South Mountain corridor team

Water Resources Report

In support of the
Environmental Impact Statement

South Mountain Transportation Corridor in Maricopa County, Arizona

Arizona Department of Transportation
Federal Highway Administration
in cooperation with
U.S. Army Corps of Engineers
U.S. Bureau of Indian Affairs
Western Area Power Administration

ADOT

November 2012

Federal-aid Project Number: NH-202-D(ADY)
ADOT Project Number: 202L MA 054 H5764 01L

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Abstract: This document assesses and describes the effects on water resources that would occur as a result of the construction and operation of the proposed South Mountain Freeway as adopted in the 2003 *Regional Transportation Plan*. Contents of this document will be presented in Chapter 4 of the South Mountain Transportation Corridor Environmental Impact Statement.

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List of Acronyms and Abbreviations

ADEQ	Arizona Department of Environmental Quality
ADOT	Arizona Department of Transportation
ADWR	Arizona Department of Water Resources
AMA	Active Management Area
AZPDES	Arizona Pollutant Discharge Elimination System
BMP	best management practice
BWCDD	Buckeye Water Conservation and Drainage District
C	Central
Community	Gila River Indian Community
CWA	Clean Water Act
E	Eastern
E1	E1 Alternative
EIS	environmental impact statement
EPA	U.S. Environmental Protection Agency
FCDMC	Flood Control District of Maricopa County
FHWA	Federal Highway Administration
FR	Full Reconstruction
I-10	Interstate 10
MAG	Maricopa Association of Governments
MCL	maximum contaminant level
mg/L	milligrams per liter
NOI	Notice of Intent
PR	Partial Reconstruction
RID	Roosevelt Irrigation District
R/W	right-of-way
SEVRDS	Southeast Valley Regional Drainage System
SMCL	secondary maximum contaminant level
SMTC	South Mountain Transportation Corridor
SR	State Route
SRP	Salt River Project
SWPPP	Stormwater Pollution Prevention Plan
TDS	total dissolved solids
TI	traffic interchange
USACE	U.S. Army Corps of Engineers

USGS	U.S. Geological Survey
W	Western
W101CFR	W101 Alternative, Central Option, Full Reconstruction
W101CPR	W101 Alternative, Central Option, Partial Reconstruction
W101EFR	W101 Alternative, Eastern Option, Full Reconstruction
W101EPR	W101 Alternative, Eastern Option, Partial Reconstruction
W101WFR	W101 Alternative, Western Option, Full Reconstruction
W101WPR	W101 Alternative, Western Option, Partial Reconstruction
W59	W59 Alternative
W71	W71 Alternative

Glossary

aquifer	A saturated permeable geologic formation that can transmit significant quantities of water under hydraulic gradients.
Arizona Department of Transportation (ADOT)	The State agency responsible for state roads and highways.
Eastern Section	The portion of the Study Area located east of 59th Avenue.
environmental impact statement (EIS)	The project documentation prepared in accordance with the National Environment Policy Act when the project is anticipated to have a significant impact on the environment.
ephemeral	Present during only a portion of the year. Generally refers to watercourses.
Federal Highway Administration (FHWA)	A branch of the U.S. Department of Transportation responsible for administering the Federal-aid Program. The program provides financial resources and technical assistance for constructing, preserving, and improving the National Highway System along with other urban and rural roads.
fill	Earth used to create embankments or to raise low-lying areas in order to bring them to grade.
floodplain	The part of the ground surface inundated with water on a recurring basis, usually associated with the 1 percent recurrence interval (100-year) flow.
floodway	Defined with respect to flood control, the floodway is that portion of the floodplain in which construction would raise the water level during the 100-year flood by more than 30 centimeters (1 foot). As a general definition, the floodway is (1) a part of the floodplain, otherwise leveed, reserved for emergency diversion of water during floods and kept clear of encumbrances to facilitate the passage of floodwater and (2) the channel of a river or stream and those parts of the floodplains adjoining the channel that are reasonably required to carry and discharge the floodwater or flood flow of any river or stream.
intermittent	A stream that flows at only certain times of the year (not continuous) because of the balance between water losses (from evaporation and seepage) and actual streamflow.
mitigation	An action taken to reduce or eliminate an adverse impact stemming from construction, operation, or maintenance of a proposed action alternative. Mitigation could reduce the magnitude and extent of an impact from a level of significance to a level of insignificance. Mitigation includes a*voiding* the impact altogether by not taking a certain action or parts of an action; *minimizing* impacts by limiting the degree of magnitude of the action and its implementation; *rectifying* the impact by repairing, rehabilitating, or restoring the affected environment; *reducing or eliminating* the impact over time by preservation and maintenance operations during the life of the action, and *compensating* for the impact by replacing or providing substitute resources or environments. (40 Code of Federal Regulations § 1508.20)

nonpoint source	Pertains to the discharge of pollutants into waters or air where the pollutant sources come from an area rather than a single source that can be pinpointed.
perennial	Present throughout the year.
receiving water	Watercourse or water body that would receive discharges from a source.
secondary impact	A change caused by the action later in time or farther removed in distance, but still reasonably foreseeable. Secondary impacts may include growth-inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air, water, and other natural systems, including ecosystems.
Study Area	The geographic area within which action alternative solutions to the problem are developed.
watershed	That part of the Earth's surface from which stormwater runoff flows to a single point.
Western Section	The portion of the Study Area located west of 59th Avenue.

1. Project Description and Purpose and Need

Project Description

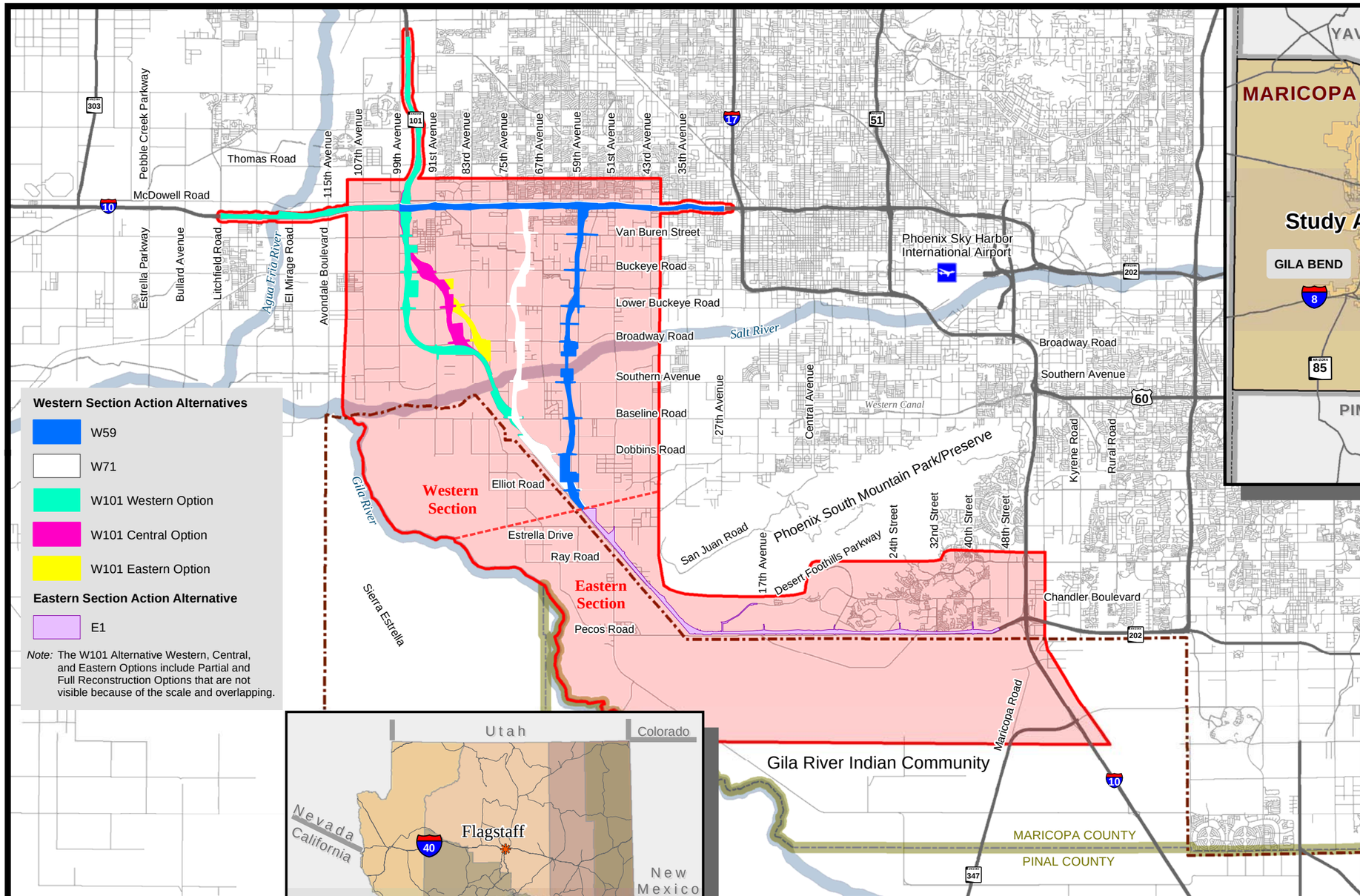
The Arizona Department of Transportation (ADOT) is studying the South Mountain Transportation Corridor (SMTC) in southern Phoenix, Maricopa County, Arizona. The South Mountain Freeway corridor was adopted into the Maricopa Association of Governments (MAG) regional freeway system in 1985 as part of the *MAG Freeway/Expressway Plan* (MAG 1985), at which time it was placed on the state highway system by the State Transportation Board. In 1988, ADOT prepared a design concept report and a state-level environmental assessment for the project, identified at that time as the South Mountain Parkway (ADOT 1988a, 1988b). As presented then, the project would connect Interstate 10 (I-10) (Maricopa Freeway) south of Phoenix with I-10 (Papago Freeway) west of the city, following an east-to-west alignment along Pecos Road through the western tip of the Phoenix South Mountain Park/Preserve, then north to I-10 between 59th and 99th avenues. Because of the time elapsed since those documents were approved and to secure eligibility for federal funding for a proposed project within this corridor, ADOT and the Federal Highway Administration (FHWA) are now preparing an environmental impact statement (EIS) in accordance with the National Environmental Policy Act. In November 2004, the MAG *Regional Transportation Plan* (2003) was placed before Maricopa County voters, who approved the sales tax funding the plan. The South Mountain Freeway was included in this plan.

Alternatives considered for the SMTC included past freeway proposals as well as transportation system management, transportation demand management, transit improvements, arterial street network improvements, and land use controls. A freeway facility was determined to best address the project purpose and need. Therefore, this report discusses the potential impacts of a proposed freeway in the SMTC.

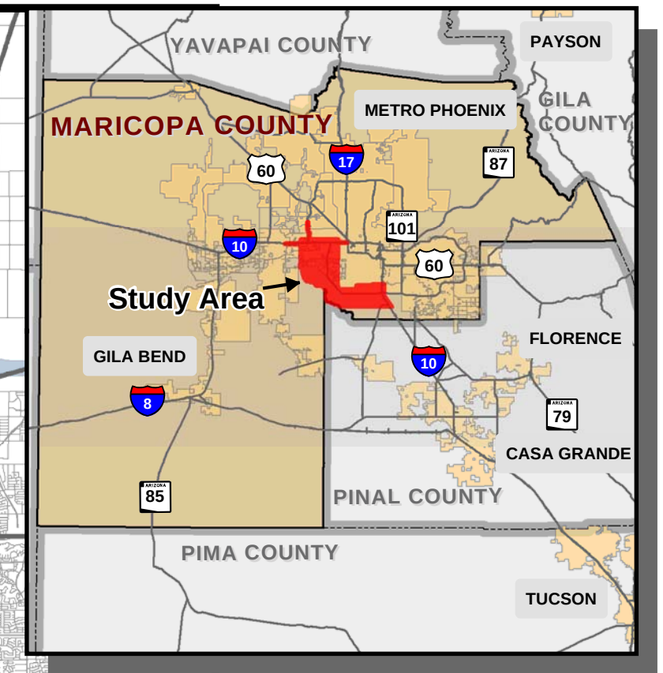
The Study Area for the EIS encompasses more than 156 square miles and is divided into a Western Section and an Eastern Section at a location common to all action alternatives (Figure 1). The division between sections occurs just east of 59th Avenue and south of Elliot Road.

Within the Western Section, three action alternatives are being considered for detailed study. These are the W59, W71, and W101 Alternatives. The W59 Alternative would connect to I-10 at 59th Avenue, while the W71 Alternative would connect at 71st Avenue. The W101 Alternative would connect to I-10 at the existing State Route (SR) 101L (Agua Fria Freeway)/I-10 system traffic interchange (TI) and has six associated options. The W101 Alternative options vary geographically among the Western (W), Central (C), and Eastern (E) Options and would vary geometrically based on a Partial Reconstruction (PR) or a Full Reconstruction (FR) of the system TI.

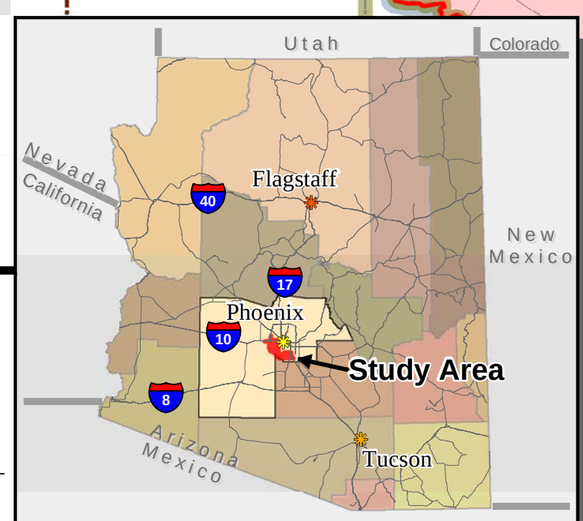
Improvements to I-10 (Papago Freeway) would occur for each Western Section action alternative (W59, W71, and W101). Improvements to SR 101L would occur for each option associated with the W101 Alternative.



Study Area and action alternatives



Location in county



Location in state

N

South Mountain Transportation Corridor
Federal-aid Project Number: NH-202-D(ADY)
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Figure 1

Study Area and Action Alternatives

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Within the Eastern Section of the Study Area, one action alternative is being considered. The E1 Alternative would begin near Elliot Road and 59th Avenue and proceed to the southeast to Pecos Road, which it would follow to the east until connecting to I-10 (Maricopa Freeway) at the Pecos Road/I-10/SR 202L (Santan Freeway) system TI.

The action alternatives and options are summarized in Table 1.

