking Water Source Protection: For planning, preliminary engineering, detailed design, construction, education, land acquisition, conservation easements, equipment purchase, and implementing the elements	Project Funding: \$50,000-\$2 million. 50% local match required, but waived for Disadvantaged Communities and small water systems. http://ww2.cdph.ca.gov/certlic/drinkingwater/	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2735
Water Quality	DPH	Chapter 4 - Disinfection By-Product Treatment Facilities: To meet DBP safe drinking water standards, must be in noncompliance with the EPA Stage 1 DBP Rule MCLs or treatment technique	Project Funding: \$5,000-\$2 million. 50% local match required, but waived for Disadvantaged Communities and small water systems.	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs. http://www.dhs.ca.gov/ps/ddwem/funding/default.htm	Mark Bartson (707) 576-2736
Water Quality	DPH	Chapter 4 - Disinfection By-Product Treatment Facilities: To meet DBP safe drinking water standards, must be in noncompliance with the EPA Stage 1 DBP Rule MCLs or treatment technique	Project Funding: \$50,000-\$2 million. 50% local match required, but waived for Disadvantaged Communities and small water systems.	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs. http://www.dhs.ca.gov/ps/ddwem/funding/default.htm	Mark Bartson (707) 576-2737
Water Quality	DPH	Chapter 4a1 - Small Community Water System Facilities: Upgrade monitoring, treatment, or distribution infrastructure of small community water systems; must be in noncompliance with a safe drinking water standard	Project Funding: \$5,000-\$2 million. No required local match. http://ww2.cdph.ca.gov/certlic/drinkingwater/Pages/DWPFunding.aspx	Small Community Water Systems: < 1,000 connections or 3,300 people	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2738
Water Quality	DPH	Chapter 4a2 - Demonstration Projects & Studies for Contaminant Treatment: Development and demonstration of new treatment and related facilities for water contaminant removal and treatment	Project Funding: \$50,000-\$2 million. 50% local match required, but waived for Disadvantaged Communities and small water systems.	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2739
Water Quality	DPH	Chapter 6(b) - Demonstration Projects and Studies for Contaminant Removal: Treatment or removal technology for the following contaminants: Petroleum products, such as MTBE and BTEX, NNitrosodimethylamine (NDMA), Perchlorate, Radionuclides, such as radon, uranium, and radium, Pesticides	Project Funding: \$50,000-\$5 million No more than 30% of the funds can address a single contaminant. 50% match that can be waived for Disadvantaged Communities or small water systems. http://ww2.cdph.ca.gov/certlic/drinkingwater/Pages/DWPFunding.aspx	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2740
Water Quality	DPH	Chapter 6(c) - Ultraviolet (UV) and Ozone Disinfection. Must address an Maximum Contaminant Level (MCL) compliance violation, surface water treatment microbial requirements, or other mandatory disinfection that can only be met by UV/ or ozone; the water system must demonstrate that it can operate and maintain the treatment facilities; ozone treatment projects shall be designed and operated to minimize residual disinfection	Project Funding: \$50,000-\$5 million http://ww2.cdph.ca.gov/certlic/drinkingwater/Pages/DWPFunding.aspx	Public water systems under DPH regulation	DPH provides a universal application for most of its grant programs.	Mark Bartson (707) 576-2741

