MAG 208 Plan Amendment for the Service Area Expansion of the LPSCo dba Liberty Utilities Palm Valley and Sarival Water Reclamation Facilities

Prepared For:

City of Glendale, AZ

and

LPSCo dba Liberty Utilities

Prepared By:

Water Works Engineers

July 2012

(Revised October 2012)
PREPARED FOR THE CITY OF GLENDALE AND LPSCo DBA LIBERTY UTILITIES
MAG 208 PLAN AMENDMENT FOR THE SERVICE AREA EXPANSION
LPSCo dba Liberty Utilities Palm Valley and Sarival Water Reclamation Facilities

Date: June 23, 2011 (Revised October 18, 2012)
Prepared By: John Matta, P.E.
Rob Bryant, P.E.

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July 29, 2011

Julie Hoffman
Environmental Planner
Maricopa Association of Governments
302 N. 1st Avenue, Suite 300
Phoenix, Arizona 85003

Dear Julie,

The City of Glendale has been requested by Liberty Water to support a MAG 208 amendment that would allow Liberty Water to provide sewer service to various subdivisions and facilities proximate to Liberty Water’s existing sewer system.

In accordance with the MAG 208 Water Quality Management Plan, the City of Glendale is officially requesting that you initiate the amendment process for the document entitled “Liberty Water – MAG 208 Amendment Service Area Expansion” dated June 23, 2011 and prepared by Water Works Engineers, LLC.

Glendale supports the proposed amendment that will allow Liberty Water to provide sewer service to the following subdivisions and facilities: Bethany Estates North; Bethany Estates South; Dysart Village; Falcon View; Riverside Estates (Maryland 40); Dysart Crossings; and the Heritage Elementary School.

As always, we look forward to working with MAG and appreciate your assistance to facilitate the review and approval process.

Sincerely,

Craig Johnson, P.E.
Executive Director, Water Services Department
City of Glendale

Cc:
Michael D. Weber, P.E.
June 7, 2012

Ms. Julie Hoffman
208 Program Manager
Maricopa Association of Governments
302 N 1st Ave, Ste 300
Phoenix, AZ 85003

Dear Ms. Hoffman:

The City of Glendale (on behalf of Liberty Water Company) has submitted a Clean Water Act Section 208 Amendment that will modify the wastewater service areas within Glendale’s MPA.

This modification to sewer service areas has created an island of currently unsewered users (mostly large lots with existing septic systems). Glendale would support Liberty’s provision of sewer service to the described island in the event of a future request of the property owner(s). See the following figure for an illustration of this unsewered area:

Should you have any further questions regarding our support of this service area expansion, feel free to contact my office.

Sincerely,

Craig Johnson, P.E.
Executive Director, Water Services Department
City of Glendale

CC: Michael D. Weber, P.E.
Section 1 - Introduction

This proposed amendment to the Maricopa Association of Governments 208 Plan ("MAG 208") provides for an expansion of the service area for the Litchfield Park Service Company dba LPSCo dba Liberty Utilities ("LPSCo dba Liberty Utilities") Palm Valley Water Reclamation Facility ("PVWRF") and future Sarival Water Reclamation Facility ("Sarival WRF") in Maricopa County. During the preparation of this amendment, Liberty Water changed its name to Liberty Utilities (to reflect additional services in gas and electric in other service areas). Letters of No Objection were obtained prior to this name change and therefore reference Liberty Water.

Various developers have requested sewer service from LPSCo dba Liberty Utilities for lands lying north of the present service area, and LPSCo dba Liberty Utilities has determined that their existing and planned facilities will accommodate these additional flows.

LPSCo dba Liberty Utilities provides wastewater collection and treatment service for all of the City of Litchfield Park and portions of Avondale, Buckeye, Glendale, Goodyear and unincorporated Maricopa County as shown in Figure 1. The PVWRF is in operation to serve the area and future expansion of this facility is currently being reviewed. LPSCo dba Liberty Utilities also has constructed the Sarival Lift Station to bring wastewater from the western portion of its service area to the PVWRF initially. As flows increase, LPSCo dba Liberty Utilities plans to either construct, and then expand, the Sarival WRF or expand the PVWRF to provide added service. The series of steps over which these improvements are planned were covered in the MAG 208 Amendment dated February 17, 2006 and approved by MAG. The body of that amendment is contained within Appendix A, and this amendment describes the proposed changes to the approved amendment.

This proposed amendment does not change the plans for treatment, effluent and biosolids disposal, or any of the other aspects of the PVWRF and Sarival WRF as described in the current MAG 208. It only provides for expanding the service area as shown on Figure 1.

The average day wastewater flows generated from the proposed expanded service area when added to existing flows at LPSCo dba Liberty Utilities' treatment facility will be less than the average day design flow capacity cited in the 208 Water Quality Management Plan. The ultimate capacities for the PVWRF and Sarival WRF will not increase due to the 38 percent reserve capacity reported in the MAG 208 Amendment dated February 17, 2006.

Section 2 – Letters of Sponsorship and No Objection

As the sponsor of this application, the City of Glendale has provided a letter of sponsorship that is included at the beginning of this document. In addition, the following communities lie within a three mile radius of the service area expansion:

- City of Avondale
- City of El Mirage
- City of Goodyear
- City of Litchfield Park
- City of Peoria
- City of Phoenix
- Town of Youngtown
- Luke Air Force Base
- Maricopa County
Figure 1: Vicinity Plan - Service Area Expansion

- Current Service Area
- Expanded Service Area
- 3-Mile Radius From Expanded Service Area
- PVWRF
- Casitas Bonitas Lift Station
- Desert Gardens 1 WWTP
- Desert Gardens 2 WWTP
- Future Sarival WRF
- Sarival Lift Station
- Surprise SPA1
- El Mirage WWTP
- Luke AFB WWTP
- West Glendale WRP
- Russell Ranch WRP
- Casitas Bonitas Lift Station

Legend:
- Red = Existing Treatment Facility
- Blue = Future Treatment Facility

Water Works Engineers, LLC
These communities have been contacted and requested to submit a "Letter of No Objection" to the proposed amendment. These letters are included in Appendix B.

Section 3 – 208 Clean Water Act Checklist
The 208 Clean Water Act Checklist has been completed for this proposed service area expansion and is included in Appendix C.

Section 4 – 20-Year Needs Assessments

4.1 General Background and Project History
The City of Glendale is the Designated Management Agency for the Glendale planning area. As the proposed service area expansion for LPSCo dba Liberty Utilities is within the Municipal Planning Area (MPA) for Glendale, the City of Glendale has sponsored this 208 Amendment. To this end, the City of Glendale requests that the MAG 208 Plan be amended to include the service area expansion for LPSCo dba Liberty Utilities as illustrated in Figure 1. Other jurisdictions within three miles of the service area expansion (Avondale, El Mirage, Goodyear, Litchfield Park, Luke Air Force Base, Maricopa County, Peoria, Phoenix, and Youngtown) have been requested to provide letters stating that they have no objection to the proposed amendment.

LPSCo dba Liberty Utilities is a privately-owned and operated wastewater operator providing wastewater collection and treatment service for the City of Litchfield Park and portions of Avondale, Buckeye, Glendale, Goodyear and unincorporated Maricopa County. The general area is shown in Figure 1. LPSCo dba Liberty Utilities’ facilities, plans, and service area are described in the MAG 208 Water Quality Management Plan, October 2002 and updated by the Amendment dated February 17, 2006. The existing service area for the PVWRF is shown in Figure 1. LPSCo dba Liberty Utilities has adequate authority to perform the function enumerated in the Clean Water Act Section 208 (c)(2)(A)-(I), as discussed in Appendix C. LPSCo dba Liberty Utilities operates in the areas of the agencies mentioned above with their cooperation and approval.

4.2 Existing Service Area
LPSCo dba Liberty Utilities currently provides wastewater collection and treatment service for the City of Litchfield Park and portions of Avondale, Glendale, Goodyear and unincorporated areas of Maricopa County. The LPSCo dba Liberty Utilities service area is predominately made up of master planned communities such as Palm Valley, Pebble Creek, Wigwam Creek, Litchfield Greens and Dreaming Summit. This service area is shown in Figure 1.

4.3 Existing Facilities
The existing facilities include the PVWRF, located at 14222 W. McDowell Road, which was constructed and placed into service in February 2001. LPSCo dba Liberty Utilities prepared an Aquifer Protection Permit amendment for the expansion of PVWRF from 4.1 to 5.1 MGD was issued by ADEQ on April 13, 2012. This facility was designed primarily to serve all residential
and commercial development from McDowell Road on the south to Camelback Road on the north and from Cotton Lane on the west to Dysart Road on the east.

4.4 Previously Planned Facilities

4.4.1 Collection System

This proposed amendment does not detail any existing collection system components in the LPSCo dba Liberty Utilities system since they will not require expansion as a result of this service area expansion.

4.4.2 Pumping Facilities

LPSCo dba Liberty Utilities has completed the construction of the Sarival Lift Station, which will provide interim pumping capacity to the PVWRF from the northwest service area until such time that flows increased to a level that would support startup and continuous operation of a second treatment facility, the Sarival WRF.

The basis for this plan is described in the earlier February 2006, 208 Plan Amendment, found in Appendix A. The initial design and first phase construction of the Sarival Lift Station is designed to provide the following pumping capacity:

- Average Daily Flow: 2.0 MGD
- Peak Day Flow: 4.2 MGD
- Peak Hour Flow: 6.5 MGD

The initial construction phase of the Sarival Lift Station will provide sewer service for up to 6,250 residential units by diverting up to 2.0 MGD average daily flow to the PVWRF through a newly constructed 16-inch ductile iron force main.

Once the trigger flow rate of 1.8 MGD is reached at this facility, construction will begin on the lift station expansion.

An additional lift station with retention tank was added at the southeast corner of the intersection for Dysart Road and Glendale Avenue in 2004. This lift station (Casitas Bonitas Lift Station) was designed for an average daily flow of 0.45 MGD. At this flow rate, the associated retention tank can accommodate 30 minutes of storage. Thereby avoiding peak flows overloading the downstream collection system.

4.4.3 Treatment Facilities

The Sarival WRF will be located west of Sarival Road on the south side of McDowell Road and is planned to treat all residential and commercial sewer flows west of Pebble Creek Parkway between McDowell Road to the south and Bethany Home Road to the north. This facility is included in the MAG 208 Water Quality Management Plan.
4.4.4 Facility Capacity
The Palm Valley facility Phase I has an average day capacity of 4.1 MGD with a second phase expansion planned to 5.1 MGD, with a full buildout capacity of 8.2 MGD. The Sarival facility will be constructed in appropriate phases also with a full build out capacity of 8.2 MGD. The existing PWRF will be capable of treating the current wastewater flows from the existing LPSCo dba Liberty Utilities service area with a 19.1% reserve capacity for projection limitations and modifications from the assumed modeling land uses, as reported in the February 17, 2006, 208 Amendment (Appendix A). The projected wastewater flows will be treated solely at PWRF with development of certain areas dictating actual facility construction and expansion schedules. The current capacity of the PWRF is 4.1 MGD. The Sarival WRF is yet to be constructed.

4.4.5 Water Reclamation Facility Description
The PWRF treatment process is an activated sludge process utilizing sequencing batch reactor (SBR) technology. The treatment plant includes screening, grit removal, anoxic/aerobic biological nutrient removal, Ultra-Violet (UV) disinfection, and disk filtration.

Sarival WRF will be designed in the future to Class A+ effluent standards and unclassified biosolids. As technologies are continuously evolving and progressing, a specific treatment technology has not been selected but design will be in accordance with the latest ADEQ standards.

Wastewater is treated to exceed the current ADEQ Class A+ effluent requirements. Effluent disposal is accomplished through golf course and agricultural irrigation. There are currently four 18-hole golf courses and a 9-hole golf course served by LPSCo dba Liberty Utilities with zero future courses planned and numerous public parks, which may be converted to reclaimed water irrigation. LPSCo dba Liberty Utilities plans to provide the reclaimed water at less cost than current groundwater or surface water prices.

Effluent from the treatment facilities will be stored in golf course lakes and water feature amenities then distributed as needed for irrigation. It is estimated that the irrigation demand in the North Planning Area will not require as much reclaimed water as will be produced. Therefore, a secondary discharge system will be developed for both plants to allow for groundwater recharge of the underlying aquifer. An AZPDES permit was obtained for the R1D canal discharge for the PWRF. Raw wastewater is expected to be nearly 100% residential and light commercial. Industrial service connections will be required to comply with all pretreatment requirements.

Both facilities as currently planned will generate waste sludge. The current PWRF and future Sarival WRF are intended to have unclassified sludge as defined by EPA Title 40 CFR Part 503.

Biosolids will be either stored and sold or landfilled for disposal. However, there will be an opportunity to use Sarival WRF as a biosolids processing plant for both facilities once it is
completed. This will reduce environmental impacts and aesthetic concerns in the vicinity of PVWRF.

Operation and maintenance of the sewage system will be in accordance with LPSCo dba Liberty Utilities procedures. LPSCo dba Liberty Utilities will provide the services in accordance with the current regulations of the EPA, ACC, ADEQ, ADWR, MCESD, City of Goodyear, City of Glendale, and any other regulatory agencies having jurisdiction.

Further details about the treatment processes, effluents, and biosolids handling are found in the February 17, 2006, 208 Amendment in Appendix A and are unchanged by this amendment.

4.4.6 Pretreatment Requirements

The Code of Federal Regulations Part 403 Section 403.8 states "any Publicly Owned Treatment Works (POTW) with a total design flow of 5 million gallons per day and receiving from industrial users pollutants which pass through or interfere with the operation of the POTW or are otherwise subject to pretreatment standards, will be required to establish a pretreatment program". The existing PVWRF is not currently required to comply with pretreatment requirements since there are no industrial users discharging into the collection system. If industrial users are added to the service area of PVWRF or the planned Sarival WRF, a pretreatment program will be developed with the industrial user being subject to pretreatment standards as regulated by the EPA.

4.5 Population and Wastewater Flow Estimates

Population estimates and resulting wastewater flows for the proposed service area expansion are shown in the following table. These projections were obtained from individual design reports and population projections for each property listed below. This additional service area is wholly contained within Regional Analysis Zone (RAZ) 255.

<table>
<thead>
<tr>
<th>Single Family Property</th>
<th># of Lots</th>
<th>Density</th>
<th>Projected Population</th>
<th>Projected Flow (gpd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bethany Estates North</td>
<td>34</td>
<td>3.2 people / lot</td>
<td>110</td>
<td>11,000</td>
</tr>
<tr>
<td>Bethany Estates South</td>
<td>28</td>
<td>3.2 people / lot</td>
<td>90</td>
<td>9,000</td>
</tr>
<tr>
<td>Dysart Village</td>
<td>39</td>
<td>3.2 people / lot</td>
<td>125</td>
<td>12,500</td>
</tr>
<tr>
<td>Falcon View</td>
<td>64</td>
<td>2.67 people / DU</td>
<td>171</td>
<td>17,100</td>
</tr>
<tr>
<td>Riverside Estates (Maryland 40)</td>
<td>80</td>
<td>3.2 people / lot</td>
<td>260</td>
<td>26,000</td>
</tr>
<tr>
<td>Subtotal Single Family:</td>
<td>245</td>
<td></td>
<td>756</td>
<td>75,600</td>
</tr>
</tbody>
</table>
LPSCo dba Liberty Utilities is actively managing these additional connections to the existing sewer collection system. In addition, LPSCo dba Liberty Utilities independently verifies the ability of the collection system to convey these additional average and peak loads within the existing system (no sewer line shall exceed d/D of 0.75 during peak flow events) through modeling of their system. This model is updated as new users approach LPSCo dba Liberty Utilities concerning connection and service.

The following table summarizes the sewer flow projections for areas within the unsewered island created by this amendment (acknowledged in Glendale's letter and MCESD’s letter). This amendment is not for sewering of this area. If, in the future, the residents in this area (generally described as the residential properties north of Camelback, bounded on the east by 127th Avenue, to the west by Dysart Road and to the north by a portion of Bethany Home Road and approximately Rose Lane) decide to have sewer service provided, an amendment to the MAG 208 shall be processed at that time.

**Table 2: Unsewered Population and Flow Projections**

<table>
<thead>
<tr>
<th>Single Family Property</th>
<th># of Lots</th>
<th>Density</th>
<th>Projected Population</th>
<th>Projected Flow (gpd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Litchfield Vista Views</td>
<td>210</td>
<td>3.2 people / lot</td>
<td>672</td>
<td>67,200</td>
</tr>
<tr>
<td>Los Cerros</td>
<td>35</td>
<td>3.2 people / lot</td>
<td>112</td>
<td>11,200</td>
</tr>
<tr>
<td>Litchfield Heights North</td>
<td>35</td>
<td>3.2 people / lot</td>
<td>112</td>
<td>11,200</td>
</tr>
<tr>
<td>Tierra Buena</td>
<td>86</td>
<td>3.2 people / lot</td>
<td>276</td>
<td>27,600</td>
</tr>
<tr>
<td>Future</td>
<td>90</td>
<td>3.2 people / lot</td>
<td>288</td>
<td>28,800</td>
</tr>
<tr>
<td>Total Potential Future Connections:</td>
<td>456</td>
<td>1,460</td>
<td>146,000</td>
<td></td>
</tr>
</tbody>
</table>

**4.6 Newly-Proposed Facilities**

As mentioned above, the LPSCo dba Liberty Utilities sanitary sewer collection system has been designed to serve the needs of the proposed expanded service area plus additional properties.

The properties within the additional service area are comprised of developments with installed infrastructure and developments that have not installed infrastructure yet. The following table summarizes the current condition of these subject properties.
Table 3: Property Infrastructure Status

<table>
<thead>
<tr>
<th>Single Family Property</th>
<th>Installed Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bethany Estates North</td>
<td>No</td>
</tr>
<tr>
<td>Bethany Estates South</td>
<td>Yes</td>
</tr>
<tr>
<td>Dysart Village</td>
<td>Yes</td>
</tr>
<tr>
<td>Falcon View</td>
<td>No</td>
</tr>
<tr>
<td>Riverside Estates (Maryland 40)</td>
<td>No</td>
</tr>
<tr>
<td>Other</td>
<td>Installed Infrastructure</td>
</tr>
<tr>
<td>Dysart Crossings</td>
<td>Yes</td>
</tr>
<tr>
<td>Heritage Elementary</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The planned sanitary sewer collection system will be installed as necessary to accommodate future development.

4.7 Permitting Requirements

The expansion of the service area under this amendment will not require any ADEQ issued permits. Once development needs warrant the construction of these sanitary sewer collection lines, Approvals to Construct (ATC) and Approvals of Construction (AOCs) will be obtained from Maricopa County Environmental Services Department (MCESD).

Construction activities for the sewer line will require a Stormwater Pollution Prevention Plan, which is in place and maintained by the Contractor performing the construction.

Section 5 – Construction

5.1 Construction, Operation, and Maintenance Responsibility

LPSCo dba Liberty Utilities will develop and implement the plan for the construction/expansion and operation of the PVWRF, the Sarival WRF, Casita Bonitas Lift Station, and the Sarival Lift Station and will be solely responsible for funding the projects.

Each developer will undertake construction of the sanitary sewer facilities (which are mostly complete in this area) for the expanded service area through their own funding by contributions. Upon completion and acceptance, these constructed facilities will become the property of LPSCo dba Liberty Utilities who will own, operate and maintain these sewer collection facilities.

5.2 Sources of Construction Pollution

The construction of the sanitary sewer collection facilities will not be a significant source of pollution. Sources of pollution from the construction sites are expected to be from fugitive dust and construction equipment exhaust emissions.

A Dust Permit will be obtained from MCESD and appropriate measures will be performed to reduce dust (routine spraying, sprinkler irrigation, dust monitors, etc).
Erosion control measures during construction and grading will be implemented to prevent potential storm water runoff to water bodies. The contractor will be required to maintain a clean, safe working environment and to abide by all rules and regulations covering storage, use, and disposal of hazardous materials.

Section 6 – Financing and Other Actions to Implement Plan

6.1 Financing Capability to Construct the Facilities

LPSCo dba Liberty Utilities has made financial plans for the construction and operation of the treatment plants. The new facilities will be constructed using private, developer/development, and other funding as deemed necessary.

LPSCo dba Liberty Utilities will develop and implement the plan for the construction and operation of the PVWRF, the Sarival WRF and related services areas. LPSCo dba Liberty Utilities will be responsible for obtaining the funding of the projects. Both facilities will also be funded with moneys from collected LPSCo dba Liberty Utilities connection fees from new developments.

No adverse financial constraints are anticipated for either of the treatment plants. See Appendix D for LPSCo dba Liberty Utilities’ 2009 and 2010 financial balance sheet and income statement for Litchfield Park Service Company.

Section 7 – Impacts and Implementation Plan

This service area expansion will provide wastewater collection service to communities and businesses in the proposed service area. This expansion will not negatively impact any existing facilities/certificated areas.

7.1 Impact of the Proposed Service Area Expansion on the WWTP Capacity

The calculated increase in wastewater flow (0.099 MGD) is not anticipated to negatively impact the treatment performance of the PVWRF as it is currently operating at 84% of its rated capacity. In addition, LPSCo dba Liberty Utilities has begun the process of expanding PVWRF through permitting and preliminary design.

Section 8 – Public Participation

As part of the MAG Water Quality Management Plan Amendment Process, MAG, with the cooperation of the City of Glendale, is responsible for ensuring that the following actions are implemented after submittal of the draft 208 Amendment:

- Notify all parties of a public hearing on the 208 Amendment by sending notices to interested parties at least 30 days prior to the public hearing. The notice will include the date, time, subject and location of the public hearing for the 208 Amendment.
• Notify public at least 45 days in advance of the public hearing by advertising in a publication. The notice will include the date, time, subject and location of the public hearing for the 208 Amendment.

• Notify public that draft amendments are available for public viewing 30 days before the hearing. This notice will include the location, days, and time of availability.

• Submittal of an affidavit of publication of the public notice.
APPENDIX A

MAG 208 Amendment dated February 17, 2006
DRAFT

Application for Maricopa Association of Governments

Prepared for the City of Glendale, Town of Buckeye and Maricopa County to expand the service area for the Litchfield Park Service Company Palm Valley and Sarival Water Reclamation Facilities

Prepared by WOOD/PATEL
August 30, 2005 Revised February 17, 2006
SERVICE AREA EXPANSION FOR THE LITCHFIELD PARK SERVICE COMPANY
PALM VALLEY AND SARIVAL WATER RECLAMATION FACILITIES
DRAFT 208 AMENDMENT

August 30, 2005
Revised February 17, 2006
WP #042027

Prepared for:
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EXHIBITS

Exhibit 1 Project Area (Portion of Maricopa County)
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Exhibit 3 Proposed Service Area Expansion
Exhibit 4 Properties Served by This Expansion
EXECUTIVE SUMMARY

This proposed amendment to the MAG 208 Plan provides for an expansion of the service area for the Litchfield Park Service Company (LPSCo) Palm Valley and Sarival Water Reclamation Facilities in Maricopa County. A consortium of developers organized as the Northwest Valley Development Group (NVDG) has requested sewer service from LPSCo for lands lying north and west of the present LPSCo service area, and LPSCo has determined that their existing and planned facilities will accommodate those added flows. The general project area is shown in Exhibit 1.

LPSCo provides wastewater collection and treatment service for all of the City of Litchfield Park and portions of Avondale, Glendale, Goodyear and unincorporated Maricopa County as shown in Exhibit 2. The Palm Valley Wastewater Reclamation Facility (PVWRF) is in operation to serve the area and future expansion of this facility is planned. LPSCo also has constructed the Sarival Lift Station to bring wastewater from the western portion of its service area (and the expanded area covered by this proposed amendment) to the PVWRF initially. As flows increase, LPSCo plans to construct, and then expand, the Sarival Wastewater Reclamation Facility to provide added service. The series of steps over which these improvements are planned were covered in the MAG 208 Amendment dated August 28, 2000 and approved by MAG in 2001. The body of that amendment is contained here in Appendix A, and this amendment describes the proposed changes to the approved amendment. The earlier amendment is incorporated in the current MAG 208 Water Quality Management Plan dated October 2002.

This proposed amendment does not change the plans for treatment, effluent and waste solids disposal, or any of the other aspects of the Palm Valley and Sarival Water Reclamation Facilities as described in the MAG 208 Water Quality Management Plan. It only provides for expanding the service area as shown on Exhibit 3.

The average day wastewater flows generated from the expanded service when added to existing flows to LPSCo’s treatment facilities will be less than the average day design flow capacity of those facilities cited in the 208 Water Quality Management Plan. The ultimate capacities for the Palm Valley and Sarival Water Reclamation Facilities will not increase due to the 38 percent reserve capacity reported in the August 2000 Amendment to the 208 Water Quality Management Plan.
LETTERS OF AUTHORITY, SPONSORSHIP, AND NO OBJECTION

Two communities lie within three miles of the service area expansion: Surprise and Goodyear. The City of Glendale, Town of Buckeye, and Maricopa County have requested that the MAG 208 Plan be amended to include the service area expansion for the Litchfield Park Service Company Palm Valley and Sarival Water Reclamation Facilities. The other cities have been contacted and requested to submit a “letter of no objection” to the proposed amendment, and their letters are also included in this Section.
September 9, 2005

Mr. Julie Hoffman
Environmental Planner
Maricopa Association of Governments
302 N. 1st Avenue, Suite 300
Phoenix, Arizona 85003

FAX 602-254-6490

Subject: 208 Plan Amendment in Western Glendale Annexation Area

Dear Julie,

In accordance with the MAG 208 Water Quality Management Plan, the City of Glendale is officially requesting that you initiate the amendment process in accordance with the ‘Litchfield Park Service Company Regional Sanitary Sewer 208 Amendment’ dated August 30, 2005 prepared by Wood Patel (WP#04027). Glendale is interested in the provision of sewer service to the Savannah subdivision and other areas north of Camelback Road west of Cotton Lane by Litchfield Park Service Company.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Plan Amendment.

Sincerely,

Kenneth A. Reed, P.E.
Deputy City Manager
January 13, 2006

Ms. Julie Hoffman  
Environmental Planner  
Maricopa Association of Governments  
302 N. 1st Avenue, Suite 300  
Phoenix, Arizona 85003  

Fax 602-254-6490  

Re: MAG 208 Plan Amendment in Eastern Buckeye Area  

Dear Julie,  

In accordance with the MAG 208 Water Quality Management Plan, the Town of Buckeye is officially requesting that you initiate the amendment process in accordance with the “Litchfield Park Service Company Regional Sanitary Sewer 208 Amendment” dated August 30, 2005, prepared by Wood Patel (WP #04027). Buckeye is interested in the provision of sewer service to the areas north of Camelback Road and east of Jackrabbit Road and interim service within the Town in this vicinity from Litchfield Park Service Company.  

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Plan Amendment.  

Sincerely,  

[Signature]  

Carroll Reynolds, P.E.  
Town Manager  

Cc:  Tim Goodrich  
     Dave Violette
January 23, 2006

Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, AZ 85003

Attention: Ms. Linda Bauer, Environmental Program Coordinator

Re: Litchfield Park Service Company, Revised Service Area

Clean Water Act, MAG 208 Amendment

Dear Ms. Bauer:

Wood, Patel & Associates, Inc. has submitted a proposed MAG 208 Amendment Application dated August 30, 2005, with revisions dated November 15, 2005. The proposed Amendment is for an expansion of the Litchfield Park Service Company (LPSCo) service area to include lands that are primarily west of Perryville Road from Peoria Avenue south to Camelback Road. The lands include: the east half of T3N, R2W, Sections 28 and 33; the easterly half of T2N, R2W, Sections 4 and 9; T2N, R2W, Section 16; and parcels within T2N, R2W, Section 15.

The expanded area will be served by a regional gravity sewer that begins on Camelback Road west of Perryville Road and flows east along Camelback Road to Citrus Ave.; thence south along Citrus Ave. to Indian School Road; then east along Indian School Road to Cotton Lane; thence south along Cotton Lane to Interstate 10; and thence east to the existing Sarival Lift Station. The lift station will provide an average 2.0 MGD interim pumping to the Palm Valley Water Reclamation Facility until the Sarival WRF is constructed, as described in the October 2003, MAG 208 WQMP.

The proposed sewer will pass immediately south of the Russell Ranch WWTP, a facility that is owned and operated by Arizona American Water. The Russell Ranch facility was approved by the Department with the understanding that it would connect to a regional WWTP when such a facility becomes available. The proposed sewer will provide that opportunity.

The proposed service area revision complies with the MAG 208 Review and Approval Process under the MAG 208 Arenawide Water Quality Management Plan. The project is not in conflict with Maricopa County plans for the area and it is acceptable, provided that LPSCo agrees to serve to the Russell Ranch WWTP, subject to the parties resolving all related regulatory, legal, and financial matters.