Table 1. Action Alternatives and Options

Section	Interstate 10 Connection	Action Alternative	Option – Broadway Road to Buckeye Road	Option – State Route 101L/ Interstate 10 Connection Reconstruction	Option Name
Western	59th Avenue	W59	—[a]	—	—
	71st Avenue	W71	—	—	—
	State Route 101L	W101	Western	Partial Reconstruction	W101WPR
				Full Reconstruction	W101WFR
			Central	Partial Reconstruction	W101CPR
				Full Reconstruction	W101CFR
			Eastern	Partial Reconstruction	W101EPR
				Full Reconstruction	W101EFR
Eastern	Pecos Road	E1	—	—	—

[a] not applicable

The No-Action Alternative is being considered for the entire Study Area.

Purpose and Need

An analysis of population trends, land use plans, and travel demand shows that a considerable traffic problem in the Phoenix metropolitan area is projected for the future, resulting in the need for a new freeway in the SMTC. This traffic problem is likely to worsen if plans are not made to accommodate the regional travel anticipated. The purpose of a freeway within the SMTC is to support a solution to traffic congestion. Between the early 1950s and the mid-1990s, the metropolitan area grew by over 500 percent, compared with approximately 70 percent for the United States as a whole (MAG 2001). From 1980 to 2005, the Maricopa County population more than doubled, from 1.5 million to 3.7 million. The MAG region has been one of the fastest-growing metropolitan areas in the United States; Phoenix is now the fifth-largest city in the country, and the region ranks as the 12th-largest metropolitan area in the country.

Travel demand and vehicle miles driven in the metropolitan area are expected to increase at a faster rate than the population. MAG projections (conducted in collaboration with the Arizona Department of Economic Security) indicate Maricopa County's population will increase from 3.7 million in 2005 to 6.5 million in 2035 (MAG 2009). It is projected that in the next 25 years, daily vehicle miles traveled will nearly double, from 101 million to 185 million.

Even with anticipated improvements in light rail service, bus service, trip reduction programs, and existing roads and freeways, vehicle traffic volumes are expected to exceed the capacity of Phoenix metropolitan area streets and highways by as much as 11 percent in 2035. A freeway within the SMTC would accommodate approximately 6 percentage points of the 11 percent of the unmet travel demand and would be part of an overall traffic solution.

2. Affected Environment

Central Arizona has naturally occurring surface runoff, but it is erratic in rate and volume, usually sediment-laden, and present only in direct response to local precipitation (U.S. Department of the Interior Bureau of Reclamation 1979). Much of the normal runoff from the watershed percolates into the soil, recharging regional aquifers. Groundwater pumping in the Study Area exists to serve both irrigation and domestic uses. Groundwater in the area is pumped at different rates to meet seasonal demands.

As depicted on Figure 2, the Salt and Gila rivers are the major surface water resources in the Study Area. The Salt River crosses the northern portion of the Western Section of the Study Area and discharges to the Gila River near the northwestern boundary of the Study Area. Flow in the Salt River is seasonal and intermittent, influenced by groundwater withdrawals, treated sewage effluent discharges, diversions for irrigation, return flow from irrigated areas, and occasional floodwater release from upstream dams.

Surface Water

Watershed Description and Flow Characteristics

The proposed action lies within the Gila River watershed, which encompasses an area of approximately 57,900 square miles in Arizona and New Mexico. The watershed includes the greater Phoenix metropolitan area and receives water from the Salt, Verde, and Gila rivers (Figure 3). Surface water flow in the Study Area is limited to periodic releases from upstream reservoirs, wastewater treatment plants, agricultural return flows, “dry” flows from stormwater outfalls (landscape irrigation runoff), and runoff from storms in the watershed below the reservoirs (ADOT 1989). Streambeds in the greater Phoenix metropolitan area have been left seasonally dry because of surface water diversions into reservoirs located on the Salt, Verde, and Gila rivers.

The Salt River watershed encompasses approximately 5,980 square miles and contains Roosevelt, Apache, Saguaro, and Canyon lakes, with greater than 90 percent of the flow entering the system upstream of Roosevelt Lake. The primary source of domestic and agricultural water for the Phoenix metropolitan area is the Salt River watershed, which includes multiple storage reservoirs. The Granite Reef Dam and Diversion Structure, which is located approximately 25 miles east of the Study Area, diverts the majority of Salt and Verde river flows (including releases from upstream reservoirs) to an extensive canal system. The canal system is funded and owned by the U.S. Bureau of Reclamation and is operated by Salt River Project (SRP) for the purpose of delivering water for agricultural and domestic use. Flow characteristics of water in the Salt River vary from year to year and are determined by canal diversions and the magnitude of releases from upstream reservoirs that, in turn, depend on snow and rainfall conditions in the watershed. Historic records indicate that between 1940 and 1965, the Salt River channel through the Phoenix metropolitan area remained nearly dry. Between 1965 and 2009, flows ranged from flood conditions to small releases as a result of increased rainfall in the watershed.

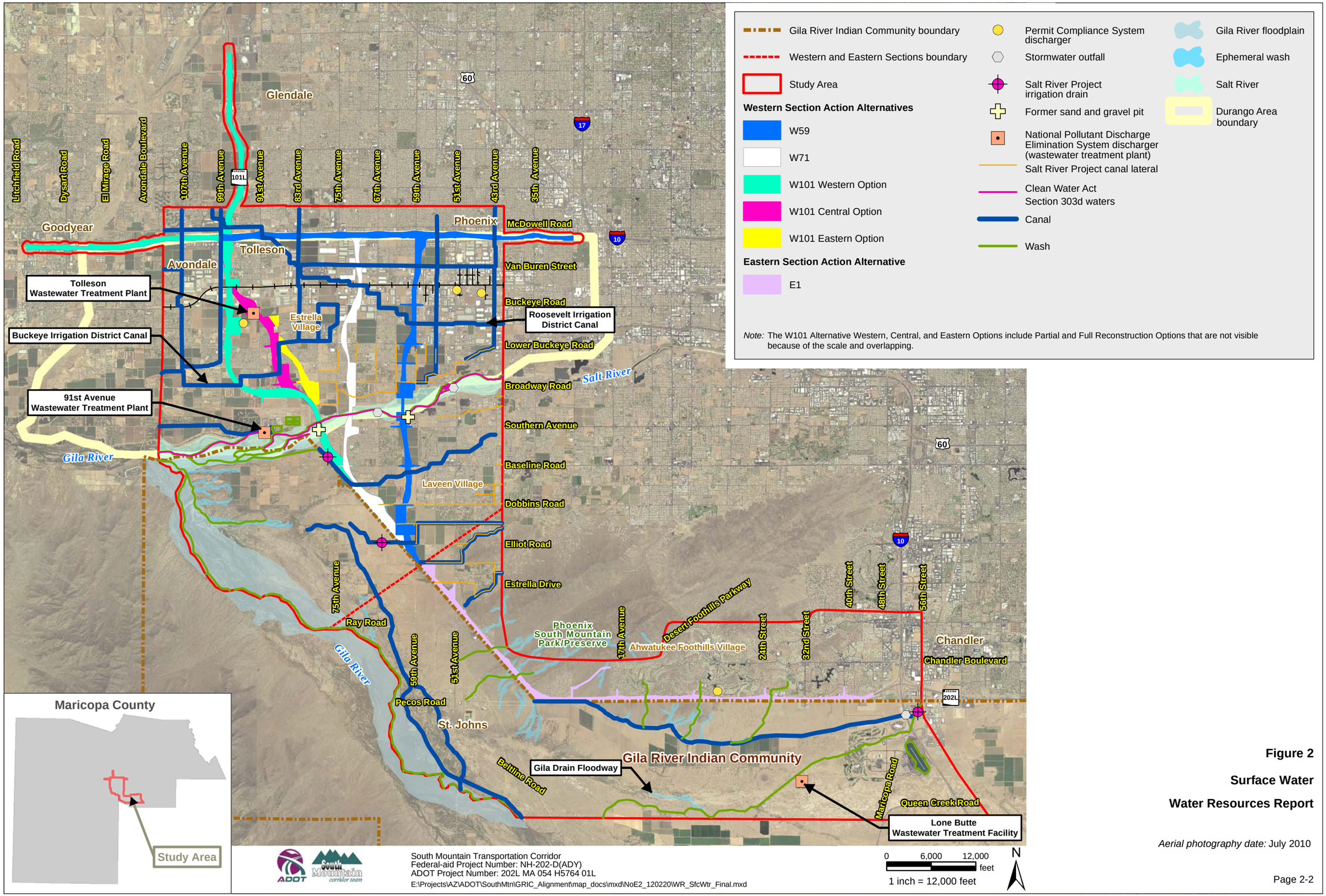

Figure 2

Surface Water

Water Resources Report

Aerial photography date: July 2010

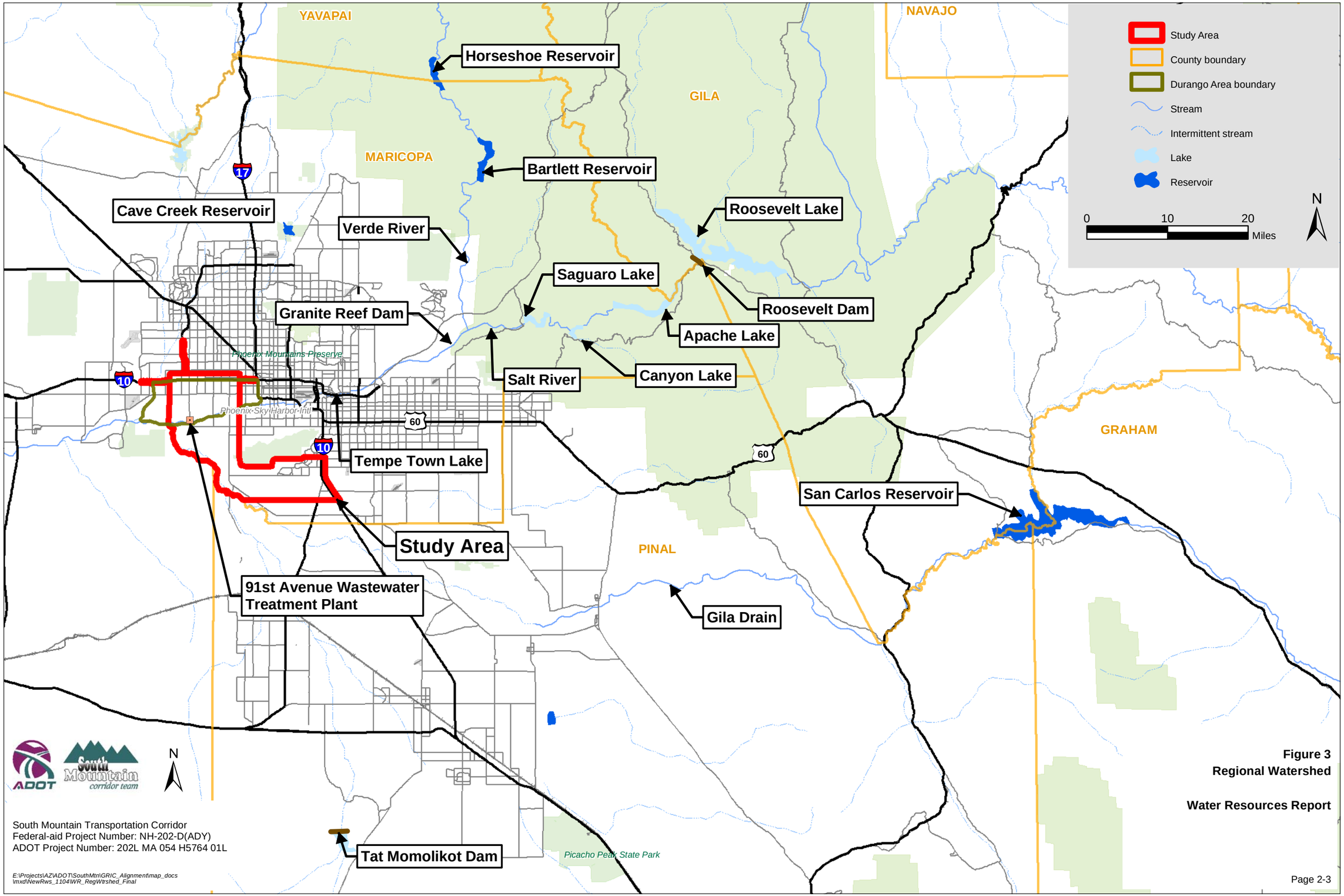

Figure 3
Regional Watershed

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Surface water in the Eastern Section of the Study Area is limited to runoff from storms in the local watershed. Storm runoff from the South Mountains discharges to the south through drainage culverts along Pecos Road. This storm runoff conveyance continues south through ephemeral washes to Gila River Indian Community (Community) land.

Broadacres Canal flows east-to-west along the northern boundary of the Broadacres Farm development on the Community. The ephemeral washes east of 17th Avenue (south of Pecos Road) pond against this irrigation canal during storms. Ephemeral washes south of this canal and west of 17th Avenue drain to the Gila Drain Floodway, which then converges with the Gila River.

The Pima-Maricopa Irrigation Project is a water distribution system designed to convey irrigation water from the Central Arizona Project aqueduct to the west through Community Districts 1, 2, 4, 6, and 7.

Surface Water Quality

In the Basin and Range Lowlands, streams typically flow only in response to rainfall runoff (ephemeral-type streams) (U.S. Geological Survey [USGS] 2000). A fraction of the nutrients and dissolved solids applied to the land surface by human, animal, and natural sources is transported to the watercourse system. Perennial flow, due to discharge of treated wastewater and combined flow from effluent and irrigation return water, typically exceeds the U.S. Environmental Protection Agency's (EPA's) goal for phosphorus concentration for prevention of nuisance plant growth.

The USGS report *Water Quality in the Central Arizona Basins* (2000) concludes that surface water in the area consists of effluent-dependent urban streams that are valuable water resources; however, the water quality is poor.

In Arizona, nonpoint source pollution (e.g., roadway projects) causes most surface water quality impacts. Such impacts include increases in sediment loading into receiving watercourses, release of pollutants generated by vehicles using the completed facility, and erosion of unprotected banks. Creation of new roadways increases the impervious surface area and increases runoff quantities and peak flow rates during storms, which, in turn, transport pollutants generated by vehicles using the roads.

Salt and Gila Rivers' Water Quality

"Water Quality Limited Waters" are water bodies assessed by the Arizona Department of Environmental Quality (ADEQ) as having impaired quality that require more than existing technology and permit controls to achieve or maintain water quality standards for intended uses in accordance with the Clean Water Act (CWA) Section 303(d). The CWA Section 303(d) list identifies those waters that are impaired and indicates the pollutant(s) causing impairment (ADEQ 2011). Arizona's Section 303(d) Impaired Waters List consists of two sections: the first contains ADEQ Section 303(d) listings, and the second contains the EPA Section 303(d) listings. Several reaches of the Salt and Gila rivers are on the EPA Section 303(d) list, including that portion of the Salt River in the Study Area (ADEQ 2011). Figure 2 shows this portion of the Study Area.