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
Prop 13						
Conservation	DWR	Agricultural Water Conservation: voluntary, cost effective projects or programs to improve agricultural water use efficiency, and feasibility studies for such projects	Canal or ditch piping or lining projects; tailwater recovery projects; and replacement of leaking distribution system components; \$5 million per eligible project http://www.grantsloans.water.ca.gov/loans/conservation.cfm	Local public agencies and incorporated mutual water companies	Continuous filing; application being updated.	Baryohay Davidoff DWR (916) 651-9666
Prop 82						
Water Supply	DWR	New Local Water Supply Construction: Provides funding for water supply development projects and feasibility studies (loans)	Projects such as a canals, dams, reservoirs, groundwater extraction facilities or other construction or improvements; up to \$5 million per eligible project	Local public agencies	Continuous filing	David Rolph (916) 651-9635
Other						
Water Quality	DPH, SWRCB	Drinking Water State Revolving Fund: Provides low-interest loans and/or grants to assist public agencies in correcting deficiencies in water infrastructure for compliance with the Safe Drinking Water Act	Grants and loans can be combined with other funding sources	Publicly owned treatment works, local public agencies, non-profit organizations, and private parties	Applications vary depending on type of project and agency from which funds requested. Applications are accepted on a continuing basis.	Steve Woods (DPH) (916) 449-5624 Dave Kirn (SWRCB) dkirn@waterboards.ca.gov
Water Supply	State Department of Housing and Community Development	Community Development Block Grant (CDBG) Program – Planning & Technical Assistance Grants: Project must principally benefit low income persons/ households; for example, provide clean	Pay for project feasibility study, final plans and specs, site acquisition and construction, and grant admin costs; pay for one time assessment fees; pay for installation of private laterals and hook-up fees	Cities or counties are not under HUD's CDBG entitlement program; jurisdictions can pay for their	Notices of Funding Availability released each year, with two funding cycles per year.	CDBG Program Administration (916) 552-9398
Resource Conservation	Department of Parks and Recreation	Land and Water Conservation Fund – For acquisition or development projects. Acquisition projects shall be for outdoor recreation, development projects shall include the construction of new and/or renovated existing facilities for outdoor	50% reimbursement, match can be money, services, or real property	Cities, counties and districts authorized to acquire, develop, operate and maintain park and recreation	Application for local agencies due March 3, 2008 and for state agencies June 2, 2008	Patti Keating (916) 653-7423
Resource Stewardship	Resources Agency	Environmental Enhancement and Mitigation Program – Resource Lands: Projects for the acquisition, restoration, or enhancement of watersheds, wildlife habitat, wetlands, forests, or other natural areas.	No match required. http://www.resources.ca.gov/eem/	Local, state, federal government and non-profit organizations	2008/2009 Solicitation Period TBD.	EEM Program Coordinator (916) 654-9923
Water Quality	EPA-SWRCB	Federal 319 Program: Funding to support projects throughout the State to restore impaired surface waters through the control of nonpoint source pollution	Project proposals that address TMDL implementation; problems in impaired waters; implementing management activities that lead to reduction and/or prevention of pollutants.	Public agencies, public colleges, 501(c)(3) non-profit organizations, tribes, state and federal entities	Applications accepted in periodic application cycles.	Julé Rizzardo (916) 341-5822

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
Water Supply	SWRCB	Water Recycling Funding Program: Projects to promote the beneficial use of treated municipal wastewater (water recycling) in order to augment fresh water supplies through provision of technical and financial assistance to agencies and	Grants up to \$75,000 for planning studies; local match is 25% for planning studies. Grants up to 25% of costs or \$5M (whichever is less) for construction.	Public agencies	Continuous application process	Claudia Villacorta (916) 341-5735
Water Quality	DWR	Local Groundwater Assistance: Provides grants to local public agencies to conduct groundwater studies or to carry out groundwater monitoring and management activities.	Up to \$250,000 per eligible applicant. Eligible projects include: groundwater data collection, modeling, monitoring and management studies; monitoring programs and installation of equipment; basin management; and development of	Local public agencies with authority to management groundwater resources	Applications accepted in periodic application cycles.	Harley H. Davis (916) 651-9229
Wastewater/Watershed	EPA-SWRCB	Clean Water State Revolving Fund (SRF) Program: Projects for publicly-owned wastewater treatment facilities. Funds may be used to better the quality of watersheds and protect groundwater resources through planning, design, and	Program also offers significant funding for nonpoint source pollution control and estuary protection, assistance to a variety of borrowers and partnerships with other funding sources. Matching funds are not	Borrowers range from municipalities, communities of all sizes, farmers, homeowners, small businesses, and nonprofit	Continuous application process. \$200-\$300 million annually	Christopher Stevens (916) 341-5698
Water Quality	EPA-SWRCB	State Revolving Fund Loan Nonpoint Source Protection Program: Address water quality problems associated with discharges from nonpoint source dischargers and for estuary enhancement.	Planning study to determine cost effective alternative, CEQA compliance, dedicate source repayment and compliance with certain Federal requirements. http://www.swrcb.ca.gov/funding/srf.html	Point source dischargers, municipalities and nonpoint source dischargers, public and private entities	Continuous application process. \$200-\$300 million annually	Christopher Stevens (916) 341-5698
Water Supply	California Infrastructure and Economic Development Bank (i-bank)	Infrastructure State Revolving Fund (ISRF) Program: Provides financing for construction and/or repair of publicly owned water supply and treatment systems including these components: drainage, supply, flood control, treatment and distribution	Eligible uses include: to acquire land, construct, and/or repair water collection and treatment systems, including equipment; \$10 million maximum per project; annual jurisdiction funding caps; Interest rate is 6.7%	Applicant must be a local municipal entity; project must meet tax-exempt financing criteria	Continuously accepting applications.	Diane Cummings (916) 324-4805
Water Quality	EPA	Source Reduction Assistance: The purpose of this program is to provide an overall benefit to the environment by preventing the generation of pollutants at the source. This program seeks projects that support source reduction, pollution prevention, and/or source conservation	Specific requirements for measurement and reporting requirements.	Units of state, local, and tribal government; independent school district governments; private or public colleges and	Funding opportunity anticipated in FY 2008.	Leif Magnuson Pollution Prevention Coordinator (415) 972-3286
Water Quality and Resource Stewardship	EPA	EPA Wetlands Program Development Grants: Projects that promote the coordination and acceleration of research, investigations, experiments, training, demonstrations, surveys, and studies relating to the causes, effects, extent, prevention, reduction, and elimination of	Three priority areas identified by the EPA: Developing a comprehensive monitoring and assessment program; improving the effectiveness of compensatory mitigation; and refining the protection of vulnerable wetlands	States, tribes, local governments, interstate associations, intertribal consortia, and national nonprofit, non-governmental organizations are eligible to	Grants to be awarded in FY 2008. Funding in later years is unknown.	Suzanne Marr US EPA Region 9 (415) 972-3468