Please note that the Department has not reviewed, nor approved, the design of the facilities as part of the 208 review. Any technical issues that remain will need to be resolved during the design phase of the project. Approval to Construct (ATC) and Approval of Construction (AOC) must be obtained from this Department prior to start of...
January 23, 2008
Ms. Lindy Bauer
MAG 208 Amendment Application for
Litchfield Park Service Company, Revised Service Area
Page 2 of 2

construction and startup, respectively, of all treatment, discharge, recharge, and reuse facilities, including all conveyance facilities and final end user facilities.

If you have any questions or comments, please feel free to contact Mr. Kenneth James, P.E., or myself at 506-6666.

Sincerely,

[Signature]

Kenneth L. James, P.E.
Acting Manager, Water and Waste Management Division

cc: Dave Violette, Wood, Patel & Associates, 2051 W. Northern Ave., Suite 100, Phoenix, AZ 85021
Justin Rundle, Arizona American Water, 19820 N. 7th St., Suite 201 Phoenix, AZ 85024
Utilities Division - Engineering Section, Arizona Corporation Commission, 1200 W. Washington, Phoenix, AZ 85007-2996
File
October 6, 2005

Ms. Julie Hoffman
Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, AZ 85003

Subject: MAG 208 Amendment – No Objection Letter

Dear Ms. Hoffman:

The Litchfield Park Service Company (LPSCo) has submitted a Clean Water Act Section 208 Amendment that will modify wastewater service areas that are outside the service area for Goodyear but within three miles of it as shown in the current 208 Plan. Goodyear has reviewed the proposed amendment and has no objection.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Amendment.

Sincerely,

Brian Delke
City Manager
October 20, 2005

Ms. Julie Hoffman
Maricopa Association of Governments
302 North 1st Ave, Suite 300
Phoenix, AZ 85003

RE: MAG 208 Amendment – No Objection Letter

Dear Ms. Hoffman:

The Litchfield Park Service Company (LPSCo) has submitted a Clean Water Act Section 208 Amendment that will modify wastewater service areas that are outside the service area for Surprise but within three miles of it is shown in the current 208 Plan. Surprise has reviewed the proposed amendment and has no objection.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Amendment.

Sincerely,

Rich Williams, Sr.
Water Services Director

Cc: file
CLEAN WATER ACT CHECKLIST

Section 208 of the Clean Water Act governs the generation, adoption, and amendment of the regional water quality management plans, called "208 Plans". The following checklist lists the requirements of a 208 Plan amendment and how this report addresses them.

### 208 AMENDMENT CHECKLIST

**Section 208 Clean Water Act**

40 CFR Part 103.6

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>PROVIDE BRIEF SUMMARY OF HOW REQUIREMENTS ARE ADDRESSED</th>
<th>ADDRESSED ON PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposed Designated Management Agency (DMA) shall self-certify that it has the authorities required by Section 208(c)(2) of the Clean Water Act to implement the plan for its proposed planning and service areas. Self-certification shall be in the form of a legal opinion by the DMA or entity attorney.</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**AUTHORITY**

LPSCO is not a DMA

---

### 20-YEAR NEEDS

(Clearly describe the existing wastewater treatment (WWT) facilities.)

- **Describe the WWT facilities.**
  
  These are described in the August 2000 208 Amendment
  
  Appendix A

- **Show WWT certified and service areas for private utilities and sanitary district boundaries if appropriate.**
  
  The service area expansion will not overlap WWT certified and service areas for private utilities and sanitary district boundaries
  
  Exhibit 3

(Clearly describe alternatives and the recommended WWT plan.)

- **Provide POPTAC population estimates over the 20-year planning period.**
  
  The estimated population for the service area expansion is 29,939 persons.
  
  Page 6

- **Provide wastewater flow estimates over the 20-year planning period.**
  
  The estimated average day flow from the service area expansion is 3.0 MGD
  
  Pages 6-7

- **Illustrate the WWT planning and service areas.**
  
  The existing service area is described in the August 2000 208 Amendment. This document describes only the proposed expansion.
  
  Exhibit 3

- **Describe the type and capacity of the recommended WWT Plant.**
  
  This amendment does not include any recommended WWT Plants. Those are contained in the August 2000 208 Amendment
  
  Appendix A

---

OUCHPATEL

W2 0410377

- 6x -

August 30, 2005

Draft 208 Amendment

Service Area Expansion for the LPSCO

 Revised February 17, 2006

Palo Valley & Sarreal Water Reclamation Facilities
<table>
<thead>
<tr>
<th>Identify water quality problems, consider alternative control measures, and recommend solution for implementation.</th>
<th>No water quality problems are expected to occur as a result of this service area expansion. Refer to the August 2000 208 Amendment regarding treatment.</th>
<th>Appendix A</th>
</tr>
</thead>
<tbody>
<tr>
<td>If private WWF facilities are within the proposed regional service area, define who (municipal or private utility) serves what area and when. Identify those sewer lines can be approved in what areas and when.</td>
<td>LPSCo will own and operate the sewage collection system in the proposed service area.</td>
<td>Page 4, Appendix A</td>
</tr>
<tr>
<td>Describe method of effluent disposal and reuse sites (if appropriate).</td>
<td>Effluent disposal is to be accomplished through golf course and agricultural irrigation for the two facilities. A secondary discharge system will be developed for both plants to allow for groundwater recharge of the underlying aquifer. An AZPDES permit will be required for the ROD canal discharge proposed for the Sarival WRF.</td>
<td>Page 7</td>
</tr>
<tr>
<td>If Sanitary Districts are within a proposed planning or service area, describe who serves the Sanitary Districts and when.</td>
<td>LPSCo will own and operate the sewage collection system in the proposed service area.</td>
<td>Page 7</td>
</tr>
<tr>
<td>Describe ownership of land proposed for plant sites and reuse areas.</td>
<td>Covered in the August 2000 208 Amendment.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>Address time frames in the development of the treatment works.</td>
<td>Palm Valley WRF, Phase I, 4.1 MGD 2001; Phase II, 4.1 MGD 2012, Sarival WRF Phase I, 4.1 MGD 2006, Phase II, 4.1 MGD 2015.</td>
<td>Page 7</td>
</tr>
<tr>
<td>Address financial constraints in the development of the treatment works.</td>
<td>This amendment does not include any treatment recommendations. Those were contained in the August 2000 208 Amendment.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>Describe how discharges will comply with EPA municipal and industrial storm water discharge regulations (Section 405, CWA).</td>
<td>Site-specific storm water will be retained on site for up to 100-year storm events.</td>
<td>Page 8, Appendix A</td>
</tr>
<tr>
<td>Describe how open areas and recreational opportunities will result from improved water quality and how those will be used.</td>
<td>The use of high quality effluent for irrigation will reduce the demand for groundwater.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>Describe potential use of lands associated with treatment works and increased access to water-based</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
recreation, if applicable.

<table>
<thead>
<tr>
<th>REGULATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe types of permits needed, including NPDES, APP, and reuse.</td>
</tr>
<tr>
<td>Describe restrictions on NPDES permits, if needed, for discharge and sludge disposal.</td>
</tr>
<tr>
<td>Provide documentation of communication with ADEQ Permitting Section 30 to 60 days prior to public hearing regarding the need for specific permits.</td>
</tr>
<tr>
<td>Describe pretreatment requirements and method of adherence to requirements (Section 208 (b) (2), CWA).</td>
</tr>
<tr>
<td>Identify, if appropriate, specific pollutants that will be produced from excavations and procedures that will protect ground and surface water quality (Section 208(b) (2) (K) and Section 304, CWA).</td>
</tr>
<tr>
<td>Describe alternatives and recommendation in the disposition of sludge generated. (Section 405 CWA)</td>
</tr>
<tr>
<td>Define any nonpoint issues related to the proposed facility and outline procedures to control them.</td>
</tr>
<tr>
<td>Describe process to handle all mining snuff, orphan sites and underground pollutants, if applicable.</td>
</tr>
<tr>
<td>If mining related, define what specialized procedures will be initiated for orphan sites, if applicable.</td>
</tr>
<tr>
<td>If mining related, define what specialized procedures will be initiated for orphan sites, if applicable.</td>
</tr>
</tbody>
</table>

CONSTRUCTION

Define construction priorities and time schedules for initiation and completion. A service area expansion only is covered by this amendment. The Regional Sanitary Sewer is...
Identify agencies that will construct, operate and maintain the facilities and otherwise carry out the plan.

LPSCo will be responsible for construction, operation, and maintenance.

Page 9

Identify construction activity-related sources of pollution and set forth procedures and methods to control, to the extent feasible, such sources.

The construction of the Regional Sanitary Sewer required a Stormwater Pollution Prevention Plan to control construction-related pollution.

Page 8

---

**FINANCING AND OTHER MEASURES NECESSARY TO CARRY OUT THE PLAN**

<table>
<thead>
<tr>
<th>If plan proposes to take over certified private utility, describe how, when and financing will be managed.</th>
<th>Not applicable</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe any significant measure necessary to carry out the plan, e.g., institutional, financial, economic, etc.</td>
<td>The NVOG will fund construction of the Regional Sanitary Sewer and dedicate it to LPSCo to own and operate.</td>
<td>Appendix F</td>
</tr>
<tr>
<td>Provide financial information to assure DMA has financial capability to operate and maintain wastewater system over its useful life</td>
<td>LPSCo has provided its current financial statements.</td>
<td>Appendix F</td>
</tr>
<tr>
<td>Describe proposed method(s) of community financing.</td>
<td>No community financing involved.</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Provide a time line outlining period of time necessary for carrying out plan implementation.</td>
<td>The Regional Sanitary Sewer is under construction and is expected to be completed in April 2006.</td>
<td>Page 7</td>
</tr>
<tr>
<td>Provide financial information indicating the method and measures necessary to achieve project financing. (Section 201 CWA or Section 604 may apply.)</td>
<td>The NVOG will fund construction of the Regional Sanitary Sewer and dedicate it to LPSCo to own and operate.</td>
<td>Page 9</td>
</tr>
</tbody>
</table>

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**IMPLEMENTABILITY**

Describe impacts and implementability of Plan:

- Existing and planned facilities of LPSCo have the capacity to serve the expanded area. (Pages 6-7)
- No significant impacts

---

WOOD/PATEL
WP #042077
August 10, 2003
Revised February 17, 2006
Draft 2004 Amendment
Service Area Expansion for the LPSCo
Palo Alto & Saratoga Water Reclamation Facilities
If a municipal wastewater (WWT) system is proposed, describe how WWT service will be provided until the municipal system is completed. I.e., will package plants and septic systems be allowed and under what circumstances. (Interim services)  

<table>
<thead>
<tr>
<th></th>
<th>Not applicable</th>
<th>Not applicable</th>
</tr>
</thead>
</table>

**PUBLIC PARTICIPATION**

<table>
<thead>
<tr>
<th>Description</th>
<th>Satisfaction Method</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit copy of mailing list used to notify the public of the public hearing on the 208 amendment. (40 C.F.R., Chapter 1, Part 25.5)</td>
<td>Public participation will be satisfied through the MAG 208 Plan Amendment Process.</td>
<td>10</td>
</tr>
<tr>
<td>List location where documents are available for review at least 30 days before public hearing</td>
<td>Public participation will be satisfied through the MAG 208 Amendment Process.</td>
<td>10</td>
</tr>
<tr>
<td>Submit copy of the public notice of the public hearing as well as an official affidavit of publication from the area newspaper. Clearly show the announcement appeared in the newspaper at least 45 days before the hearing.</td>
<td>Public participation will be satisfied through the MAG 208 Amendment Process.</td>
<td>10</td>
</tr>
<tr>
<td>Submit affidavit of publication for official newspaper publication.</td>
<td>Public participation will be satisfied through the MAG 208 Amendment Process.</td>
<td>10</td>
</tr>
<tr>
<td>Submit responsiveness summary for public hearing.</td>
<td>Public participation will be satisfied through the MAG 208 Amendment Process.</td>
<td>10</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>LPSCo</td>
<td>Litchfield Park Service Company</td>
<td></td>
</tr>
<tr>
<td>MAG</td>
<td>Maricopa Association of Governments</td>
<td></td>
</tr>
<tr>
<td>NVDG</td>
<td>Northwest Valley Development Group</td>
<td></td>
</tr>
<tr>
<td>CC&amp;N</td>
<td>Certificate of Convenience and Necessity</td>
<td></td>
</tr>
<tr>
<td>APP</td>
<td>Aquifer Protection Permit</td>
<td></td>
</tr>
<tr>
<td>ACC</td>
<td>Arizona Corporation Commission</td>
<td></td>
</tr>
<tr>
<td>DMA</td>
<td>Designated Management Agency</td>
<td></td>
</tr>
<tr>
<td>MGD</td>
<td>Millions of gallons per day</td>
<td></td>
</tr>
<tr>
<td>EDU</td>
<td>Equivalent dwelling unit (used to describe the sewage flows in terms of dwelling units)</td>
<td></td>
</tr>
<tr>
<td>POTW</td>
<td>Publicly Owned Treatment Works</td>
<td></td>
</tr>
</tbody>
</table>
1.0 20-YEAR NEEDS ASSESSMENTS

1.1 General Background and Project History

Litchfield Park Service Company (LPSCo) is a privately-owned and operated wastewater operator providing wastewater collection and treatment service for all of the City of Litchfield Park and portions of Avondale, Glendale, Goodyear and unincorporated Maricopa County. The general area is shown in Exhibit 1. LPSCo’s facilities, plans, and service area are described in the MAG 208 Water Quality Management Plan, October 2002, a section of which is contained in Appendix B. The existing service area for the Palm Valley and Sari-at Water Reclamation Facilities is shown in Exhibit 2. While not a Designated Management Agency itself, LPSCo operates in the areas of the agencies mentioned above with their cooperation and to their benefit. The City of Glendale, Town of Buckeye, and Maricopa County are requesting that the MAG 208 Plan be amended to include the service area expansion for the LPSCo Palm Valley and Sari-at Water Reclamation Facilities. Other municipalities within three miles of the service area expansion (Goodyear and Surprise) have provided letters stating that they have no objection to the proposed amendment.

This 208 Plan Amendment provides for expansion of the LPSCo service area for the Palm Valley and Sari-at Water Reclamation Facilities, which will receive wastewater from the proposed LPSCo Regional Sanitary Sewer. The expanded service area would include portions of the Glendale and Buckeye municipal planning areas and unincorporated areas of Maricopa County. This new gravity sewer line was proposed in the White Tank Mountain Regional Sewer Study, contained in Appendix C, and is needed to serve several planned communities that will not be served by other systems in the general area and are most effectively served by the LPSCo system.

1.2 Existing Service Area

Litchfield Park Service Company (LPSCo) currently provides wastewater collection and treatment service to all of the City of Litchfield Park and portions of Avondale, Glendale, Goodyear and unincorporated areas of Maricopa County. The LPSCo service area is predominately made up of master planned communities such as Palm Valley, Pebble Creek, and Litchfield Greens. That service area is shown in Exhibit 2.
1.3 Existing Facilities

The existing facilities include the Palm Valley Wastewater Reclamation Facility (PVWRF), located at 14222 W. McDowell Road, which was constructed and placed into service in February 2001. LPSCo is currently preparing an Aquifer Protection Permit amendment for the expansion of PVWRF from 4.1 to 8.2 MGD (see Appendix D). This facility was designed to serve all residential and commercial development from McDowell Road on the south to Camelback Road on the north and from Bullard Avenue on the west to Dysart Road on the east (Exhibit 2).

1.4 Previously Planned Facilities

1.4.1 Collection System

This proposed amendment does not detail any existing collection system components in the LPSCo system since they will not be affected by the proposed expansion.

1.4.2 Pumping Facilities

LPSCo has completed the construction of the Sarival Lift Station, which will provide interim pumping capacity to the PVWRF from the northwest service area until such time that flows increased to a level that would support startup and continuous operation of a second treatment facility, the Sarival Wastewater Reclamation Facility (SWRF). Both the Sarival Lift Station and SWRF proposed location are shown on Exhibit 3. The basis for this plan is described in the earlier August 2000 208 Plan Amendment, found in Appendix A. The initial design and first phase construction of the Sarival Lift Station is designed to provide the following pumping capacity:

- Average Daily Flow 2.0 MGD
- Peak Day Flow 4.2 MGD
- Peak Hour Flow 6.5 MGD

The lift station facility includes the following features, all existing at the current time:
• One 30,000 gallon sub-grade concrete wet well
• Three 1,500 GPM submersible raw sewage pumps and ancillary control equipment
• One 125 KVA – Standby power generator
• One Positive Displacement Passive Odor Scrubbing Unit
• One 24-inch by-pass sewer to the City of Goodyear
• One 36-inch RCP inlet piping
• One 16-inch DI discharge piping (to PVWRF)

The initial construction phase of the Sarival Lift Station will provide sewer service for up to 6,250 residential units by diverting up to 2.0 MGD average daily flow to the PVWRF through a newly constructed 16-inch ductile iron force main. Once the trigger flow rate of 1.2 MGD is reached at this facility, construction will begin on the first phase (4.1 MGD) of the SWRF.

1.4.3 Treatment Facilities
The SWRF will be located west of Sarival Road on the south side of McDowell Road and is planned to treat all residential and commercial sewer flows west of Pebble Creek Parkway between McDowell Road to the south and Bethany Home Road to the north; see Exhibit 3. This facility was previously approved through the 208 Plan Amendment dated August 2000, which is contained in Appendix A.

1.4.4 Facility Capacity
Both the Palm Valley WRF and Sarival WRF will be constructed in two general phases. The Palm Valley facility Phase I will have an average day capacity of 4.1 MGD with a second phase expansion to 8.2 MGD. The Sarival facility will have a Phase I average day capacity of 4.1 MGD and a full build out capacity of 8.2 MGD. The two new wastewater treatment facilities will be capable of treating the projected wastewater flows from the existing LPSCO service area with a 38% reserve capacity for projection limitations and modifications from the assumed modeling land uses, as reported in the August 2000 208 Amendment (Appendix A). The projected wastewater flows will be divided between the two wastewater treatment plants and development of certain areas will dictate actual
facility construction and expansion schedules. The following summarizes the proposed treatment plant capacities and anticipated construction time frames:

<table>
<thead>
<tr>
<th>Treatment Plant</th>
<th>Annual Average Day Treatment Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Phase I (year)</td>
</tr>
<tr>
<td>Palm Valley WRF</td>
<td>4.1 MGD (2001)</td>
</tr>
<tr>
<td>Sarival WRF</td>
<td>4.1 MGD (2006)</td>
</tr>
<tr>
<td></td>
<td>Total</td>
</tr>
</tbody>
</table>

The capacity available for the proposed expansion equals 6.23 MGD (0.38 x 16.4). The current capacity of the Palm Valley WRF is 4.1 MGD. The Sarival WRF is yet to be constructed.

1.4.5 Water Reclamation Facility Description

The Palm Valley and Sarival WRF’s treatment process is to be based on biological oxidation by the extended aeration activated sludge process. Both treatment plants will include screening, grit removal, anoxic/aerobic biological nutrient removal, Ultra-Violet (UV) disinfection, and disk filtration. The treatment process will utilize anoxic mixing, aerobic mixing, and static reaction capabilities to provide biological oxidation, nitrification, denitrification, and clarification within one reactor tank. To provide process redundancy and obtain a Phase I average-day capacity of 4.1 MGD, a minimum of two reactor tanks will be constructed. The Palm Valley WRF has been constructed utilizing the above treatment process and is fully operational at 4.1 MGD capacity.

Wastewater will be treated to exceed the current ADEQ Title 18 requirements for unrestricted irrigation re-use. Effluent disposal is accomplished through golf course and agricultural irrigation. There are currently four 18-hole golf courses served by LPSCo with four future courses planned and numerous public parks, which will be converted to reclaimed water irrigation. LPSCo plans to provide the reclaimed water at less cost than current groundwater or surface water prices. Effluent from the treatment facilities will be stored in golf course lakes and water feature amenities then distributed as needed for irrigation. It is estimated that the irrigation demand in the North Planning Area will not require as much reclaimed.
water as will be produced. Therefore, a secondary discharge system will be developed for both plants to allow for groundwater recharge of the underlying aquifer. An AZPDES permit will be required for the RID canal discharge proposed for the SWRF. Discussions are currently underway with the RID to identify the AZPDES Permit point of discharge for the SWRF. Raw wastewater is expected to be nearly 100% residential and light commercial. Industrial service connections will be required to comply with all pretreatment requirements.

Both facilities will generate waste sludge, which will be directed to an aerobic digestion process. The sludge digestion process will provide pathogen and vector attraction reduction equivalent to the EPA Title 40 CFR Art 503 regulations, which will result in a facility having the capability to produce Class A biosolids. Biosolids will be stored and sold or hauled to landfill for disposal. However, there will be an opportunity to use SWRF as a bio solids processing plant for both facilities once it is completed. This will reduce environmental impacts and aesthetic concerns in the vicinity of the PVWRF.

Operation and maintenance of the sewage system will be in accordance with LPSCo procedures. LPSCo will provide the services in accordance with the current regulations of the U.S. Environmental Protection Agency (EPA), Arizona Corporation Commission, the Arizona Department of Environmental Quality and Department of Water Resources, Maricopa County Environmental Services Department (MCESD), City of Goodyear, and any other regulatory agencies having jurisdiction.

Further details about the treatment processes, effluents, and biosolids handling are found in the August 2000 208 Amendment in Appendix A.

1.4.6 Pretreatment Requirements

The Code of Federal Regulations Part 403 Section 403.8 states "any POTW with a total design flow of 5 million gallons per day and receiving from industrial users pollutants which pass through or interfere with the operation of the POTW or are otherwise subject to pretreatment standards, will be required to establish a
pretreatment program". No industrial users are anticipated to discharge into the two wastewater treatment plants. Thus neither facility is required to comply with pretreatment requirements. If industrial users are added to the service area of either facility, a pretreatment program will be developed with the industrial user being subject to pretreatment standards as regulated by the EPA.

1.5 Population and Wastewater Flow Estimates

In the August 2000 208 Amendment four regional areas were used to define the total LPSCo service area. These four areas include the City of Goodyear’s Regional Analysis Zone (RAZ) 265, RAZ 266 (Litchfield Park), the Stardust Development service area, and the Wigwam Creek service area. These are illustrated in Exhibit 2. The layout of Regional Analysis Zones is shown in the figure in Appendix E. Appendix E also contains population projections drawn from the current MAG 208 Plan.

Estimates of dwelling units and resulting wastewater flows for the proposed service area expansion are shown in the first table below; the second table shows the basis used to determine the number of Equivalent Dwelling Units (EDU) for the different land types.

<table>
<thead>
<tr>
<th>Property</th>
<th>Area, ac</th>
<th>Residential Units</th>
<th>Commercial ac</th>
<th>Schools, number</th>
<th>EDU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Badley Center</td>
<td>20</td>
<td>0</td>
<td>18</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>Savannah</td>
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<td><strong>8364</strong></td>
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<tr>
<td></td>
<td>3.2 persons/household</td>
<td></td>
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<tr>
<td></td>
<td>4 household/acre</td>
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<tr>
<td></td>
<td>1000 students/school</td>
<td>3.9 per acre</td>
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Using the Maricopa County unit load criteria, the 9356 EDUs at ultimate build out of the proposed expansion area will generate 3 MGD average daily flow.
1.6 Newly-proposed Facilities
The LPSCo Regional Sanitary Sewer has been designed to serve the needs of the proposed expanded service area plus additional properties. The basis for design of this sewer is presented in the White Tank Mountain Regional Sewer Solution report found in Appendix C. Compared with the contributory area described in the White Tank Mountain Regional Sewer Solution report, the initial area that is contributing to construction is smaller because some of the properties are not participating in the current project. The reduction in initial flows will not reduce the effectiveness of the sewer to operate and function properly. The properties that will be served by the Regional Sanitary Sewer are shown in Exhibit 4.

The Sarival Lift Station was constructed and placed into service in June of 2005 and is currently functional. The planned Regional Sanitary Sewer line will connect to the Sarival Lift Station just north of the facility. The lift station and the future Sarival WRF are located southwest of the intersection of Sarival Avenue and McDowell Road in the City of Goodyear. The original design concept of the Sarival Lift Station is to provide interim pumping capacity to the Palm Valley Water Reclamation Facility (PV WRF) from the northwest service area until such time that flows increase to a level that support startup and continuous operation of the ultimate 8.2 MGD SWRF. At full build-out, the facility is planned to treat all residential and commercial sewer flows west of Pebble Creek Parkway between McDowell Road to the south and Bethany Home Road to the north (Exhibit 2).

The planned Regional Sanitary Sewer line is under construction and anticipated to be completed by in April 2006.

1.7 Permitting Requirements
The expansion of the service area under this amendment will not require any permits.

The Regional Sanitary Sewer line to serve the area has been issued a Permit to Construct from Maricopa County Environmental Services Department.
Construction activities for the sewer line will require a Stormwater Pollution Prevention Plan, which is in place and maintained by the Contractor doing the construction.

2.0 CONSTRUCTION

2.1 Construction, Operation, and Maintenance Responsibility

LPSCo will develop and implement the plan for the construction/expansion and operation of the Palm Valley WRF, the Sarival WRF, and the Sarival Lift Station and will be solely responsible for funding the projects.

The NVDG will undertake construction of the Regional Sanitary Sewer through their own funding by contributions. Upon completion and acceptance, the Regional Sanitary Sewer will become the property of LPSCo who will own, operate and maintain the Sewer.

2.2 Sources of Construction Pollution

The construction of the wastewater treatment plants will not be a significant source of pollution. Sources of pollution from the construction sites are expected to be from normal construction materials (i.e. concrete, lumber, paint, etc.), as well as fugitive dust and construction equipment exhaust emissions. Erosion control measures during construction and grading will be implemented to prevent potential storm water runoff to water bodies. The developer and contractor will be required to maintain a clean, safe working environment and to abide by all rules and regulations covering storage, use, and disposal of hazardous materials.

The construction of the Regional Sanitary Sewer will also not be a significant source of pollution. Sources of pollution from the construction sites are expected to be from fugitive dust and construction equipment exhaust emissions. Erosion control measures during construction and grading will be implemented to prevent potential storm water runoff to water bodies. The developer and contractor will be required to maintain a clean, safe working environment and to abide by all rules and regulations covering storage, use, and disposal of hazardous materials.
3.0 FINANCING AND OTHER ACTIONS TO IMPLEMENT PLAN

3.1 Financing Capability to Construction the Facilities
LPSCo has made financial plans for the construction and operation of the treatment plants. The new facilities will be constructed using private, tax exempt, and/or developer/development funds.

LPSCo will develop and implement the plan for the construction and operation of the Palm Valley WRF, the Sarival WRF and related services areas. LPSCo will be solely responsible for funding the project. Both facilities will be funded with moneys from LPSCo connection fees for new home construction and development. No financial constraints are expected for either of the treatment works.

LPSCo’s financial capability to undertake these projects is documented by the financial statements included in Appendix F.

The financial capability to construct the Regional Sanitary Sewer is documented in the letter from LPSCo, which is also included in Appendix F.

4.0 IMPACTS AND IMPLEMENTATION PLAN

4.1 Impacts of the Proposed Wastewater Treatment Plants
A detailed discussion of the impacts of the treatment facilities is contained in the August 2000 208 Amendment; refer to Appendix A for those details. Construction of the Regional Sanitary Sewer line and expansion of the service area will not change anything related to the impacts of those treatment facilities.

The existing Palm Valley WRF will initially alleviate excess wastewater flow to the City of Goodyear’s treatment facility by re-routing an average of 1.1 MGD currently conveyed to the City’s 157th Avenue WWTP. The need to discontinue this diversion plus the new flows from the NVDG projects will immediately trigger design of the SWRF.

Potential environmental issues include odor, noise, vectors and hazardous materials. Once completed, the SWRF may be utilized to process bio solids from the PVWRF,
potentially eliminating environmental and aesthetic issues associated with biosolids processing.

5.0 PUBLIC PARTICIPATION

As part of the MAG Water Quality Management Plan Amendment Process, MAG, with the cooperation of the City of Glendale, Town of Buckeye and Maricopa County, is responsible for ensuring that the following actions are implemented after submittal of the draft 208 Amendment:

- Notify all parties of a public hearing on the 208 Amendment by sending notices to interested parties at least 30 days prior to the public hearing. The notice will include the date, time, subject and location of the public hearing for the 208 Amendment.
- Notify public at least 45 days in advance of the public hearing by advertising in a publication. The notice will include the date, time, subject and location of the public hearing for the 208 Amendment.
- Notify public that draft amendments are available for public viewing 30 days before the hearing. This notice will include the location, days, and time of availability.
- Submittal of an affidavit of publication of the public notice.
APPENDIX A – August 2000 208 Plan Amendment

This Appendix contains the document portion of the August 2000 208 Amendment that set forth the treatment plans and service area for LPSCo. That Amendment was approved and is contained in the 208 Water Quality Management Plan, October 2002.