The quality of water in the Salt and Gila rivers is influenced by several factors. Total dissolved solids (TDS; salts) are the major constituent associated with degraded water quality. Sources of TDS in the Salt River may be traced to saline spring tributaries, mining operations, agricultural practices (including irrigation return flows), and other watershed activities associated with nonpoint source pollution (ADEQ 2005). Intermittent runoff from the existing roadway system in the Study Area is conveyed to the Salt River by storm drain facilities or washes, or may percolate into the ground in areas not served by storm drains. Roadway runoff water quality may be impaired by suspended and dissolved contaminants from the road surface that contribute to degradation of surface water quality.

The Flood Control District of Maricopa County (FCDMC) has interconnected and shared drainage systems with municipalities within the county, and stormwater discharges from nearly all its facilities have the potential to reach the Salt/Gila River system. Because of this, FCDMC has been working with municipalities, EPA, and ADEQ to comply with the National Pollutant Discharge Elimination System regulations (for tribal land) and the Arizona Pollutant Discharge Elimination System (AZPDES) regulations. FCDMC has negotiated with multiple municipalities to locate, identify, and eliminate pollutants associated with regulated discharges where possible. FCDMC also collects stormwater quality data for National Pollutant Discharge Elimination System permit compliance and inclusion in the FCDMC Regional Stormwater Quality database. As a result of collaboration with the municipalities on permit requirements, FCDMC operates a network of stormwater quality monitoring stations throughout Maricopa County.

Sources of impacts on surface water quality in the Study Area include:

- nonpoint source pollution
- drainage from the southern side of the South Mountains near Ahwatukee Foothills Village
- Gila Drain Floodway discharges
- sand and gravel pit mining operations within and upstream of the Study Area

The Southeast Valley Regional Drainage System (SEVRDS) is part of a large watershed that drains the eastern portion of Maricopa County (such as the city of Chandler) to the Gila Drain. The Gila Drain discharges into the Gila River on the Community west of Maricopa Road near the Lone Butte Wastewater Treatment Facility (Figure 2). A stormwater detention facility provides treatment of “first flush” stormwater to remove suspended sediment, nutrients, and other pollutants.

Groundwater

Groundwater Setting and Development

Groundwater is a source of public water supply in Arizona. In 1995, groundwater withdrawal in the Phoenix Active Management Area (AMA) was 39 percent of the total consumption of 2.29 million acre-feet (Arizona Department of Water Resources [ADWR] 1999). About 64 percent of the groundwater withdrawal was used for agriculture. The remainder was used for public water supply, industrial,

domestic, and other purposes. Rapid population growth has resulted in the retirement of agricultural land and the conversion of agricultural groundwater supplies to urban uses. The availability of a suitable quality and quantity of water has influenced the development of cities and reduced the amount of agricultural land.

Groundwater overdraft has created problems such as loss of aquifer recharge storage capacity and increased well drilling and pumping costs. Water quality may be an issue if the groundwater pumped from greater depths contains more salts and minerals. In areas of severe groundwater depletion, the Earth's surface may also subside, causing cracks or fissures that can damage roads, building foundations, and underground infrastructure.

The Study Area is located within two AMAs, both regulated by the State of Arizona through the Groundwater Management Act (ADWR 2011). The majority of the Study Area is located within the Phoenix AMA. ADWR administers groundwater use through implementation of five successive management plan periods with a goal of achieving a safe yield by 2025. *Safe yield* is defined as the amount of groundwater pumped from AMA aquifers on an average annual basis, and must not exceed the amount that is naturally or artificially recharged. Water level declines in one subbasin of the Phoenix AMA can be offset by recharging water in another subbasin of the AMA. A small portion of the Study Area is located within the Pinal AMA. The ADWR management goal for the Pinal AMA is to preserve that agricultural economy for as long as feasible, while considering the need to preserve groundwater for future nonirrigation uses (ADWR 2011).

ADWR regulates the drilling, installation, and abandonment of groundwater wells. ADWR maintains a database containing well information that is updated annually. Active groundwater wells are located in the Study Area (Figure 4).

If a well were to be affected by roadway construction, well abandonment and compensation (drilling a new well) may be required. The irrigation districts in the Study Area use groundwater wells and have both surface (canals) and subsurface (pipes) conveyance infrastructure associated with their operations. Private, municipal, utility, and corporate-owned groundwater wells also are located in the Study Area. Appendix A includes a list of registered wells within the right-of-way (R/W) of all of the proposed action alternatives.

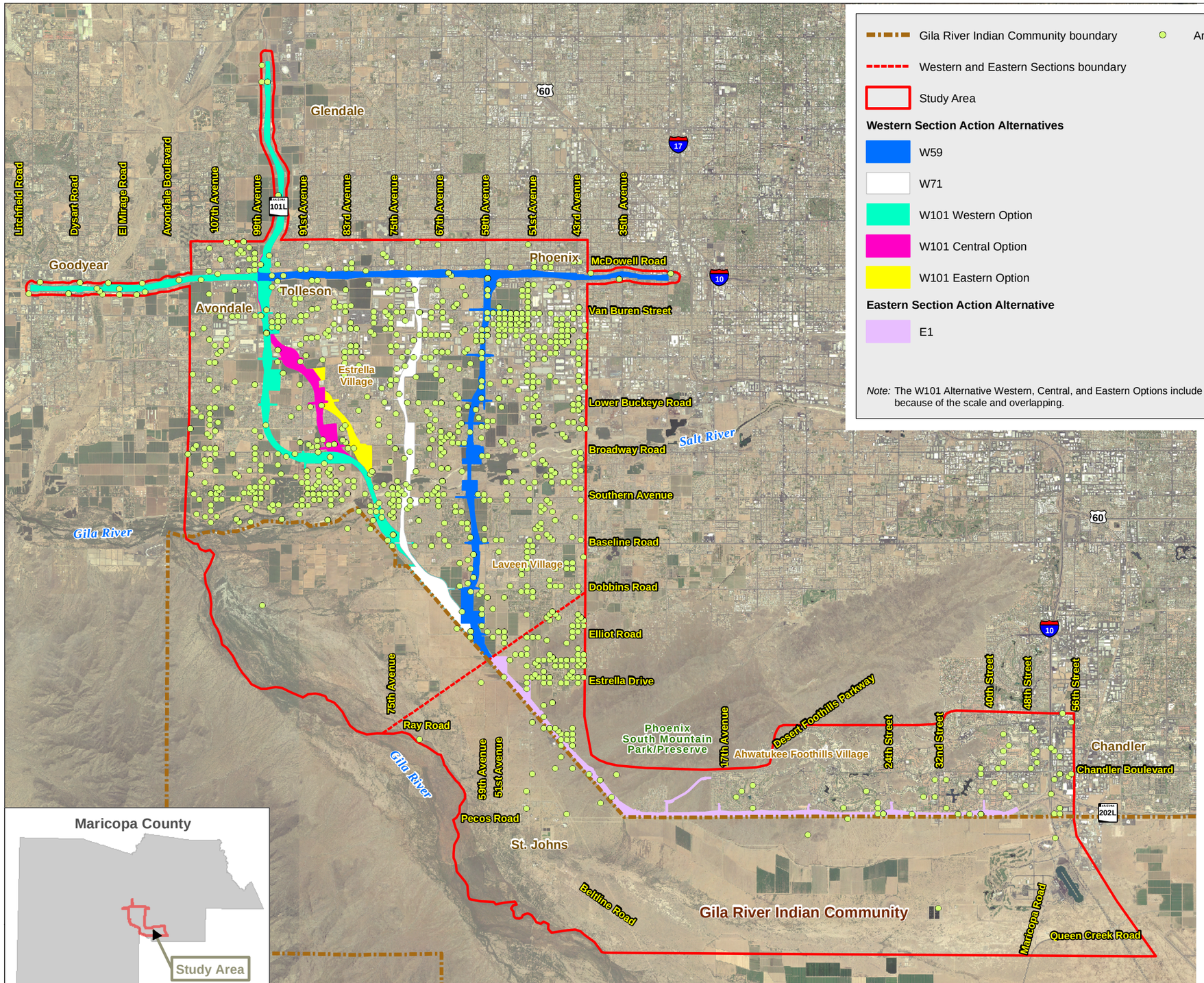

Figure 4

Wells

Water Resources Report

Source: ADEQ (2010)

Aerial photography date: July 2010

The Roosevelt Irrigation District (RID) uses surface water and groundwater supplies and receives wastewater treatment plant effluent from the City of Phoenix. Of the total amount of groundwater the RID pumps, approximately 85 percent comes from its own well field in the southwestern portion of the SRP service area just east of the Agua Fria River. RID annually purchases about 5,000 acre-feet of effluent from the City of Phoenix's 23rd Avenue Wastewater Treatment Plant. In addition, RID began taking 30,000 acre-feet of effluent from the City of Phoenix in 1995 through a water exchange agreement (City of Phoenix 2005).

SRP uses both surface water and groundwater pumped from its own wells to meet its total delivery obligations.

The total water supply for the Buckeye Water Conservation and Drainage District (BWCDD) averages 12 to 18 percent groundwater, and up to approximately 40,000 acre-feet of effluent that is produced by the City of Phoenix 91st Avenue Wastewater Treatment Plant (City of Phoenix 2005). The balance of water supply deliveries is from surface water diverted from the Gila River.

The Community uses both surface water and groundwater resources for agricultural, domestic, industrial, and monitoring purposes.

Groundwater Quality

The Study Area is located within the Upper Gila River groundwater watershed above portions of three aquifers: the West Salt River Valley, East Salt River Valley, and Maricopa-Stanfield groundwater basins. The West and East Salt River Valley groundwater basins both fall within the Phoenix AMA, and the Maricopa-Stanfield groundwater basin falls within the Pinal AMA.

Use of local groundwater is limited by both the total concentration and the type of salt and mineral solids dissolved in the water. In the greater Phoenix metropolitan area, water containing more than 1,000 milligrams per liter (mg/L) of TDS is generally not preferred for potable water supply without treatment, while water containing as much as 3,000 mg/L can be used for irrigation. The EPA secondary maximum contaminant level (SMCL) (nonenforceable) for TDS is 500 mg/L for potable water supplies.

Groundwater quality in the Study Area generally satisfies existing EPA standards for drinking water, although the maximum contaminant level (MCL) for nitrate (10 mg/L) and the EPA nonenforceable SMCL for TDS (USGS 2009) are exceeded.

The following sections describe general groundwater quality and water levels in several specific Study Area locations.

Durango Area

The Durango Area (approximately 30 square miles in size [FCDMC 2000]) covers the entire western portion of the Study Area (Figure 3). The Durango Area is located south of I-10, north of the Gila River,

and west of Interstate 17 (FCDMC 2000). The depth to the groundwater level varies from approximately 65 to 134 feet as reported by USGS for five sample wells from 1991 to 1997.

Sampling results from five wells from 1951 to 1997 resulted in all five wells exceeding the EPA SMCL for chloride, which is 250 mg/L. Two of the wells also exceeded the MCL for nitrate.

The West Van Buren Water Quality Assurance Revolving Fund site extends east-to-west underneath the Study Area between Van Buren Street and Buckeye Road. The site is regulated by ADEQ, and water quality in several of the groundwater well locations exceeds standards for volatile organic compounds (ADEQ 2006).

Salt River

The Salt River area is approximately 15 square miles in size. The water level below ground surface ranges from 35 to 50 feet, according to data collected from five different wells from 1982 to 1992.

Water quality data were obtained from four wells in this area for a period of over 60 years (1933–1997). All four wells exceeded the EPA SMCL for chloride and sulfates. The SMCL for both constituents is 250 mg/L. Two of the wells also exceeded the MCL for nitrate.

Laveen

The area studied near the community of Laveen encompasses over 12 square miles. USGS data obtained for four wells from 1923 to 1992 indicates the water level below ground surface ranges from 9 to 40 feet.

USGS has collected groundwater data in this area for a 60-year period, from 1924 to 1984. The SMCL for chloride and sulfates was exceeded in four specific wells and the MCL for nitrate was exceeded in two of the same four wells.

Ahwatukee Foothills Village and Phoenix South Mountain Park/Preserve

The Ahwatukee Foothills Village and Phoenix South Mountain Park/Preserve area covers more than 10 square miles. USGS groundwater level data were obtained for several different wells from 1972 to 1992. The water level below ground surface in this area is relatively deep, ranging from 97 feet to 117 feet (USGS 2009).

Water quality data from four wells in this area were reviewed. The time period for the data obtained from these wells ranges from 1974 to 1983. The SMCL for chloride and sulfates was exceeded in all four wells (USGS 2009).

3. Environmental Consequences

This section describes water resources impacts that could result from the proposed action, including groundwater well impacts, increases in sediment loading into receiving watercourses, release of pollutants generated by traffic, and erosion of unprotected banks.

Construction Impacts Associated with All Action Alternatives

Surface Water

Each of the action alternatives would have a similar potential for affecting water quality during construction. Erosion of cut-and-fill slopes would have the greatest potential impact on both ephemeral washes in the Eastern Section and on the Salt River in the Western Section. New cut-and-fill slopes and temporary access roads constructed for the proposed action could erode by a combination of sheet, rill, and concentrated flow. Without mitigation, the eroded material would travel downslope and could eventually enter the receiving water channel network associated with each alternative. Once in the receiving water channel, the sediment could travel downstream—provided the channel characteristics and runoff volumes would be adequate to sustain material movement. The closer to receiving waters the eroded material is deposited, the greater the probability that the sediment would eventually enter the receiving water.

Nonsediment-related contaminant sources that could affect water quality include operation of construction equipment. Operating equipment may leak various petroleum compounds and contaminate isolated construction areas. When these areas come in contact with runoff, the compound(s) could be mobilized and potentially enter flowing or standing water. Area(s) used for fueling equipment would also be prone to contamination from spills and could transport contaminants when runoff occurs.

Other construction-related contamination could result from materials such as concrete, concrete and asphalt coatings, and emulsions being delivered to the construction site. The equipment used for delivery of these products typically would be cleaned before departing from the delivery site. The waste material would be discharged within the construction corridor and might become mobilized during storms.

The irrigation districts (RID, SRP, and BWCDD) conveyance infrastructure (surface canals, earthen ditches, and subsurface pipes) would be crossed by all the action alternatives and options associated with construction. Construction impacts on irrigation infrastructure would be minimized by avoidance and the implementation of best management practices (BMPs) associated with physical damage and sediment retention (see *Mitigation* section).