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
Resource Stewardship	National Fish and Wildlife Foundation (NFWF)	Five-Star Restoration Program: Purpose is to support community-based wetland, riparian, and coastal habitat restoration projects. Applicants must demonstrate that measurable ecological, educational, social, and/or economic benefits are expected to result from the completion of	Modest financial assistance (average award of \$14,500) with no matching requirements; however, applicants are strongly encouraged to show funding support from other sources. Matching funds include cash and/or in-kind goods and services and can be from both	State and local agencies, private landowners, and other interested parties.	Proposals are due in early February each year, with notification of award in June.	Brian Kittler Brian.Kittler@nfwf.org
Resource Stewardship	National Park Service	Rivers, Trails, and Conservation Assistance Program: The program provides staff assistance to conserve rivers, preserve open space, and develop trails and greenways.	Projects will be evaluated on how they meet the following criteria: 1) A clear outcome leading to on the ground success; 2) Commitment, cooperation, and cost-sharing by applicant; 3) Opportunity for significant public involvement; 4) Protection of significant	Nonprofits, community groups, tribes, or tribal governments; and state or local government agencies.	Applications are due August 1st for assistance during the next fiscal year.	Charlie Stockman (202) 354-6900
Resource Stewardship	Natural Resources Conservation Service	Watershed Protection and Flood Prevention: Funding for activities that promote soil conservation and the preservation of the watersheds of rivers and streams throughout the US.	Matching funds are not required: applicants must generally provide matching ranging from 0%-50% in cash or in-kind resources depending on such factors as project type and the kinds of structural measures a project	States, local governments, and other political subdivisions; soil or water conservation districts; flood prevention or control districts and tribes. Potential	Not currently soliciting applications.	Luana Kiger Acting Director Watershed Planning Services (530) 792-5661
Water Supply	US Bureau of Reclamation (USBR)	Challenge Grant Program: Through the Challenge Grant Program, USBR provides 50/50 cost share funding to irrigation and water districts and states for projects focused on water conservation, efficiency, and water marketing. Projects are selected through a competitive	Funding for Water 2025 Challenge Grant projects is awarded on a competitive basis through a merit-based review process performed by a Technical Proposal Evaluation Committee. Matching funds are required. Applicants must provide a minimum	Eligible applicants include irrigation and water districts, state governmental entities with water management authority. Projects must be located in Western US.	The FY 2008 budget request for Water 2025 is \$11 million	Miguel Rocha Water 2025 Program Coordinator (303) 445-2841
Water Quality	US Department of Agriculture (USDA) Rural Development	Water and Waste Disposal Program: Program that provides financial assistance (loans and grants) for community water, wastewater, and drainage systems in rural areas	Funds may be used for planning, design, and construction of new or existing systems; eligible projects include storage, distribution, source development; no funding limits, but average project size is \$1.8 million. Greater funding share provided for low-income	Cities, towns, public bodies, and census designated places with populations less than 10,000. Must demonstrate financial	Applications accepted on continuous basis.	Dave Hartwell USDA State Office (530) 792-5817
Resource Stewardship	US FWS	North American Wetlands Conservation Act: Provides funding, up to \$75,000, for projects that provide long-term protection of wetlands and wetlands dependent fish	Partners must match the grant request at a 1 to 1 ratio.	Organizations and individuals who have developed partnerships to carry out	Applications accepted on continuous basis.	Division of Bird Habitat Conservation (703) 358-1784