This document describes the treatment and pumping facilities planned by LPSCo and forms the background basis for information in support of this current amendment.
CLEAN WATER ACT - 208 AMENDMENT -

APPLICATION FOR
Maricopa Association of Governments

PREPARED FOR:
Litchfield Park Service Company
Water Reclamation Facility
&
City of Goodyear

PREPARED BY:
PACIFIC ADVANCED CIVIL ENGINEERING

AUGUST 2000
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<td>B. Impacts of Proposed WRF Plan</td>
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<td>C. Solution for Casitas Bonitas</td>
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## Appendix

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<td>Appendix A</td>
<td>Location and Site Maps</td>
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<td>Palm Valley WRF Process Design Criteria</td>
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<td>Appendix C</td>
<td>Effluent Reuse Water Balance Calculations</td>
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<td>Appendix D</td>
<td>Palm Valley Draft Construction Schedule</td>
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<td>Appendix E</td>
<td>LPS20 Financial Documentation and Palm Valley WRF Cost Est.</td>
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<td>Preliminary Wastewater Planning Study for SunCor and Litchfield Park Service Company (Black &amp; Veatch LLP 1996)</td>
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<td>Appendix G</td>
<td>Addendum Number 2 to Wastewater Master Plan Litchfield Master Planned Community (SMF Engineering 1997)</td>
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EXECUTIVE SUMMARY
August 30, 2000

Ms. Lindy Bauer, Environmental Program Director
Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, AZ 85003

RE: MAG 208 AMENDMENT – GOODYEAR, ARIZONA

Dear Ms. Bauer:

Enclosed is a proposed Amendment to the Maricopa Association of Governments (MAG) 208 Water Quality Management Plan point source plan element for the City of Goodyear and Litchfield Park Service Company (LPSCo). We are requesting the County’s review comments, and its formal support in this MAG 208 Amendment process.

The proposed amendment will update the plan for wastewater treatment facilities in the central and northern planning area within the City of Goodyear, and will provide additional needed capacity for SanCor, the master developer for most of the north area.

The WRF’s are located within three miles of Litchfield Park, Avondale, Glendale, El Mirage, Buckeye, and unincorporated Maricopa County. Support letters are attached from Avondale, Litchfield Park and Glendale.

Council approved the Amendment to MAG 208 Water Quality Management Plan for the addition of Phases I-FV (16.4 MGD total) of the Palm Valley and Sarival Avenue Water Reclamation Facilities (WRF) both located north of McDowell Road, subject to the AGREEMENT FOR MAG 208 AMENDMENT. The agreement, which is attached outlines the City’s consent of the revisions to be made to the 208 plan proposed by LPSCo. Part of the agreement however addresses conditions that LPSCo must meet in order to proceed with expansions to the Palm Valley facility (beyond the original 4.1 MGD construction) or construction of the Sarival Avenue facility.

A. The facility must meet State and Federal odor requirements.
B. The operation must meet State and Federal noise control requirements.
C. The facility must produce a Class A Sludge without violations of any State or Federal requirements.
D. Compliance with the Engineering Report prepared by Environmental Utilities International (also attached).
At such time as each phase of the facilities reaches an operating capacity of 3 million gallons per day (3 MGD), of each operating phase, without violation and in compliance with conditions A, B, C and 4 above, LPSCo may commence construction of the next phase. The City’s designated consultant shall determine, at each phase, whether LPSCo has complied with the requirements of this Agreement. The Consultant’s report of findings shall be submitted to City Council for approval prior to commencement of each phase.

The following are current WWTP’s and WRF and the proposed amendment for additional WRF’s in this area:

<table>
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<th>Existing 208 Plan</th>
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<td>Corgett Basin WRF</td>
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<td>Palm Valley WRF</td>
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<tr>
<td>n/a</td>
<td>Sarival Avenue WRF</td>
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Since, the newly proposed WRF’s are located within three miles of the unincorporated Maricopa County wastewater planning area. The City of Goodyear is requesting a written expression of support from the County, confirming that this Amendment will not conflict with any wastewater plans by the County.

We would appreciate a timely review and response so that we can initiate the MAG approval process. Please address your letter of support to my attention. If you have technical questions or comments, you may direct them to Steve Owen of Pacific Environmental Resources Corporation (PERC) at (602) 631-3905 ext. 405.

The City of Goodyear appreciates the County’s assistance with this matter.

Sincerely,

CITY OF GOODYEAR

Stephen S. Cleveland
City Manager

Enclosure

cc: Cato Esquivel, Jr., Public Works Director
    David W. Ellis, LPSCo
    Jay Ellingson, SunCor
    Reading File
    City Clerk
August 30, 2000

Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, Arizona 85003

Attention: Ms. Lindy Bauer, Environmental Program Coordinator
Re: City of Goodyear Proposed 208 Amendment for Litchfield Park Service Co. (LIPSCO), MCESD #TBD

Dear Ms. Bauer:

Pacific Advanced Civil Engineering (PACE) has submitted a proposed 208 Amendment to the Maricopa County Environmental Services Department (MCESD) for two (2) wastewater treatment facilities in the City of Goodyear for the LIPSCO service area. The service areas includes the City of Litchfield Park and adjacent areas between Perryville Road and 115th Avenue, and between McDowell Road and Glendale Avenue.

In accordance with the MAG 208 Water Quality Management Plan, the proposed 208 Amendment for the facility was submitted to this Department for comment, since the facility is located within three miles of the unincorporated area of Maricopa County.

Based on a review of the proposed 208 Amendment, dated June 2000, the Maricopa County Environmental Services Department, Water and Waste Management Division does not object to the proposed plants for the City of Goodyear and LIPSCO. However, several technical issues remain, which need to be resolved during the design phase of the project. Approval to construct and approval of construction must be obtained from this Department prior to start of construction and startup, respectively.

Maricopa County approved the Dreaming Summit Development, which is part of the proposed LIPSCO service area, with a condition that the existing Casitas Bonitas subdivision be connected to its sewage collection system. Maricopa County expects this provision to be honored. Accordingly, our support is contingent that the failing Casitas Bonitas wastewater treatment plant is abandoned as part of this project, and its customers are connected to the proposed LIPSCO system.
If you have any questions or comments, please feel free to contact Mr. Dale Bodiya, PE, or myself, at 506-6666.

Sincerely,

John A. Power, PE
Manager, Water and Waste Management Division

cc:
Mr. Albert F. Brown, RS, MPA, Director, MC Environmental Services Department
Mr. Dale Bodiya, PE, Manager, Water/Wastewater Treatment Section, MCESD
ADEQ, Manager, Water Permits and Plan Review Section
Steve Owen, PACE
City of Goodyear
Mr. Dave Ellis, General Manager, LIPSCO
File
July 20, 2000

Ms. Lindy Bauer
Environmental Program Director
Maricopa Association of Governments
302 N. 1st Avenue, Suite 300
Phoenix, AZ 85003

Re: MAG 208 Amendment – Goodyear, Arizona

Dear Ms. Bauer:

The Town of Buckeye is aware that the City of Goodyear is submitting an application requesting a Clean Water Act Section 208 Amendment to the Regional Water Quality Management Plan to accommodate two proposed water reclamation facility sites located in the North Planning Service Area of Goodyear. The first site, located near McDowell and Litchfield Roads, is sized for a total capacity of 8.2 MGD and the second site, near Sarival and McDowell Roads, is also sized for a capacity of 8.2 MGD.

The proposed 208 Amendment will update the plan for wastewater treatment facilities in the North Planning Area and will provide additional needed capacity for both Litchfield Park and the City of Goodyear.

The Town of Buckeye expresses its support for this 208 Amendment application. If you should have any questions, please do not hesitate to call me at 623/386-4691.

Sincerely,

Joseph Blanton, Town Manager

cc: David W. Ellis, LPSCO
Steve Cleveland, City of Goodyear
July 24, 2000

Ms. Lindy Bauer
Environmental Program Director
Maricopa Association of Governments
302 N. 1st Avenue, Suite 300
Phoenix, AZ 85003

Re: MAG 208 Amendment – Goodyear, Arizona

Dear Ms. Bauer:

The City of Avondale is aware that the City of Goodyear is submitting an application requesting a Clean Water Act Section 208 Amendment to the Regional Water Quality Management Plan to accommodate two proposed wastewater treatment facility sites located in the North Planning Service Area of Goodyear. The first site is located near McDowell and Litchfield Road and is sized for a total capacity of 8.2 MGD. The second site near Sarival Road and McDowell also is sized for a capacity of 8.2 MGD. It is our understanding that both facilities are to be constructed by the Litchfield Park Service Company (LPSCO).

The proposed 208 Amendment will update the plan for wastewater treatment facilities in the North Planning Area and will provide additional needed capacity for both Litchfield Park and the City of Goodyear.

The City of Avondale has no objection to these facilities and will support the 208 Amendment application as submitted by the City of Goodyear. Your assistance and timely review are appreciated. Please do not hesitate to contact me should you have any questions.

Sincerely,

Paul Adams
City Manager

cc: David W. Ellis, LPSCO
    Steve Cleveland, Goodyear City Manager
City of Litchfield Park

August 21, 2000

Ms. Lindy Bauer
Environmental Program Director
Maricopa Association of Governments
302 N. 1st Avenue, Suite 300
Phoenix, AZ 85003

Re: MAG 208 Amendment – Goodyear, Arizona

Dear Ms. Bauer:

The City of Litchfield Park is aware that the City of Goodyear is submitting an application requesting a Clean Water Act Section 208 Amendment to the Regional Water Quality Management Plan to accommodate two proposed water reclamation facility sites located in the North Planning Service Area of Goodyear. The first site is located near McDowell and Litchfield Road and is sized for a total capacity of 8.2 MGD and the second site, near Sával Road and McDowell, also is sized for a capacity of 8.2 MGD.

The proposed 208 Amendment will update the plan for wastewater treatment facilities in the North Planning Area and will provide additional needed capacity for both the Litchfield Park area and the City of Goodyear.

In concept, and after consultation with the City of Goodyear, the City of Litchfield Park does not object to the amendment to the 208 plan. To the extent that the City of Goodyear does not object to the plant site or to the proposed technology, we endorse the amendment. Our endorsement should not be viewed as an approval of Litchfield Park Service Company’s (LPSCO) development or financial planning. Therefore, this endorsement should not be used to justify future rate increases to the residents of Litchfield Park.

The City also objects to the expansion of the LPSCO service area to include the Dreaming Summit project, Wigwam Creek and Veranda, and we do not wish this endorsement to be viewed as support for this project.

Additionally, the City would like to keep open for future discussion the possibility of ownership in the wastewater treatment facility, as well as a requirement to return reclaimed water to Litchfield Park.
Ms. Lindy Bauer  
August 21, 2000  
Page 2 of 2

With the above conditions, and upon fulfillment of all stipulations requested by the City of Goodyear, we do not object to this 206 Amendment application. We look forward to working with both LPSCO and the City of Goodyear and would appreciate a timely review and response to facilitate the MAG approval process.

Sincerely,

[Signature]

Mayor

cc: David W. Ellis, Litchfield Park Service Company  
Steve Cleveland, Goodyear City Manager
July 7, 2000

David W. Ellis
General Manager
LPSCO
111 W. Wigwam Blvd, Suite B
Litchfield Park, Arizona 85340

Dear Sir:

This letter is in response to the letter you delivered to my office on July 7, 2000 regarding the new LPSCO Water Reclamation Facility in Goodyear, Arizona. After review and consideration, the City of Glendale has no objection to the plan you have proposed. You may be over three miles from our jurisdiction in which case you would not need our comments anyway. Even so, the City of Glendale would like to take this opportunity to wish you luck with your project and offer any assistance we can give in your planning or review process.

Sincerely,

Kenneth A. Reedy
Deputy City Manager, Public Works
July 17, 2000

Dave Ellis
Litchfield Park Service Company
111 W. Indian School Road
Litchfield Park, AZ 85340

RE: Sewer Service  Section 32  Goodyear, AZ

Dear Dave:

We support the installation of the new sewage treatment facility north of the freeway to service our property.

Sincerely,

Raymond H. Carter
Vice President
EXECUTIVE SUMMARY

The Maricopa Association of Governments (MAG) is the Designated Management Agency with the authority under Section 208(2)(b) of the Clean Water Act (CWA) to prepare the Regional Water Quality Management Plan for the Maricopa County Planning Area. The purpose of this application is to request a Clean Water Act Section 208 amendment to the current Regional Water Quality Management Plan. The requested amendments include:

Amendment Item #1:
The construction of a new LPSCo owned and operated 8.2 MGD Palm Valley water reclamation facility (WRF) on McDowell Road between Bullard Avenue and Litchfield Road in the City of Goodyear. The purpose of this new facility is for the reclamation of wastewater flows from the current Litchfield Park Service Company (LPSCo) service area and portions of the Regional Analysis Zone (RAZ) 265 and 266. The expanded service area for the Palm Valley WRF will have a general boundary from the I-10 freeway north past Camelback Road and west from Dysart Road to Bullard Avenue. Permits that will be required for the Palm Valley WRF will include an ADEQ Reuse Permit for irrigation of existing golf courses and parks as well as an APP permit for both reuse and recharge. In the event that not all effluent water can be reused and recharged a NPDES will be in place to allow a secondary point of discharge.

Amendment Item #2:
The construction of a new LPSCo owned and operated 8.2 MGD Sarival WRF at Sarival Avenue and McDowell Road in the City of Goodyear. The purpose of this new facility is for the reclamation of wastewater flows from the remaining portions of RAZ 265. The service area for the Sarival WRF will have a general boundary from the I-10 freeway north to Camelback Road and west from Bullard Avenue to Cotton Lane and sections between Cotton Lane and Perryville Road. Permits that will be required for the Sarival WRF will include an ADEQ Reuse Permit for irrigation of existing golf courses and parks as well as an APP permit for both reuse and recharge. In the event that not all effluent water can be reused and recharged a NPDES will be in place to allow a secondary point of discharge.

Several alternatives have been studied in addition to the construction of independent wastewater treatment plants for accommodation of increasing flows. The alternatives include:

Alternative 1:
LPSCo continued contribution of wastewater flow to the Goodyear 157th Avenue WWTP and purchase of additional capacity to be provided at the 157th Avenue WWTP.

Alternative 2:
Construction of a LPSCo wastewater treatment plant and sale of all interest in the City of Goodyear 157th Avenue WWTP.
Clean Water Act Section 208 Amendment  
Litchfield Park Service Co.  
August 28, 2000  
#7244

Alternative 3:
LPSCo continued contribution of wastewater flow to the Goodyear 157th Avenue WWTP and purchase of additional capacity and process upgrades to be provided at the 157th Avenue WWTP.

Alternative 4:
Deferred construction of a LPSCo wastewater treatment plant until the actual LPSCo wastewater contribution to the Goodyear 157th Avenue WWTP increases to 2.0 MGD.

Alternative 5:
Deferred construction of a LPSCo wastewater treatment plant until the actual LPSCo wastewater contribution to the Goodyear 157th Avenue WWTP increases to 1.4 MGD.

Construction of a LPSCo water reclamation plant was considered to be highly cost-effective in comparison to the continued contribution of wastewater to the Goodyear 157th Avenue WWTP. In their 1998 report, Black & Veatch, LLP determined that Alternative 2 of those listed above was the most economically beneficial.

This CWA 208 Amendment application provides information on the proposed independent LPSCo WRFs. The following sections describe how the Section 208 requirements are addressed including alternatives, permitting, pretreatment, sludge management, construction, financing, impacts, and public participation.

ABBREVIATIONS

ADEQ  Arizona Department of Environmental Quality  
ADWR  Arizona Department of Water Resources  
APP  Aquifer Protection Permit  
CFR  Code of Federal Regulations  
EPA  Environmental Protection Agency  
LPSCo  Litchfield Park Service Company  
MAG  Maricopa Association of Governments  
MGD  Million gallons per day  
MSDS  Material Safety Data Sheets  
O&M  Operations and maintenance  
P.A.C.E.  Pacific Advanced Civil Engineering, Inc.  
RAZ  Regional Analysis Zone  
WRF  Water Reclamation Facility  
WWTP  Wastewater Treatment Plant
CLEAN WATER ACT
SECTION 208 CHECKLIST SUMMARY
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<th>Summary of How Requirements are Addressed</th>
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<td>Proposed Designated Management Agency (DMA) shall self-certify that it has the authorities required by Section 208(2)(b) of the Clean Water Act to implement the plan for its proposed planning and service areas. Self-certification shall be in the form of a legal opinion by the DMA or entity agency.</td>
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<td>Clearly describe the existing wastewater treatment (WWT) facilities:</td>
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<tr>
<td>• Describe existing WWT facilities.</td>
<td>There are no existing WWTF facilities in the service area. LPSCO’s Current collection system conveys sewage to the i57” Avenue treatment plant located approximately 5.7 miles to the south of LPSCO service area.</td>
<td>10</td>
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<tr>
<td>• Show WWT certified and service areas for private utilities and sanitary district boundaries, if appropriate.</td>
<td>The two WRFs will serve the Goodyear North Planning area. The service area is located in the northern portion of the City of Goodyear, north of the I-10 freeway to Camelback Rd, west from Dysart Rd; to Perryville Rd.</td>
<td>Appendix A</td>
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<tr>
<td>Clearly describe alternatives, the recommended WWT plan, and factors that affect discharge:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Provide POPTAC population estimates (or COG-approved estimates only where POPTAC not available) over 20-year period.</td>
<td>Review of MAG population estimates based on Interim Socioeconomic Report – June, 1997 and calculations performed by Black &amp; Veatch. LLP 1998.</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>• Provide wastewater flow estimates over the 20-year planning period.</td>
<td>Flow projection based on MAG and Black &amp; Veatch population estimates.</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>• Illustrate the WWT planning and service areas.</td>
<td>The planning and service areas will include the Goodyear North Planning area. (RAZ265&amp;266)</td>
<td>Appendix A</td>
<td></td>
</tr>
<tr>
<td>• Describe the type and capacity of the recommended WRF.</td>
<td>Advanced tertiary treatment including screening, grit removal, nitrification/denitrification, chlorination, filtration, ozonation/UV disinfection. The facility will also include bio-solids processing to meet EPA 503 Class-A standards using aerobic digestion. The average daily capacity of each facility will be constructed in two phases. The Phase I capacity of each plant will be 4.1 MGD with a phase II capacity of 8.2 MGD.</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Clean Water Act Section 208 Amendment</td>
<td>August 28, 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------</td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Litchfield Park Service Co.</strong></td>
<td>#7214</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Identify water quality problems, consider alternative control measures, and recommend solution for implementation.**

  No water quality problems are expected to occur. The final effluent will meet current ADEQ open access and proposed ADEQ Class A+ reuse standards. An NPDES permit will be obtained for emergency treated water discharge to the Gila river basin.

  

| 10 |

- **If private WWT utilities with certificated areas are within the proposed regional service area; define who (municipal or private utility) serves what area and when. Identify whose sewer lines can be approved in what areas, when?**

  Litchfield Park Service Company currently owns and operates the sewage collection system in the proposed service area.

  

| 17 |

- **Describe method of effluent disposal and reuse sites (if appropriate).**

  Effluent will be stored in lined lakes and used to irrigate golf courses and parks with recharge of excess effluent. Permits that will be required for the WRF will include an ADEQ Reuse Permit for irrigation of existing golf courses and parks as well as an APP permit for both reuse and recharge. In the event that not all effluent water can be reused and recharged a NPDES will be in place to allow a secondary point of discharge.

  

| 17 |

- **Describe other wastewater treatment options that were considered.**

  Five alternatives were considered:
  
  **Alt. #1** - Stay with City of Goodyear WWTP & expand.
  **Alt. #2** - Construct new WRF(s) in the North Planning Area and sell 1.4 MGD capacity back to City of Goodyear.
  **Alt. #3** - Stay with City of Goodyear WWTP & use process upgrades and expansion for all LPSCo flows.
  **Alt. #4** - Purchase additional capacity at the City of Goodyear to 2.0 MGD, then construct a new WRF(s) in the North Planning Area for additional LPSCo flows.
  **Alt. #4** - Purchase additional capacity at the City of Goodyear to 2.0 MGD, then construct a new WRF(s) in the North Planning Area for additional LPSCo flows.

  

| 10 |

- **If Sanitary Districts are within a proposed planning or service area, describe who serves the Sanitary Districts and when.**

  Litchfield Park Service Company currently owns and operates the sewage collection system in the proposed service area.

  

| 17 |

- **Describe ownership of land proposed for plant sites and reuse areas.**

  The land proposed for use at both plant sites is owned by SunCor Development Co. & will be sold to LPSCo for the intended WRF use. Storage & reuse will occur on golf courses, parks and lake amenities.

  

| 13 |
- Address time frames in the development of the treatment works.
  
  The Palm Valley WRF consists of two phases of 4.1 MGD each. Phase I will be completed by 2001 with full build-out by 2016. The Sarival WRF consists of two phases of 4.1 MGD each. Phase I will be completed by 2006 with full build-out by 2020.

- Address financial constraints in the development of the treatment works.
  
  Both facilities will be funded with monies from LPSCo, connection fees for new home construction & development. No financial constraints are expected for either of the treatment works.

- Describe how discharges will comply with EPA municipal and industrial stormwater discharge regulations (Section 405, CWA).
  
  Neither treated or untreated wastewater will be discharged to Waters of the U.S. & site-specific storm water will be retained on site for up to 100-year storm events.

- Describe how open areas and recreational opportunities will result from improved water quality and how these will be used.
  
  The use of high quality effluent for irrigation will reduce the demand for groundwater. LPSCo plans to sell the reclaimed water to users at a lower cost than raw groundwater to facilitate reuse.

- Describe potential use of lands associated with treatment works and increased access to water-based recreation, if applicable.
  
  Not applicable.

---

### REGULATIONS

- Describe types of permits needed, including NPDES, APP and reuse.
  
  Both new WRFs will require Aquifer Protection Permits, 401 Water Quality Certification, Reclaimed Water Reuse Permits, NPDES & EPA 503 Sludge Reuse Permits.

- Describe restrictions on NPDES permits, if needed, for discharge and sludge disposal.
  
  The treated municipal wastewater point discharge from the WRFs will be used for emergency only and will not be for daily operations.

- Provide documentation of communication with ADEQ Permitting Section 30 to 60 days prior to public hearing regarding the need for specific permits.
  
  LPSCo has conducted pre-application meetings with Maricopa County Environmental Services & ADEQ.

- Describe pretreatment requirements and method of adherence to requirements (Section 208 b)(2)(d), CWA).
  
  Raw wastewater is expected to be nearly 100% residential & light commercial. Industrial service connections will be required to comply with all pretreatment requirements.
**Identify, if appropriate, specific pollutants that will be produced from excavations and procedures that will protect ground and surface water quality (Section 208(b)(2)(X) and Section 304, CWA).**

- Not applicable.

**Describe alternatives and recommendations in the disposal of sludge generated (Sections 405, CWA and 40 CFR 503).**

- Sludge will be treated on-site using processes to significantly reduce pathogens (PSRP) to meet the EPA Class A route requirements for sludge of exceptional quality (E5).

**Define any non-point issues related to the proposed facility and outline procedures to control them.**

- No non-point discharges are anticipated.

**Describe process to handle all mining runoff, orphan sites, and underground pollutants, if applicable.**

- Not applicable.

**If mining related, define where collection of pollutants has occurred, and what procedures are going to be initiated to contain contaminated areas.**

- Not applicable.

**If mining related, define what specialized procedures will be initiated for orphan sites, if applicable.**

- Not applicable.

**CONSTRUCTION**

**Define construction priorities and time schedules for initiation and completion.**

- The Palm Valley WRF consists of two phases of 4.1 MGD each. Phase I will be completed by 2001 with full build-out by 2010. The Survil WRF consists of two phases of 4.1 MGD each. Phase I will be completed by 2006 with full build-out by 2020.

**Identify agencies that will construct, operate, and maintain the facilities and otherwise carry out the plan.**

- Litchfield Park Service Company will construct, operate & maintain both WRFs.

**Identify construction activity-related sources of pollution and set forth procedures and methods to control, to the extent feasible, such sources.**

- Sources of pollution from the construction sites are expected to be from normal construction materials. (i.e. concrete, lumber, paint, etc.) The contractor will be required to maintain a clean, safe working environment & to abide by all rules & regulations covering storage, use & disposal of hazardous materials.
<table>
<thead>
<tr>
<th>FINANCING AND OTHER MEASURES NECESSARY TO CARRY OUT THE PLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>• If plan proposes to take over a certified private utility, describe how and when financing will be managed.</td>
</tr>
<tr>
<td>• Describe any significant measure necessary to carry out the plan (e.g., institutional, financial, economic, etc.)</td>
</tr>
<tr>
<td>• Describe proposed method(s) of community financing.</td>
</tr>
<tr>
<td>• Provide financial information to assure DMA has financial capability to operate and maintain wastewater system over its useful life.</td>
</tr>
<tr>
<td>• Provide a time line that outlines the period of time necessary for carrying out plan implementation.</td>
</tr>
<tr>
<td>• Provide financial information indicating the method and measures necessary to achieve project financing (Section 201 CWA or Section 604 may apply).</td>
</tr>
</tbody>
</table>

**IMPLEMENTATION**

Describe impacts and implementation requirements of the plan:

- Describe impacts on existing WWTFs (e.g., Sanitary districts, infrastructure/facilities, and certificated areas). The re-routing of 1.1 MGD to the new Palm Valley WRF will impact the City of Goodyear's 157th Ave. WWTP. LPSCo will be selling 1.0 MGD of their current 1.4 MGD capacity allocation back to the City of Goodyear. These impacts will be positive for the city operations allowing Goodyear time to upgrade and expand the 15th Ave. facility. | 20 |
<table>
<thead>
<tr>
<th>Description</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe how and when existing package plants will be connected to a regional system.</td>
<td>Not Applicable. There are no existing package plants in the LPSCo service area.</td>
</tr>
<tr>
<td>Describe the impact on communities and businesses affected by the plan.</td>
<td>No significant impacts to the surrounding community or businesses are expected from the implementation of the amended plan.</td>
</tr>
<tr>
<td>If a municipal WWT system is proposed, describe how WWT service will be provided until the municipal system is completed (i.e., will package plants and septic systems be allowed and under what circumstances; interim services).</td>
<td>Not Applicable for the Palm Valley WRF. The Sarival WRF service area will continue to flow to the 157th Ave. plant until LPSCo’s remaining 0.4 MGD capacity is exhausted. At which time, the Phase 1 Sarival WRF will be constructed.</td>
</tr>
</tbody>
</table>

### PUBLIC PARTICIPATION

<table>
<thead>
<tr>
<th>Activity</th>
<th>Public Participation will be satisfied through the MAG amendment process.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit copy of mailing list used to notify the public of the public hearing on the 708 amendments. (40 CFR, Chapter 1, part 25.5)</td>
<td>2.</td>
</tr>
<tr>
<td>List location where documents are available for review at least 30 days before public hearing.</td>
<td>21.</td>
</tr>
<tr>
<td>Submit copy of the public notice of the public hearing as well as an official affidavit of publication from the area newspaper. Clearly show the announcement appeared in the newspaper at least 45 days before the hearing.</td>
<td>21.</td>
</tr>
<tr>
<td>Submit affidavit of publication for official newspaper publication.</td>
<td>21.</td>
</tr>
<tr>
<td>Submit responsiveness summary for public hearing.</td>
<td>21.</td>
</tr>
</tbody>
</table>
20 YEAR NEEDS
20-Year Needs

The Maricopa Association of Governments (MAG) is the Designated Management Planning Agency with the authority under Section 208(2)(b) of the Clean Water Act to prepare the Regional Water Quality Management Plan for the Maricopa County Planning Area. The purpose of this application is to request a Clean Water Act Section 206 amendment to the current Regional Water Quality Management Plan. The requested amendments include:

Amendment Item #1:
The construction of a new LPSCo owned and operated 8.2 MGD Palm Valley water reclamation facility (WRF) on McDowell Road between Bullard Avenue and Litchfield Road in the City of Goodyear. The purpose of this new facility is for the reclamation of wastewater flows from the current Litchfield Park Service Company (LPSCo) service area and portions of the Regional Analysis Zone (RAZ) 265 and 266. The expanded service area for the Palm Valley WRF will have a general boundary from the I-10 freeway north past Camelback Road and west from Dysart Road to Bullard Avenue. Permits that will be required for the Palm Valley WRF will include an ADEQ Reuse Permit for irrigation of existing golf courses and parks as well as an APP permit for both reuse and recharge. In the event that not all effluent water can be reused and recharged a NPDES will be in place to allow a secondary point of discharge.