Groundwater

Construction of the action alternatives in both the Western and Eastern Sections of the Study Area could affect existing wells that are located within the R/W needed by each action alternative and option (Figure 4) (ADWR 2010). A field well verification would be conducted prior to construction.

If a well were adversely affected by roadway construction, well abandonment and compensation (drilling a new well) may be required (ADWR 2008). Table 2 indicates the number of wells in the R/W of the action alternatives and options. Note that abandoned wells are included in Table 2 totals. ADWR well abandonment rules allow for five abandonment methods and variances depending on well construction, depth, and aquifer variables such as groundwater contamination (ADWR 2008). Because of these allowable abandonment methods, it is possible that abandoned wells could have physical structure (such as well casing) remaining in the ground. Because of this potential, abandoned wells identified from the ADWR data are included in the total numbers indicated in Table 2 and in the tables found in Appendix A. Table 2 was developed using information obtained from the ADWR database, which identifies wells as monitoring, piezometer, production, geotechnical, observation, domestic, test, irrigation, and abandoned. Effects on wells may include physical damage or impact on well casing or wellhead, restriction in required access to the wellhead, restricted use of the well, and/or administrative barriers to the well or use of the well. Groundwater wells located within each action alternative's R/W include municipal wells, private wells, and irrigation wells. Some examples of specific well owners include:

- municipal: City of Phoenix and City of Tolleson
- private: Kinder Morgan Energy Partners, Foothills Community Association, and corporations
- irrigation: RID and SRP

Appendix A contains a list of registered wells located within the R/W of all the proposed action alternatives and includes the associated well type, construction, ownership, and drilling details.

Table 2. Potentially Affected Wells, by Alternative and Option

Alternative/Option	Number of Wells
W59	93
W71	28
W101WPR	45
W101WFR	45
W101CPR	29
W101CFR	29
W101EPR	27
W101EFR	27
E1	25

Operational Impacts Associated with All Action Alternatives

Surface Water

Following construction, water quality in the Study Area could be affected as exposed cut-and-fill slopes continue to erode until stabilized by vegetative or mechanical means. Properly designed culverts and roadway channels would minimize erosion caused by elevated discharge velocities.

Pavement for the new freeway would increase the amount of impervious surface area, increasing runoff quantities and peak flow rates during storms. Because the freeway surface would be impermeable, precipitation would travel from the freeway surface as runoff to catch basins, and then to nearby natural channels. The increased runoff from the new impervious freeway surfaces would increase the transport of pollutants generated by vehicles using the freeway. This runoff would be transported from the road surface by the "first flush," or initial runoff generated during a storm. The most common impact would be the increase in pollutant loading into receiving waters. The action alternatives would concentrate vehicular traffic and the associated accumulation of pollutants throughout the freeway corridor. The total amount of road-related pollutants would be similar for each action alternative and option. Proper operational mitigation would reduce long-term impacts on water quality. In addition, the action alternatives would decrease regional and commuter traffic on the local road network. Runoff from the completed project would be directed to existing and new drainage facilities. Existing drainage facilities with inadequate capacity would be improved to handle increased runoff flows. New runoff detention facilities may be required in some locations to limit the maximum rate of runoff released to existing drainage facilities.

As previously noted, several reaches of the Salt and Gila rivers are on the EPA Section 303(d) list of impaired waters, including a portion of the Salt River in the Study Area (ADEQ 2011). Increased pollutant loading from freeway operation might further impair listed reaches of the Salt River and require that more than existing permit controls be used to achieve or maintain water quality standards in accordance with CWA Section 303(d).

Groundwater

Operational impacts on existing wells might include restricted access to the well casing or wellhead, restricted use of the well, and safety issues associated with access to or use of the well. If a well were affected by freeway operation, well abandonment and compensation (drilling a new well) might be required. According to ADOT's Right-of-Way Group, if the well were acquired, the water would be replaced.

Irrigation districts in the Study Area (RID, SRP, and BWCDD) use groundwater wells, and the districts have both surface (canals and earthen ditches) and subsurface (pipes) conveyance infrastructure. Operational impacts—such as canal, ditch, well, or pipeline replacements—might occur.

Impacts of the Western Section Alternatives

Surface Water

All proposed Western Section action alternatives would cross the Salt River and encroach into a federally mapped floodplain. This is because the floodplain forms a continuous feature from east to west across the Study Area. If a Western Section action alternative were selected as the proposed action, runoff would be directed to drainage facilities that ultimately discharge to the Salt River. This runoff could temporarily increase "first-flush" contaminant concentrations in the river during periods of seasonal runoff. The impact of pollutant discharges to water quality would be in direct relation to freeway traffic volumes.

The Rio Salado Oeste Environmental Restoration Project is currently under design by the U.S. Army Corps of Engineers (USACE) and the City of Phoenix. When completed, the project would be located in the Salt River between 19th and 83rd avenues in the Western Section of the Study Area. The Rio Salado Oeste feasibility study developed alternatives to restore the native riparian ecosystem and to increase passive recreation associated with the ecosystem (USACE 2002). The USACE Final EIS for Rio Salado Oeste was completed in 2006 (USACE 2006). Impacts on surface water (the Salt River) would depend upon time of year and any associated flows. The Salt River bed is dry the majority of the year because of upstream flow diversions and restrictions by SRP.

Groundwater

Affected wells that would need to be fully replaced (by drilling a new well) would be required to comply with the 2006 ADWR well spacing and impact rules. ADWR well spacing and well replacement rules state that a person proposing to construct a well that will be located in approximately the same location as the well it is replacing must file a Notice of Intent (NOI) to drill the well, but is not required to obtain a well permit or comply with the well spacing criteria in R12-15-1302 through R12-15-1307. According to R12-15-1308 (replacement wells in approximately the same location), a proposed replacement well is allowed to be located no greater than 660 feet from the original well location without the requirement to conduct a new well hydrologic impact analysis (ADWR 2006).

Runoff from any of the action alternatives and options would have no additional effect on groundwater quality in the vicinity of the Salt River other than what is currently occurring from existing streets and roads. Several irrigation district conveyance canals, ditches, and pipelines would be crossed by the Western Section action alternatives (Figure 2). Impacts such as runoff discharge from the freeway to the irrigation district canals and conveyance ditches would be minimized by roadway design and the use of BMPs for mitigation.

Impacts of the Eastern Section Alternative

Surface Water

In addition to impacts identified as common to all action alternatives, the E1 Alternative could adversely affect receiving water quality in the Gila River. Discharges of pollutants to ephemeral washes and,

ultimately, to the Gila River would occur as a result of storms. The freeway would be elevated over the ephemeral washes and culverts would be used to convey runoff.

Groundwater

Affected wells that would need to be fully replaced (by drilling a new well) would be required to comply with the 2006 ADWR well spacing and impact rules, as previously discussed. Runoff from any of the action alternatives and options would have no additional effect on groundwater quality in the vicinity of the Gila River and drainage tributaries other than what is currently occurring from existing streets and roads.

Secondary and Cumulative Impacts

Secondary effects are defined by the Council on Environmental Quality as impacts "caused by the action and are later in time or farther removed in distance, but are still reasonably foreseeable" (40 Code of Federal Regulations § 1508.8). Secondary impacts can be impacts that occur over time or are geographically removed from a direct relationship to the project. Based on this definition of secondary effects, the present analysis has not identified any secondary impacts to surface water or groundwater resources.

Cumulative effects are defined as "the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions …" (40 Code of Federal Regulations § 1508.7). If a project does not directly adversely affect a particular environmental resource, the project would not contribute to a cumulative impact on that resource. Cumulative impacts for each action alternative would occur because of the existence of the freeway. Future residential, industrial, commercial, and transportation projects in the Study Area may result in modification of existing washes and changes to water quality. Examples might include stormwater flow from other projects or other physical jurisdictions that would combine with stormwater flow directly from the freeway. Other projects may include commercial and residential development that create surfaces less permeable and accommodating to recharge. The associated increase in less permeable surfaces could act as a pollution collection surface. The result of this associated development would be higher runoff volumes and a higher potential for pollutant discharges into receiving streams.

No-Action Alternative

Project-related water quality impacts would not occur as a result of the No-Action Alternative because no construction would occur that could create project-related erosion or sediment deposits in existing watercourses or that could alter existing groundwater. Because no new freeway facility would exist in the Study Area, pollutants associated with increased freeway runoff would not occur. Urban growth would likely continue, however, and traffic volumes would likely increase on surface streets. As a result, pollutants would likely continue to be generated by the increased traffic on the surrounding road system and be dispersed over a larger area. Storms might erode exposed soil surfaces and cause subsequent sediment-laden runoff.

4. Mitigation

The following describes potential mitigation measures for ADOT to consider as future commitments to be implemented as part of the project to avoid, reduce, or otherwise mitigate environmental impacts associated with the project. Discussion of these measures in this report does not obligate ADOT to these specific measures. ADOT, along with FHWA, may choose to modify, delete, or add measures to mitigate impacts.

ADOT Design Responsibilities

Basic mitigation measures undertaken to reduce the quantity of pollutants reaching the Gila River would be inherent in the design of the proposed freeway. Mitigation measures for all action alternatives and options would include properly designed roadway channels to resist erosion, energy-dissipating structures at all culverts where discharge velocity may cause downstream erosion, and sediment-trapping basins strategically located to maximize sediment removal and function as a chemical-spill containment structure.

Cut-and-fill slopes would likely continue to erode unless stabilized using vegetative or mechanical means. Vegetation would slow surface runoff, help bind soils, reduce raindrop impact, and break up flow patterns. Mechanical means include retaining walls, rock slope protection, and geotextiles such as matting. Where appropriate, retaining walls would decrease cut-and-fill slopes, which, in turn, would reduce runoff velocities and erosion potential. Rock slope protection, where placed, would armor the slope, thereby preventing soil movement. Geotextiles would prevent extensive contact between surface runoff and soil, keeping the soil intact.

Slopes along roadside channels and at discharge points from culverts might be steep, promoting erosion. Therefore, conveyance features would need protection in the form of channel lining, reduced slopes, or energy-dissipating structures. Channel and energy-dissipating structure elements would be designed to break up and reduce discharge velocities.

Impacts such as runoff discharge from the roadway to the irrigation district canals (east of 51st Avenue in the Eastern Section) and conveyance ditches would be minimized by roadway design and the use of BMPs.

Freeway road surfaces would likely collect contaminants such as oil, grease, soil, and trash. When precipitation occurs, these contaminants might be mobilized and washed from the road surface to nearby natural and roadside channels. To lessen the impact of these contaminants, settling or detention basins would be used to collect water and allow material to settle. Dissolved contaminants would remain mobile and travel through the basins to the nearby drainage network. In addition to capturing road pollutants, these basins would also serve to contain chemical spills resulting from vehicle accidents. Each basin would be designed to contain a certain rainfall runoff volume before allowing discharge. If an accident were to occur, and provided the basins were dry at the time of the accident, the spill volume in most cases would be accommodated. These settling or detention basins would require periodic cleaning.

A construction AZPDES permit, for ground-disturbing activities exceeding 1 acre, would be obtained from ADEQ for a selected action alternative in accordance with provisions set forth in Section 402 of the CWA (ADEQ 2008). The AZPDES permit must be consistent with discharge limitations and water quality standards established for the receiving water. Construction-related activities regulated under the permit are required to have a Stormwater Pollution Prevention Plan (SWPPP), which would be prepared by ADOT. The SWPPP would outline the use of site-specific BMPs for controlling construction-related pollution discharges to waters of the United States as defined in the CWA (ADOT 2005). BMPs set forth in the ADOT *Erosion and Pollution Control Manual for Highway Design and Construction* (2005) would be included in the SWPPP.

BMPs may include:

- Silt barriers (silt fences, compost-filled socks, or straw bale check dams) would be constructed to restrict and filter sediment flowing to off-site channels.
- Trapped silt and debris would be removed to an off-site location before removing barriers.
- Contamination from leaking equipment would be reduced or prevented through frequent construction equipment inspections. Faulty equipment would be repaired when discovered.
- Construction equipment would be cleaned on a regular basis to minimize potential runoff contamination from petroleum products.
- Sediment basins would be constructed to treat sediment-rich runoff before discharge to off-site drainage channels.
- Equipment would be fueled and serviced at designated locations to minimize work site contamination. These fueling locations would be located away from nearby channels, swales, or other features that would quickly facilitate movement in the event of a spill.
- Upon construction completion, all contaminated material (e.g., concrete wash water) would be removed and disposed of in accordance with local, regional, and federal regulations.

Implementation of BMPs associated with any of the action alternatives would reduce water quality impacts on the Salt and Gila rivers. Both construction and operational impacts may be mitigated through the use of BMPs.

Municipal separate storm sewer systems (MS4s) convey stormwater runoff through drains, streets, and open channels, directly discharging untreated stormwater into retention basins, washes, rivers, or lakes. Municipalities operating MS4s within local urbanized areas designated by EPA or ADEQ are required to obtain individual discharge permits under AZPDES authority. Large MS4s in the study area are operated by ADOT, Glendale, and Phoenix, which implement individual permits within the Study Area. Small MS4s in the Study Area are operated by Chandler, Goodyear, Tolleson, and Avondale.

ADOT's MS4 permit authorizes the discharge of stormwater and other discharges to jurisdictional waters for three elements:

- Activities associated with the MS4 operated by ADOT. ADOT is implementing a Statewide Stormwater Management Program to address operation of its MS4 facilities (i.e., culverts, outfalls); it includes BMPs development and implementation and monitoring of outfalls following storms.
- Activities associated with construction—from the commencement of construction activities until final stabilization—that are initiated and controlled by ADOT. Construction project activities are addressed similar to the AZPDES permit with implementation of a SWPPP and filing of Notices of Intent and Notices of Termination with ADOT and other MS4s having jurisdiction; however, ADOT has specific guidance for erosion control plans and SWPPPs.
- Facilities associated with industrial and maintenance activities owned and operated by ADOT (ADEQ 2008).

ADOT would coordinate with appropriate governmental bodies such as flood control districts and the Community when designing drainage features for the proposed action.

ADOT Right-of-Way Responsibilities

Existing groundwater wells within the proposed R/W may be abandoned (ADWR 2008) or replaced as necessary. New wells would be installed outside the proposed R/W in accordance with ADWR regulations. Groundwater wells can be replaced within 660 feet of the original location without a hydrogeologic analysis (ADWR 2006). If a well were affected by roadway construction, the well owner would maintain rights for the water. According to ADOT's Right-of-Way group, if the well were acquired, the water would be replaced. This would be done through full well replacement (drilling a new well, in compliance with the 2006 ADWR well spacing and well replacement rules) or well abandonment and compensation (if requested by the owner).

Affected existing irrigation district canals may be relocated to allow for conveyance of irrigation water (through installation of pipe, conduit, or extension) from one side of the freeway to the other.