**TABLE C-1
POSSIBLE FUNDING OPPORTUNITIES**

Funding Objective	Program Sponsor	Brief Description	Key Points	Eligibility	Submit Grant Application	Contact
FEDERAL						
Water Quality	US EPA	Source Reduction Assistance: The purpose of this program is to provide an overall benefit to the environment by preventing the generation of pollutants at the source. This program seeks projects that support source reduction, pollution prevention, and/or source conservation practices.	Specific requirements for measurement and reporting requirements.	Units of state, local, and tribal government; independent school district governments; private or public colleges and universities; nonprofits; and community-based grassroots organizations.	Funding opportunity anticipated in FY 2008.	Leif Magnuson Pollution Prevention Coordinator (415) 972-3286
Water Quality and Resource Stewardship	US EPA	EPA Wetlands Program Development Grants: Projects that promote the coordination and acceleration of research, investigations, experiments, training, demonstrations, surveys, and studies relating to the causes, effects, extent, prevention, reduction, and elimination of water pollution	Three priority areas identified by the EPA: Developing a comprehensive monitoring and assessment program; improving the effectiveness of compensatory mitigation; and refining the protection of vulnerable wetlands and aquatic resources. Typically \$25,000 to \$250,000, but no set amount. 25% match required.	States, tribes, local governments, interstate associations, intertribal consortia, and national non-profit, non-governmental organizations are eligible to apply.	Grants to be awarded in FY 2008. Funding in later years is unknown.	Suzanne Marr US EPA Region 9 (415) 972-3468
Resource Stewardship	National Park Service	Rivers, Trails, and Conservation Assistance Program: The program provides staff assistance to conserve rivers, preserve open space, and develop trails and greenways.	Projects will be evaluated on how they meet the following criteria: 1) A clear outcome leading to on the ground success; 2) Commitment, cooperation, and cost-sharing by applicant; 3) Opportunity for significant public involvement; 4) Protection of significant natural and/or cultural resources and enhancement of outdoor recreational opportunities; and 5) Consistency with the National Park Service mission.	Nonprofits, community groups, tribes, or tribal governments; and state or local government agencies.	Applications are due August 1st for assistance during the next fiscal year. http://www.nps.gov/rtca/	Charlie Stockman (202) 354-6900
Resource Stewardship	National Fish and Wildlife Foundation (NFWF)	Five-Star Restoration Program: Purpose is to support community-based wetland, riparian, and coastal habitat restoration projects. Applicants must demonstrate that measurable ecological, educational, social, and/or economic benefits are expected to result from the completion of the project.	Modest financial assistance (average award of \$14,500) with no matching requirements; however, applicants are strongly encouraged to show funding support from other sources. Matching funds include cash and/or in-kind goods and services and can be from both federal and non-federal sources.	State and local agencies, private landowners, and other interested parties.	Proposals are due in early February each year, with notification of award in June.	Brian Kittler Brian.Kittler@nfwf.org