Amendment Item #2:
The construction of a new LPSCo owned and operated 8.2 MGD Sarival WRF at Sarival Avenue and McDowell Road in the City of Goodyear. The purpose of this new facility is for the reclamation of wastewater flows from the remaining portions of RAZ 265. The service area for the Sarival WRF will have a general boundary from the I-10 freeway north to Camelback Road and west from Bullard Avenue to Cotton Lane and sections between Cotton Lane and Perryville Road. Permits that will be required for the Sarival WRF will include an ADEQ Reuse Permit for irrigation of existing golf courses and parks as well as an APP permit for both reuse and recharge. In the event that not all effluent water can be reused and recharged a NPDES will be in place to allow a secondary point of discharge.

LPSCo has a current allocation of 1.4 MGD capacity at the City of Goodyear 157th Avenue WWTP. It is estimated that the sewer generation from the LPSCo service area will exceed the current 1.4 MGD capacity allocation beginning in the year 2001. To accommodate existing and future flows, two new wastewater treatment plants are proposed. The proposed LPSCo wastewater treatment plants are the Palm Valley and Sarival WRFs. Combined, the new treatment facilities will provide tertiary wastewater treatment and reclamation for all of the sewage generated in RAZ 265, 266 and two additional developments outside these planning areas (Wigwam Creek and Stardust Developments).

The Palm Valley WRF will be designed and constructed in two phases. Phase I will have an average daily capacity of 4.1 MGD and a full build-out capacity of 8.2 MGD. Preliminary engineering design of Phase I has begun. The facility is expected to be complete and operational by December 2001.
To conserve time, LPSCo has opted for a design/build approach for the initial phase of this facility. The second phase expansion is anticipated to occur after approximately 2012. The initial flow to the Palm Valley facility will come from diversion of the current 1.1 MGD LPSCo flow to the City of Goodyear’s 157th Avenue plant. As part of the original service agreement with the City of Goodyear, LPSCo has the right to sell part of or all of its 1.4 MGD capacity back to the city. At the completion of Phase I of the Palm Valley facility, LPSCo will sell 1.0 MGD of the 1.4 MGD capacity in the 157th Avenue plant back to the City of Goodyear.

This capacity will allow the City of Goodyear time to upgrade and expand their existing facilities to accommodate future flows from the Central Planning area (RAZ 280 and 281) and will provide a minimum of 0.4 MGD capacity surplus for LPSCo at the 157th Avenue plant.

After Phase I completion of the Palm Valley WRF, the second plant will be designed and constructed. This second facility will be constructed near the intersection of Sarival Avenue and McDowell Road. The Sarival WRF will also be designed and constructed in two phases. Phase I will have an average day capacity of 4.1 MGD with a build-out capacity of 8.2 MGD. The first phase of construction for this facility is anticipated to occur in approximately 2006. Until that time, current and near-future flows will use the existing 0.4 MGD surplus LPSCo capacity at the City of Goodyear 157th Avenue treatment plant. Phase II construction is anticipated to occur after 2016.

The following sub-sections describe the proposed wastewater treatment plants, alternatives, and regulatory requirements for implementation.

A. Description of Existing Wastewater Treatment Facilities

There are no existing wastewater treatment facilities in RAZ 265 or 266 to accommodate the increasing wastewater generation from the LPSCo service area. Currently, wastewater from the LPSCo service area is routed approximately 5.7 miles to the City of Goodyear 157th Avenue WWTP. Because the wastewater generation from the LPSCo service area is approaching the current capacity agreement of 1.4 MGD, LPSCo proposes to construct new water reclamation plants in their service area. The addition of these facilities will reduce the overall capital and operational costs for current and future LPSCo customers by eliminating the need for 6 miles of additional trunk sewer and lift stations. In addition, consumers will benefit from the reduced cost of reclaimed water, which will be processed much closer to the point of reuse.

B. Summary of Alternatives

Five alternatives have been considered to evaluate the treatment of increasing wastewater flows from the LPSCo service area. Black & Veatch, LLP prepared a study of these alternatives in July 1998. A copy of the Preliminary Wastewater Planning Study for SunCor and Litchfield Park Service Company is included in appendix F of this amendment application for further review. The following alternatives were studied:
Alternative 1:
LPSCo continued contribution of wastewater flow to the Goodyear 157th Avenue WWTP and purchase of additional capacity to be provided at the 157th Avenue WWTP.

Alternative 2:
Construction of a LPSCo wastewater treatment plant in the North Planning Area and sale of all interest in the City of Goodyear 157th Avenue WWTP.

Alternative 3:
LPSCo continued contribution of wastewater flow to the Goodyear 157th Avenue WWTP and purchase of additional capacity and process upgrades to be provided at the 157th Avenue WWTP.

Alternative 4:
Deferred construction of a North Planning Area wastewater treatment plant until the LPSCo wastewater contribution to the Goodyear 157th Avenue WWTP increases to 2.0 MGD.

Alternative 5:
Deferred construction of a North Planning Area wastewater treatment plant until the LPSCo wastewater contribution to the Goodyear 157th Avenue WWTP increases to 1.4 MGD.

A more thorough evaluation of these alternatives is presented in the Preliminary Wastewater Planning Study for SunCor and Litchfield Park Service Company (Black & Veatch report) provided in Appendix F. This 208 Amendment application is based on the same alternatives presented in the Black & Veatch report with the exception that Alternatives #2, #4 and #5 analyzed construction of a single facility and did not provide analysis for the construction of two “twin” plants. The capacities and locations of the two proposed LPSCo water reclamation facilities are the same as identified in the collection system study as the connection points for outfalls to the City of Goodyear 157th Avenue WWTP. In Black & Veatch’s report, Alternative #2 was the recommended alternative from both a capital cost and long-term operational cost analysis. This proposed MAG 208 Amendment is based on Alternative #2 with the exception of the development of twin reclamation facilities. The following paragraphs summarize the five alternatives studied by Black & Veatch in 1998.
Alternative 1 – Continued Participation in Goodyear WWTP

Alternative 1 is based on the continued conveyance of LPSCo wastewater flow to the City of Goodyear 157th Avenue WWTP. Currently, wastewater from the LPSCo service area is conveyed through the Sarival Avenue 24" interceptor sewer. Sewage flows are anticipated to exceed the 24" sewer capacity by 2003. Thus, construction of additional sewer pipelines (approximately 5.7 miles of pipe) and the purchase of additional pipeline capacity from other parties would be required to handle ultimate flows from the service area. In addition, LPSCo would be required to fund or purchase additional treatment capacity at the City of Goodyear 157th Avenue WWTP.

This alternative also requires the construction of effluent pumping facilities and 5.7 miles of transmission mains from the city’s treatment facility to the LPSCo service areas for irrigation. This alternative has the highest capital, O&M, and present value costs of any of the other alternatives.

Alternative 2 – Construction of a LPSCo WRF

Alternative 2 provides for the design and construction of a LPSCo wastewater treatment plant in the North Planning Area and the sale of all capacity at the 157th Avenue plant. The existing 1.4 MGD capacity at the 157th Avenue WWTP would be provided in the new facility(s) located in the Northern Planning Area (RAZ 265 and 266). Because of the cost of maintenance and operations of the Goodyear facility and the replacement cost of the 1.4 MGD capacity in the 157th Avenue facility, the cost of this alternative was the lowest of all of the alternatives evaluated, but only slightly lower than Alternatives 4 and 5.

Alternative 3 - Continued Participation in Goodyear WWTP with Process Upgrades

This alternative is similar to Alternative 1 except that the existing City of Goodyear 157th Avenue WWTP aeration and filtration processes would be optimized to provide an increase in treatment capacity from 3.0 MGD to 8.0 MGD. It was estimated the upgrade and expansion would cost approximately $14 million to $16 million. The upgrade would allow LPSCo to obtain a total capacity of 3.0 MGD at the city’s treatment facility until the year 2008. At that time, an additional 5.2 MGD capacity would be required to handle additional wastewater flows from the LPSCo service area.

This alternative is less expensive than Alternative 1, but significantly more expensive than Alternatives 2, 4 and 5.
Alternative 4 – Participation in Goodyear WWTP to 2.0 MGD; then construction of a LPSCo WRF

Alternative 4 is similar to the recommended alternate to construct a LPSCo wastewater treatment plant in the North Planning Area (Alternate 2). They differ in that the construction of the LPSCo plant(s) would be delayed for approximately 3 years (2003). LPSCo currently has 2.0 MGD of capacity in the Sarival Avenue 24” interceptor sewer. Because LPSCo has a treatment capacity allocation of only 1.4 MGD at the City of Goodyear 157th Avenue WWTP, an additional 0.6 MGD of treatment capacity is required to fully maximize the trunk sewer capacity. LPSCo could fund the additional treatment capacity as stated above in Alternative 3.

This alternative has only slightly higher capital cost as compared to Alternative 2 because it maximizes the use of the existing Sarival Avenue 24” interceptor sewer.

Alternative 5 - Participation in Goodyear WWTP to 1.4 MGD; then construction of a LPSCo WRF

Alternative 5 is similar to Alternative 4 with the exception that wastewater flow from the LPSCo service area will be conveyed to the 157th Avenue WWTP at the LPSCo maximum allocated treatment capacity of 1.4 MGD. As in Alternative 4, the construction of the proposed North Planning Area treatment plant(s) would be delayed 1 to 2 years. The current flow from the LPSCo service area is 1.1 MGD and is expected to exceed the maximum allocated treatment capacity of 1.4 MGD by the year 2001.

Alternative 5 is similar in cost to Alternative 4 but substantially less than Alternatives 1 and 3.

C. Discussion of the Proposed Construction of Two New LPSCo WRFs

1. Site Location and Property Ownership

The proposed wastewater treatment plants will be constructed in City of Goodyear, Maricopa County, Arizona. Figure 2 in Appendix A illustrates the proposed location of the two treatment facilities. Both the Palm Valley WRF and the Sarival WRF will be constructed on property currently owned by SanCor Development Company. The property will be sold to Litchfield Park Service Company for the purpose of maintaining and operating the two facilities. The Palm Valley WRF will be located on McDowell Road between Ballard Avenue and Litchfield Road. The Sarival WRF will be located near the intersection of Sarival Avenue and McDowell Road.
2. Population Estimates

For the purpose of this amendment, four regional areas are used to define the total LPSCo service area. These four areas include the City of Goodyear’s Regional Analysis Zone (RAZ) 265, RAZ 266 (Litchfield Park), the Stardust Development service area, and the Wigwam Creek service area. For planning purposes, these areas are expected to contribute wastewater flow to the two proposed wastewater treatment plants. Figure 1 in Appendix A illustrates the areas that make up the complete LPSCo service area.

The following table summarizes the population projection for each of the four service areas in the LPSCo service area through the year 2020. The population numbers presented for RAZ 265 and 266 are taken from the MAG Socioeconomic Projects Interim Report (June, 1997). The Stardust Development and the Wigwam Creek Development service areas were assumed to be excluded from the RAZ 265 and 266 population numbers and are taken from separate sewer conveyance studies by SMF Engineering and Black & Veatch LLP.

<table>
<thead>
<tr>
<th>Year</th>
<th>RAZ 265</th>
<th>RAZ 266 (Litchfield Park)</th>
<th>Stardust Development</th>
<th>Wigwam Creek Development</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>8,671</td>
<td>4,876</td>
<td>3,011</td>
<td>3,746</td>
<td>20,304</td>
</tr>
<tr>
<td>2005</td>
<td>11,336</td>
<td>6,517</td>
<td>6,500</td>
<td>7,200</td>
<td>31,553</td>
</tr>
<tr>
<td>2010</td>
<td>14,410</td>
<td>8,452</td>
<td>8,600</td>
<td>10,700</td>
<td>42,162</td>
</tr>
<tr>
<td>2015</td>
<td>20,493</td>
<td>12,361</td>
<td>Built-out</td>
<td>Built-out</td>
<td>52,354</td>
</tr>
<tr>
<td>2020</td>
<td>30,139</td>
<td>14,688</td>
<td>Built-out</td>
<td>Built-out</td>
<td>64,127</td>
</tr>
</tbody>
</table>

1 Source: June 1997 MAG Socioeconomic Projects Interim Report.
2 Calculated by P.A.C.E. Full build-out AAD flows were taken from the Draft Stardust/Wigwam Creek Conveyance and Treatment Study. Full build-out for Stardust and Wigwam Creek was assumed for the years between 2008 and 2010. Calculation assumptions: Unit flows of 100 gpcd and a 50% population increase every five years.

Future wastewater flows were studied in Addendum Number 2 to the Wastewater Master Plan Litchfield Master Planned Community (SMF Report) that was prepared by SMF Engineering Corporation in January 1998. Black & Veatch prepared the Preliminary Wastewater Planning Study for SunCor and Litchfield Park Service Company in July 1998. The SMF Report only provides full build-out wastewater flow projections. The Black & Veatch report used the full build-out wastewater flow projections from the SMF Report and calculated the flow projections over time. The following table summarizes wastewater estimates based on MAG and Black & Veatch population estimates:
The wastewater flow projections from the Black & Veatch Report generally have a higher annual average daily flow than the MAG interim projections. For the purpose of this amendment and future planning, the Black & Veatch population numbers are assumed to be more accurate because the Black & Veatch report was specific to the Goodyear North Planning Area where as the MAG projections are based on countywide modeling.

3. Water Reclamation Facility Description

The Palm Valley and Sarival WRFs will be based on biological oxidation by the activated sludge process. Both treatment plants will include screening, grit removal, anoxic/aerobic biological nutrient removal, ozone disinfection, and multi-medium filtration. The treatment process will utilize anoxic mixing, aerobic mixing, and static reaction capabilities to provide biological oxidation, nitrification, denitrification, phosphorous removal, and clarification within one reactor tank. To provide process redundancy and obtain a Phase I average-day capacity of 4.1 MGD, a minimum of two reactor tanks will be constructed.

Wastewater will be treated to exceed the current ADEQ Title 18 requirements for unrestricted irrigation re-use. There currently are four 18-hole golf courses served by LPSCo with four future courses planned and numerous public parks, which will be converted to reclaimed water irrigation. LPSCo plans to provide the reclaimed water at less cost than current groundwater or surface water prices. Effluent from the treatment facilities will be stored in lined golf course lakes and water feature amenities then distributed as needed for irrigation. It is estimated that the irrigation demand in the North Planning Area will not require as much reclaimed water as will be produced, therefore a secondary discharge system will be developed for both plants to allow for groundwater recharge of the underlying aquifer. A summary of water balance calculations for each phase of expansion is presented in the Appendix of this application.

Both facilities will generate waste sludge, which will be directed to an aerobic digestion process. The sludge digestion process will provide pathogen and vector attraction reduction equivalent to the EPA title 40 CFR art 503 regulations for Class A biosolids. Biosolids will be stored and sold or hauled to landfill for disposal.
a) Facility Capacity

Both the Palm Valley WRF and Sarival WRF will be constructed in two general phases. The Palm Valley facility Phase I will have an average day capacity of 4.1 MGD with a second phase expansion to 8.2 MGD. The Sarival facility will have a Phase I average day capacity of 4.1 MGD and a full build-out capacity of 8.2 MGD. The two new wastewater treatment facilities will be capable of treating the projected wastewater flows from the LPSCo service area with a 38% reserve capacity for projection errors and modifications from the assumed modeling land uses. The projected wastewater flows will be divided between the two wastewater treatment plants and development of certain areas will dictate actual facility construction and expansion schedules. The following summarizes the proposed treatment plant capacities and anticipated construction time frames:

<table>
<thead>
<tr>
<th>Treatment Plant</th>
<th>Annual Average Day Treatment Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Phase I (year)</td>
</tr>
<tr>
<td>Palm Valley WRF</td>
<td>4.1 MGD (2001)</td>
</tr>
<tr>
<td>Sarival WRF</td>
<td>4.1 MGD (2006)</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>

b) Facility Location

The proposed locations of the two treatment plants were based on information provided in the Addendum Number 2 to Wastewater Master Plan Litchfield Master Planned Community prepared by SMF Engineering in January 1998 (SMF report). The SMF report is provided in Appendix G for reference. The report evaluated the projected wastewater flows for build-out conditions of the Goodyear North Planning Area and the proposed locations of collection sewers. The report identified two trunk sewer connection locations for conveying wastewater from the North Planning Area to the City of Goodyear 157th Avenue WWTP. The entire North Planning Area could be served by a combination of the existing lift stations and gravity collection sewers with major additions to the two main trunk sewers (approximately 5.7 miles of sewer). These two trunk connections are in the general location of the proposed wastewater treatment facilities.

Currently, wastewater from the eastern portion of the LPSCo service area flows to a junction point near the intersection of Litchfield Road and McDowell Road. From this location, the wastewater is pumped to another lift station at Bullard Avenue and McDowell Road. Additional wastewater flows from the remainder of the LPSCo service area are collected at this lift station and pumped west of the RID Canal and then by gravity to an outfall located at the intersection of Sarival Avenue and McDowell Road. From this point, all wastewater is conveyed to the City of Goodyear 157th Avenue WWTP.
The proposed Palm Valley WRF has been located to eliminate both existing lift station. The flows to the Palm Valley WRF will be by gravity and new gravity trunk line will be built on McDowell Road between the two old lift stations. The proposed Sarival WRF has been located to intercept the remaining wastewater flow at the Sarival Avenue outfall.

c) Wastewater Reclamation Requirements

Treated effluent from the Palm Valley WRF and the Sarival WRF will be reclaimed for irrigation and recharge. The treated effluent is expected to of very high water quality, which will meet or exceed all state, local and federal requirements. A summary of water balance showing the projected reclaimed water production and re-use volumes are provided in Appendix C.

Reclaimed wastewater will be used in non-restricted areas such as parks and golf courses. Treated effluent is expected to exceed Arizona Administrative Code Title 12, Chapter 9 reclaimed water quality criteria for the irrigation of wastewater where public access is not restricted. Reuse activities will comply with the requirements of reuse permits issued through the Arizona Department of Environmental Quality (ADEQ) and Maricopa County Department of Environmental Services. Both facilities will require ADEQ Aquifer Protection Permits (APP).

As the amount of reclaimed water increases and exceeds seasonal irrigation demands, reclaimed wastewater will be directed to recharge facilities. Reclaimed wastewater for recharge will be required to meet the aquifer water quality standards established by ADEQ. These activities will be conducted in compliance with the Underground Storage Facility and Water Recovery Permits issued by the Arizona Department of Water Resources (ADWR).

d) Stormwater Discharges

The construction and operation of the proposed wastewater treatment plants are not anticipated to produce stormwater discharges. The treatment plants will be designed to contain stormwater runoff onsite. There will be no non-point discharges of stormwater from the proposed treatment plants. The EPA and ADEQ will permit any stormwater discharges to Waters of the United States under the National Pollutant Discharge Elimination System (NPDES) program.

4. Sanitary Districts, Private Utilities, and WRF Service Areas

The proposed locations of the Palm Valley WRF and the Sarival WRF are within the current LPSCo service area in the City of Goodyear. Neighboring cities and communities within a 3-mile radius include the City of Avondale, Litchfield Park, and Unincorporated areas of Maricopa County.
The construction of the proposed treatment plants will directly impact the City of Goodyear’s 157th Avenue WWTP. 1.1 MGD of existing wastewater flow from the LPSCo service area will be re-routed to the new Palm Valley facility.

LPSCo will sell 1.0 MGD of their 1.4 MGD capacity allocation back to the City of Goodyear. Sewage flow to the 157th Avenue treatment facility is nearing the current plant capacity of 3.0 MGD. The re-routing of the current LPSCo service area flow and the acquisition of 1.0 MGD capacity will allow the City of Goodyear time to upgrade processes and expand the 157th Avenue WWTP to better serve the Central Goodyear Planning Area. In addition, the City of Goodyear will not have to include the North Planning Area when considering expansion to their treatment and collection facilities.

No other existing treatment facilities, sanitary districts or certified service areas would be impacted by the construction of the two treatment plants.

D. Permitting Requirements

The Palm Valley WRF and the Sarival WRF will require the following permits and clearances:

- Aquifer Protection Permit (APP) issued by the Arizona Department of Environmental Quality (ADEQ)
- Reclaimed Wastewater Reuse Permit
- 401 Water Quality Certification issued by ADEQ
- Underground Storage Facility permit and Water Storage permit for groundwater recharge by the Arizona Department of Water Resources (ADWR)
- Archeological and Native Plants clearances through the Arizona State Land Department, and an Environmental Assessment – Phase I clearance
- Right-of-way easement from the Arizona State Land Department
- Biosolids (sewage sludge) re-use requirements as stated in 40 CFR 503 and regulated by the Environmental Protection Agency
- EPA/ADEQ NPDES Permit

E. Pretreatment Requirements

The Code of Federal Regulations Part 403 Section 403.8 states, “any POTW with a total design flow of 5 million gallons per day and receiving from industrial users pollutants which pass through or interfere with the operation of the POTW or are otherwise subject to pretreatment standards, will be required to establish a pretreatment program.” No industrial users are anticipated to discharge into the two proposed wastewater treatment plants. Thus, neither facility is required to comply with pretreatment requirements. If industrial users are added to the service area of either facility, a pretreatment program will be developed with the industrial user being subject to pretreatment standards as regulated by the EPA.
F. Sludge Management Requirements

The Palm Valley WRF and the Sarival WRF will be subject to biosolids regulations as promulgated in 40 CFR 503. Sewage sludge will be generated from both treatment plants. As defined in 40 CFR 501, sewage sludge means any solid, semi-solid, or liquid residue removed during the treatment of municipal waste water or domestic sewage. Sewage sludge includes, but is not limited to, solids removed during primary, secondary, or wastewater treatment, scum, septage, portable toilet pumpings, Type III Marine Sanitation device pumpings, and sewage sludge products. Sewage sludge does not include grit, screening, or ash generated during the incineration sewage. The 40 CFR 503 regulatory requirements include standards for the use and disposal of sludge and consist of general requirements, pollutant limits, management practices and operational standards for the final use or disposal of sewage sludge generated during the treatment of domestic sewage. It also includes pathogen and vector attraction reduction requirements for sewage sludge applied to land or placed in a surface disposal site.

The two proposed wastewater treatment plants will meet the 40 CFR Part 32 requirements for classification of sewage sludge as Class A Biosolids. By meeting the most stringent requirements for sludge treated for re-use, the biosolids produced at the facilities will be available for use by farming operations as well as private residential use.

II. Construction

A. Construction and Operation Responsibility

Litchfield Park Service Company will develop and implement the plan for the construction and operation of the Palm Valley WRF, the Sarival WRF and related service areas. Litchfield Park Service Company will be solely responsible for funding the project. LPSCo’s most recent Corporate Financial Statement is presented in Appendix E.

The proposed schedule of construction for the Palm Valley WRF is shown in Appendix D. The permitting phase of the project is anticipated to take approximately 6 months. Construction will follow immediately.

B. Sources of Pollution

The construction of the wastewater treatment plants will not be a significant source of pollution. Anticipated pollution from construction activities include fugitive dust, construction equipment exhaust emissions, and construction related solid waste. Erosion control measures during construction and grading will be implemented to prevent potential storm water runoff to water bodies. The developer and project contractor shall comply with local regulatory requirements and provisions of construction permits issued.
III. Financing and Other Actions to Implement Plan

A. Financing Plan

Litchfield Park Service Company has made financial plans for the construction and operation of the proposed treatment plants. The new facilities will be constructed using private, tax exempt and or developer/development funds.

B. Financing Capability to Construct the Facility

Litchfield Park Service Company has the financial capacity to construct and operate the Palm Valley WRF and the Sarival WRF. A copy of LPSCo’s 1999 Corporate Financial Statement is included in Appendix E.

IV. Impact and Implementation Plan

A. Implementation Plan

The implementation of construction and operation of the wastewater treatment plants will be planned and executed by the Litchfield Park Service Company. LPSCo has hired an engineering firm and construction firm to design/build the Palm Valley Wastewater Treatment Plant. Design completion is expected to be finished in September 2000. A draft schedule of construction is provided in Appendix D.

LPSCo will hire ADEQ certified operational staff to properly operate and maintain the new wastewater treatment plants. These staff members will be involved in the planning, design and construction of the two facilities. Upon completion of the Palm Valley WRF, the contractor is required to provide 6 months of operation and maintenance training to LPSCo’s treatment plant staff.

B. Impacts of the Proposed Wastewater Treatment Plants

The construction and operation of the Palm Valley WRF and the Sarival WRF are not expected to adversely impact any neighboring municipality, sanitary district, certificated area, community or business. The Palm Valley WRF will initially alleviate excess wastewater flow to the City of Goodyear’s treatment facility by re-routing 1.1 MGD currently conveyed to the 157th Avenue WWTF.

Potential environmental issues include odor, noise, vectors and hazardous materials. The following briefly discuss and addresses these issues.
Odors: The biological treatment process utilizes a significant amount of sub-surface aeration reducing the potential for odor problems. Both plants will include odor-scrubbing systems for the headworks and sludge pressing areas. The sludge is in an aerated liquid state while on-site and during removal for sludge disposal, reducing the potential for odor concerns from sludge processing operations.

Noise: All process equipment will be enclosed in insulated masonry buildings. Additionally, the aeration blowers will be provided with critical silencers and housed in sound attenuation enclosures. All pumps and aerators will be submersible type and will not produce noise.

Vectors: The treatment facilities will be properly operated and maintained to reduce vector attraction. Sludge processing facilities will be covered and enclosed in building structures. The irrigation storage areas will be prevented from becoming breeding areas for mosquitoes and other insects by circulation of stored water and the introduction of mosquito fish.

Hazardous Materials: The wastewater treatment facility will not accept any hazardous materials. Only municipal sewage from the LPSCo service areas will be accepted. An emergency plan will be developed to isolate and contain any hazardous materials discovered. The proposed treatment system does not require the use of any hazardous materials beyond the storage of liquid sodium hypochlorite, ozone for disinfection and diesel fuel for the back-up power generator. A current set of Material Safety Data Sheets (MSDS) will be maintained for all chemicals, polymers, and bioaugmentation products used at the facilities.

C. Solution for Casitas Bonitas

LPSCo recognizes that a serious situation exists at Casitas Bonitas that has eluded a solution to date. LPSCo is willing to provide wholesale wastewater services to Casitas Bonitas with certain conditions:

- LPSCo to have involvement with closure of existing facility,
- That the ACC grant specific rates to allow the treatment without any economic hardship in existing LPSCo customers or the company.

V. Public Participation

As part of the MAG Water Quality Management Plan Amendment Process, the Maricopa Association of Governments (MAG) with cooperation of the City of Goodyear is responsible for ensuring that the following actions are implemented after submittal of the draft 208 Amendment:

- Notify all parties of a public hearing on the 208 Amendment by sending notices to interested parties at least 30 days prior to the public hearing. The notice may
Include the date, time, subject and location of the public hearing for the 208 Amendment.

- Notify public at least 45 days in advance of the public hearing by advertising in a publication. The notice should state the date, time, subject and location of the public hearing for the 208 Amendment.
- Notify public that draft amendments are available for public viewing 30 days before the hearing. This may include the location, days, and time of availability.
- Submittal of an affidavit of publication of the public notice.
- Submittal of a responsiveness summary for the public hearing.
APPENDIX A
LOCATION AND SITE MAPS
Palm Valley Facility Site
Water Reclamation Facility

Designed by:
PACE
Pacific Advanced Civil Engineering

Constructed by:
Perc
Pacific Environmental Research Corp.