ADOT District Responsibilities

ADOT and the contractor would each file an NOI and a Notice of Termination with ADEQ in accordance with Section 402 of the CWA. ADOT would also comply with the State of Arizona Surface Water Quality Standard Rules (18 Arizona Administrative Code § 11).

Other measures that ADOT would undertake include:

- improving surface water quality when the roadway would be open to operation by proper maintenance of the retention, detention, and stormwater runoff facilities
- mitigating, as previously outlined, for wells that may be affected during construction
- conveying affected irrigation ditches through pipe under the roadway
- securing a CWA Section 401 certification by ADEQ

- relocating existing irrigation district canals that may be affected by the proposed action to allow for conveyance of irrigation water (through installation of pipe, conduit, or extension)

Contractor Responsibilities

ADOT and the contractor would each file an NOI and a Notice of Termination with ADEQ and MS4s (ADOT, Glendale, Phoenix, Chandler, Goodyear, Tolleson, and Avondale) in accordance with Section 402 of the CWA. The contractor would also comply with the State of Arizona Surface Water Quality Standard Rules (18 Arizona Administrative Code § 11).

The project would be located within designated MS4s. Therefore, the contractor, in association with the District, would send a copy of the certificate authorizing permit coverage and a copy of the Notice of Termination acknowledgement letter to the ADOT Office of Environmental Services Water Quality Group, Glendale, Phoenix, Chandler, Goodyear, Tolleson, and Avondale as appropriate based on the location of project activities.

The SWPPP would outline the use of site-specific BMPs for controlling construction-related pollution discharges to waters of the United States as defined in the CWA (ADOT 2005). BMPs set forth in the ADOT *Erosion and Pollution Control Manual for Highway Design and Construction* (2005) would be included in the SWPPP.

Construction sites associated with the proposed action would employ BMPs and pollutant control measures. Some of the expected pollution control measures to be included the SWPPP are:

- limiting removal of vegetation and soil disturbance to areas required for actual construction, access, and construction staging areas
- maintaining a 2:1 slope or less for cut-and-fill slopes unless engineering analysis were to demonstrate that steeper slopes could be used in the design and that erosion control measures are in place
- diverting runoff from areas disturbed by construction to temporary sedimentation basins to settle silt and sediments before discharging the runoff to surface water and storm runoff drainage facilities; diversion channels would be protected from erosion
- placing riprap or fill material near watercourses to protect against erosion storm flows during rains; to prevent materials from being washed away, excavated material would not be deposited or stored in or alongside watercourses
- diverting storm runoff from the freeway into the runoff control system to mitigate silt erosion; settling or detention basins would be designed as a part of the freeway project to enable silt to settle out before controlled discharge of the water from the detention basins
- installing percolation basins to receive water flowing from detention basins to facilitate restoration of lost aquifer recharge areas caused by the addition of impervious surfaces
- constructing drainage swales to divert surface water and minimize erosion

- sweeping and cleaning the roadway to reduce the first-flush concentration of pollutants at the completion of freeway construction
- seeding and mulching of newly exposed cut-and-fill slopes immediately after construction to minimize erosion and sediment transport

BMPs would reduce potential degradation of off-site water quality or watercourses during construction. A BMP common to all of the action alternatives would be used if organic filter barriers (compost-filled sock or properly installed and maintained silt fence) were needed to restrict and filter sediment from leaving the construction site and entering off-site channels. The contractor would be required to remove the trapped silt and debris to an off-site location before removing the barriers for maintenance, replacement, or upon completion of construction. Construction equipment would be inspected frequently for leaks and would be repaired immediately when leaks are discovered. Sediment basins would be constructed to capture and treat sediment-rich runoff before its discharge off site to drainage channels. All equipment would be fueled and serviced at designated and protected locations to minimize work site contamination. Good housekeeping BMPs associated with fueling would help prevent fuel releases associated with fueling operations. To facilitate containment in the event of a spill, fueling locations would be located away from nearby channels, swales, or other related features.

Implementation of BMPs associated with any of the action alternatives or options in the Study Area would reduce water quality impacts to Salt and Gila rivers. Both construction and operational impacts would be mitigated through the use of BMPs.

During construction, erosion and off-site transportation of sediment would be a major concern. Mitigation of erosion would be achieved by routing upslope runoff around the construction site. This would minimize exposure to disturbed slopes and collect and treat on-site runoff by discharging it so that the quality of the water entering the receiving water would not be impaired. During freeway operation, cut-and-fill slopes would be stabilized using vegetative and/or mechanical methods and roadway-derived runoff would be captured and retained to remove suspended solids prior to discharge.

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Appendix A

Registered Wells in Proposed Right-of-way

WELLS - W59

LOCATION	REGISTRYID	PROGRAM	UTM_X_METE	UTM_Y_METE	WELLTYPE	WELLSITEUS	WATERUSE1	WELL_DEPTH	WATER_LEVEL	CASING_TYP	CASING_DIA	LAST_NAME	COMPANY	ADDRESS1	CITY	STATE	ZIP
	626360	55	389527.2	3691238	EXEMPT	WATER PRODUCTION	STOCK	300	35	STEEL - PERFORATED OR SLOTTED CASIN	6	LASALVIA, JEROME,		RT 1 BOX 391	LAVEEN	AZ	85339
	618450	55	388842.1	3691344	EXEMPT	WATER PRODUCTION	DOMESTIC	0	0	STEEL - PERFORATED OR SLOTTED CASIN	6	SMITH,C D		7521 E JACKRABBIT	SCOTTSDALE	AZ	85253
	626357	55	389147.8	3692043	EXEMPT	WATER PRODUCTION	STOCK	300	35	STEEL - PERFORATED OR SLOTTED CASIN	6	LASALVIA, JEROME,		RT 1 BOX 391	LAVEEN	AZ	85339
	611333	55	389248.8	3692546	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	300	75	NO CASING CODE LISTED	6	FOREST, KLAUS		6104 W DOBBINS ROAD	LAVEEN	AZ	85339
	601559	55	389259.6	3693356	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	155	40	STEEL - PERFORATED OR SLOTTED CASIN	20	PAYE, JOHN	JOJO I LLC	12987 SQUIRREL CREEK RD	GRASS VALLEY	CA	95945
	601561	55	389259.6	3693356	EXEMPT	WATER PRODUCTION	DOMESTIC	811	50	STEEL - PERFORATED OR SLOTTED CASIN	8	ACCOMAZZO, HONOLI		8382 S 59TH AVENUE	LAVEEN	AZ	85339
	601562	55	389259.6	3693356	EXEMPT	WATER PRODUCTION	DOMESTIC	400	50	STEEL - PERFORATED OR SLOTTED CASIN	8	ACCOMAZZO, MARK,		RT 1 BOX 75	LAVEEN	AZ	85339
	903891	55	389171.1	3697674	EXEMPT		DOMESTIC	125	30	STEEL - PERFORATED OR SLOTTED CASIN	6		CITA DESIGN INC	6440 W. BROADWAY RD	PHOENIX	AZ	85042
	624228	55	389381.9	3698465	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	360	5	STEEL - PERFORATED OR SLOTTED CASIN	10		STATE OF ARIZONA/DEPT OF TRANSPORTATION	205 SOUTH 17TH AVENUE-MD612E,KARIN WALSH	PHOENIX	AZ	85007
	608386	55	389590	3698859	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	800	122	STEEL - PERFORATED OR SLOTTED CASIN	20	SALT RIVER PROJECT		PO BOX 1980	PHOENIX	AZ	85001
	701901	55	389590	3698859	EXEMPT	DESTROYED	NONE	0	0		0	SALT RIVER PROJECT		PO BOX 1980	PHOENIX	AZ	85001
	619769	55	389594.4	3699262	EXEMPT	WATER PRODUCTION	DOMESTIC	0	0	NO CASING CODE LISTED	0	NATURAL RESOURCE	CORP PRES BISHOP LDS CHURCH	50 EAST NORTH TEMPLE STREET, FL 12	SALT LAKE CITY	UT	84150
	620373	55	389596.6	3699463	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	240	0	STEEL - PERFORATED OR SLOTTED CASIN	6	BRECKENRIDGE,R V		7316 W SOUTHERN	LAVEEN	AZ	85339
	619745	55	389605.3	3700267	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	0	0	STEEL - PERFORATED OR SLOTTED CASIN	20	REAL ESTATE SERVIC	PROPERTY RESERVE ARIZONA, L.L.C.	50 E NORTH TEMPLE ST RM 1205	SALT LAKE CITY	UT	84150
	541683	55	389609.2	3700468	MONITOR	ABANDONED	NONE	81	65	PLASTIC OR PVC	4		CALZONA TANKWAYS INC	P O BOX 41719	MESA	AZ	85274
	542104	55	389609.2	3700468	MONITOR	ABANDONED	NONE	82	60	PLASTIC OR PVC	4		CALZONA TANKWAYS INC	P O BOX 41719	MESA	AZ	85274
	542105	55	389609.2	3700468	MONITOR	ABANDONED	NONE	82	60	PLASTIC OR PVC	4		CALZONA TANKWAYS INC	P O BOX 41719	MESA	AZ	85274
	571780	55	389609.2	3700468	MONITOR	ABANDONED	NONE	106	84	PLASTIC OR PVC	4		CALZONA TANK WAYS, INC.	PO BOX 41719	MESA	AZ	85274
	539368	55	389613.6	3700869	MONITOR OR PIEZOMETER	MONITOR	MONITORING	435	70	STEEL - PERFORATED OR SLOTTED CASIN	0	DOLPHIN, INC,		PO BOX 6514	PHOENIX	AZ	85005
	543946	55	389613.6	3700869	MONITOR OR PIEZOMETER	MONITOR	MONITORING	460	78	STEEL - PERFORATED OR SLOTTED CASIN	4	DOLPHIN INC,		PO BOX 6514	PHOENIX	AZ	85005
	568937	55	389613.6	3700869	MONITOR	MONITOR	MONITORING	95	93	PLASTIC OR PVC	4		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	568938	55	389613.6	3700869	MONITOR	MONITOR	MONITORING	95	93	PLASTIC OR PVC	4		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	568939	55	389613.6	3700869	MONITOR	MONITOR	MONITORING	95	93	PLASTIC OR PVC	4		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	568941	55	389613.6	3700869	MONITOR	MONITOR	MONITORING	130	93	PLASTIC OR PVC	2		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	568942	55	389613.6	3700869	MONITOR	MONITOR	MONITORING	130	93	PLASTIC OR PVC	2		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	568943	55	389613.6	3700869	MONITOR	MONITOR	MONITORING	130	93	PLASTIC OR PVC	2		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	568946	55	389613.6	3700869	MONITOR	MONITOR	MONITORING	95	93	PLASTIC OR PVC	1		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	568947	55	389613.6	3700869	MONITOR	MONITOR	MONITORING	95	93	PLASTIC OR PVC	1		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	568948	55	389613.6	3700869	MONITOR	ABANDONED	MONITORING	95	93	PLASTIC OR PVC	1		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	573135	55	389613.6	3700869	MONITOR	MONITOR	TEST	0	0		0		DOLPHIN INC	740 SOUTH 59TH AVE	PHOENIX	AZ	85043
	573136	55	389613.6	3700869	MONITOR	MONITOR	TEST	0	0		0		DOLPHIN INC	740 SOUTH 59TH AVE	PHOENIX	AZ	85043
	573137	55	389613.6	3700869	MONITOR	MONITOR	TEST	0	0		0		DOLPHIN INC	740 SOUTH 59TH AVE	PHOENIX	AZ	85043
	573138	55	389613.6	3700869	MONITOR	MONITOR	TEST	0	0		0		DOLPHIN INC	740 SOUTH 59TH AVE	PHOENIX	AZ	85043
	573139	55	389613.6	3700869	MONITOR	MONITOR	TEST	0	0		0		DOLPHIN INC	740 SOUTH 59TH AVE	PHOENIX	AZ	85043
	580425	55	389613.6	3700869	MONITOR	MONITOR	TEST	135	94	PLASTIC OR PVC	4		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	580432	55	389613.6	3700869	MONITOR	MONITOR	TEST	0	0		0		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	580434	55	389613.6	3700869	GEOTECHNICAL	GEOTECHNICAL	NONE	0	0		0		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	543945	55	389615.8	3701070	MONITOR OR PIEZOMETER	MONITOR	MONITORING	450	79	STEEL - PERFORATED OR SLOTTED CASIN	4	DOLPHIN INC,		PO BOX 6514	PHOENIX	AZ	85005
	568945	55	389615.8	3701070	MONITOR	MONITOR	MONITORING	95	93	PLASTIC OR PVC	1		DOLPHIN INC	P O BOX 6514	PHOENIX	AZ	85005
	626588	55	389615.8	3701070	NON-EXEMPT	CAPPED	MUNICIPAL	565	145	STEEL - PERFORATED OR SLOTTED CASIN	14		CITY OF PHOENIX	200 W WASHINGTON ST	PHOENIX	AZ	85003
	702210	55	389615.8	3701070	EXEMPT	DESTROYED	NONE	263	0		0		CITY OF PHOENIX	125 E WASHINGTON ST	PHOENIX	AZ	85004
	540982	55	389822	3701667	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	SALT RIVER PROJECT		PO BOX 52025	PHOENIX	AZ	85072
	607204	55	389824	3701867	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	414	97	STEEL - PERFORATED OR SLOTTED CASIN	24	ROOSEVELT IRR DIST		PO BOX 95	BUCKEYE	AZ	85326
	701927	55	389833.5	3702470	EXEMPT	WATER PRODUCTION	NONE	0	0		0	MARLAR, JF		RT 4	PHOENIX	AZ	85031
	481544	55	389836.3	3702671	EXEMPT	ABANDONED	DOMESTIC	0	0		0		H WALKER HARRISON TRUST	PO BOX 2797	GLOBE	AZ	85502
	481545	55	389836.3	3702671	EXEMPT	ABANDONED	DOMESTIC	0	0		0		H WALKER HARRISON TRUST	PO BOX 2797	GLOBE	AZ	85502
	537922	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	CIRCLE K CORP,		4343 E CAMELBCK 216	PHOENIX	AZ	85018
	537923	55	389842.1	3703073	MONITOR OR PIEZOMETER	ABANDONED	MONITORING	120	89	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	537924	55	389842.1	3703073	MONITOR OR PIEZOMETER	ABANDONED	MONITORING	120	89	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	537925	55	389842.1	3703073	MONITOR OR PIEZOMETER	ABANDONED	MONITORING	120	89	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	537926	55	389842.1	3703073	MONITOR	MONITOR	MONITORING	130	90	PLASTIC OR PVC	4		CIRCLE K COMPANY	3550 NORTH CENTRAL AVENUE	PHOENIX	AZ	85012
	537927	55	389842.1	3703073	MONITOR OR PIEZOMETER	ABANDONED	MONITORING	120	90	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	537928	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	CIRCLE K CORP,		4343 E CAMELBCK 216	PHOENIX	AZ	85018
	537929	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	CIRCLE K CORP,		4343 E CAMELBCK 216	PHOENIX	AZ	85018
	537930	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	CIRCLE K CORP,		4343 E CAMELBCK 216	PHOENIX	AZ	85018
	537931	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	CIRCLE K CORP,		4343 E CAMELBCK 216	PHOENIX	AZ	85018
	537932	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	CIRCLE K CORP,		4343 E CAMELBCK 216	PHOENIX	AZ	85018
	545455	55	389842.1	3703073	MONITOR OR PIEZOMETER	ABANDONED	MONITORING	110	91	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	545456	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	112	88	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	545457	55	389842.1	3703073	MONITOR OR PIEZOMETER	ABANDONED	MONITORING	111	86	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	545458	55	389842.1	3703073	MONITOR OR PIEZOMETER	ABANDONED	MONITORING	112	91	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	545459	55	389842.1	3703073	MONITOR OR PIEZOMETER	ABANDONED	MONITORING	112	90	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	545460	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	CIRCLE K CORP,		3003 N CENTRAL #1800	PHOENIX	AZ	85012
	545461	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	CIRCLE K CORP,		3003 N CENTRAL #1800	PHOENIX	AZ	85012
	551476	55	389842.1	3703073	MONITOR	ABANDONED	MONITORING	110	97	PLASTIC OR PVC	1		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	551477	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	CIRCLE K STORE 1992		3003 N CENTRAL AVE	PHOENIX	AZ	85012
	551478	55	389842.1	3703073	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0	CIRCLE K STORE 1992		3003 N CENTRAL AVE	PHOENIX	AZ	85012
	561932	55	389842.1	3703073	MONITOR	ABANDONED	MONITORING	120	90	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	561933	55	389842.1	3703073	MONITOR	ABANDONED	MONITORING	120	90	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	561934	55	389842.1	3703073	MONITOR	ABANDONED	MONITORING	120	90	PLASTIC OR PVC	4		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	561935	55	389842.1	3703073	MONITOR OR PIEZOMETER	ABANDONED	MONITORING	120	90	PLASTIC OR PVC	4		ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY	1110 W WASHINGTON ST 4415B-1	PHOENIX	AZ	85007
	565562	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565563	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565564	55	389842.1	3703073	MONITOR			0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565565	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565566	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565567	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565568	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565569	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565570	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281