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Resource Stewardship	Natural Resources Conservation Service	Watershed Protection and Flood Prevention: Funding for activities that promote soil conservation and the preservation of the watersheds of rivers and streams throughout the US.	Matching funds are not required: applicants must generally provide matching ranging from 0%-50% in cash or in-kind resources depending on such factors as project type and the kinds of structural measures a project proposes.	States, local governments, and other political subdivisions; soil or water conservation districts; flood prevention or control districts and tribes. Potential applicants must be able to obtain all appropriate land and water rights and permits to successfully implement proposed projects.	Not currently soliciting applications.	Luana Kiger Acting Director Watershed Planning Services (530) 792-5661
Water Quality	US Department of Agriculture (USDA) Rural Development	Water and Waste Disposal Program: Program that provides financial assistance (loans and grants) for community water, wastewater, and drainage systems in rural areas	Funds may be used for planning, design, and construction of new or existing systems; eligible projects include storage, distribution, source development; no funding limits, but average project size is \$1.8 million. Greater funding share provided for low-income communities.	Cities, towns, public bodies, and census designated places with populations less than 10,000. Must demonstrate financial need.	Applications accepted on continuous basis.	Dave Hartwell USDA State Office (530) 792-5818
Water Supply	US Bureau of Reclamation (Reclamation)	Challenge Grant Program: Through the Challenge Grant Program, Reclamation provides 50/50 cost share funding to irrigation and water districts and states for projects focused on water conservation, efficiency, and water marketing. Projects are selected through a competitive process, based on their ability to meet the goals identified in Water 2025: Preventing Crises and Conflict in the West. The focus is on projects that can be completed within 24 months that will help to prevent crises over water.	Funding for Water 2025 Challenge Grant projects is awarded on a competitive basis through a merit-based review process performed by a Technical Proposal Evaluation Committee. Matching funds are required. Applicants must provide a minimum 50% of project costs in non-Federal cash or in-kind resources. Priority is given to projects that will be completed within 24 months from the date of the award, and that will decrease the likelihood of conflict over water.	Eligible applicants include irrigation and water districts, state governmental entities with water management authority. Projects must be located in Western US.	The FY 2008 budget request for <i>Water 2025</i> is \$11 million http://www.doi.gov/water2025/grant.html	Miguel Rocha Water 2025 Program Coordinator (303) 445-2841
Resource Stewardship	US Fish and Wildlife Service (USFWS)	North American Wetlands Conservation Act: Provides funding, up to \$75,000, for projects that provide long-term protection of wetlands and wetlands dependent fish and wildlife.	Partners must match the grant request at a 1 to 1 ratio.	Organizations and individuals who have developed partnerships to carry out wetlands conservation projects in the US, Canada, and Mexico.	Applications accepted on continuous basis.	Division of Bird Habitat Conservation (703) 358-1784

Appendix D – Resolution of Intention

RESOLUTION 08-09

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TWENTYNINE PALMS WATER DISTRICT DECLARING AN INTENT TO AMEND THE DISTRICT'S GROUNDWATER MANAGEMENT PLAN

WHEREAS, the Twentynine Palms Water District ("District") is a County Water District Duly formed and operating pursuant to Section 31000 et seq. of the California Water Code and has the authority to provide water service to customers within its service area; and

WHEREAS, groundwater is a valuable resource within the State of California and particularly within the boundaries of the District and such groundwater must be monitored and evaluated; and

WHEREAS, in recognition of the value of groundwater as a resource, the California State Legislature passed AB 3030 which encourages local water purveying agencies to develop and implement groundwater management **plans**; and

WHEREAS, in keeping with this state mandate and assuring that District water users are supplied with their water needs, the District adopted and implemented a groundwater management plan; and

WHEREAS, the District has ~~now~~ determined that it is prudent to amend its groundwater management plan; and

WHEREAS, as required by Water Code Section 10753.2(a) and Government Code Section 6066, notice of a public hearing was published in the Desert Trail on June 12, 2008 and June 19, 2008; and

WHEREAS, a public hearing was conducted on June 25, 2008 by the Board of Directors of the District in order to receive oral and written testimony on whether or not to adopt a Resolution of Intention to Amend the Groundwater Management Plan.

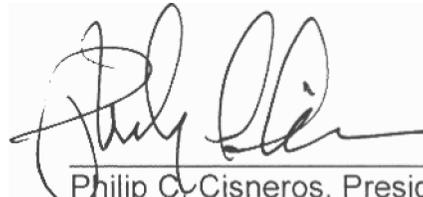
NOW , THEREFORE, the Board of Directors of the Twentynine Palms Water District hereby resolves as follows:

1. Declaration of Intention. It is hereby declared that the District intends to prepare an amended groundwater management plan within two (2) years of the date of adoption of this Resolution of Intention, pursuant to Section 10750 et seq. of the California Water Code, that will afford conservation, protection and enhancement of groundwater supplies within the District's service area.

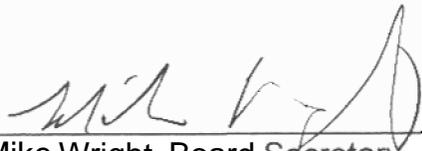
2. Publication of Notice. Pursuant to Section 10753.3 of the California Water Code, the Secretary of the District is hereby authorized and directed to publish this Resolution of Intention in a newspaper of general circulation within the affected area twice, in two (2) successive weeks. Upon written request, the Secretary shall also provide any interested persons with a copy of this Resolution of Intention.