Barona Caring, Lakeside, California
73,000 gpd - expandable to 1.5 million.
APPENDIX B
Palm Valley WRF
PROCESS DESIGN CRITERIA
APPENDIX C
EFFLUENT REUSE WATER BALANCE CALCULATIONS
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TOTAL YEARLY STORAGE GAIN: 0.07 AC FT
MAX STORAGE REQUIRED: 693.63 AC FT
MAX LAKE WATER SURF. ELEV. CHANGE: 4.54 FEET

*Assumes 5 Golf Courses and Park Areas
## LPSCo Storage / Reuse Balance Calculations

### Phase II
Palm Valley Ph1 - Survival Ph1

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**TOTAL YEARLY STORAGE GAIN**
- MAX STORAGE REQUIRED | ACFT | 327.62 |
- MAX LAKE SURF, ELEV. CHANGE | FEET | 2.18 |

*Assumes 6 Golf Courses and Park Areas*
## LPSCo Storage / Reuse Balance Calculations
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**TOTALS**

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*Assumes 8 Golf Courses and Expanded Park Areas*
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<th>TURF IRRIGATION</th>
<th></th>
<th>LAKE EVAPORATION</th>
<th></th>
<th>TOTAL IRREVERSIBLE</th>
<th></th>
<th>EFFLUENT TO RECHARGE</th>
<th></th>
<th>IN LAKE STORAGE</th>
<th></th>
<th>LAKE WATER SURF</th>
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</tr>
</thead>
<tbody>
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<td></td>
<td>DAYS/SUPPLY</td>
<td>(MGD)</td>
<td>(AC/FT)</td>
<td></td>
<td>(FT/MD)</td>
<td>(AC/FT)</td>
<td>(GAF)</td>
<td></td>
<td>(AC/FT)</td>
<td></td>
<td>(AC/FT)</td>
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<td>(FT)</td>
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<td></td>
<td>31</td>
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<td>456.00</td>
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<td>1012.53</td>
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<td>656.00</td>
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<td>714.33</td>
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<td>160.20</td>
<td>0.88</td>
<td>800.20</td>
<td>590.20</td>
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<td>101.67</td>
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<tr>
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<td>936.00</td>
<td>0.92</td>
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<td>0.92</td>
<td>1101.60</td>
<td>458.73</td>
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<td>146.97</td>
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<td>31</td>
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<td>900.00</td>
<td>0.83</td>
<td>149.40</td>
<td>0.83</td>
<td>1049.40</td>
<td>510.53</td>
<td>612.05</td>
<td>45.85</td>
<td>100.25</td>
<td></td>
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<td>616.00</td>
<td>0.71</td>
<td>127.60</td>
<td>0.71</td>
<td>743.60</td>
<td>586.20</td>
<td>612.05</td>
<td>0.00</td>
<td>100.00</td>
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<tr>
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<td></td>
<td>31</td>
<td>1500.00</td>
<td>0.56</td>
<td>624.00</td>
<td>0.56</td>
<td>100.80</td>
<td>0.56</td>
<td>724.80</td>
<td>835.83</td>
<td>612.05</td>
<td>223.48</td>
<td>101.24</td>
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</tr>
<tr>
<td>NOVEMBER</td>
<td></td>
<td>30</td>
<td>1510.00</td>
<td>0.36</td>
<td>456.00</td>
<td>0.38</td>
<td>68.00</td>
<td>0.38</td>
<td>524.00</td>
<td>985.60</td>
<td>1000.00</td>
<td>209.08</td>
<td>101.16</td>
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<tr>
<td>DECEMBER</td>
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<td>0.37</td>
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<td>0.37</td>
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<tr>
<td>TOTALS</td>
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<td>18321.28</td>
<td>6.12</td>
<td>7344.00</td>
<td>7.25</td>
<td>1305.00</td>
<td>7.25</td>
<td>9649.00</td>
<td>9672.28</td>
<td>9672.28</td>
<td>9672.28</td>
<td>9672.28</td>
<td></td>
</tr>
</tbody>
</table>

*Assumes 8 Golf Courses and Expanded Park Areas
APPENDIX D
PALM VALLEY
DRAFT CONSTRUCTION SCHEDULE
# Palm Valley WRF Construction Schedule

**2000 - 2001**

| REMITS | SWPS (Structure, Mechanical, Electrical) | WORLATION | EXCAVATION / BACKFILL | SEW SLAB | SEW WALLS | SEW DECK | SEW BUILDING | SLUDGE/DISINFECTION SLAB | SLUDGE/DISINFECTION WALLS | SLUDGE/DISINFECTION DECK | SLUDGE/DISINFECTION BUILDING | SEW MAINS | SEW PUMPS | DECANTERS | OVERFLOW | HEADWORK PUMPS | SCREEN | SLUDGE MAINS | SLUDGE PUMPS | SLUDGE AIR | FILTRATION | DISINFECTION | PUMPS | SLUDGE DRYING | MOTOR CONTROL | CONTROLS | GENERATORS | COMPUTER/SOFTWARE | LANDSCAPES |
|--------|----------------------------------------|-----------|----------------------|---------|-----------|---------|-------------|--------------------------|---------------------------|--------------------------|-----------------------------|-----------|-----------|----------|---------|--------------|--------|-------------|-------------|-----------|-----------|----------------|----------|--------------|----------------|-----------|
| Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 | Month 15 | Month 16 | Month 17 | Month 18 | Month 19 | Month 20 | Month 21 | Month 22 |

4-3-2000
APPENDIX E
LPSCO FINANCIAL DOCUMENTATION
AND
PALM VALLEY WRF COST ESTIMATES
Litchfield Park Service Company (A Wholly-Owned Subsidiary of SunCor Development Company, Inc.)

Financial Statements
Years Ended December 31, 1999 and 1998, and Independent Auditors' Report
INDEPENDENT AUDITORS’ REPORT

Board of Directors
Litchfield Park Service Company
Litchfield Park, Arizona

We have audited the accompanying balance sheets of Litchfield Park Service Company (a wholly owned subsidiary of SunCor Development Company, Inc.) (the "Company") as of December 31, 1999 and 1998, and the related statements of income, stockholders' equity, and cash flows for the years then ended. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, such financial statements present fairly, in all material respects, the financial position of the Company at December 31, 1999 and 1998, and the results of its operations and its cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

April 25, 2000
<table>
<thead>
<tr>
<th>ASSETS</th>
<th>1999</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTILITY PLANT (Note 2):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utility plant in service</td>
<td>$15,634,263</td>
<td>$13,756,282</td>
</tr>
<tr>
<td>Less accumulated depreciation and amortization</td>
<td>1,962,842</td>
<td>1,719,292</td>
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<tr>
<td>Utility plant - net</td>
<td>13,671,421</td>
<td>12,036,990</td>
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<tr>
<td>CONSTRUCTION WORK IN PROGRESS</td>
<td>270,784</td>
<td>36,788</td>
</tr>
<tr>
<td>RESTRICTED CASH (Note 1)</td>
<td>3,600,490</td>
<td></td>
</tr>
<tr>
<td>CURRENT ASSETS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>1,551,346</td>
<td>430,710</td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>170,042</td>
<td>141,543</td>
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<tr>
<td>Due from SunCor-net (Notes 3, 4 and 5)</td>
<td>1,303,710</td>
<td>1,218,649</td>
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<tr>
<td>Prepaid and other assets</td>
<td></td>
<td>4,664</td>
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<tr>
<td>Total current assets</td>
<td>3,024,698</td>
<td>1,795,966</td>
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<td>DEFERRED DEBITS</td>
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<td></td>
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<tr>
<td>Unamortized debt issue costs - net of amortization</td>
<td>214,492</td>
<td></td>
</tr>
<tr>
<td>Deferred rate case expense - net of amortization</td>
<td>29,325</td>
<td>49,071</td>
</tr>
<tr>
<td>Other</td>
<td>3,243</td>
<td></td>
</tr>
<tr>
<td>Total deferred debits</td>
<td>246,860</td>
<td>49,071</td>
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<tr>
<td>TOTAL</td>
<td>$211,014,253</td>
<td>$133,018,215</td>
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</table>

(Continued)
# Litchfield Park Service Company
(A Wholly-Owned Subsidiary of SunCor Development Company, Inc.)

## Balance Sheets
December 31, 1999 and 1998

### Liabilities

<table>
<thead>
<tr>
<th></th>
<th>1999</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common stock, $10 par value - authorized, 500,000 shares; 7,830 shares issued and outstanding</td>
<td>$78,200</td>
<td>$78,200</td>
</tr>
<tr>
<td>Paid-in capital</td>
<td>10,797,022</td>
<td>10,797,022</td>
</tr>
<tr>
<td>Retained earnings</td>
<td>1,744,312</td>
<td>1,331,226</td>
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<tr>
<td>Total capitalization</td>
<td>12,619,534</td>
<td>12,230,448</td>
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### Current Liabilities:

<table>
<thead>
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<th>1999</th>
<th>1998</th>
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</thead>
<tbody>
<tr>
<td>Accounts payable</td>
<td>229,989</td>
<td>155,709</td>
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<tr>
<td>Accrued liabilities</td>
<td>146,376</td>
<td>61,305</td>
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<tr>
<td>CAP obligation (Note 5)</td>
<td>1,175,527</td>
<td>887,081</td>
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<tr>
<td>Total current liabilities</td>
<td>1,551,892</td>
<td>1,104,095</td>
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</table>

### Long-Term Debt - Net (Note 7)

<table>
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<th>1999</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5,226,393</td>
<td></td>
</tr>
</tbody>
</table>

### Commitments and Contingencies (Notes 5 and 6)

### Deferred Credits and Other Long-Term Liabilities:

<table>
<thead>
<tr>
<th></th>
<th>1999</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meter deposits</td>
<td>707,524</td>
<td>586,162</td>
</tr>
<tr>
<td>Deferred income taxes (Note 4)</td>
<td>123,910</td>
<td>21,510</td>
</tr>
<tr>
<td>Customer advances (Note 8)</td>
<td>785,000</td>
<td></td>
</tr>
<tr>
<td>Total deferred credits and other long-term liabilities</td>
<td>1,616,434</td>
<td>667,672</td>
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**Total**

<table>
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<tr>
<th></th>
<th>1999</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$21,014,253</td>
<td>$13,018,215</td>
</tr>
</tbody>
</table>

---

See notes to financial statements. (Concluded)
LITCHFIELD PARK SERVICE COMPANY  
(A Wholly-Owned Subsidiary of SunCor Development Company, Inc.)

STATEMENTS OF INCOME  
YEARS ENDED DECEMBER 31, 1999 AND 1998

<table>
<thead>
<tr>
<th></th>
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<th>1998</th>
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</thead>
<tbody>
<tr>
<td><strong>UTILITY OPERATIONS:</strong></td>
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<tr>
<td>Water</td>
<td>$1,404,957</td>
<td>$1,122,188</td>
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<tr>
<td>Sewer</td>
<td>1,420,123</td>
<td>1,038,932</td>
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<tr>
<td>Miscellaneous income</td>
<td>28,332</td>
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<tr>
<td><strong>Total operating revenues</strong></td>
<td>2,853,412</td>
<td>2,161,120</td>
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<td><strong>Cost of revenues:</strong></td>
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<tr>
<td>Water</td>
<td>270,139</td>
<td>204,651</td>
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<tr>
<td>Sewer</td>
<td>633,742</td>
<td>587,998</td>
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<tr>
<td><strong>Total cost of goods sold</strong></td>
<td>903,881</td>
<td>792,649</td>
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<tr>
<td>Gross margin</td>
<td>1,949,531</td>
<td>1,368,471</td>
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</table>

**OPERATING EXPENSES:**
- Depreciation and amortization: $276,637, $330,456
- Outside services: $351,024, $365,820
- Salaries and benefits: $298,501, $273,027
- Other taxes: $116,282, $100,165
- General and administrative: $69,335, $68,214
- Rent (Note 6): $42,830, $39,002
- Income taxes (Note 4): $275,300, $69,000
- **Total utility operating expenses:** $1,429,929, $1,245,684

**NET UTILITY OPERATING INCOME:** $519,602, $122,787

**OTHER INCOME (EXPENSE):**
- Interest income: $123,893, $7,799
- Other: $366, $(147)
- Interest expense: $(230,775), $(27,063)
- **Total other expense:** $(106,516), $(19,413)
- **NET INCOME:** $413,086, $103,374

See notes to financial statements.
LITCHFIELD PARK SERVICE COMPANY (A Wholly-Owned Subsidiary of SunCor Development Company, Inc.)

STATEMENTS OF STOCKHOLDERS' EQUITY
YEARS ENDED DECEMBER 31, 1999 AND 1998

<table>
<thead>
<tr>
<th></th>
<th>Common Stock</th>
<th>Paid-in Capital</th>
<th>Retained Earnings</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>BALANCE, JANUARY 1, 1998</td>
<td>$79,000</td>
<td>$6,762,139</td>
<td>$1,227,652</td>
<td>$8,669,291</td>
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<td>Net income</td>
<td></td>
<td></td>
<td>103,374</td>
<td>103,374</td>
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<tr>
<td>Proprety contributed by SunCor</td>
<td>3,734,763</td>
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<td></td>
<td>3,734,763</td>
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<tr>
<td>Forgiveness of notes payable by SunCor</td>
<td>500,000</td>
<td></td>
<td></td>
<td>500,000</td>
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<tr>
<td>BALANCE, DECEMBER 31, 1998</td>
<td>$79,200</td>
<td>$10,797,022</td>
<td>$1,331,224</td>
<td>$12,206,448</td>
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<tr>
<td>Net income</td>
<td></td>
<td></td>
<td>413,086</td>
<td>413,086</td>
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<tr>
<td>BALANCE, DECEMBER 31, 1999</td>
<td>$78,200</td>
<td>$10,797,022</td>
<td>$1,744,312</td>
<td>$12,439,534</td>
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See notes to financial statements.
### Litchfield Park Service Company
(A Wholly-Owned Subsidiary of SunCor Development Company, Inc.)

#### Statements of Cash Flows

**Years Ended December 31, 1999 and 1998**

<table>
<thead>
<tr>
<th>Description</th>
<th>1999</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cash Flows from Operating Activities:</strong></td>
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<td></td>
</tr>
<tr>
<td>Net income</td>
<td>$413,086</td>
<td>$103,374</td>
</tr>
<tr>
<td>Adjustments to reconcile net income to net cash provided by operating activities:</td>
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<td></td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>267,268</td>
<td>330,456</td>
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<tr>
<td>Deferred income taxes</td>
<td>102,400</td>
<td>(13,121)</td>
</tr>
<tr>
<td>Change in assets and liabilities:</td>
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</tr>
<tr>
<td>Accounts receivable-net</td>
<td>(29,299)</td>
<td>(28,787)</td>
</tr>
<tr>
<td>Due from SunCor - net</td>
<td>(84,061)</td>
<td>(225,110)</td>
</tr>
<tr>
<td>Prepaids and other assets</td>
<td>4,664</td>
<td>3,215</td>
</tr>
<tr>
<td>Deferred debits</td>
<td>(237,081)</td>
<td>(19,590)</td>
</tr>
<tr>
<td>Accounts payable</td>
<td>74,280</td>
<td>51,498</td>
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<td>CAP obligation</td>
<td>288,446</td>
<td>298,162</td>
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<tr>
<td>Accrued liabilities</td>
<td>85,071</td>
<td>11,083</td>
</tr>
<tr>
<td>Mortgage deposits</td>
<td>121,362</td>
<td>106,374</td>
</tr>
<tr>
<td>Customer advances</td>
<td>785,000</td>
<td></td>
</tr>
<tr>
<td><strong>Net cash provided by operating activities:</strong></td>
<td>1,790,536</td>
<td>617,542</td>
</tr>
<tr>
<td><strong>Cash Flows from Investing Activities:</strong></td>
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<td></td>
</tr>
<tr>
<td>Capital expenditures</td>
<td>(2,095,803)</td>
<td>(503,103)</td>
</tr>
<tr>
<td>Restricted cash</td>
<td>(3,800,490)</td>
<td>(503,103)</td>
</tr>
<tr>
<td><strong>Net cash used in investing activities:</strong></td>
<td>(5,896,293)</td>
<td>(503,103)</td>
</tr>
<tr>
<td><strong>Cash Flows from Financing Activities:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IDA bond issuance</td>
<td>5,226,393</td>
<td></td>
</tr>
<tr>
<td><strong>Increase in Cash and Cash Equivalents:</strong></td>
<td>1,120,636</td>
<td>114,439</td>
</tr>
<tr>
<td><strong>Cash and Cash Equivalents, Beginning of Year:</strong></td>
<td>430,710</td>
<td>316,271</td>
</tr>
<tr>
<td><strong>Cash and Cash Equivalents, End of Year:</strong></td>
<td>$1,551,346</td>
<td>$430,710</td>
</tr>
<tr>
<td><strong>Supplemental Disclosure of Cash:</strong></td>
<td>$153,850</td>
<td>$27,065</td>
</tr>
</tbody>
</table>

See notes to financial statements.
LITCHFIELD PARK SERVICE COMPANY
(A Wholly-Owned Subsidiary of SunCor Development Company, Inc.)

NOTES TO FINANCIAL STATEMENTS
YEARS ENDED DECEMBER 31, 1999 AND 1998

1. BASIS OF PRESENTATION AND SIGNIFICANT ACCOUNTING POLICIES

Basis of Presentation - Litchfield Park Service Company (the "Company"), a wholly-owned subsidiary of SunCor Development Company, Inc. ("SunCor"), provides utility operations, water distribution and sewer services to the communities of Litchfield Park, Palm Valley and Pebble Creek in western Maricopa County, Arizona, which are regulated by the Arizona Corporation Commission ("Commission"). The utility operations are divided into two divisions, Water and Sewer. In accordance with an order of the Commission, the Company’s accounting records are maintained in accordance with the uniform system of accounts prescribed by the National Association of Regulatory Utility Commissioners ("NARUC"). The accompanying financial statements reflect the rate-making policies of these commissions, and are prepared in accordance with Statement of Financial Accounting Standards ("SFAS") No. 71, Accounting for the Effects of Certain Types of Regulation. SFAS No. 71 requires a cost-based, rate-regulated enterprise to reflect the impact of regulatory decisions in its financial statements.

Significant accounting policies are summarized below:

a. Utility plant is stated at cost with depreciation provided on a straight-line basis at annual rates generally approximating 2.62 percent for water and 2.52 percent for sewer as set by the Commission in May 1998. Prior to May 1998, the Commission established depreciation rates of 3 percent for water and 5 percent for sewer. Expenditures for maintenance and repairs are charged to expense. The cost of replacements and betterments is capitalized. Contributions in aid of construction are accounted for as a reduction to utility plant and are amortized over the estimated life of the plant.

b. Revenue Tangibility and Cost of Revenues - Water and sewer revenues are recognized at the time of billing to customers with the associated cost of water and sewer sold similarly recognized.

c. Cash and cash equivalents include temporary cash investments.

d. Restricted cash includes short-term investments that are to be used on capital projects prescribed by the IDA bond indenture agreement.

e. Income Taxes - The Company accounts for income taxes using SFAS No. 109, Accounting for Income Taxes, which requires that the liability method be used in calculating deferred income taxes. The provision for income taxes includes federal and state income taxes currently payable and deferred federal and state income taxes arising from temporary differences between income reported for financial statement purposes and income tax purposes.

The Company is included in the consolidated income tax returns of Pinnacle West Capital Corporation (Parent of SunCor). Income taxes are allocated to the Company based on its separate Company taxable income or loss.
f. Use of Estimates - The preparation of the financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of income and expenses during the reporting period. Actual results could differ from those estimates.

g. Accounting Standards - In June 1998, the Financial Accounting Standards Board issued SFAS No. 133, Accounting for Derivative Instruments and Hedging Activities, which is effective for fiscal years beginning after June 15, 2000. SIAS No. 133 requires that entities recognize all derivatives as either assets or liabilities in the balance sheet and measure those instruments at fair value. The Company is currently evaluating the impact that this statement will have on its financial statements.

2. UTILITY PLANT

Utility plant at December 31 consists of the following:

<table>
<thead>
<tr>
<th></th>
<th>1999</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utility plant - water</td>
<td>$6,499,364</td>
<td>$5,310,170</td>
</tr>
<tr>
<td>Utility plant - sewer</td>
<td>9,134,899</td>
<td>8,446,112</td>
</tr>
<tr>
<td>Other utility plant</td>
<td>870,539</td>
<td>916,643</td>
</tr>
<tr>
<td>Total</td>
<td>16,504,802</td>
<td>14,672,925</td>
</tr>
<tr>
<td>Contributions in aid of construction</td>
<td>($70,539)</td>
<td>($916,643)</td>
</tr>
<tr>
<td>Accumulated depreciation and amortization</td>
<td>(1,962,842)</td>
<td>(1,719,292)</td>
</tr>
<tr>
<td>Utility plant-net</td>
<td>$13,671,421</td>
<td>$12,036,990</td>
</tr>
</tbody>
</table>

3. RELATED PARTY TRANSACTIONS

Amounts due to and from SunCor at December 31 are as follows:

<table>
<thead>
<tr>
<th></th>
<th>1999</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td>Due from SunCor:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income taxes (payable) receivable</td>
<td>$ (85,552)</td>
<td>$ 87,348</td>
</tr>
<tr>
<td>Central Arizona Project (&quot;CAP&quot;) subcontract reimbursement (Note 5)</td>
<td>1,434,932</td>
<td>1,146,486</td>
</tr>
<tr>
<td>Due to SunCor - accounts payable representing reimbursements for expenses paid</td>
<td>(46,670)</td>
<td>(15,185)</td>
</tr>
<tr>
<td>Due from SunCor - net</td>
<td>$1,302,710</td>
<td>$1,218,649</td>
</tr>
</tbody>
</table>
4. INCOME TAXES

The provision for income taxes for the years ended December 31 consists of the following:

<table>
<thead>
<tr>
<th></th>
<th>1999</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal</td>
<td>$147,000</td>
<td>$69,800</td>
</tr>
<tr>
<td>State</td>
<td>25,900</td>
<td>12,300</td>
</tr>
<tr>
<td>Total current provision</td>
<td>172,900</td>
<td>82,100</td>
</tr>
<tr>
<td>Deferred provision</td>
<td>102,400</td>
<td>(13,100)</td>
</tr>
<tr>
<td>Total</td>
<td>$275,300</td>
<td>$69,000</td>
</tr>
</tbody>
</table>

A reconciliation of the provision for income taxes to the expected tax expense (computed by applying the federal statutory tax rate to income before income taxes) for the years ended December 31 is as follows:

<table>
<thead>
<tr>
<th></th>
<th>1999</th>
<th>1998</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computed expected tax expense</td>
<td>$234,000</td>
<td>$58,700</td>
</tr>
<tr>
<td>State income taxes, net of federal income tax benefit</td>
<td>41,300</td>
<td>10,300</td>
</tr>
<tr>
<td>Income tax expense</td>
<td>$275,300</td>
<td>$69,000</td>
</tr>
</tbody>
</table>

Deferred taxes consist primarily of accelerated tax depreciation and amortization of deferred debits.

5. COMMITMENTS AND CONTINGENCIES

The Company has entered into an agreement for up to 30 years for the long-term availability of 5,580 acres feet annually of CAP water. Under the agreement, the Company's outstanding obligation totaled $1,175,527 and $887,081 in 1999 and 1998, respectively, and will increase in various increments during the remaining term of the agreement. Over the next five years, the fixed portions will be $301,320 annually for 2000 through 2004, while the variable portions would be $70 per acre foot for 2000, $72 for 2001, $73 for 2002 and $75 for 2003. To date, $259,405 of fixed fees have been paid.

The obligation to CAP is currently due. To the extent that CAP requires payment, the Company's parent (SunCoe) intends to fund the obligation in its entirety (Note 3). The Company and its parent are currently evaluating the eventual use of this right, including exchange or sale.

6. RENT EXPENSE AND FUTURE MINIMUM LEASE OBLIGATIONS

The Company leases its office space and equipment under noncancellable leases. Future minimum lease payments for the years ending December 31 total $88,717, payable as follows: 2000, $48,559; 2001, $27,459; and thereafter, $12,699. Total rent expense for 1999 and 1998 was $42,550 and $39,002,
7. LONG-TERM DEBT

In April 1999, the Company issued $5,335,000 in Industrial Development Authority ("IDA") Bonds. The net book value of the debt is reduced by the discount upon issuance of $108,607. These bonds accrue interest at a blended rate of 5.87 percent semiannually. Semi-annual payments are due in April and October of each year. The bonds mature at various dates from October 2001 through October 2023. Principal amounts due over the next five years are as follows: $0 in 2000, $120,000 in 2001, $125,000 in 2002, $135,000 in 2003 and $140,000 in 2004, and $4,815,000 thereafter. The IDA bond indenture agreement contains certain covenants, as prescribed in Section 5.12 of the IDA Loan Agreement, and restrictions. These funds are primarily restricted for use on capital projects. The Company has calculated all applicable covenants and has concluded that all covenants have been satisfied as of December 31, 1999.

8. CUSTOMER ADVANCES

In October 1999, the Company entered into an agreement with a developer whereby $785,000 of funds were advanced to the Company to be utilized for the construction of a sewer treatment facility for a development.
<table>
<thead>
<tr>
<th>Module 54</th>
<th>Phase I</th>
<th>Phase II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headworks/Lift Station</td>
<td>$1,225,200</td>
<td>$265,000</td>
</tr>
<tr>
<td>a. Well Structure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Pumping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Prescreen (Rotating Screen)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Grill Removal (Voting)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Equipment/Im/Install/PPiping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. SBR Treatment Cells</td>
<td>$2,883,200</td>
<td>$2,793,200</td>
</tr>
<tr>
<td>a. SBR Tank Structure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. SBR Jet Pumps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. SBR Manifold</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Blowers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. WAS Pumps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Decanter/Sludge Valve</td>
<td></td>
<td></td>
</tr>
<tr>
<td>g. SBR Control/Software</td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. Equipment/Install/PPiping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Disinfection + Filtration</td>
<td>$4,120,200</td>
<td>$1,235,800</td>
</tr>
<tr>
<td>a. Structure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Disinfection (C1/C2 with C1 Back-up)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Filtration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Discharge Pumping Station</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Effluent Storage (not included)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Piping/Installation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Sludge Digestion/Storage</td>
<td>$4,120,000</td>
<td>$200,000</td>
</tr>
<tr>
<td>a. Structure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Mixing Pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Aeration Blowers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Sludge Manifold</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Sludge Disposal Pump (for sludge discharge)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Supernatant Return Pump (for sludge digester)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>g. Sludge Processing/Drying</td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. Piping/Installation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Other Work</td>
<td>$1,606,900</td>
<td>$433,400</td>
</tr>
<tr>
<td>a. Excavation + Backfill</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Office/Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Filters/Sludge Digestor/Shop/Equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Parking/Landscape/Fencing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Lab Equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Back-up Power Supply</td>
<td></td>
<td></td>
</tr>
<tr>
<td>g. Chemical Phosphorus Removal (not included)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Engineering</td>
<td>$1,485,900</td>
<td>$705,100</td>
</tr>
<tr>
<td>a. Cell Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Electrical Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Permits (NPDES)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. 6 Month Training and Operations Contract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Construction</td>
<td>$2,303,500</td>
<td>$908,500</td>
</tr>
<tr>
<td>a. Eng. Services During Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. General Conditions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Construction Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Construction Contingency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Bond and Taxes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Sub Total                                      | $10,322,200   | $5,743,800    |

| Total Cost Per Phase                          | $12,625,700   | $6,646,100    |
| Total Cost per Gallon                        | $3.35         | $1.63         |
| Total Cost                                  | $19,173,800   |               |
| Total Cost per Gallon                       | $2.34         |               |
## OPINION OF PROBABLE COST OF OPERATION AND MAINTENANCE

### GALLONS TREATED PER DAY

<table>
<thead>
<tr>
<th>GALLONS TREATED PER DAY</th>
<th>(15 % CAP)</th>
<th>(20 % CAP)</th>
<th>(25 % CAP)</th>
<th>(30 % CAP)</th>
<th>(35 % CAP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500,000</td>
<td>$162</td>
<td>$202</td>
<td>$234</td>
<td>$264</td>
<td>$284</td>
</tr>
<tr>
<td>1,000,000</td>
<td>$162</td>
<td>$202</td>
<td>$234</td>
<td>$264</td>
<td>$284</td>
</tr>
<tr>
<td>1,500,000</td>
<td>$162</td>
<td>$202</td>
<td>$234</td>
<td>$264</td>
<td>$284</td>
</tr>
<tr>
<td>2,000,000</td>
<td>$162</td>
<td>$202</td>
<td>$234</td>
<td>$264</td>
<td>$284</td>
</tr>
<tr>
<td>2,500,000</td>
<td>$162</td>
<td>$202</td>
<td>$234</td>
<td>$264</td>
<td>$284</td>
</tr>
</tbody>
</table>

### POWER

Assumes 1 HP = 9.6 kWh and $0.075 / kWh

<table>
<thead>
<tr>
<th>PROCESS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(3) 75 HP BLOWER @ 8 HOURS / DAY</td>
<td>$12</td>
</tr>
<tr>
<td>(9) 50 HP IMPELLER PUMPS @ 12 HRS /DAY</td>
<td>$130</td>
</tr>
<tr>
<td>(2) 100 HP EFFLUENT PUMP @ 8 HRS / DAY</td>
<td>$13</td>
</tr>
<tr>
<td>(2) 40 HP EFFLUENT PUMPS @ 12 HRS / DAY</td>
<td>$80</td>
</tr>
<tr>
<td>(3) 75 HP SLUDGE MIXER @ 12 HRS / DAY</td>
<td>$122</td>
</tr>
<tr>
<td>(2) 75 HP BLOWER UNITS @ 8 HRS / DAY</td>
<td>$212</td>
</tr>
</tbody>
</table>