LOCATION	REGISTRYID	PROGRAM	UTM_X_METE	UTM_Y_METE	WELLTYPE	WELLSITEUS	WATERUSE1	WELL_DEPTH	WATER_LEVEL	CASING_TYP	CASING_DIA	LAST_NAME	COMPANY	ADDRESS1	CITY	STATE	ZIP
	565571	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565572	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565573	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565574	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565575	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565576	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565577	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565578	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565579	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565580	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	565581	55	389842.1	3703073	MONITOR	MONITOR	TEST	0	0		0		CONOCO PHILLIPS COMPANY	1230 WEST WASHINGTON	TEMPE	AZ	85281
	572870	55	389842.1	3703073	MONITOR	MONITOR	TEST	130	108	PLASTIC OR PVC	6		CONOCO PHILLIPS COMPANY	1230 W WASHINGTON ST, SUITE 212	TEMPE	AZ	85281
	702264	55	389842.1	3703073	MONITOR	MONITOR	MONITORING	130	0		0		CIRCLE K COMPANY	PO BOX 52085	PHOENIX	AZ	85043

WELLS - W71

LOCATION	REGISTRYID	PROGRAM	UTM_X_METE	UTM_Y_METE	WELLTYPE	WELLSITEUS	WATERUSE1	WELL_DEPTH	WATER_LEVEL	CASING_TYP	CASING_DIA	LAST_NAME	COMPANY	ADDRESS1	CITY	STATE	ZIP
	542210	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	26	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542211	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542212	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542213	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	40	30	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542214	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	5		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542215	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	619405	55	387042.4	3695076	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	310	28	STEEL - PERFORATED OR SLOTTED CASING	8		HERSETH FEEDLOTS INC	C/0 KATHRYN K HERSETH	LITCHFIELD PARK	AZ	85340
	587579	55	387042.2	3695277	EXEMPT			0	0		0	NORTON, KITTY		5225 S 43RD AVE	PHOENIX	AZ	85041
	591238	55	387042.2	3695277	EXEMPT	WATER PRODUCTION	DOMESTIC	140	60	STEEL - PERFORATED OR SLOTTED CASING	8	NORTON, KITTY		5225 S 43RD AVE	PHOENIX	AZ	85041
	636009	55	387042.2	3695277	NON-EXEMPT	WATER PRODUCTION	STOCK	330	30	STEEL - PERFORATED OR SLOTTED CASING	8		HERSETH FEEDLOTS INC	RT 1 BOX 234	LAVEEN	AZ	85339
	636010	55	387042.2	3695277	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	160	24	STEEL - PERFORATED OR SLOTTED CASING	8		HERSETH FEEDLOTS INC	RT 1 BOX 234 B	LAVEEN	AZ	85339
	636011	55	387042.2	3695277	NON-EXEMPT	WATER PRODUCTION	STOCK	300	24	STEEL - PERFORATED OR SLOTTED CASING	8		HERSETH FEEDLOTS INC	RT 1 BOX 234 B	LAVEEN	AZ	85339
	605873	55	386834.5	3695495	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	0	0	NO CASING CODE LISTED	0	SCHLOSSER, RONALD		RT 1 BOX 79N	LAVEEN	AZ	85339
	596129	55	387020.0	3695723	MINERAL EXPLORATION	MINERAL EXPLORATION	MINERAL EXPLORE	80	31	NO CASING CODE LISTED	10		CEMEX	426 North 44th Street	PHOENIX	AZ	85008
	633516	55	386902.6	3695845	EXEMPT	WATER PRODUCTION	DOMESTIC	95	21	STEEL - PERFORATED OR SLOTTED CASING	4	RUTHLEDGE, J D		RT 1 BOX 262	LAVEEN	AZ	85339
	636303	55	387048.1	3696993	EXEMPT			182	85	STEEL - PERFORATED OR SLOTTED CASING	6	CARTER, J R		RT 5 BOX 1199	PHOENIX	AZ	85009
	635541	55	386681.5	3699034	EXEMPT	WATER PRODUCTION	DOMESTIC	350	60	STEEL - PERFORATED OR SLOTTED CASING	8	DUNCAN,C L		RT 5 BOX 1141 C	PHOENIX	AZ	85009
	803675	55	386681.5	3699034	EXEMPT	WATER PRODUCTION	DOMESTIC	0	0	STEEL - PERFORATED OR SLOTTED CASING	0	LANDRUM, J		RT 5 BOX 1141	PHOENIX	AZ	85009
	400041	55	387208.2	3700315	EXEMPT	ABANDONED	DOMESTIC	80	0	STEEL - PERFORATED OR SLOTTED CASING	6		TREND HOMES OF ARIZONA	1201 S ALMA SCHOOL RD SUITE 3700	MESA	AZ	85210
	607226	55	387419.8	3701110	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	600	86	STEEL - PERFORATED OR SLOTTED CASING	20		ROOSEVELT IRR DIST	PO BOX 95	BUCKEYE	AZ	85326
	208867	55	387435.8	3701907	MONITOR	MONITOR	MONITORING	0	0		0		TARGET CORP	1000 NICOLLET MALL TPN-10E	MINNEAPOLIS	MN	55403
	208868	55	387435.8	3701907	MONITOR	MONITOR	MONITORING	0	0		0		TARGET CORP	1000 NICOLLET MALL TPN-10E	MINNEAPOLIS	MN	55403
	208869	55	387435.8	3701907	EXEMPT	MONITOR	MONITORING	0	0		0		TARGET CORP	1000 NICOLLET MALL TPN-10E	MINNEAPOLIS	MN	55403
	208870	55	387435.8	3701907	MONITOR	MONITOR	MONITORING	0	0		0		TARGET CORP	1000 NICOLLET MALL TPN-10E	MINNEAPOLIS	MN	55403
	208871	55	387435.8	3701907	MONITOR	MONITOR	MONITORING	0	0		0		TARGET CORP	1000 NICOLLET MALL TPN-10E	MINNEAPOLIS	MN	55403
	209856	55	387251.9	3702696	GEOTECHNICAL	GEOTECHNICAL	TEST	150	150		0		SCHWINS FOOD CO	115 W COLLEGE DR	MARSHALL	MN	56258
	589635	55	387251.9	3702696	MONITOR	MONITOR	TEST	140	115	PLASTIC OR PVC	4		ADEQ	1110 W WASHINGTON ST	PHOENIX	AZ	85007
	589644	55	387251.9	3702696	MONITOR	MONITOR	TEST	380	121	PLASTIC OR PVC	5		ADEQ	1110 W WASHINGTON ST	PHOENIX	AZ	85007

WELLS - W101WPR

LOCATION	REGISTRYID	PROGRAM	UTM_X_METE	UTM_Y_METE	WELLTYPE	WELLSITEUS	WATERUSE1	WELL_DEPTH	WATER_LEVEL	CASING_TYP	CASING_DIA	LAST_NAME	COMPANY	ADDRESS1	CITY	STATE	ZIP
	542210	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	26	PLASTIC OR PVC	35		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542211	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	35		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542212	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542213	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	40	30	PLASTIC OR PVC	40		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542214	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	35		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542215	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	580078	55	386436.2	3694077	WITHDRAWAL PERMIT	WATER PRODUCTION	TEST	83	25	STEEL - PERFORATED OR SLOTTED CASING	80		CITY OF PHOENIX	200 W WASHINGTON ST, 14TH FLOOR	PHOENIX	AZ	85003
	584728	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	74		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584729	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	74		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584730	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	75	27	PLASTIC OR PVC	75		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584731	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	80	27	PLASTIC OR PVC	80		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	087542	55	386039.7	3694689	EXEMPT	WATER PRODUCTION	DOMESTIC	390	60	STEEL - PERFORATED OR SLOTTED CASING	390		RUTH WOOTEN KENNELS	RT 1 BOX 76D	TOLLESON	AZ	85353
	584334	55	386041.7	3694890	EXEMPT	WATER PRODUCTION	DOMESTIC	160	40	STEEL - PERFORATED OR SLOTTED CASING	160	ASKREN, LYLE		3650 W PECAN	PHOENIX	AZ	85041
	583205	55	385841.2	3694894	EXEMPT	WATER PRODUCTION	DOMESTIC	160	50	STEEL - PERFORATED OR SLOTTED CASING	160	SERRATO, JOSE		2922 W LATHAM	PHOENIX	AZ	85009
	514691	55	385843.3	3695096	DOMESTIC STOCK EXEMPT	WATER PRODUCTION	DOMESTIC	360	30	STEEL - PERFORATED OR SLOTTED CASING	270	BURKS, EUGENE S		RT 1 BOX 216	LAVEEN	AZ	85339
	200418	55	384238.7	3696839	WITHDRAWAL PERMIT	WATER PRODUCTION	DEWATERING	130	0	PLASTIC OR PVC	130		PCL CONSTRUCTION INC	1711 W GREENTREE DR #201	TEMPE	AZ	85284
	574575	55	382992.3	3696956	EXEMPT	WATER PRODUCTION	DOMESTIC	425	61	STEEL - PERFORATED OR SLOTTED CASING	413		GERBEN BOSCHMA DAIRY	8921 W BROADWAY	TOLLESON	AZ	85353
	617512	55	381986.9	3697979	NON-EXEMPT	ABANDONED	STOCK	310	0	OTHER - BLACK STEEL - IRON - SEAMLESS	298	MICHAEL KERN	COUNTRY PLACE LLC	7720 N 16TH STREET, SUITE 310	PHOENIX	AZ	85020
	201045	55	382033.5	3701221	MONITOR	MONITOR	TEST	80	58	PLASTIC OR PVC	80		UNION OIL CO OF CALIFORNIA	276 TANK FARM RD	SAN LUIS OBISPO	CA	93406
	545237	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545238	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545239	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545632	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	80		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545633	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	80		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545634	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	80		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545635	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	80		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545636	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	80		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545637	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	80		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	588429	55	382033.5	3701221	MONITOR	MONITOR	TEST	75	55	PLASTIC OR PVC	75		UNOCAL CORP RRMC 775040	3915 MISSION AVE #7416	OCEANSIDE	CA	92054
	588430	55	382033.5	3701221	MONITOR	MONITOR	TEST	75	55	PLASTIC OR PVC	75		UNOCAL CORP RRMC 775040	3915 MISSION AVE #7416	OCEANSIDE	CA	92054
	588431	55	382033.5	3701221	MONITOR	MONITOR	TEST	75	55	PLASTIC OR PVC	75		UNOCAL CORP RRMC 775040	3915 MISSION AVE #7416	OCEANSIDE	CA	92054
	588432	55	382033.5	3701221	MONITOR	MONITOR	TEST	75	55	PLASTIC OR PVC	75		UNOCAL CORP RRMC 775040	3915 MISSION AVE #7416	OCEANSIDE	CA	92054
	596977	55	382033.5	3701221	MONITOR	MONITOR	MONITORING	110	59	PLASTIC OR PVC	110		UNOCAL CORPORATION	276 TANK FARM RD	SAN LUIS OBISPO	CA	93406
	596978	55	382033.5	3701221	MONITOR	MONITOR	MONITORING	110	59	PLASTIC OR PVC	110		UNOCAL CORPORATION	276 TANK FARM RD	SAN LUIS OBISPO	CA	93406
	596979	55	382033.5	3701221	MONITOR	MONITOR	MONITORING	110	59	PLASTIC OR PVC	110		UNOCAL CORPORATION	276 TANK FARM RD	SAN LUIS OBISPO	CA	93406
	503822	55	382236.1	3701422	EXPLORATION	OBSERVATION	MONITORING	620	92	STEEL - PERFORATED OR SLOTTED CASING	564		TOLLESON, CITY OF	9555 W VAN BUREN	TOLLESON	AZ	85353
	548486	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	75		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	548487	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	75		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	548488	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	74		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550131	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	48		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550132	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	75		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550133	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	75		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	907934	55	382436.4	3701421	MONITOR		MONITORING	100	80	STEEL - PERFORATED OR SLOTTED CASING	100		TOLLESON UNION HSD	9419 W VAN BUREN ST	TOLLESON	AZ	85353
	482172	55	382040.1	3702029	EXEMPT	ABANDONED	DOMESTIC	0	0		0		SURE-LOCK IV LLC	8909 E HARRY ST	WICHITA	KS	67207
	605370	55	382040.1	3702029	EXEMPT	WATER PRODUCTION	DOMESTIC	0	0	STEEL - PERFORATED OR SLOTTED CASING	0	COWDEN, E R		PO BOX 1550	PHOENIX	AZ	85001