PASSED, APPROVED AND ADOPTED on this 25th day of June 2008, at a regular meeting of the Board of Directors of the Twentynine Palms Water District by the following vote:

Ayes: Directors Anthony, Cisneros, Moore and Yockey
Noes: None
Abstain: None
Absent: Director Gallagher


Philip C. Cisneros, President
Board of Directors

Attest:


Mike Wright, Board Secretary
Twentynine Palms Water District



Appendix E - Ordinance No. 91 Adoption of the
Groundwater Management Plan Update

ORDINANCE NO. 91

AN ORDINANCE OF THE TWENTYNINE PALMS WATER DISTRICT
ADOPTING A GROUNDWATER MANAGEMENT PLAN UPDATE
PURSUANT TO WATER CODE SECTION 10750 ET SEQ.
AND SUPERSEDING ORDINANCE 82

WHEREAS, the Board of Directors of the Twentynine Palms Water District ("District") has heretofore adopted Ordinance 82 on October 24, 2001, adopting a Groundwater Management Plan and establishing a Groundwater Management Program; and

WHEREAS, the District is a County Water District duly formed and operating pursuant to Section 31000 et seq. of the California Water Code and has the authority to provide water service to customers within its service area; and

WHEREAS, groundwater is a valuable resource within the State of California and particularly within the boundaries of the District and such groundwater must be monitored and evaluated; and

WHEREAS, in recognition of the value of groundwater as a resource, the California State Legislature enacted Water Code section 10750 et seq. ("AB 3030") which encourages local water purveying agencies to manage groundwater resources within their jurisdictions and to develop and implement groundwater management plans; and

WHEREAS, in keeping with the intent of AB 3030 to ensure the safe production, quality and storage of groundwater within its jurisdiction, the District has adopted and implemented a Groundwater Management Plan; and

WHEREAS, the District's Board of Directors has determined that it is prudent to update its Groundwater Management Plan; and

WHEREAS, as required by Water Code Section 10753.2(a) and Government Code Section 6066, notice of a public hearing was published in the Desert Trail on June 12, 2008 and June 19, 2008 declaring the District's intent to amend its Groundwater Management Plan; and

WHEREAS, on June 25, 2008, the Board of Directors adopted Resolution No. 08-09 Declaring an Intent to Amend the District's Groundwater Management Plan and as required by Water Code Section 10753.3 and Government Code Section 6066, Resolution 08-09 was published in the Desert Trail on July 3, 2008 and July 10, 2008 and a Groundwater Management Plan Update was subsequently prepared; and

WHEREAS, as required by Water Code Section 10753.5 and Government Code Section 6066, notice of a second public hearing was published in the Desert Trail on November 6, 2008 and November 13, 2008 and a second public hearing was conducted on November 19, 2008 by the Board of Directors of the District in order to receive and consider any protests on whether or not to adopt the Groundwater Management Plan Update. Pursuant to Water Code Section 10753.6(c)(3), the Board of Directors has determined that a majority protest has not been filed and therefore, the Board wishes to take action to adopt the Groundwater Management Plan Update.

NOW, THEREFORE, BE IT ORDAINED by the Board of Directors of the Twentynine Palms Water District as follows:

1. Adoption of the Groundwater Management Plan Update. Pursuant to Water Code Sections 10753 and 10753.6, the District hereby adopts that certain Groundwater Management Plan Update set forth as Exhibit "A" attached hereto and incorporated herein by reference. Pursuant to the Groundwater Management Plan Update, the District hereby establishes a Groundwater Management Program as set forth in the Plan attached hereto as Exhibit "A."

2. Ordinance Shall be Superseding. All ordinances, resolutions, or administrative actions by the Board, or parts thereof that are inconsistent with any provision of this Ordinance are hereby superseded only to the extent of such inconsistency. As of the effective date of this Ordinance, Ordinance 82 shall be of no further force or effect.

3. Effective Date. This Ordinance shall be in full force and effect immediately upon adoption.

4. Publication of Ordinance. The Secretary of the District is hereby authorized and directed to publish this Ordinance in the Desert Trail within fifteen (15) days from the date of adoption. Upon written request, the Secretary shall also provide any interested persons with a copy of this Ordinance.

PASSED, APPROVED AND ADOPTED this 19th day of December 2008 by the following vote:

Ayes:	Directors Anthony, Cisneros, Gallagher, Moore and Yockey
Noes:	None
Abstain:	None
Absent:	None


Philip C. Cisneros, President
Board of Directors

Attest:


Mike Wright, Board Secretary
Twentynine Palms Water District

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