TOTAL POWER COST PER DAY $346

### MISCELLANEOUS

| WNG 20 TON UNITS @ 8 HRS / DAY | $42 |
| (3) LIGHTING TOTAL @ 12 HRS / DAY | $6 |
| (2) SITE POWER 30 KW @ 24 HRS / DAY | $54 |

TOTAL MISCELLANEOUS COST PER DAY $195

### PLANT OPERATIONS

**OPERATIONAL STAFF**

(1) STATE CERTIFIED WAFP OPERATOR $200

(1) JUNIOR OPERATOR $143

(1) GENERAL MAINTENANCE $43

TOTAL STAFF COST PER DAY $386

### SLUDGE DISPERSING AND DISPOSAL

Assumes $0.10 / 1000 gallons of treated effluent (On-site Processing)

<table>
<thead>
<tr>
<th>EQUIPMENT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SPARE PARTS / REPAIRS ALLOWANCE @ $150,000 / YR</td>
<td>$75</td>
</tr>
<tr>
<td>TOTAL OTHER COSTS PER DAY</td>
<td>$14</td>
</tr>
</tbody>
</table>

### LAB TESTS

DAILY EFFLUENT TESTING - ON SITE (75% JUNIOR OPERATOR ABOVE) $30

DAILY HAZARDOUS WASTE - 1 EVERY 3 MONTHS @ $600 / EACH $80

TOTAL LAB COSTS PER DAY $181

### TOTAL OPERATIONS COSTS PER DAY

$1,488 $1,359 $1,452 $2,004 $2,517

### COST PER ACRE-FOOT OF TREATED WATER

$2.34 $1.30 $0.83 $0.76 $0.63
APPENDIX B – MAG 208 Water Quality Management Plan, October 2002

The maps in this appendix were copied from the October 2002 MAG 208 Plan and show the planning areas for the municipalities in the LPSCo service area.
This appendix contains the conceptual plan completed in July 2004 by United Engineering Group for LFSCo. This plan forms the basis for the design of the Regional Sanitary Sewer.
White Tank Mountain Regional
Sewer Solution
Conceptual Plan

Litchfield Park Service Company
Maricopa County, Arizona

July 14, 2004

Prepared By:
united engineering group
4505 E. Chandler Blvd., Suite 270
Phoenix, AZ 85046
Phone: 480.765.5372
Fax: 480.765.5376
White Tank Mountain Regional Sewer Solution
Conceptual Plan

Prepared For:
Litchfield Park Service Company

By:
United Engineering Group

July 14, 2004
## Table of Contents

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</tr>
</thead>
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<tr>
<td>Executive Summary</td>
<td>iii</td>
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<td>1</td>
</tr>
<tr>
<td>1.2 Proposed Development</td>
<td>1</td>
</tr>
<tr>
<td>1.3 Solution Alternatives</td>
<td>1</td>
</tr>
<tr>
<td>1.4 Legal Obligations</td>
<td>2</td>
</tr>
<tr>
<td>2.0 Design Criteria</td>
<td>3</td>
</tr>
<tr>
<td>3.0 Design Options</td>
<td>4</td>
</tr>
<tr>
<td>4.0 Existing Facilities</td>
<td>6</td>
</tr>
<tr>
<td>5.0 Proposed Facilities</td>
<td>7</td>
</tr>
<tr>
<td>5.1 Collection System</td>
<td>7</td>
</tr>
<tr>
<td>5.2 Treatment Facilities</td>
<td>7</td>
</tr>
<tr>
<td>6.0 Results</td>
<td>10</td>
</tr>
<tr>
<td>7.0 Timeline</td>
<td>10</td>
</tr>
<tr>
<td>8.0 Cost/Benefit</td>
<td>10</td>
</tr>
<tr>
<td>9.0 Conclusion</td>
<td>11</td>
</tr>
<tr>
<td>References</td>
<td>12</td>
</tr>
</tbody>
</table>

### Tables & Exhibits

- Exhibit A. Service Area & Study Group Map
- Table 1: Study Group Summary
Abbreviations & Terminology

**gpd** – Gallons Per Day

**MGD** – Million-Gallons Per Day (1,000,000 gpd)

**gpm** – Gallons Per Minute

**EDU** – Equivalent Density Unit – Equal to the design discharge of one detached single family residential dwelling unit (320 gpd) \(3.2 \text{ people \& 100 gpd} \left(\text{per household}\right)\)

**AAC Title 18** – Arizona Administrative Code Title 18. The document containing the rules and regulations governing wastewater collection and treatment in the State of Arizona.

**Average Discharge** – Anticipated mean outflow over a 24-hour period

**Peak Discharge** – Anticipated flow rate for the system at peak usage times. Arizona Administrative Code Title 18 was used to determine the peaking factor for each portion of the system. Peak Discharge is equal to the Average Discharge multiplied by the peaking factor.

**LPSCO** – Litchfield Park Service Company

**Lift Station (L.S.)** – Refers to the lift station at McDowell Road and Sarival Avenue used to pump wastewater from this point to the existing wastewater treatment facility near McDowell Road and Sarival Avenue.

**PVWRF** – Palm Valley Water Reclamation Facility (Existing facility located north of McDowell Road between Bullard Avenue and Litchfield Road).

**SWRF** – Sarival Water Reclamation Facility (Proposed facility located near the intersection of McDowell Road and Sarival Avenue).
Executive Summary

The following summarizes the results of a study completed for Litchfield Park Service Company (LPSCO) by United Engineering Group. The study shows that LPSCO can provide a feasible solution for providing wastewater treatment and transmission for the properties included in the study. This report serves to address the technical and engineering aspects of the project, whereas the previous developer-funded study completed on February 9, 2004 attempted to address the financial feasibility aspects. The study boundaries have been modified for this report and now include a smaller land area. However, the possibility exists to create a second regional study that includes the remaining areas included in the original study. The area was split due to concerns regarding the development schedules of each area; the area removed from the original study is expected to develop much later than the properties in this study. The cost structure agreed upon by the private parties involved still holds true to the previous study, while the technical aspects of the study have been adjusted. This report serves as the final outcome of the engineering study.

Due to the nature of regional planning, this study has been based on current site plans rather than existing area master plans which fail to address specific site needs. This study only seeks to show (based on existing site plans, preliminary plats and final plats) that the proposed wastewater solution will have the capability to serve all properties that would connect to the system either now or in the near future. These site plans and plats conform to the land use planning and zoning but can vary slightly from it. Since information is available regarding proposed subdivisions for subdivisions and existing properties, it is the intent of this study to show that the proposed development will be adequately served by the proposed sewer system and facilities. These systems and facilities are either in-service or planned by LPSCO. Available planned development in the area shows densities that are in conformance with, or slightly higher than, the densities being allowed by the regional plans. These plans used in this report are therefore a worse-case-scenario when compared to the densities proposed by the regional development plans.

Sewer sizes have been determined by the available density information mentioned above. Layout has been determined by both geography and need. An existing lift station at McDowell Road and Sarrival Avenue will collect the outfall and pump it approximately two miles east to the existing treatment plant. Plans exist to construct new facilities once capacity meets certain triggers. Triggers for plant expansion and construction are discussed in more detail within the report.

The entire system in the study includes capacity for 9 separate properties with a proposed total of 12,288 single-family residential homes, 526 acres of commercial and industrial property and four school sites. Total flow for the system is 5,284 MGD or 3,670 gpm. A population-based peaking factor of 1.62 was utilized for this entire flow, generating a peak flow of 8.551 MGD or 5,938 gpm.
The proposed system falls within four designated 208 regional planning areas. LPSCO will be seeking approval to amend the three municipal 208 plans, permitting LPSCO to serve the area. Additional capacity has been provided for the Arizona-American Water Company 208 planning area to be absorbed into the LPSCO system, should this be deemed desirable. Amended 208 plans will improve the existing planning and allow service sooner and more economically than can be accomplished through the current plans. Because capacity is currently available, the end user will be able to begin utilizing the system immediately upon the construction of infrastructure connecting the user to the facility. Additionally, with permitting in place for additional capacity, there will be no lapse in service while additional treatment facilities are being approved and constructed. The treatment system can be completed in phases and scaled appropriately, thus offering the most economical price for each individual development through cost sharing measures. The collection system will, however, be completed in a single phase.

This proposed wastewater development plan provides a regional solution that anticipates support by the local municipalities, the Arizona Corporation Commission, Maricopa County Environmental Services. The proposed regional plan is beneficial to the environment. It eliminates the need for future septic systems or subdivision package plants and processes generated wastewater at a state-of-the-art facility. The conveyance capacity allows for the future contribution from intermediate properties.
1.0 Introduction

The following document serves as a master plan study for the proposed sewer system connecting several properties in the area directly east of the White Tank Mountains to the existing Litchfield Park Service Company sewer system. The service area for this project is shown in Exhibit A. Within the areas displayed there are several locations with existing septic systems, areas with existing wastewater master plans and the local state prison complex serviced by the City of Goodyear. All of these properties listed will neither require nor request connection to the system.

1.1 Existing Condition

This study includes the area of approximately 7.25 square miles bordered roughly by Cactus Road to the north, Indian School Road to the south, Tuthill Road to the west and Cotton Lane to the east. This is a fast growing area with significant demand for housing. Historically, development has not been able to move forward because there has been no wastewater solution for the area. Much of the problem stems from the inability of potential providers to obtain permits to build new facilities. The solution proposed in this report accomplishes this by bringing influent to an existing wastewater system which currently has unused capacity. Additional permitting is available to further expand the capacity of the system within the service area.

1.2 Proposed Development

The study will include several proposed developments that will jointly fund and have common interest in the solution. By working together, more accurate results have been attained. Additionally, quantities of scale will benefit all of those involved at the time of construction. A list of currently involved developers has been included in Section 3.0 of this report and in Table 1.

1.3 Solution Alternatives

Several alternatives have been considered by the developers involved, but for all of those involved, this opportunity offers the quickest cost effective solution while continuing to provide the desirable end result, a regional solution. Alternatives range from septic systems on 1 acre lots to individual package treatment facilities, to the construction of a new regional facility under the ownership of Arizona-American Water Company. However this proposed wastewater plan minimizes cost and complexity while offering service in the most timely and beneficial manner.
1.4 Legal Obligations

The service area of this regional study falls within three different 208 regional planning areas. This means that three jurisdictions will individually amend planning areas to allow wastewater to be transferred to the LPSCO system. While the jurisdictions appear to be cooperating, the possibility remains that opposition could result due to this issue. LPSCO will make these amendments at the time this plan is approved and legally binding agreements have been made with the properties involved. This report shows that legal obligations notwithstanding, the proposed sewer solution is feasible.
2.0 Design Criteria

The requirements and design minimums for this system have been set by the Litchfield Park Service Company. Where specific requirements were not available, the Arizona Administrative Code (AAC) Title 18 was utilized. A population of 3.2 persons per dwelling unit was used based on similar figures used by other local municipalities and providers. This exceeds the average of 2.67 persons per household in Maricopa County based on 2000 US Census data. The following is a summary of the major requirements used:

Flow Rates:
- Peaking Factor: Per Arizona Administrative Code (See Table 2)
- Residential: 100 gallons/person/day
- Commercial: 3.2 persons/household
- Schools: 2000 gallons/acre/day
- Students: 75 gallons/student/day

Pipe:
- Minimum pipe sizing: 8 inch for 120 acres or less
- 10 inch for 120 to 250 acres
- 12 inch for 250 to 640 acres
- 15 inch for all larger areas

Minimum Slope:
- 8" 0.0033 ft/ft
- 10" 0.0024 ft/ft
- 12" 0.0019 ft/ft
- 15" 0.0014 ft/ft
- 18" 0.0011 ft/ft
- 21" 0.00092 ft/ft
- 24" 0.00077 ft/ft

Full Flow Velocity:
- Minimum: 2.0 ft/sec
- Maximum: 9.0 ft/sec

Manholes:
- Size: 4 foot for 8 inch to 12 inch sewer-lines
- 5 foot for 15 inch and larger sewer-lines
- Spacing: Every 500' for 8 inch to less than 18" sewer-lines
- Every 600' for 18 inch to less than 36" sewer-lines
3.0 Design

Study participants provided the most current demand information available for the purposes of this study. However, some ambiguity remains as to the exact lot count that will be included in the final design. Two areas in particular have been included as part of the study that may not utilize the system. It was decided, for the sake of completeness, that these areas be included; the potential flows from these properties are included in the pipe design. The first of these areas is Russell Ranch Phases 1-5. This area is currently in the Arizona-American Water Company 208 planning area and has an on-site treatment facility which is in partial operation. It may prove to be economically viable to directly discharge into the system proposed in this report, and the property has thus been included should this be the case. The second piece is that portion of Zanjero Trails between Cactus Road and Peoria Avenue. This portion was given the option of discharging into the City of Surprise wastewater system. Again, because multiple possible sewer solutions exist, the conservative approach of including these flows into the capacity design, was taken.

The table below provides a list of contributions to each of the nodes shown in Exhibit A provided at the end of this report. Table 1, also provided at the end of this report, sums the result to provide line sizing based on the design criteria provided in Section 2 of this report.

Contributions to the system are calculated based on dwelling unit counts, commercial/industrial acreage, and school population counts. For the sake of comparison, EDUs (Equivalent Dwelling Units) can be utilized. One EDU is the equivalent discharge of one single family home per day, or 320 gallons per day. For comparison sake, one acre of commercial property generates 6.25 SDU of discharge and each 1000 student school site generates approximately 234 EDU of discharge. Similarly, equivalent population is calculated by dividing the discharge in gallons per day by 100. Therefore, for the purposes of calculating the peaking factor, there is a population of 3.2 per EDU, 30 per acre of commercial, and 750 per 1000 student school site.

The following is a summarized list of the developments included in the Study Group (See Table 1 for a summative list which is used to determine line sizing); A manhole has been assigned to each property (or portion thereof) and appears next to that property. The manhole shows the approximate location of discharge. This table is shown on the following page:
<table>
<thead>
<tr>
<th>#</th>
<th>Development Name</th>
<th>MII</th>
<th>Residential Units (DU)</th>
<th>Com./Ind. Acreage</th>
<th>School Site (Students)</th>
</tr>
</thead>
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<td>1</td>
<td>Maracay Homes</td>
<td>1</td>
<td>859</td>
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<td></td>
</tr>
<tr>
<td>2</td>
<td>Jackrabbit Estates</td>
<td>1</td>
<td>364</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Moseley</td>
<td>1</td>
<td>200</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Zarjero Trails</td>
<td>2</td>
<td>8,231</td>
<td>72</td>
<td>3,000</td>
</tr>
<tr>
<td>5</td>
<td>Savannah</td>
<td>3</td>
<td>319</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Russell Ranch Phase 6</td>
<td>3</td>
<td>110</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Russell Ranch Phases 1-5</td>
<td>4</td>
<td>425</td>
<td>5</td>
<td></td>
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<tr>
<td>8</td>
<td>Badley Center</td>
<td>4</td>
<td></td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>9</td>
<td>Hancock Communities</td>
<td>4</td>
<td>1,280</td>
<td>20</td>
<td>1,000</td>
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<tr>
<td>10</td>
<td>Boazer Homes/Abel Property</td>
<td>5</td>
<td>500</td>
<td>370</td>
<td></td>
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<tr>
<td></td>
<td><strong>TOTALS:</strong></td>
<td></td>
<td><strong>12,288</strong></td>
<td><strong>526</strong></td>
<td><strong>4,006</strong></td>
</tr>
</tbody>
</table>
4.0 Existing Facilities

Litchfield Park Service Company (LPSCO) currently provides sewer existing service to the portions of the City of Goodyear, Litchfield Park and unincorporated areas of Maricopa County. The LPSCO service area is predominately made up of master planned communities such as Palm Valley, Pebble Creek and Litchfield Greens communities. The Palm Valley Water Reclamation Facility (PVWRF) located at 14222 W. McDowell Road was constructed and placed into service in February 2001. LPSCO is currently preparing an Aquifer Protection Permit amendment for the expansion of PVWRF from 4.1 to 8.2 MGD. The estimated 1,423 planned residential units of the Palm Valley Phase-V development will produce an average daily sewage flow of 513,360 gallons per day (based on 320 gallons per day per dwelling unit). Utilizing a peaking factor of 2.02 derived from the Harmon equation, the peak day flow for this development is estimated to be 1,036,987 gallons per day. This facility was designed to serve all residential and commercial development from the McDowell Road to the south, Camelback Road to the north from Bullard to the west, and Dysart Road to the east. This facility will provide service to the new area.

The Sarival Lift Station is to provide interim pumping capacity to the PVWRF from the northwest service area until such time that flows increased to a level that would support startup and continuous operation of a 4.2- million gallon per day (MGD) Sarival Water Reclamation Facility (SWRF). The initial design and 1st phase construction of the Sarival Lift Station is designed to provide the following pumping capacity:

- Average Daily Flow - 2.0 MGD
- Peak Day Flow - 4.2 MGD
- Peak Hour Flow - 6.5 MGD

The facility construction includes the following features:

- One 30,000 gallon sub-grade concrete wet well
- Three (3) - 1500 GPM submersible raw sewage pumps and ancillary control equipment
- One (1) - 125 KVA - Standby Power Generator
- One (1) – Wet Oxidation Odor Control Scrubber
- One (1) – 24-inch bypass sewer to the City of Goodyear
- One (1) - 36-inch RCP inlet piping.
- One (1) - 16-inch DI discharge piping (to PVWRF)

The initial construction phase of the Sarival Lift station will provide sewer service for up to 6,250 residential units by diverting up to 2.0 MGD average daily flow to the PVWRF through a newly constructed 16-inch ductile iron force main. Once the trigger flow rate of 1.2 MGD is reached at this facility, construction will begin on the first phase (4.1 MGD) SWRF.

Further details on the proposed treatment facilities are included in Section 5 of this report.
5.0 Proposed Facilities

Exhibit A shows the proposed system layouts for the proposed collection system. The proposed system is discussed in more detail below.

5.1 Collection System

Pipe layout was determined based on the geographic situation in the area, with slopes heading predominantly southeast. The chosen layout was based on the goal of serving the most properties possible using the most optimized route for the sewer line.

The construction of this sewer system should encounter few unique situations which will require special treatment. There are, however, two unique situations that should be noted. These include a crossing under the Beardsley Canal at Camelback Road and a possible crossing within the loop 303 corridor. Sufficient slope exists at both locations to provide flexibility in the depth of the sewer system. Additional costs and contingency have been allocated to provide for the additional expenses incurred by lowering the sewer and boring beneath the canal or road deck.

Numerous scenarios and pipe layouts were considered prior to the decision to recommend the systems shown in this report. The primary intent of the system is to provide a regional solution to the area in a manner consistent to the needs of the area. Serious consideration was given to the timing of development and the fair distribution of costs across the entire study group. Not only were ultimate build-out costs considered, but the up front costs were weighed in the layout decision.

5.2 Treatment Facilities

The proposed LPSCO facility, known as the Searls Water Reclamation Facility (SWRF) located south of Searls Road on McDowell Road, was planned to treat all residential and commercial sewer flows west of Bullard Avenue, between McDowell Road to the south and Bethany Road to the north. Surrounding development projects, planned for 2008, dictated the construction schedule of this facility. However, the recent sale of development properties stimulated development directly related to this facility, moving up the schedule for sewage treatment for development west of Bullard Road much sooner than originally planned.
Originally, the sewer flows from Palm Valley Phase-V were planned to flow west of Bullard Avenue to the proposed SWRF. However, the expedited development specific to Sections 18 and 19 of the current service area has been redirected to the PVWRF. This additional flow will move up the schedule for the planned expansion of the PVWRF from 2008 to 2007. LPSCO is currently preparing an Aquifer Protection Permit amendment for the expansion of PVWRF from 4.1 to 8.2 MGD. The estimated 1,423 planned residential units of the Palm Valley Phase-V development will produce an average daily sewage flow is 513,360 gallons per day (based on 320 gallons per day per dwelling unit). Utilizing a peaking factor of 2.02 derived from the Harmon equation, the peak day flow for this development is estimated to be 1,036,987 gallons per day.

The original design concept of the Sarival Lift Station is to provide interim pumping capacity to the PVWRF from the northwest service area until such time that flows increased to a level that would support startup and continuous operation of a 4.2- million gallon per day (MGD) SWRF. It is estimated that the flow rate triggering the construction of the new facility would be 1.2 MGD average daily flow.

Phase II expansion of the SWRF will increase the treatment capacity by 4.1 MGD for an ultimate build out capacity of 8.2 MGD. Once the trigger flow rate of 3.4 MGD is reached (80% of design flow), design and construction will begin on the second phase, 4.1 MGD SWRF plant expansion. Once the flow rate increases to an average daily flow of 3.4 MGD, the Sarival Lift Station will be modified by replacing two (2) 1500 GPM pumps with two (2) 3000 GPM pumps and adding one (1) additional – 3000 GPM pump, which will complete the full build out expansion of the Sarival Lift Station providing the following ultimate pumping capacity:

- **Average Daily Flow**: 8.1 MGD
- **Peak Day Flow**: 13.0 MGD
- **Peak Hour Flow**: 17.3 MGD

This will complete the full build-out expansion of the Sarival Lift Station and treatment plant providing sewer capacity for up to 25,300 residential units.
Summarizing the above, the effective project triggers are as follows (Note that Trigger 1 has already occurred):

- Trigger 1 – Palm Valley Phase-V triggers construction of the 2.0 MGD Sarival Lift Station, diverting flow to PVWRF until such time that sustained flows of 1.2 MGD warrant construction of the SWRF (currently being constructed – will be completed November 2004).
- Trigger 2 – PVWRF flows reach 3.4 MGD (80% of design flow) triggering design study and construction of plant expansion from 4.1 MGD to 8.2 MGD.
- Trigger 3 – Sarival Lift Station flows reach 1.2 MGD, triggering design study determining construction phasing of the SWRF.
- Trigger 4 – SWRF Phase I construction is completed as flows at the Sarival Lift Station increase from 1.2 MGD TO 2.0 MGD.
- Trigger 5 – Sarival Lift Station flows reach 2.0 MGD, triggering the replacement of one (1) 1500 GPM pump with one (1) 3000 GPM pump.
- Trigger 6 – Sarival Lift Station flows reach 3.4 MGD, triggering construction of the 2nd phase of the SWRF expanding treatment capacity from 4.1 to 8.2 MGD.
- Trigger 7 – Sarival Lift Station flows reach 3.4 MGD, triggering the replacement of two (2) 1500 GPM pump with two (2) 3000 GPM pump.
- Trigger 8 – Sarival Lift Station flows exceed 3.4 MGD, triggering the addition of one (1) 5000 GPM pump.

As previously mentioned, the Sarival Lift Station was initially constructed to provide sewage collection and pumping for all development west of Bullard Avenue. Due to the diversion of the planned flows of the Palm Valley Phase-V development (all development in sections 18 & 19) to the PVWRF, the Sarival Lift Station will immediately realize an additional 513,360 gallons average day flow (1423- residential units) of pumping capacity. Therefore, LPSCO currently possesses the necessary capacity to provide water and sewer service to the proposed project. Operation and maintenance of the sewage system will be in accordance with LPSCO procedures. LPSCO will provide the services in accordance with the current regulations of the Arizona Corporation Commission, the Arizona Department of Water Resources, MCESD, and any other regulatory agencies having jurisdiction.
6.0 Results

This report assumes right-of-way will be available along the proposed alignments, and that there exist no unique situations not already mentioned. Efforts have been made to verify the availability of such right-of-way, but are not guaranteed. Changes in the route will result in increased costs which should be recognized at the time of development. Also it has been assumed that there will be no issues obtaining the necessary 208 designation. Notwithstanding these situations, the plan in this report can be implemented as proposed.

7.0 Timeline

Engineering and construction of the master sewer system is expected to begin in 2004, with connections available by 2005. The schedule for the system will be very aggressive in order to best suit all of those involved.

8.0 Cost/Benefit

By sharing system components, developers can realize great savings in time and money. This system offers better system reliability than other proposed treatment solutions by reducing the necessity for pumping and number of treatment facilities. Additionally, the environmental impact of this system will be much less than the use of septic systems. A regional solution will also reduce the desirability of a septic system solution or a subdivision package plant for future developments in the general area but not involved in this study. Because the properties not included account for a small area, as seen by Exhibit A, they can be easily added at a later date. By using conservative flow rates, additional capacity will likely be realized once a historic flow has been established.
9.0 Conclusion

The wastewater collection and disposal system has been designed as a regional solution for the anticipated end users. Focus has been placed on maximizing the benefit to the region. The proposed system will accomplish this task while providing a sufficient buffer of additional capacity for unforeseen modifications to the system.

The proposed system falls within three designated 208 regional planning areas. LPSCO will be seeking approval to amend the three 208 plans, permitting LPSCO to serve the area. Amended 208 plans will improve the existing planning and allow service sooner and more economically than can be accomplished through the current plans. Because capacity is currently available, the end user will be able to begin utilizing the system immediately upon the construction of infrastructure connecting the users to the facility. Additionally, with permitting in place for additional capacity, there will be no lapse in service while additional facilities are being approved. The treatment system can be completed in phases and scaled appropriately, thus offering the most economical price through cost sharing measures. This flexibility is critical to everyone involved, and is not currently offered by any other proposed solutions.

This solution provides a regional solution which should be supported by the local municipalities, the Arizona Corporation Commission, Maricopa County Environmental Services. The proposed regional plan is also beneficial to the environment by eliminating the need for future septic systems or subdivision package plants; instead this wastewater can be processed at a state-of-the-art facility and the reclaimed water can be used to benefit the community.
References

Manuals

Arizona Secretary of State, "Arizona Administrative Code Title 18 Chapter 9 - Department of Environmental Quality Water Pollution Control," Published by The State of Arizona, effective January 1, 2001.


City of Phoenix, "City of Phoenix Supplement to Maricopa Association of Governments Uniform Standard Specifications," Published by The City of Phoenix, effective January 1, 2002.

ADEQ Bulletin

Computer Programs

AutoDesk Land Desktop, version 3, copyright 1982-2001
AutoDesk, Incorporated
111 Merlinis Parkway
San Rafael, CA 94903

Haested Methods, Incorporated
37 Brookside Road
Waterbury, CT 06708 USA
Table 1: Wastewater Flow Summary for White Tanks Regional Sanitary Sewer System (LPSCO)

<table>
<thead>
<tr>
<th>Manhole Code</th>
<th>Contributing Flow</th>
<th>Total Flow</th>
<th>Equivalent Population</th>
<th>Peak Factor</th>
<th>Peak Flow</th>
<th>Pipe Size</th>
<th>Pipe Stops</th>
<th>Maximum Pipe Flow</th>
<th>Excess Capacity</th>
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Table 2: Peak Factor Table

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Table 3: Pipe Flow Table

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<th>Pipe Size</th>
<th>Pipe Stops (inches)</th>
<th>Pipe Flow at Minimum Stop (gpd)</th>
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<td>8</td>
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Note: PF = Peak Factor

* Peaks taken from the Arizona Administrative Code (AAC) Title 15

\[ PF = \text{Upstream Population} \times \text{Flow (gpd/100}) \]

\[ PF = (0.35 \times \text{up}^{1.13} + 1.094) \times 1.128 \]

\[ \text{Pipe Size} = (4.500 \times \text{gpd})^{0.645} \]
APPENDIX D – Aquifer Protection Permit Application

This appendix contains the application for Aquifer Protection Permit (APP) submitted by LPSCo and relating to their existing and planned treatment facilities. The Draft APP amendment for the Palm Valley Water Reclamation Facility is currently under review by the Arizona Department of Environmental Quality. The Aquifer Protection Permit File number (APP) is #100310, Place ID #1014, and Letter to File (LTF) #34136.
October 11, 2001

David Ellis, General Manager
Litchfield Park Service Company
111 W. Wigwam Blvd.
Litchfield Park, Arizona 85340

Re: Litchfield Park Service Company-Palm Valley Reclamation Facility
Aquifer Protection Permit Number 100310

Dear Mr. Ellis:

Enclosed is a signed Aquifer Protection Permit with Executive Summary for the above referenced facility. The permit conditions shall apply from July 23, 2002 which is the date of the Water Quality Division Director's signature, and shall be valid for the life of the facility. Thank you for your cooperation in protecting the water quality of the State of Arizona.

If you have any questions regarding this permit or the facility, please feel free to contact me at 277-4503.