WELLS - W101WFR

LOCATION	REGISTRYID	PROGRAM	UTM_X_METE	UTM_Y_METE	WELLTYPE	WELLSITEUS	WATERUSE1	WELL_DEPTH	WATER_LEVEL	CASING_TYP	CASING_DIA	LAST_NAME	COMPANY	ADDRESS1	CITY	STATE	ZIP
	542210	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	26	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542211	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542212	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542213	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	40	30	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542214	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	5		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542215	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	580078	55	386436.2	3694077	WITHDRAWAL PERMIT	WATER PRODUCTION	TEST	83	25	STEEL - PERFORATED OR SLOTTED CASING	12		CITY OF PHOENIX	200 W WASHINGTON ST, 14TH FLOOR	PHOENIX	AZ	85003
	584728	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584729	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584730	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	75	27	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584731	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	80	27	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	087542	55	386039.7	3694689	EXEMPT	WATER PRODUCTION	DOMESTIC	390	60	STEEL - PERFORATED OR SLOTTED CASING	8		RUTH WOOTEN KENNELS	RT 1 BOX 76D	TOLLESON	AZ	85353
	584334	55	386041.7	3694890	EXEMPT	WATER PRODUCTION	DOMESTIC	160	40	STEEL - PERFORATED OR SLOTTED CASING	6	ASKREN, LYLE		3650 W PECAN	PHOENIX	AZ	85041
	583205	55	385841.2	3694894	EXEMPT	WATER PRODUCTION	DOMESTIC	160	50	STEEL - PERFORATED OR SLOTTED CASING	6	SERRATO, JOSE		2922 W LATHAM	PHOENIX	AZ	85009
	514691	55	385843.3	3695096	DOMESTIC STOCK EXEMPT	WATER PRODUCTION	DOMESTIC	360	30	STEEL - PERFORATED OR SLOTTED CASING	6	BURKS, EUGENE S		RT 1 BOX 216	LAVEEN	AZ	85339
	200418	55	384238.7	3696839	WITHDRAWAL PERMIT	WATER PRODUCTION	DEWATERING	130	0	PLASTIC OR PVC	14		PCL CONSTRUCTION INC	1711 W GREENTREE DR #201	TEMPE	AZ	85284
	574575	55	382992.3	3696956	EXEMPT	WATER PRODUCTION	DOMESTIC	425	61	STEEL - PERFORATED OR SLOTTED CASING	6		GERBEN BOSCHMA DAIRY	8921 W BROADWAY	TOLLESON	AZ	85353
	617512	55	381986.9	3697979	NON-EXEMPT	ABANDONED	STOCK	310	0	OTHER - BLACK STEEL - IRON - SEAMLESS	8	KERN, MICHAEL	COUNTRY PLACE LLC	7720 N 16TH STREET, SUITE 310	PHOENIX	AZ	85020
	201045	55	382033.5	3701221	MONITOR	MONITOR	TEST	80	58	PLASTIC OR PVC	10		UNION OIL CO OF CALIFORNIA	276 TANK FARM RD	SAN LUIS OBISPO	CA	93406
	545237	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545238	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545239	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545632	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	4		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545633	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	4		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545634	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	4		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545635	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	4		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545636	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	4		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	545637	55	382033.5	3701221	MONITOR OR PIEZOMETER	MONITOR	MONITORING	80	47	PLASTIC OR PVC	4		PUREGRO CO	376 S VALENCIA AVE	BREA	CA	92621
	588429	55	382033.5	3701221	MONITOR	MONITOR	TEST	75	55	PLASTIC OR PVC	2		UNOCAL CORP RRMC 775040	3915 MISSION AVE #7416	OCEANSIDE	CA	92054
	588430	55	382033.5	3701221	MONITOR	MONITOR	TEST	75	55	PLASTIC OR PVC	2		UNOCAL CORP RRMC 775040	3915 MISSION AVE #7416	OCEANSIDE	CA	92054
	588431	55	382033.5	3701221	MONITOR	MONITOR	TEST	75	55	PLASTIC OR PVC	2		UNOCAL CORP RRMC 775040	3915 MISSION AVE #7416	OCEANSIDE	CA	92054
	588432	55	382033.5	3701221	MONITOR	MONITOR	TEST	75	55	PLASTIC OR PVC	2		UNOCAL CORP RRMC 775040	3915 MISSION AVE #7416	OCEANSIDE	CA	92054
	596977	55	382033.5	3701221	MONITOR	MONITOR	MONITORING	110	59	PLASTIC OR PVC	5		UNOCAL CORPORATION	276 TANK FARM RD	SAN LUIS OBISPO	CA	93406
	596978	55	382033.5	3701221	MONITOR	MONITOR	MONITORING	110	59	PLASTIC OR PVC	5		UNOCAL CORPORATION	276 TANK FARM RD	SAN LUIS OBISPO	CA	93406
	596979	55	382033.5	3701221	MONITOR	MONITOR	MONITORING	110	59	PLASTIC OR PVC	5		UNOCAL CORPORATION	276 TANK FARM RD	SAN LUIS OBISPO	CA	93406
	503822	55	382236.1	3701422	EXPLORATION	OBSERVATION	MONITORING	620	92	STEEL - PERFORATED OR SLOTTED CASING	10		TOLLESON, CITY OF	9555 W VAN BUREN	TOLLESON	AZ	85353
	548486	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	548487	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	548488	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550131	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550132	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550133	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	907934	55	382436.4	3701421	MONITOR		MONITORING	100	80	STEEL - PERFORATED OR SLOTTED CASING	0		TOLLESON UNION HSD	9419 W VAN BUREN ST	TOLLESON	AZ	85353
	607234	55	381844.0	3703638	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	1725	113	STEEL - PERFORATED OR SLOTTED CASING	20		ROOSEVELT IRR DIST	PO BOX 95	BUCKEYE	AZ	85326
	617701	55	381844.0	3703638	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	483	0	STEEL - PERFORATED OR SLOTTED CASING	18		SALT RIVER PROJECT	PO BOX 1980	PHOENIX	AZ	85001

WELLS - W101CPR

LOCATION	REGISTRYID	PROGRAM	UTM_X_METE	UTM_Y_METE	WELLTYPE	WELLSITEUS	WATERUSE1	WELL_DEPTH	WATER_LEVEL	CASING_TYP	CASING_DIA	LAST_NAME	COMPANY	ADDRESS1	CITY	STATE	ZIP
	542210	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	26	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542211	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542212	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542213	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	40	30	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542214	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	5		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542215	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	580078	55	386436.2	3694077	WITHDRAWAL PERMIT	WATER PRODUCTION	TEST	83	25	STEEL - PERFORATED OR SLOTTED CASING	12		CITY OF PHOENIX	200 W WASHINGTON ST, 14TH FLOOR	PHOENIX	AZ	85003
	584728	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584729	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584730	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	75	27	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584731	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	80	27	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	087542	55	386039.7	3694689	EXEMPT	WATER PRODUCTION	DOMESTIC	390	60	STEEL - PERFORATED OR SLOTTED CASING	8		RUTH WOOTEN KENNELS	RT 1 BOX 76D	TOLLESON	AZ	85353
	584334	55	386041.7	3694890	EXEMPT	WATER PRODUCTION	DOMESTIC	160	40	STEEL - PERFORATED OR SLOTTED CASING	6	ASKREN, LYLE		3650 W PECAN	PHOENIX	AZ	85041
	583205	55	385841.2	3694894	EXEMPT	WATER PRODUCTION	DOMESTIC	160	50	STEEL - PERFORATED OR SLOTTED CASING	6	SERRATO, JOSE		2922 W LATHAM	PHOENIX	AZ	85009
	514691	55	385843.3	3695096	DOMESTIC STOCK EXEMPT	WATER PRODUCTION	DOMESTIC	360	30	STEEL - PERFORATED OR SLOTTED CASING	6	BURKS, EUGENE S		RT 1 BOX 216	LAVEEN	AZ	85339
	516700	55	384188.8	3697264	DOMESTIC STOCK EXEMPT	WATER PRODUCTION	DOMESTIC	417	34	STEEL - PERFORATED OR SLOTTED CASING	8	VAN HOFWEGEN, ROBERT		8634 W BROADWAY	TOLLESON	AZ	85353
	516699	55	384389.0	3697289	DOMESTIC STOCK EXEMPT	WATER PRODUCTION	DOMESTIC	0	0	NO CASING CODE LISTED	0	VAN HOFWEGEN, ROBERT		8550 W BROADWAY	TOLLESON	AZ	85353
	524960	55	384389.0	3697289	NON-SERVICE	WATER PRODUCTION	DOMESTIC	455	43	STEEL - PERFORATED OR SLOTTED CASING	8	VAN HOFWEGEN, ROBERT		8550 W BROADWAY	TOLLESON	AZ	85353
	804665	55	383956.2	3698654	NON-EXEMPT	ABANDONED	IRRIGATION	285	70	STEEL - PERFORATED OR SLOTTED CASING	16		STANDARD PACIFIC INC	6710 N SCOTTSDALE RD SUITE 150	SCOTTSDALE	AZ	85253
	503822	55	382236.1	3701422	EXPLORATION	OBSERVATION	MONITORING	620	92	STEEL - PERFORATED OR SLOTTED CASING	10		TOLLESON, CITY OF	9555 W VAN BUREN	TOLLESON	AZ	85353
	548486	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	548487	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	548488	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550131	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550132	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550133	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	907934	55	382436.4	3701421	MONITOR		MONITORING	100	80	STEEL - PERFORATED OR SLOTTED CASING	0		TOLLESON UNION HSD SCHOOL DISTRICT	9419 W VAN BUREN ST	TOLLESON	AZ	85353
	482172	55	382040.1	3702029	EXEMPT	ABANDONED	DOMESTIC	0	0		0		SURE-LOCK IV LLC	8909 E HARRY ST	WICHITA	KS	67207
	605370	55	382040.1	3702029	EXEMPT	WATER PRODUCTION	DOMESTIC	0	0	STEEL - PERFORATED OR SLOTTED CASING	8	COWDEN,E R		PO BOX 1550	PHOENIX	AZ	85001

WELLS - W101CFR

LOCATION	REGISTRYID	PROGRAM	UTM_X_METE	UTM_Y_METE	WELLTYPE	WELLSITEUS	WATERUSE1	WELL_DEPTH	WATER_LEVEL	CASING_TYP	CASING_DIA	LAST_NAME	COMPANY	ADDRESS1	CITY	STATE	ZIP
	542210	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	26	PLASTIC OR PVC	2		WESTERN FARM CREDIT,	PO BOX 24138	TEMPE	AZ	85285
	542211	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	2		WESTERN FARM CREDIT,	PO BOX 24138	TEMPE	AZ	85285
	542212	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT,	PO BOX 24138	TEMPE	AZ	85285
	542213	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	40	30	PLASTIC OR PVC	2		WESTERN FARM CREDIT,	PO BOX 24138	TEMPE	AZ	85285
	542214	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	5		WESTERN FARM CREDIT,	PO BOX 24138	TEMPE	AZ	85285
	542215	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT,	PO BOX 24138	TEMPE	AZ	85285
	580078	55	386436.2	3694077	WITHDRAWAL PERMIT	WATER PRODUCTION	TEST	83	25	STEEL - PERFORATED OR SLOTTED CASING	12		CITY OF PHOENIX	200 W WASHINGTON ST, 14TH FLOOR	PHOENIX	AZ	85003
	584728	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584729	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584730	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	75	27	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584731	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	80	27	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	087542	55	386039.7	3694689	EXEMPT	WATER PRODUCTION	DOMESTIC	390	60	STEEL - PERFORATED OR SLOTTED CASING	8		RUTH WOOTEN KENNELS	RT 1 BOX 76D	TOLLESON	AZ	85353
	584334	55	386041.7	3694890	EXEMPT	WATER PRODUCTION	DOMESTIC	160	40	STEEL - PERFORATED OR SLOTTED CASING	6	ASKREN, LYLE		3650 W PECAN	PHOENIX	AZ	85041
	583205	55	385841.2	3694894	EXEMPT	WATER PRODUCTION	DOMESTIC	160	50	STEEL - PERFORATED OR SLOTTED CASING	6	SERRATO, JOSE		2922 W LATHAM	PHOENIX	AZ	85009
	514691	55	385843.3	3695096	DOMESTIC STOCK EXEMPT	WATER PRODUCTION	DOMESTIC	360	30	STEEL - PERFORATED OR SLOTTED CASING	6	BURKS, EUGENE S		RT 1 BOX 216	LAVEEN	AZ	85339
	516700	55	384188.8	3697264	DOMESTIC STOCK EXEMPT	WATER PRODUCTION	DOMESTIC	417	34	STEEL - PERFORATED OR SLOTTED CASING	8	VAN HOFWEGEN, ROBERT		8634 W BROADWAY	TOLLESON	AZ	85353
	516699	55	384389.0	3697289	DOMESTIC STOCK EXEMPT	WATER PRODUCTION	DOMESTIC	0	0	NO CASING CODE LISTED	0	VAN HOFWEGEN, ROBERT		8550 W BROADWAY	TOLLESON	AZ	85353
	524960	55	384389.0	3697289	NON-SERVICE	WATER PRODUCTION	DOMESTIC	455	43	STEEL - PERFORATED OR SLOTTED CASING	8	VAN HOFWEGEN, ROBERT		8550 W BROADWAY	TOLLESON	AZ	85353
	804665	55	383956.2	3698654	NON-EXEMPT	ABANDONED	IRRIGATION	285	70	STEEL - PERFORATED OR SLOTTED CASING	16		STANDARD PACIFIC INC	6710 N SCOTTSDALE RD SUITE 150	SCOTTSDALE	AZ	85253
	503822	55	382236.1	3701422	EXPLORATION	OBSERVATION	MONITORING	620	92	STEEL - PERFORATED OR SLOTTED CASING	10		TOLLESON, CITY OF,	9555 W VAN BUREN	TOLLESON	AZ	85353
	548486	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	548487	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	548488	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550131	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550132	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550133	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	907934	55	382436.4	3701421	MONITOR		MONITORING	100	80	STEEL - PERFORATED OR SLOTTED CASING	0		TOLLESON UNION HIGH SCHOOL DISTRICT	9419 W VAN BUREN ST	TOLLESON	AZ	85353
	607234	55	381844.0	3703638	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	1725	113	STEEL - PERFORATED OR SLOTTED CASING	20		ROOSEVELT IRR DIST	PO BOX 95	BUCKEYE	AZ	85326
	617701	55	381844.0	3703638	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	483	0	STEEL - PERFORATED OR SLOTTED CASING	18		SALT RIVER PROJECT	PO BOX 1980	PHOENIX	AZ	85001