Sincerely,

Lee Soudack
Water Permits Section
Water Quality Division

cc: Reza Azizi, Supervisor, Water Quality Compliance Unit
Don Shroyer, Supervisor, Water Quality Data Unit
Lynne Dekanske, Administrative Assistant, Water Permits Section
Asif Majeed, Supervisor, Wastewater, Recharge, & Reuse Unit (letter only)
Chuck Ohr, Water Quality Enforcement Unit

MWB01-0734

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EXECUTIVE SUMMARY
AQUIFER PROTECTION PERMIT NO. 100310

Facility Name:
Litchfield Park Service Company-Palm Valley Reclamation Facility

Facility Location:
The facility will be located at 14222 McDowell Road, Goodyear, Maricopa County, Arizona, over
groundwater of the Phoenix Active Management Area (AMA) in Township 02N, Range 01W,
Section 33, Gila and Salt River Base Line and Meridian.

Regulatory Status
This is a new facility. The approval to construct for the facility will be issued by the Maricopa
County Environmental Services Department. The Aquifer Protection Permit (APP) application was
submitted on December 29, 2000.

Facility Description:
The permittee will operate a new wastewater treatment plant (WWTP) using Sequential Batch
Reactor (SBR) technology with denitrification, tertiary filtration and ultra-violet disinfection. The
WWTP shall treat 4.1 million gallons per day of domestic sewage with expansion in the future to
8.2 at which time the permittee will apply for a permit amendment. The wastewater shall be
transported for reuse according to terms and conditions of a reuse permit issued by the Department,
or discharged to the Roosevelt Irrigation District (RID) canal. There shall be no sludge drying beds
on site. Sludge shall be aerobically digested and dewatered onsite by a centrifuge process. The
dewatered sludge shall be hauled to a landfill that is approved to accept these wastes. There will be
effluent monitoring for Aquifer Water Standards inorganic chemicals and A+ reclaimed water
standards.

Best Available Demonstrated Control Technology (BADCT):
The facility will denitify the effluent to below 10.0 mg/l for total nitrogen and will disinfect using
ultra violet technology. The facility will transport wastewater to a reuse facility and to the RID
canal. This treatment plant technology, and water conservation through reuse is considered to meet
BADCT requirements.

Monitoring Requirements:
Effluent will be monitored at the sampling at the discharge line. Monitoring will include total
nitrogen, fecal coliform, enteric virus, turbidity and metals.
Compliance with Aquifer Water Quality Standards (AWQS):

The facility produces tertiary treated effluent with nitrogen removal. Due to the materials used for construction of the facility, the depth to groundwater greater than 130 feet and the effluent being used for reuse, standards will be met at the point of compliance.

Point of Compliance:

The point of compliance is located northwest of the WRF as shown in Part II.B.2.a of the permit.

Storm/Surface Water Considerations:

There are no storm/surface water considerations required for this facility.

Zoning Requirements:

The facility satisfies the necessary zoning requirements.

Financial Capability:

The permittee has provided the financial information required pursuant to A.A.C. R18-9-A203.

Technical Capability:

The permittee has contracted work for the design and construction of the facility to a company that is experienced in WWTP design and construction. The WWTP will be operated by a certified wastewater facility operator.
STATE OF ARIZONA

AQUIFER PROTECTION PERMIT NO. P-100510

PART I.

AUTHORIZATION TO DISCHARGE POLLUTANTS IN A MANNER SUCH THAT CURRENT AND REASONABLY FORESEEABLE FUTURE USES OF THE AQUIFER ARE PROTECTED

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2 and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 & 2; A.A.C. Title 18, Chapter 11, Article 4, and conditions set forth in this permit:

Facility Name: Palm Valley Water Reclamation Facility

Owner & Operator:
Litchfield Park Service Company
111 W. Wigwam Blvd., Suite B
Litchfield Park, Arizona 85340

is authorized to operate the Palm Valley Water Reclamation Facility at 14222 McDowell Road, in Goodyear, Maricopa County, Arizona, over the groundwater of the Phoenix, Active Management Area (AMA) basin in Township 02 N., Range 09 W., Section 13 NW1/4 SE1/4 SW1/4 Gila and Salt River Base Line and Meridian, as:

Latitude 33° 27' 55" North
Longitude 112° 21' 56" West

This permit shall become effective on the date of the Division Director's signature and shall be valid for the life of the facility (operational, closure, and post-closure periods) provided that the facility is constructed, operated, and maintained pursuant to all the conditions of this permit according to the design and operational information documented or referenced in PART II, III, IV, V, and VI of this Permit, and such that Aquifer Water Quality Standards are not violated.

[Signature]
Karen L. Smith, Director
Water Quality Division
Arizona Department of Environmental Quality

Signed this 29th day of July, 2001
PART II. SPECIFIC CONDITIONS

A. Discharge Limitations

1. The permittee is authorized to operate an wastewater treatment plant (WWTP) using Sequential Batch Reactor (SBR) technology with denitrification tertiary filtration and ultraviolet disinfection. The WWTP shall treat 4.1 million gallons per day of domestic sewage. The wastewater shall be transported for reuse according to terms and conditions of a reuse permit issued by the Department or discharged to the Roosevelt Irrigation District (RID) canal. There shall be no sludge drying beds on-site. Sludge shall be aerobically digested and dewatered on-site by a centrifuge process. The dewatered sludge shall be hauled to a landfill that is approved to accept these wastes. The WWTP construction shall conform to the final design report submitted with the Aquifer Protection Permit for this facility.

2. The materials authorized to be disposed of through the wastewater treatment plant are typical sewage and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.

3. Specific discharge limitations are specified in PART IV, TABLE I.

4. The permittee shall adhere to all requirements of the Operations and Maintenance (O & M) manual and any revision thereof to the O & M manual.

5. This facility is classified as generating class A+ reclaimed water according to Arizona Administrative Code R18-11-103.

B. Monitoring Requirements

1. Discharge Monitoring

Discharge from the WWTP shall be monitored according to PART IV, TABLE I.

<table>
<thead>
<tr>
<th>Identification</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>33° 27' 55&quot; N</td>
<td>112° 21' 56&quot; W</td>
</tr>
</tbody>
</table>

Discharge monitoring shall be performed at:

- After disinfection at a sample point in the discharge line.

2. Groundwater Monitoring
a. Points of Compliance

The point of compliance (POC) for this facility is designated at the following location:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest corner of the WWTP</td>
<td>33° 27' 34&quot;</td>
<td>112° 21' 54&quot;</td>
</tr>
</tbody>
</table>

The Director shall designate additional point(s) of compliance if information on groundwater gradients indicates the need.

b. Monitoring Well Locations

Monitor wells are not required.

c. Ambient Groundwater Quality Monitoring

Not required.

d. Compliance Monitoring

Groundwater monitoring may be required as defined in Contingency Plan Requirements section II.C.

2. Operational Monitoring

a. Pre-operational QA/QC Requirements

Not required.

b. Facility Maintenance Inspection

1. The pollution control structures shall be inspected for the items listed in PART II, TABLE II. A log of these inspections shall be kept at the facility for ten (10) years from the date of each inspection, available for review by ADEQ personnel.

2. If any damage of the treatment plant structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented on the Self-Monitoring Report Form (SMRF) and submitted quarterly to the ADEQ Water Quality Compliance.
c. Fissure Monitoring
   Not Required.

4. Sampling Protocols
   a. Discharge Monitoring System
      Sample collection, preservation, and holding times shall be consistent with the 1991 ADEQ Quality Assurance Project Plan or procedures described in EPA 40 CFR PART 136.

   b. Groundwater Monitoring
      Groundwater monitoring is not required in this permit unless required in a contingency plan. If groundwater monitoring is required per Contingency Plan in Part II.C., then the permittee shall follow the conditions as stated below.
      (1) Sample collection, preservation, and holding times shall be consistent with the most recent ADEQ Quality Assurance Project Plan or procedures described in EPA 40 CFR PART 136.
      (2) Static water levels shall be measured and recorded prior to sampling. Wells shall be purged of at least three borehole volumes (as calculated using the static water level) or until indicator parameters (pH, temperature, conductivity) are stable, whichever represents the greater volume. If evacuation results in the well going dry, the well should be allowed to recover to 80% of the original borehole volume, or for 24 hours, whichever is shorter, prior to sampling. If after 24 hours there is not sufficient water for sampling, the well will be recorded as dry for the monitoring event. An explanation for reduced pumping volumes, a record of the volume pumped, and modified sampling procedures shall be reported on the SMRF.

5. Installation and Maintenance of Monitoring Equipment
   a. Discharge Monitoring Equipment
      The permittee shall provide monitoring or sampling access, ports, or devices at the facility for all monitoring required in this permit.
   b. Groundwater Monitoring Equipment
      Any groundwater monitoring wells, if required by this permit or
5. Monitoring Records

The following information associated with each sample, inspection or measurement and the name of each individual who performed the sampling or measurement should be included in the monitoring records:

a. Date, time and exact place of sampling, inspection, or measurement and the name of each individual who performed the sampling or measurement.

b. Procedures used to collect the sample or make the measurement.

c. Date on which sample analysis was completed.

d. Name of each individual and laboratory who performed the analysis.

e. Analytical techniques or methods used to perform the sampling and analysis; laboratory detection limit for each test method performed; analytical variance for each parameter analyzed.

f. Chain of custody records.

g. Any field notes relating to the information described in subparagraphs a through f above.

C. Contingency and Emergency Response Plan Requirements

The permittee shall maintain at least one copy of a contingency plan(s) at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall advise anyone responsible for the operation of the facility of the location of copies of all contingency and emergency response plans.

The following requirements shall constitute the contingency plan for this facility.

1. General AL/DL Contingencies

a. Alert Level (AL) or Discharge Limit (DL) Exceedance

1(1) The permittee shall notify the Department at the address specified in PART II.H.1 within five days of becoming aware of the exceedance of an Alert Level or Discharge Limit.
(2) Verification sampling shall be conducted within five days of becoming aware that an AL or DL has been exceeded.

(3) Within five days of receiving the results of verification sampling from the laboratory, the permittee shall notify the Department of the results, at the address indicated in PART II H.1, regardless of whether the results are positive or negative.

(a) If the results of verification sampling indicate that an AL or DL has not been exceeded, the permittee shall assume that no exceedance has occurred and, unless the permittee is otherwise instructed by the Department, no further action is required until the next scheduled monitoring round.

(b) If the results verify that an AL or DL has been exceeded, the permittee shall, within 30 days of receiving the laboratory results verifying that an AL or DL has been exceeded, submit to ADEQ a Waters Quality Compliance, either (i) or (ii) of the following:

(i) A written report which includes the documentation specified in PART II H.3.b. 
Upon approval by the Department, the Department shall initiate the actions necessary to mitigate the impacts of the exceedance. At a minimum, the plan shall include provisions for more frequent sampling until constituent concentration is below the AL or DL for two consecutive samples. The plan shall indicate if any additional parameters are to be tested.

(ii) A demonstration that the AL or DL exceedance resulted from error(s) in sampling, analysis, or statistical evaluation.

(4) In the event of an AL or DL exceedance, the Department may require additional monitoring, studies, or remedial activities beyond those specified in this permit. In addition, if the permittee submits a demonstration that the AL or DL exceedance was due to error(s) in sampling, analysis, or statistical evaluation, and this demonstration is not accepted by the ADEQ, the Department may require that the permittee submit the documentation included in PART II H.3.b.
2. Accidental Discharge/Spills

   The permittee shall correct any failure that results in the violation of permit conditions and take the following action:

   a. Within 30 days of a spill that might cause the exceedance of an Aquifer Quality Limit (AQL) or might cause imminent and substantial endangerment to public health or the environment, the permittee shall submit a written report that includes the documentation required in PART IIA 3.b. to ADEQ's Water Quality Compliance. Upon review of the above required report, the Department may require additional monitoring, sampling and/or actions.

   b. In the event of an accidental spill or unauthorized discharge of suspected hazardous or toxic materials on the facility site, the related area shall be promptly isolated and attempts to identify the material shall be made. Information on persons that may have been exposed to the material will be recorded. A qualified contractor shall remove and dispose of the material according to applicable federal, state and city regulations.

3. Drainage Failure

   If a drainage structure such as a ditch or diversion beam fails or is blocked, prompt action shall be taken immediately to repair the temporary structures with readily available materials so as to minimize impacts on the facility. The temporary repairs shall be replaced by permanent repairs as soon as conditions allow. The repairs or permanent replacements of any temporary structure shall be designed to prevent future failures.

4. Emergency Response

   a. The permittee shall provide for emergency response on a 24-hour basis in the event that a condition arises which results in imminent and substantial endangerment to public health or the environment. The plan shall be kept at the facility and provide for the following:

   (1) designation of an emergency response coordinator who shall notify ADEQ's Water Quality Compliance and ensure the necessary contingency plan in the event of an emergency.
AQUIFER PROTECTION PERMIT
PERMIT NUMBER P-100310
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(2) a general description of the procedures, personnel and equipment to be used to assure appropriate mitigation of unauthorized discharges; and

(3) a list of names, addresses and telephone numbers of persons to be contacted in the event of an emergency.

b. In the event that emergency response measures are taken or those portions of the contingency plan that address an imminent and substantial endangerment are activated, the emergency response coordinator shall notify ADEQ’s Water Quality Compliance immediately.

D. Temporary Cessation

The permittee shall notify ADEQ Water Quality Compliance in writing before temporary cessation of any operation at the facility. Notification of the temporary cessation does not relieve the permittee of any permit requirements unless otherwise specified in this permit.

Accompanying the notification shall be a description of any measures to be taken to maintain discharge control systems such that discharge is minimized to the maximum extent practicable during temporary cessation.

E. Closure

1. The permittee shall notify ADEQ Water Permits Section of intent to cease, without intent to resume, an activity for which the facility was designed or operated prior to ceasing. Within 90 days following notification, the permittee shall submit for approval to ADEQ Water Quality Compliance, a closure plan which eliminates, to the greatest extent practicable, any reasonable probability of further discharge from the facility and of exceeding Aquifer Water Quality Standards at the applicable point of compliance. This plan shall be in addition to any approved closure method referenced in the facility file. The plan shall describe the following details:

a. The approximate quantities and the chemical, biological, and physical characteristics of the materials to be removed from the facility;

b. the destination of the materials to be removed from the facility and an indication that placement of the materials at that destination is approved;

c. the approximate quantities and the chemical, biological, and physical characteristics of the materials that will remain at the facility;

d. the methods to be used to treat any materials remaining at the facility;

e. the methods to be used to control the discharge of pollutants from the facility;
2. Upon completion of closure activities, the permittee shall give written notice to ADEQ Water Quality Compliance indicating that the approved closure plan has been implemented fully, and shall provide proof of the inclusion in the deed to the property of complete information about the materials buried and quantity of regulated substances remaining at the facility and any limitations on future land or water uses created as a result of the facility’s operations or closure activities.

3. Post-Closure

1. Post-closure requirements by ADEQ Water Permits Section will be based on the review of facility closure activities.

2. If a post-closure plan is required, the post-closure plan shall ensure that any reasonable probability of future discharges from the facility, and of exceeding Aquifer Water Quality Standards at the applicable points of compliance, are eliminated to the greatest extent practicable. The post-closure plan shall describe all of the following:

   a. The duration of the post-closure care.
   b. The monitoring procedures to be implemented by the permittee, including monitoring frequency, type, and location.
   c. A description of the operating and maintenance procedures to be implemented for aquifer protection devices, such as liners, treatment systems, pump-back systems, and monitoring wells.
   d. A schedule and description of physical inspections to be conducted at the facility following closure.
   e. An estimate of the cost of post-closure maintenance and monitoring.
   f. A description of limitations on future land or water uses; or both, at the facility site as a result of facility operations.

3. The permittee shall notify ADEQ Water Permits Section in writing when the post-closure activities have been completed.
G. Compliance Schedule Requirements

1. A copy of the emergency response plan shall be submitted to ADSQ Water Quality Compliance within 30 days from the effective date of this permit. The plan shall include the information as referenced in PART II.C.4.

H. Reporting Requirements

1. Reporting Location

Signed copies of all reports required herein shall be submitted to the Department.

Arizona Department of Environmental Quality
Water Quality Compliance, Data Unit (M0501B)
3033 N. Central Ave.
Phoenix, Arizona 85012
Phone Number: (602) 207-4681

2. Monitoring Reporting

b. PART IV, TABLE 1 contains the frequency for reporting results from discharge monitoring requirements. Results shall be submitted to the SMRF. Monitoring methods shall be recorded and any deviations from the methods and frequencies prescribed in this permit shall be reported.

c. The permittee shall complete the SMRF, to be supplied by the Department. The results of all monitoring required by this permit shall be submitted in such a format as to allow direct comparison with the limitations and requirements of the permit.

3. Permit Violation or Alert Level Exceedance Reporting

a. The permittee shall notify ADEQ Water Quality Compliance within five days of becoming aware of a violation of any permit condition or an Alert Level having been exceeded.

b. The permittee shall submit a written report within 30 days after becoming aware of the violation of a permit condition or of an Alert Level having been exceeded. The report shall document all of the...
AQUIFER PROTECTION PERMIT
PERMIT NUMBER P-100310

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following:

(1) A description of the violation and its cause;

(2) the period of violation, including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;

(3) any action taken or planned to mitigate the effects of the violation, or to eliminate or prevent recurrence of the violation;

(4) any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an Aquifer Water Quality Standard; and

(5) any malfunction or failure of pollution control devices or other equipment or process.

4. Amendments Reporting

a. All requests for permit amendments shall be done in accordance with PART VI.M., unless otherwise specified in this permit.

b. Requests for a significant amendment to a facility shall be submitted at least 180 calendar days before making the permit amendments.

5. Operational Reporting

a. The permittee shall report operational conditions listed in PART IV, TABLE II in the SMRF quarterly. If none of the conditions occur, the report shall say "no event" for a particular reporting period. If the facility is not in operation, the permittee shall indicate that fact in the SMRF.

b. The permittee shall submit data required in PART IV, TABLES I & II regardless of the operating status of the facility unless otherwise approved by the Department or allowed in this permit.

6. Monitoring Records Retention & Submital

The facility shall retain copies of laboratory analysis forms, and other relevant information such as documentation on sampling date and time, name of sampler, static water level prior to sampling, sampling method, purging volume, indicator parameters, analytical method, method detection limit, date of analysis, preservation and transportation procedures, and analytical facility for a period of 10 years. All analytical and inspection data shall be compiled on SMRFS and submitted to ADQ.
7. Submit of Sampling Reports:

Reports of samples taken will be submitted to ADEQ Water Quality Compliance within 30 days after the end of each quarter. The following schedule will be used:

<table>
<thead>
<tr>
<th>Samples taken during quarter beginning</th>
<th>Quarterly Report due by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 1</td>
<td>Apr 30</td>
</tr>
<tr>
<td>Apr 1</td>
<td>Jul 30</td>
</tr>
<tr>
<td>Jul 1</td>
<td>Oct 30</td>
</tr>
<tr>
<td>Oct 1</td>
<td>Jan 30</td>
</tr>
</tbody>
</table>
PART III. OTHER CONDITIONS

A. Analytical Methodology

The water samples shall be analyzed using EPA approved methods or Arizona State approved methods as long as the method detection limit is equal to or less than the limits listed in Table I, PART IV. The analysis shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure & Certification. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of certified laboratories can be obtained at the address listed below:

Arizona Department of Health Services
Office of Laboratory Licensure & Certification
1740 W. Adams Street, Room 203 North
Phoenix, Arizona 85007
Phone Number: (602) 364-0720

B. Environmental Laboratory Contact

Upon submission of the samples to a state-certified laboratory for analysis, a copy of the signed permit shall be forwarded to the laboratory for reference.
### TABLE 1: DISCHARGE MONITORING

<table>
<thead>
<tr>
<th>Sampling Point Number</th>
<th>Identification</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>after disinfection at a sample port in the discharge line²</td>
<td>33° 27' 15&quot; N</td>
<td>112° 21' 56&quot; W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Alert Level (AL)</th>
<th>Discharge Limit (DL)</th>
<th>Sample Type</th>
<th>Sampling Frequency</th>
<th>Reporting Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>3.0 MGD</td>
<td>4.1 MGD²</td>
<td>AT³</td>
<td>Daily</td>
<td>Monthly</td>
</tr>
<tr>
<td>Nitrate and Nitrite (as N)</td>
<td>NL⁴</td>
<td>NL</td>
<td>Discrete</td>
<td>Monthly</td>
<td></td>
</tr>
<tr>
<td>Total Kjeldahl Nitrogen (TKN)</td>
<td>NL</td>
<td>NL</td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
</tr>
<tr>
<td>Enteric Virus (4 of 7 samples)</td>
<td>NL</td>
<td>None⁵ detected per 40 liter sample</td>
<td>AT</td>
<td>Monthly</td>
<td></td>
</tr>
</tbody>
</table>

¹ All Discharge Limits in this table are listed in mg/l except flow which is in million gallons per day (MGD).
² Turbidity samples shall be taken after filtration and before disinfection.
³ MGD equals million gallons per day based on average daily monthly flow.
⁴ Appropriate Technology.
⁵ Total Nitrogen equals Nitrate-Nitrite plus TKN.
⁶ NL means no limit.
⁷ When the first four samples of no greater than seven are non detect, sampling for Enteric Virus will be suspended and the permittee may place "sampling not required" in the SMRF. This shall continue until turbidity exceedances occur (see footnote ² 9).
<table>
<thead>
<tr>
<th>Parameter</th>
<th>AL</th>
<th>DL</th>
<th>Reporting Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>0.04</td>
<td>0.85</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Antimony</td>
<td>0.0048</td>
<td>0.006</td>
<td></td>
</tr>
<tr>
<td>Barium</td>
<td>1.8</td>
<td>2.0</td>
<td>&quot;</td>
</tr>
<tr>
<td>Beryllium</td>
<td>0.0032</td>
<td>0.004</td>
<td>&quot;</td>
</tr>
<tr>
<td>Cadmium</td>
<td>0.004</td>
<td>0.003</td>
<td>&quot;</td>
</tr>
<tr>
<td>Chromium</td>
<td>0.03</td>
<td>0.10</td>
<td>&quot;</td>
</tr>
<tr>
<td>Fluoride</td>
<td>3.2</td>
<td>4.0</td>
<td>&quot;</td>
</tr>
<tr>
<td>Lead</td>
<td>0.04</td>
<td>0.95</td>
<td>&quot;</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.0016</td>
<td>0.002</td>
<td>&quot;</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.08</td>
<td>0.10</td>
<td>&quot;</td>
</tr>
<tr>
<td>Selenium</td>
<td>0.04</td>
<td>0.05</td>
<td>&quot;</td>
</tr>
<tr>
<td>Thallium</td>
<td>0.0016</td>
<td>0.002</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

* NTU means nephelometric turbidity unit.
* Appropriate technology for turbidity monitoring shall be an instrument with a signal averaging time not exceeding 120 seconds. Any exceedance of the single sample reading or the 24 hour average shall result in sampling for enteric virus according to the sampling schedule in this table, except that occasional spikes in the turbidity measurement due to backflushing or an instrumental malfunction will not be considered an exceedance. An exceedance must be explained and submitted to the Department with the corresponding quarterly Self Monitoring Report Form.
* Means a single maximum reading during the 24 hour period.
* Means continuous readings 24 hours per day, and is reported as a 24 hour average.
* "Daily" means every day on which a sample can practically be obtained and delivered in sufficient time for proper analysis, provided that no less than four samples in each calendar week are obtained and analyzed.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>AL</th>
<th>DL</th>
<th>Sampling Frequency</th>
<th>Reporting Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>0.04</td>
<td>0.05</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Ammonium</td>
<td>0.0048</td>
<td>0.006</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barium</td>
<td>1.8</td>
<td>2.0</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Beryllium</td>
<td>0.0032</td>
<td>0.004</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Cadmium</td>
<td>0.004</td>
<td>0.005</td>
<td>&quot;</td>
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<tr>
<td>Chromium</td>
<td>0.08</td>
<td>0.10</td>
<td>&quot;</td>
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<tr>
<td>Fluoride</td>
<td>3.2</td>
<td>4.0</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Lead</td>
<td>0.04</td>
<td>0.05</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.0016</td>
<td>0.002</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.08</td>
<td>0.1</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Selenium</td>
<td>0.04</td>
<td>0.05</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Thallium</td>
<td>0.0016</td>
<td>0.002</td>
<td>&quot;</td>
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</tr>
</tbody>
</table>

9 NTU means nephelometric turbidity unit.
10 Appropriate technology for turbidity monitoring shall be an instrument with a signal averaging time not exceeding 120 seconds. Any exceedance of the single sample reading or the 24 hour average shall result in sampling for enteric virus according to the sampling schedule in (b) of Table, except that occasional spikes in the turbidity measurement due to backflushing or an instrument malfunction will not be considered an exceedance. An exceedance must be explained and submitted to the Department with the corresponding quarterly Self Monitoring Report Form.
11 Means a single maximum reading during the 24 hour period.
12 Means continuous readings 24 hours per day, and is reported as a 24 hour average.
13 "Daily" means every day on which a sample can practically be obtained and delivered in sufficient time for proper analysis, provided that no less than four samples in each calendar week are obtained and analyzed.
PART V REFERENCES: PERTINENT INFORMATION

A. References

The terms and conditions set forth in this permit have been developed based upon the information contained in the following:

1. Field Inspection Form(s) dated: None
2. Permit Application dated: 12/29/00
3. Engineering Review File Number:
5. Preliminary Decision to Issue dated:
7. Public Hearing comments, correspondence and any additional supplemental information contained in the permit file: None
8. Other:

B. Facility Information

1. Facility Contact Person: David Ellis
   Title: General Manager
2. Address: Litchfield Park Service Company
   111 W. Wigwam Blvd.
   Litchfield Park, Arizona 85340
3. Emergency Telephone Number: 623-935-9567
   The Department shall be notified within 30 days of the change in facility contact person.
4. Landowner of Facility Site: Litchfield Park Service Company
   111 W. Wigwam Blvd.
   Litchfield Park, Arizona 85340
PART VI. GENERAL CONDITIONS AND RESPONSIBILITIES

A. Annual Registration Fees.

The permittee shall pay an Annual Registration Fee to ADQ. The Annual Registration Fee is based upon the amount of daily return or discharge of pollutants in gallons per day as established by ARS § 49-243(2). The fee is payable to ADQ by January 31, each year.

B. Duty to Comply. [A.R.S. §§ 49-221 through 361]

The permittee shall comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes and Title 11, Chapter 9, Articles 1 through 4 and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit modification, suspension, or revocation.

C. Duty to provide information. [A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for modifying, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

D. Severability. [A.R.S. § 49-243(K)(8)]

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

E. Proper Operation and Maintenance. [A.R.S. § 49-243(K)(8)]

The permittee shall, at all times, properly operate and maintain all facilities, treatment processes, and discharge control systems which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

F. Compliance with Aquifer Water Quality Standards. [A.R.S. § 49-243(H)(2) and (B)(3)]

The permittee shall not cause or contribute to a violation of an aquifer water quality standard at the applicable point of compliance for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an aquifer water quality standard for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

G. Technical and Financial Capability. [A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A290(B) and R18-9-A003(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial
capability in the permit application, pursuant to A.A.C. R18-9-A203(D), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

H. Reporting of Bankruptcy or Environmental Enforcement. [A.A.C. R18-9-A207(C)]
The permittee shall notify the Director within five days after the occurrence of any one of the following:
1. The filing of bankruptcy by the permittee.
2. The entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

I. Monitoring and Records. [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]
The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221, 49-223 and 49-241 through 49-212.
1. Samples and measurement taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall retain records of all monitoring information, including:
   a. Copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of 10 years from the date of the sample, measurement report or application. This period may be extended by request of the Director at any time.
3. At a minimum, records of monitoring information shall include:
   a. The date, time, and exact place of sampling or measurements
   b. The individual(s) who performed the sampling or measurements
   c. The date(s) analyses were performed
   d. The individual(s) who performed the analyses
   e. The analytical techniques or methods used
   f. The results of such analyses
   g. The chain of custody records, and
   h. Any field notes relating to the information described in (a) - (g) above.

J. Other Information. [A.R.S. § 49-243(K)(8)]
Where the permittee becomes aware of any information that is not correct, complete or correct facts or information.

K. Inspection and Entry. [A.R.S. §§ 49-203(b) and 49-243(K)(8)]
The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit. In so doing, the Department representative may:
1. Enter upon the operator’s premises where a regulated facility or activity is located or conducted, or locations where records must be kept under the conditions of this permit.
AQUIFER PROTECTION PERMIT
PERMIT NUMBER P-100310

Page 20 of 20

2. Have access to and copy, at reasonable times, any records required to be kept under the conditions of this permit.

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance, any substances or parameters at any location.

5. Take photographs or video tape...

6. Take other actions reasonably necessary to determine compliance with Aquifer Protection Permit statutes or rules or the terms and conditions of this permit.

L. Duty to Modify. [A.R.S. § 49-2-23(K)(B)]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.


This permit may be amended, transferred, renewed, or revoked for cause, under the rules of the Department. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition. The Director shall issue a public notice of all proposed permit actions pursuant to A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213.