WELLS - W101EPR

LOCATION	REGISTRYID	PROGRAM	UTM_X_METE	UTM_Y_METE	WELLTYPE	WELLSITEUS	WATERUSE1	WELL_DEPTH	WATER_LEVEL	CASING_TYP	CASING_DIA	LAST_NAME	COMPANY	ADDRESS1	CITY	STATE	ZIP
	542210	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	26	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	AZ	TEMPE	85285
	542211	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	AZ	TEMPE	85285
	542212	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	AZ	TEMPE	85285
	542213	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	40	30	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	AZ	TEMPE	85285
	542214	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	5		WESTERN FARM CREDIT	PO BOX 24138	AZ	TEMPE	85285
	542215	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	AZ	TEMPE	85285
	580078	55	386436.2	3694077	WITHDRAWAL PERMIT	WATER PRODUCTION	TEST	83	25	STEEL - PERFORATED OR SLOTTED CASING	12		CITY OF PHOENIX	200 W WASHINGTON ST, 14TH FLOOR	AZ	PHOENIX	85003
	584728	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	AZ	TEMPE	85284
	584729	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	AZ	TEMPE	85284
	584730	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	75	27	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	AZ	TEMPE	85284
	584731	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	80	27	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	AZ	TEMPE	85284
	087542	55	386039.7	3694689	EXEMPT	WATER PRODUCTION	DOMESTIC	390	60	STEEL - PERFORATED OR SLOTTED CASING	8	RUTH WOOTEN KENNELS		RT 1 BOX 76D	AZ	TOLLESON	85353
	584334	55	386041.7	3694890	EXEMPT	WATER PRODUCTION	DOMESTIC	160	40	STEEL - PERFORATED OR SLOTTED CASING	6	ASKREN, LYLE		3650 W PECAN	AZ	PHOENIX	85041
	583205	55	385841.2	3694894	EXEMPT	WATER PRODUCTION	DOMESTIC	160	50	STEEL - PERFORATED OR SLOTTED CASING	6	SERRATO, JOSE		2922 W LATHAM	AZ		85009
	514691	55	385843.3	3695096	DOMESTIC STOCK EXEMPT	WATER PRODUCTION	DOMESTIC	360	30	STEEL - PERFORATED OR SLOTTED CASING	6	BURKS, EUGENE S		RT 1 BOX 216	AZ	LAVEEN	85339
	634571	55	385069.7	3697135	EXEMPT	WATER PRODUCTION	DOMESTIC	350	60	NO CASING CODE LISTED	0	VAN HOFWEGEN, DAVID		8459 W BROADWAY	AZ	LAVEEN	85353
	804665	55	383956.2	3698654	NON-EXEMPT	ABANDONED	IRRIGATION	285	70	STEEL - PERFORATED OR SLOTTED CASING	16		STANDARD PACIFIC INC	6710 N SCOTTSDALE RD SUITE 150	AZ	SCOTTSDALE	85253
	503822	55	382236.1	3701422	EXPLORATION	OBSERVATION	MONITORING	620	92	STEEL - PERFORATED OR SLOTTED CASING	10		TOLLESON, CITY OF	9555 W VAN BUREN	AZ	TOLLESON	85353
	548486	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	AZ	TOLLESON	85353
	548487	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	AZ	TOLLESON	85353
	548488	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	AZ	TOLLESON	85353
	550131	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	AZ	TOLLESON	85353
	550132	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	AZ	TOLLESON	85353
	550133	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	AZ	TOLLESON	85353
	907934	55	382436.4	3701421	MONITOR		MONITORING	100	80	STEEL - PERFORATED OR SLOTTED CASING	0		TOLLESON UNION HSD	9419 W VAN BUREN ST	AZ	TOLLESON	85353
	482172	55	382040.1	3702029	EXEMPT	ABANDONED	DOMESTIC	0	0		0		SURE-LOCK IV LLC	8909 E HARRY ST	KS	WICHITA	67207
	605370	55	382040.1	3702029	EXEMPT	WATER PRODUCTION	DOMESTIC				0	STEEL - PERFORATED OR SLOTTED CASING COWDEN,E R		PO BOX 1550	AZ	PHOENIX	85001

WELLS - W101EFR

LOCATION	REGISTRYID	PROGRAM	UTM_X_METE	UTM_Y_METE	WELLTYPE	WELLSITEUS	WATERUSE1	WELL_DEPTH	WATER_LEVEL	CASING_TYP	CASING_DIA	LAST_NAME	COMPANY	ADDRESS1	CITY	STATE	ZIP
	542210	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	26	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542211	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542212	55	389123.9	3690444	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542213	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	40	30	PLASTIC OR PVC	2		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542214	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	35	28	PLASTIC OR PVC	5		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	542215	55	389132.0	3690644	MONITOR OR PIEZOMETER	MONITOR	MONITORING	0	0	NO CASING CODE LISTED	0		WESTERN FARM CREDIT	PO BOX 24138	TEMPE	AZ	85285
	580078	55	386436.2	3694077	WITHDRAWAL PERMIT	WATER PRODUCTION	TEST	83	25	STEEL - PERFORATED OR SLOTTED CASING	12		CITY OF PHOENIX	200 W WASHINGTON ST, 14TH FLOOR	PHOENIX	AZ	85003
	584728	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584729	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	74	28	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584730	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	75	27	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	584731	55	386436.2	3694077	NON-EXEMPT	ABANDONED	NONE	80	27	PLASTIC OR PVC	12		PCL CIVIL CONSTRUCTORS INC	1729 W GREENTREE DR, STE 105	TEMPE	AZ	85284
	087542	55	386039.7	3694689	EXEMPT	WATER PRODUCTION	DOMESTIC	390	60	STEEL - PERFORATED OR SLOTTED CASING	8		RUTH WOOTEN KENNELS	RT 1 BOX 76D	TOLLESON	AZ	85353
	584334	55	386041.7	3694890	EXEMPT	WATER PRODUCTION	DOMESTIC	160	40	STEEL - PERFORATED OR SLOTTED CASING	6	ASKREN, LYLE		3650 W PECAN	PHOENIX	AZ	85041
	583205	55	385841.2	3694894	EXEMPT	WATER PRODUCTION	DOMESTIC	160	50	STEEL - PERFORATED OR SLOTTED CASING	6	SERRATO, JOSE		2922 W LATHAM	PHOENIX	AZ	85009
	514691	55	385843.3	3695096	DOMESTIC STOCK EXEMPT	WATER PRODUCTION	DOMESTIC	360	30	STEEL - PERFORATED OR SLOTTED CASING	6	BURKS, EUGENE S		RT 1 BOX 216	LAVEEN	AZ	85339
	634571	55	385069.7	3697135	EXEMPT	WATER PRODUCTION	DOMESTIC	350	60	NO CASING CODE LISTED	0	VAN HOFWEGEN, DAVID		8459 W BROADWAY	LAVEEN	AZ	85353
	804665	55	383956.2	3698654	NON-EXEMPT	ABANDONED	IRRIGATION	285	70	STEEL - PERFORATED OR SLOTTED CASING	16		STANDARD PACIFIC INC	6710 N SCOTTSDALE RD SUITE 150	SCOTTSDALE	AZ	85253
	503822	55	382236.1	3701422	EXPLORATION	OBSERVATION	MONITORING	620	92	STEEL - PERFORATED OR SLOTTED CASING	10		TOLLESON, CITY OF,	9555 W VAN BUREN	TOLLESON	AZ	85353
	548486	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	548487	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	55	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	548488	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	4		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550131	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550132	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	550133	55	382436.4	3701421	MONITOR OR PIEZOMETER	MONITOR	MONITORING	75	57	PLASTIC OR PVC	1		TOLLESON UNION HSD	9419 W VAN BUREN AVE	TOLLESON	AZ	85353
	907934	55	382436.4	3701421	MONITOR		MONITORING	100	80	STEEL - PERFORATED OR SLOTTED CASING	0		TOLLESON UNION HSD	9419 W VAN BUREN ST	TOLLESON	AZ	85353
	607234	55	381844.0	3703638	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	1725	113	STEEL - PERFORATED OR SLOTTED CASING	20		ROOSEVELT IRR DIST	PO BOX 95	BUCKEYE	AZ	85326
	617701	55	381844.0	3703638	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	483	0	STEEL - PERFORATED OR SLOTTED CASING	18		SALT RIVER PROJECT	PO BOX 1980	PHOENIX	AZ	85001

WELLS - E1

LOCATION	REGISTRYID	PROGRAM	UTM_X_METE	UTM_Y_METE	WELLTYPE	WELLSITEUS	WATERUSE1	WELL_DEPTH	WATER_LEVEL	CASING_TYP	CASING_DIA	LAST_NAME	COMPANY	ADDRESS1	CITY	STATE	ZIP
	513011	55	407044.6	3684051	NON-SERVICE	WATER PRODUCTION	RECREATION	0	0	NO CASING CODE LISTED	0		AMCOR INVEST CORP	2735 E CAMELBACK RD	PHOENIX	AZ	85016
	513791	55	407044.6	3684051	NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	0	0	NO CASING CODE LISTED	0	GOLDMAN, MILTON & M.		RT 2 BOX 404-M	TEMPE	AZ	85284
	602186	55	407044.6	3684051	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	1040	150	STEEL - PERFORATED OR SLOTTED CASING	16	GOLDMAN, M		RT 2 BOX 404 M	TEMPE	AZ	85284
	627890	55	407044.6	3684051	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	280	92	STEEL - PERFORATED OR SLOTTED CASING	16		LAKEWOOD COMM ASSOC	5050 N 8TH PL STE 6	PHOENIX	AZ	85014
	627895	55	407044.6	3684051	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	1000	130	STEEL - PERFORATED OR SLOTTED CASING	16		LAKEWOOD COMM ASSOC	PO BOX 11289	PHOENIX	AZ	85061
	627891	55	406640.1	3684056	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	460	0	OTHER - BLACK STEEL - IRON - SEAMLESS	20		LAKEWOOD COMM ASSOC	5050 N 8TH PL STE 6	PHOENIX	AZ	85014
	627892	55	406235.5	3684062	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	623	140	STEEL - PERFORATED OR SLOTTED CASING	20		LAKEWOOD COMM ASSOC	5050 N 8TH PL STE 6	PHOENIX	AZ	85014
	627893	55	406235.5	3684062	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	520	130	STEEL - PERFORATED OR SLOTTED CASING	20		LAKEWOOD COMM ASSOC	5050 N 8TH PL STE 6	PHOENIX	AZ	85014
	602184	55	404621.1	3684078	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	220	160	STEEL - PERFORATED OR SLOTTED CASING	8	GOLDMAN, M		RT 2 BOX 404 M	TEMPE	AZ	85284
	510943	55	403611.4	3684090	NON-SERVICE	WATER PRODUCTION	INDUSTRIAL	0	0	NO CASING CODE LISTED	0		4140 INVESTMENTS INC	4520 N CENTRAL AVE	PHOENIX	AZ	85012
	510944	55	403611.4	3684090	NON-SERVICE	WATER PRODUCTION	INDUSTRIAL	0	0	NO CASING CODE LISTED	0		4140 INVESTMENTS INC	4520 N CENTRAL AVE	PHOENIX	AZ	85012
	630347	55	403611.4	3684090	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	357	153	STEEL - PERFORATED OR SLOTTED CASING	10	ATTN: SCOTT THOMPSON	NATIONAL GOLF PROPERTIES	2951 28TH ST STE 3001	SANTA MONICA	CA	90405
	630348	55	403611.4	3684090	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	273	136	STEEL - PERFORATED OR SLOTTED CASING	8	ATTN: SCOTT THOMPSON	NATIONAL GOLF PROPERTIES	2951 28TH ST STE 3001	SANTA MONICA	CA	90405
	806716	55	403611.4	3684090	EXEMPT	WATER PRODUCTION	NONE	400	0	STEEL - PERFORATED OR SLOTTED CASING	8		FOOTHILLS JOINT	16431 S DESERT FTHLS	PHOENIX	AZ	85044
	807144	55	403411.2	3684093	EXEMPT	WATER PRODUCTION	NONE	400	0	STEEL - PERFORATED OR SLOTTED CASING	6		DEL E WEBB FOOTHLS	6001 N 24TH ST	PHOENIX	AZ	85038
	518552	55	394045.9	3684761	EXPLORATION	GEOTECHNICAL	NONE	1610	0	NO CASING CODE LISTED	3		ADOT	205 S 17TH AVE	PHOENIX	AZ	85007
	635905	55	393645.1	3685368	EXEMPT	WATER PRODUCTION	DOMESTIC	108	35	STEEL - PERFORATED OR SLOTTED CASING	10	GUTHRIE, ROBERT D		RT 1 BOX 735	LAVEEN	AZ	85339
	636395	55	393645.1	3685368	EXEMPT	WATER PRODUCTION	DOMESTIC	114	60	STEEL - PERFORATED OR SLOTTED CASING	8	GUTHRIE, TROY		PO BOX 696	LAVEEN	AZ	85339
	581510	55	392281.3	3686803	EXEMPT	WATER PRODUCTION	DOMESTIC	260	180	PLASTIC OR PVC	5	DIAZ, ROBERT & CANDICE		RR 2 BOX 717	LAVEEN	AZ	85339
	214902	55	391881.4	3687213	EXEMPT	WATER PRODUCTION	DOMESTIC	0	0		0	CALHOUN, KEITH		6825 55TH LN	LAVEEN	AZ	85339
	622238	55	391881.4	3687213	EXEMPT	WATER PRODUCTION	DOMESTIC	200	140	STEEL - PERFORATED OR SLOTTED CASING	8	LEWIS, O B		PO BOX 266	LAVEEN	AZ	85339
	622239	55	391881.4	3687213	EXEMPT	WATER PRODUCTION	DOMESTIC	240	130	STEEL - PERFORATED OR SLOTTED CASING	8	LEWIS, O B		PO BOX 266	LAVEEN	AZ	85339
	622240	55	391881.4	3687213	EXEMPT	WATER PRODUCTION	DOMESTIC	180	130	STEEL - PERFORATED OR SLOTTED CASING	8	LEWIS, O B		PO BOX 266	LAVEEN	AZ	85339
	622241	55	391881.4	3687213	EXEMPT	WATER PRODUCTION	DOMESTIC	170	140	STEEL - PERFORATED OR SLOTTED CASING	8	LEWIS, O B		PO BOX 266	LAVEEN	AZ	85339
	556203	55	391085.7	3688612	EXEMPT	WATER PRODUCTION			10/29/1996 12:00:00 AM	STEEL - PERFORATED OR SLOTTED CASING	310	WOOD, WILLIAM		5010 S 67TH AVE	PHOENIX	AZ	85043