1. Permit Reopen.

The Director may reopen this permit and amend it pursuant to A.A.C. R18-9-A211.

2. Permit Transfer.

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. No transfer will be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).

The operator shall notify the Water Permit Section in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operator of the terms of this permit and the need for permit transfer in accordance with the rules.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Performance Levels</th>
<th>Inspection Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Integrity</td>
<td>Good Working Condition</td>
<td>Weekly</td>
</tr>
<tr>
<td>Treatment Plant Components</td>
<td>Good Working Condition</td>
<td>Weekly</td>
</tr>
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</table>
APPENDIX E – MAG Regional Analysis Zones and Population Projections

The Regional Analysis Zone map and the population projections in this appendix were copied from the MAG 208 Water Quality Management Plan, October 2002.
## POPULATION PROJECTIONS SUMMARY – MAG 208 WQMP REVISION

<table>
<thead>
<tr>
<th>Year</th>
<th>2000</th>
<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
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<tbody>
<tr>
<td>MAG Planning Area Population Summary</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Total Resident</td>
<td>2,954,150</td>
<td>3,329,530</td>
<td>3,709,575</td>
<td>4,101,775</td>
<td>4,516,100</td>
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<tr>
<td>Total Non-resident</td>
<td>89,174</td>
<td>95,441</td>
<td>103,395</td>
<td>114,067</td>
<td>125,026</td>
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<tr>
<td>Transient</td>
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<td>38,737</td>
<td>41,242</td>
<td>43,164</td>
<td>45,125</td>
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<tr>
<td>Seasonal</td>
<td>53,056</td>
<td>56,704</td>
<td>62,153</td>
<td>70,803</td>
<td>79,901</td>
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<tr>
<td>Total</td>
<td>3,132,486</td>
<td>3,520,432</td>
<td>3,916,365</td>
<td>4,329,509</td>
<td>4,766,152</td>
</tr>
</tbody>
</table>

Resident and Seasonal Population by 2008 Planning Region and Municipal Planning Area

### Northeast Region

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<thead>
<tr>
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<tbody>
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<td>Cave Creek</td>
<td>4,231</td>
<td>6,463</td>
<td>9,188</td>
<td>11,398</td>
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<td>Carefree</td>
<td>3,041</td>
<td>3,578</td>
<td>4,760</td>
<td>5,196</td>
<td>5,964</td>
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<tr>
<td>Scottsdale</td>
<td>206,429</td>
<td>244,556</td>
<td>273,343</td>
<td>297,940</td>
<td>311,047</td>
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<tr>
<td>Fountain Hills</td>
<td>18,745</td>
<td>20,113</td>
<td>34,939</td>
<td>52,860</td>
<td>54,099</td>
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<tr>
<td>Paradise Valley</td>
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<td>13,388</td>
<td>13,587</td>
<td>13,734</td>
<td>13,760</td>
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<td>SRPMIC</td>
<td>6,851</td>
<td>6,975</td>
<td>7,024</td>
<td>7,162</td>
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<tr>
<td>County - Rito Verde</td>
<td>1,152</td>
<td>1,179</td>
<td>2,126</td>
<td>1,253</td>
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<tr>
<td>County - Spur Cross</td>
<td>58</td>
<td>58</td>
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<tr>
<td>Fort McDowell</td>
<td>750</td>
<td>838</td>
<td>944</td>
<td>1,097</td>
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<td>Subtotal</td>
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<td>303,148</td>
<td>345,059</td>
<td>390,698</td>
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### Northwest Region

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<tr>
<td>Peoria</td>
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<td>130,910</td>
<td>145,791</td>
<td>172,138</td>
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<td>Surprise</td>
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<td>38,486</td>
<td>43,165</td>
<td>49,205</td>
<td>54,143</td>
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<tr>
<td>El Mirage</td>
<td>6,605</td>
<td>6,678</td>
<td>6,702</td>
<td>6,680</td>
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<tr>
<td>Youngtown</td>
<td>2,978</td>
<td>3,040</td>
<td>3,119</td>
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<td>3,286</td>
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<td>Glendale</td>
<td>215,477</td>
<td>235,803</td>
<td>259,806</td>
<td>287,873</td>
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<td>Luke AFB</td>
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### Southeast Area

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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mesa</td>
<td>444,043</td>
<td>500,151</td>
<td>561,764</td>
<td>591,196</td>
<td>619,228</td>
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<tr>
<td>Tempe</td>
<td>166,207</td>
<td>172,458</td>
<td>176,879</td>
<td>185,392</td>
<td>185,862</td>
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<tr>
<td>Guadalupe</td>
<td>5,506</td>
<td>5,685</td>
<td>5,724</td>
<td>5,731</td>
<td>5,736</td>
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<tr>
<td>Chandler</td>
<td>171,099</td>
<td>199,967</td>
<td>223,398</td>
<td>242,995</td>
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<tr>
<td>Gilbert</td>
<td>108,688</td>
<td>132,978</td>
<td>174,856</td>
<td>201,616</td>
<td>245,440</td>
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<tr>
<td>Queen Creek</td>
<td>7,452</td>
<td>10,735</td>
<td>14,042</td>
<td>17,283</td>
<td>20,584</td>
</tr>
<tr>
<td>County - Sun Lakes</td>
<td>13,241</td>
<td>15,800</td>
<td>18,539</td>
<td>22,169</td>
<td>26,839</td>
</tr>
<tr>
<td>Subtotal</td>
<td>916,836</td>
<td>1,037,854</td>
<td>1,175,201</td>
<td>1,264,382</td>
<td>1,365,276</td>
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### Southwest Area

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Buckeye</td>
<td>18,084</td>
<td>22,385</td>
<td>28,176</td>
<td>51,446</td>
<td>82,416</td>
</tr>
<tr>
<td>Goodyear</td>
<td>19,939</td>
<td>28,594</td>
<td>38,425</td>
<td>58,712</td>
<td>93,396</td>
</tr>
<tr>
<td>Litchfield Park</td>
<td>4,942</td>
<td>6,583</td>
<td>8,519</td>
<td>12,629</td>
<td>14,778</td>
</tr>
<tr>
<td>Avondale</td>
<td>29,450</td>
<td>32,922</td>
<td>37,909</td>
<td>52,307</td>
<td>85,294</td>
</tr>
<tr>
<td>Tolleson</td>
<td>4,525</td>
<td>4,783</td>
<td>6,955</td>
<td>7,603</td>
<td>8,267</td>
</tr>
<tr>
<td>Unincorporated Areas</td>
<td>1,471</td>
<td>2,559</td>
<td>3,472</td>
<td>5,166</td>
<td>7,816</td>
</tr>
<tr>
<td>Subtotal</td>
<td>78,411</td>
<td>97,086</td>
<td>123,456</td>
<td>187,863</td>
<td>29,967</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>POPULATION PROJECTIONS SUMMARY – MAG 208 WQMP REVISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>Central Area</td>
</tr>
<tr>
<td>Phoenix</td>
</tr>
<tr>
<td>Outlying Areas</td>
</tr>
<tr>
<td>Wickenburg</td>
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<tr>
<td>Gila Bend</td>
</tr>
<tr>
<td>GRIC</td>
</tr>
<tr>
<td>County SW</td>
</tr>
<tr>
<td>County SE</td>
</tr>
<tr>
<td>County NE</td>
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<td>SROG</td>
</tr>
<tr>
<td>Phoenix</td>
</tr>
<tr>
<td>Youngtown</td>
</tr>
<tr>
<td>Glendale</td>
</tr>
<tr>
<td>Tempe</td>
</tr>
<tr>
<td>Mesa</td>
</tr>
<tr>
<td>Scottsdale</td>
</tr>
<tr>
<td>Subtotal</td>
</tr>
</tbody>
</table>

Notes:
1. The resident population, housing unit and employment projections are consistent with the October 27, 1995 Special Census.
2. The resident population and employment projections were prepared to be consistent with the county population control totals developed by the Department of Economic Security (DES) and approved by the director of DES in January 1997 as required by Executive Order 96-2.
3. These projections were based on planned and proposed development and adopted land use plans.
4. These projections should be used with caution. They are subject to fluctuation as a result of changes in economic and development conditions.

Prepared by Carollo Engineers for the purpose of 208 Water Quality Management Planning, based on "MAC Socioeconomic Projections Interim Report, June 1997."
### Table 2.5 Population Projection: Southeast Region

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mesa</td>
<td>444,643</td>
<td>500,151</td>
<td>561,764</td>
<td>591,196</td>
<td>619,228</td>
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<tr>
<td>Tempe</td>
<td>166,207</td>
<td>172,458</td>
<td>176,878</td>
<td>183,392</td>
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<td>Guadalupe</td>
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<td>5,665</td>
<td>5,724</td>
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<tr>
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<td>199,967</td>
<td>223,398</td>
<td>242,995</td>
<td>261,587</td>
</tr>
<tr>
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<td>132,978</td>
<td>174,856</td>
<td>201,616</td>
<td>245,440</td>
</tr>
<tr>
<td>Queen Creek</td>
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<td>10,735</td>
<td>14,042</td>
<td>17,283</td>
<td>20,584</td>
</tr>
<tr>
<td>County (Sun Lakes)</td>
<td>13,241</td>
<td>15,900</td>
<td>18,539</td>
<td>22,169</td>
<td>26,339</td>
</tr>
<tr>
<td>Total</td>
<td>916,836</td>
<td>1,037,854</td>
<td>1,175,201</td>
<td>1,264,382</td>
<td>1,365,276</td>
</tr>
</tbody>
</table>


#### 2.2.4 Southwest Region

The southwest region of the MAG Planning Area is comprised of the MAG member agencies of Buckeye, Goodyear, Litchfield Park, Avondale, and Tolleson. These communities are shown on Figure 2.5. Additionally, there are unincorporated areas within this region. The population projections for the southwest region are summarized in Table 2.5. This area is projected to significantly increase its share of the County total population from 2.6 percent in 2000 to 6.4 percent in 2020.

#### Figure 2.5 MAG Southwest Region
### 2.2.5 Central Region

The City of Phoenix incorporated limits comprise the entire Central Region as shown on Figure 2.6. The population projections for the planning period are summarized in Table 2.7. This region is the most fully developed and populated of the five regions. The Central Region’s share of the County total population is projected to decrease from 43.6 percent in 2000 to 39.4 percent in 2020. Despite the decreased share of total population, the Central Region will maintain the largest share of the total population compared to the Southeast Region over the planning horizon.

**Figure 2.6** MAG Central Region

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Buckeye</td>
<td>18,084</td>
<td>22,385</td>
<td>28,170</td>
<td>51,446</td>
<td>82,416</td>
</tr>
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<td>28,504</td>
<td>38,425</td>
<td>58,712</td>
<td>93,396</td>
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<tr>
<td>Litchfield Park</td>
<td>4,942</td>
<td>6,583</td>
<td>8,519</td>
<td>12,029</td>
<td>14,778</td>
</tr>
<tr>
<td>Avondale</td>
<td>29,450</td>
<td>32,922</td>
<td>37,909</td>
<td>52,307</td>
<td>85,294</td>
</tr>
<tr>
<td>Tolleson</td>
<td>4,525</td>
<td>4,783</td>
<td>6,855</td>
<td>7,603</td>
<td>8,267</td>
</tr>
<tr>
<td>County</td>
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<td>2,509</td>
<td>3,472</td>
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<tr>
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<td>97,686</td>
<td>123,456</td>
<td>187,863</td>
<td>291,967</td>
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</table>

*Table 2.6 Population Projection: Southwest Region (MAG 208 Water Quality Management Plan Update)*

APPENDIX F - LPSCo Financial Assurances

The financial statements in this appendix demonstrate the ability of the LPSCo to construct operate and maintain the wastewater system over its useful life.

The letter in this appendix documents the financial capability to construct the Regional Sanitary Sewer.
ARIZONA CORPORATION COMMISSION
UTILITIES DIVISION

ANNUAL REPORT MAILING LABEL – MAKE CHANGES AS NECESSARY

SW-01428A
Litchfield Park Service Company - Sewer
111 W. Wigwam Blvd, Suite B
Litchfield Park, AZ 85340

ANNUAL REPORT

FOR YEAR ENDING

12 31 2004

FOR COMMISSION USE
ANN05 04
Statutory Agent: C T Corporation System

3235 N Central Ave
Phoenix AZ 85012

(602) 277-4792

Telephone No. (Include Area Code) Fax No. (Include Area Code) Pager/Cell No. (Include Area Code)

Attorney: Richard Sallquist @ Sallquist & Drummond, P.C.

4500 South Lake Shore Drive, Suite 339
Tempe, AZ 85282

(480) 345-8412

Telephone No. (Include Area Code) Fax No. (Include Area Code) Pager/Cell No. (Include Area Code)

☐ Please mark this box if the above address(es) have changed or are updated since the last filing.

OWNERSHIP INFORMATION

Check the following box that applies to your company:

☐ Sole Proprietor (S) ☒ C Corporation (C) (Other than Association/Co-op)
☐ Partnership (P) ☐ Subchapter S Corporation (Z)
☐ Bankruptcy (B) ☐ Association/Co-op (A)
☐ Receivership (R) ☐ Limited Liability Company
☐ Other (Describe)

CORTNIES SERVED

Check the box below for the county(ies) in which you are certificated to provide service:

☐ APACHE ☐ COCHISE ☐ COCONINO
☐ GILA ☐ GRAHAM ☐ GREENLEE
☐ LA PAZ ☒ MARICOPA ☐ MOHAVE
☐ NAVAJO ☐ PIMA ☐ PINAL
☐ SANTA CRUZ ☐ YAVAPAI ☐ YUMA
☐ STATEWIDE
### CALCULATION OF DEPRECIATION EXPENSE

<table>
<thead>
<tr>
<th>Acct. No.</th>
<th>DESCRIPTION</th>
<th>Original Cost (1)</th>
<th>Depreciation Percentage (2)</th>
<th>Depreciation Expense (1\times2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>351</td>
<td>Organization</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>352</td>
<td>Franchises</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>353</td>
<td>Land and Land Rights</td>
<td>1,783,426</td>
<td>294,018</td>
<td></td>
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<tr>
<td>354</td>
<td>Structures and Improvements</td>
<td>9,077,845</td>
<td>294,018</td>
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<tr>
<td>355</td>
<td>Power Generation Equipment</td>
<td>305,488</td>
<td>12,406</td>
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<tr>
<td>360</td>
<td>Collection Sewers - Force</td>
<td>263,636</td>
<td>4,693</td>
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<tr>
<td>361</td>
<td>Collection Sewers - Gravity</td>
<td>14,003,065</td>
<td>238,486</td>
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<tr>
<td>362</td>
<td>Special Collecting Structures</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>363</td>
<td>Services to Customers</td>
<td>3,454,790</td>
<td>68,791</td>
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<td>364</td>
<td>Flow Measuring Devices</td>
<td>22,188</td>
<td>1,213</td>
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<tr>
<td>365</td>
<td>Flow Measuring Installations</td>
<td>13,378</td>
<td>1,115</td>
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<tr>
<td>370</td>
<td>Receiving Wells</td>
<td>855,200</td>
<td>28,507</td>
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<tr>
<td>380</td>
<td>Treatment and Disposal Equip.</td>
<td>4,300,202</td>
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<tr>
<td>381</td>
<td>Plant Sewers</td>
<td>23,117</td>
<td>1,156</td>
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<td>382</td>
<td>Outfall Sewer Lines</td>
<td>343,681</td>
<td>11,456</td>
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<tr>
<td>389</td>
<td>Other Plant and Misc. Equipment</td>
<td>110,308</td>
<td>4,291</td>
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<tr>
<td>390</td>
<td>Office Furniture and Equipment</td>
<td>126,871</td>
<td>7,931</td>
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<tr>
<td>391</td>
<td>Transportation Equipment</td>
<td>225</td>
<td>45</td>
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<tr>
<td>393</td>
<td>Tools, Shop and Garage Equip.</td>
<td>18,746</td>
<td>937</td>
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<td>394</td>
<td>Laboratory Equipment</td>
<td>84,159</td>
<td>8,075</td>
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<tr>
<td>395</td>
<td>Power Operated Equipment</td>
<td>1,364,823</td>
<td>168,261</td>
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<td>398</td>
<td>Other Tangible Plant</td>
<td>334,219</td>
<td>32,701</td>
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<td></td>
<td>SUBTOTAL</td>
<td>36,485,366</td>
<td>1,096,916</td>
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<tr>
<td></td>
<td>CIAC Amortization</td>
<td></td>
<td>(178,152)</td>
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<tr>
<td></td>
<td>TOTALS</td>
<td>36,485,366</td>
<td>918,763</td>
<td></td>
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</tbody>
</table>

This amount goes on Comparative Statement of Income and Expense Acct. 403
<table>
<thead>
<tr>
<th>Acct. No.</th>
<th>CURRENT LIABILITIES</th>
<th>BALANCE AT BEGINNING OF TEST YEAR</th>
<th>BALANCE AT END OF YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>231</td>
<td>Accounts Payable</td>
<td>$586,693</td>
<td>$315,981</td>
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<tr>
<td>232</td>
<td>Notes Payable (Current Portion)</td>
<td>140,000</td>
<td>195,000</td>
</tr>
<tr>
<td>234</td>
<td>Notes/Accounts Payable to Associated Companies</td>
<td>8,482,113</td>
<td>8,969,278</td>
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<tr>
<td>235</td>
<td>Customer Deposits</td>
<td>220,870</td>
<td>236,210</td>
</tr>
<tr>
<td>236</td>
<td>Accrued Taxes</td>
<td>322,296</td>
<td>128,149</td>
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<tr>
<td>237</td>
<td>Accrued Interest</td>
<td>266,054</td>
<td>195,012</td>
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<tr>
<td>241</td>
<td>Miscellaneous Current and Accrued Liabilities</td>
<td>103,778</td>
<td>47,846</td>
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<tr>
<td>241 TOTAL CURRENT LIABILITIES</td>
<td>$6,120,804</td>
<td>$10,027,475</td>
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<tr>
<td>224</td>
<td>Long-Term Notes and Bonds</td>
<td>$12,327,420</td>
<td>$12,161,759</td>
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<tr>
<td>252</td>
<td>Advances in Aid of Construction</td>
<td>$15,203,825</td>
<td>$22,552,904</td>
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<tr>
<td>253</td>
<td>Other Deferred Credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>255</td>
<td>Accumulated Deferred Investment Tax Credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>271</td>
<td>Contributions in Aid of Construction</td>
<td>7,507,671</td>
<td>13,646,610</td>
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<tr>
<td>272</td>
<td>Less: Amortization of Contributions</td>
<td>1,283,203</td>
<td>1,529,632</td>
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<tr>
<td>281</td>
<td>Accumulated Deferred Income Tax</td>
<td>474,436</td>
<td>474,436</td>
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<tr>
<td>281 TOTAL DEFERRED CREDITS</td>
<td>$21,922,630</td>
<td>$35,144,318</td>
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<tr>
<td>201</td>
<td>Common Stock Issued</td>
<td>$78,200</td>
<td>$78,200</td>
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<tr>
<td>211</td>
<td>Other Paid in Capital</td>
<td>14,118,180</td>
<td>14,118,180</td>
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<tr>
<td>215</td>
<td>Retained Earnings</td>
<td>2,892,209</td>
<td>4,982,635</td>
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<tr>
<td>218</td>
<td>Proprietary Capital (Solo Props and Partnerships)</td>
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<td></td>
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<tr>
<td>218 TOTAL CAPITAL</td>
<td>$17,088,590</td>
<td>$19,179,015</td>
<td></td>
</tr>
<tr>
<td>201 TOTAL LIABILITIES AND CAPITAL</td>
<td>$57,439,444</td>
<td>$76,512,568</td>
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</tr>
</tbody>
</table>
### SUPPLEMENTAL FINANCIAL DATA
#### Long-Term Debt

<table>
<thead>
<tr>
<th></th>
<th>LOAN #1</th>
<th>LOAN #2</th>
<th>LOAN #3</th>
<th>LOAN #4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Issued</td>
<td>04/01/1999</td>
<td>06/01/2001</td>
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<td></td>
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<tr>
<td>Source of Loan</td>
<td>IDA</td>
<td>IDA</td>
<td></td>
<td></td>
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<tr>
<td>ACC Decision No.</td>
<td>61655</td>
<td>63775</td>
<td></td>
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</tr>
<tr>
<td>Reason for Loan</td>
<td>Capital Expansion</td>
<td>Capital Expansion</td>
<td></td>
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<tr>
<td>Dollar Amount Issued</td>
<td>$5,335,000</td>
<td>$7,500,000</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Amount Outstanding</td>
<td>$4,815,000</td>
<td>$7,500,000</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Date of Maturity</td>
<td>10/01/2023</td>
<td>10/01/2031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interest Rate</td>
<td>5.88%</td>
<td>6.70%</td>
<td>%</td>
<td>%</td>
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<tr>
<td>Current Year Interest</td>
<td>$262,887</td>
<td>$435,402</td>
<td>$</td>
<td>$</td>
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<tr>
<td>Current Year Principle</td>
<td>$140,000</td>
<td>$0.00</td>
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<td>$</td>
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</table>
### WASTEWATER COMPANY PLANT DESCRIPTION (CONTINUED)

#### COLLECTION MAINS

<table>
<thead>
<tr>
<th>Size (in inches)</th>
<th>Material</th>
<th>Length (in feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>VCP</td>
<td>208,097</td>
</tr>
<tr>
<td>6&quot;</td>
<td>VCP</td>
<td>4,662</td>
</tr>
<tr>
<td>8&quot;</td>
<td>VCP</td>
<td>908,468</td>
</tr>
<tr>
<td>10&quot;</td>
<td>VCP</td>
<td>45,084</td>
</tr>
<tr>
<td>12&quot;</td>
<td>VCP</td>
<td>32,021</td>
</tr>
<tr>
<td>15&quot;</td>
<td>VCP</td>
<td>64,986</td>
</tr>
<tr>
<td>18&quot;</td>
<td>VCP</td>
<td>17,635</td>
</tr>
<tr>
<td>21&quot;</td>
<td>VCP</td>
<td>23,016</td>
</tr>
<tr>
<td>24&quot;</td>
<td>VCP</td>
<td>10,480</td>
</tr>
<tr>
<td>30&quot;</td>
<td>VCP</td>
<td>3,663</td>
</tr>
</tbody>
</table>

#### SERVICES

<table>
<thead>
<tr>
<th>Size (in inches)</th>
<th>Material</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>VCP</td>
<td>69,848</td>
</tr>
<tr>
<td>6</td>
<td>VCP</td>
<td>224</td>
</tr>
<tr>
<td>8</td>
<td>VCP</td>
<td>3</td>
</tr>
</tbody>
</table>

### FOR THE FOLLOWING FIVE ITEMS, LIST THE UTILITY OWNED ASSETS IN EACH CATEGORY

#### SOLIDS PROCESSING AND HANDLING FACILITIES

- Aerobic Digester/Centrifuge

#### DISINFECTION EQUIPMENT (Chlorinator, Ultra-Violet, Etc.)

- Ultra-Violet

#### FILTRATION EQUIPMENT (Rapid Sand, Slow Sand, Activated Carbon, Etc.)

- Aqua Disk-Filter Disk

#### STRUCTURES (Buildings, Fences, Etc.)

The facility currently contains 4 steel frame buildings w/ concrete masonry unit (CMU) facia on enclosed concrete tank structures. The facility is bordered by aluminum fencing and gates.

#### OTHER (Laboratory Equipment, Tools, Vehicles, Standby Power Generators, Etc.)

- 1 Standby Generator, Tools, Lab Equipment, 8 Vehicles, 2 golf carts, 3 trailers
<table>
<thead>
<tr>
<th>STATISTICAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of customers</td>
</tr>
<tr>
<td>Total number of gallons treated</td>
</tr>
</tbody>
</table>
COMPANY NAME: Litchfield Park Service Company YEAR ENDING 12/31/2004

PROPERTY TAXES

Amount of actual property taxes paid during Calendar Year 2004 was: $264,898.21

Attach to this annual report proof (e.g. property tax bills stamped "paid in full" or copies of cancelled checks for property tax payments) of any and all property taxes paid during the calendar year.

If no property taxes paid, explain why: __________________________________________

______________________________

______________________________

______________________________

______________________________
P.O. Box 3153
Phoenix, AZ 85001-3153

One Hundred Thirty Seven Thousand Six Hundred Ninety Dollars and 35 Cents

PAY TO THE ORDER OF
Maricopa County Treasurer
P.O. Box 3153
Phoenix, AZ 85001-3153

Litchfield Park Service Company Inc.

001820

DATE
September 17, 2004

AMOUNT
US$137,699.35

U.S. Funds

Litchfield Park Service Company Inc.

Robert Davis

$22491.259 766 128 843 + 61987792 E 4997974248310

514027543

00000000000 200409305232301 200409305232301

Location Acct # Check # Amount Issue Date Paid Date Sequence Customer Date Bank #

CO 829182 8230 537 603.35 8/24/2004 8/14/2004 60364

GL Category CD VoldID/GMS Key CD Label

00000000000 200409305232301 200409305232301

Printed using ACCORD IMX Activex Control
VERIFICATION AND
SWORN STATEMENT
Intrastate Revenues Only

VERIFICATION

STATE OF ARIZONA
I, THE UNDERSIGNED
OF THE

COUNTY OF MARICOPA
NAME, OWNER OR OFFICIAL TITLE
Peter Kampilan, Chief Financial Officer
COMPANY NAME
Litchfield Park Service Company

DO SAY THAT THIS ANNUAL UTILITY REPORT TO THE ARIZONA CORPORATION COMMISSION

FOR THE YEAR ENDING

<table>
<thead>
<tr>
<th>NORTH</th>
<th>DAY</th>
<th>YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>31</td>
<td>2004</td>
</tr>
</tbody>
</table>

HAS BEEN PREPARED UNDER MY DIRECTION, FROM THE ORIGINAL BOOKS, PAPERS AND RECORDS OF SAID UTILITY, THAT I HAVE CAREFULLY EXAMINED THE SAME, AND DECLARE THE SAME TO BE A COMPLETE AND CORRECT STATEMENT OF BUSINESS AND AFFAIRS OF SAID UTILITY FOR THE PERIOD COVERED BY THIS REPORT IN RESPECT TO EACH AND EVERY MATTER AND THING SET FORTH, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

SWORN STATEMENT

IN ACCORDANCE WITH THE REQUIREMENT OF TITLE 40, ARTICLE 8, SECTION 40-401, ARIZONA REVISED STATUTES, IT IS HEREBIN REPORTED THAT THE GROSS OPERATING REVENUE OF SAID UTILITY DERIVED FROM ARIZONA INTRASTATE UTILITY OPERATIONS DURING CALENDAR YEAR 2004 WAS:

Arizona Intrastate Gross Operating Revenue Only (x)
$4,977,286

(THE AMOUNT IN BOX ABOVE INCLUDES $ 0 IN SALES TAXES BILLED, OR COLLECTED)

**REVENUE REPORTED ON THIS PAGE MUST INCLUDE SALES TAXES BILLED OR COLLECTED. IF FOR ANY OTHER REASON, THE REVENUE REPORTED ABOVE DOES NOT AGREE WITH TOTAL OPERATING REVENUE ELSEWHERE REPORTED, ATTACH THOSE STATEMENTS THAT RECONCILE THE DIFFERENCE. (EXPLAIN IN DETAIL)**

SUBSCRIBED AND SWORN TO BEFORE ME

A NOTARY PUBLIC IN AND FOR THE COUNTY OF

THIS 11th DAY OF

(My Commission Expires 12th Feb 08)

COUNTY NAME

APR 14 2005

ANNIE ELIZABETH READE
A COMMISSIONER OF OATHS,
REGIONAL MUNICIPALITY OF HALTON,
FOR ALCORCION POWER INCOME FUND.
EXPIRES FEBRUARY 26, 2008.

16
<table>
<thead>
<tr>
<th>WRA Bal Sheet</th>
<th>LPSCO Consolidated Statement</th>
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<tbody>
<tr>
<td>BALANCE SHEET</td>
<td>AS AT December 31, 2004</td>
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<table>
<thead>
<tr>
<th>ASSETS</th>
<th>Actual</th>
<th>Prior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Assets</td>
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</tr>
<tr>
<td>Cash</td>
<td>$70,784</td>
<td>$288,840</td>
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<tr>
<td>Accounts Receivable</td>
<td>1,123,763</td>
<td>1,156,305</td>
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<tr>
<td>Notes Receivable - Interco</td>
<td>3,377,368</td>
<td>3,033,941</td>
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<tr>
<td>Stockholders Equity</td>
<td>49,500</td>
<td>61,230</td>
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<tr>
<td>* Prepaid</td>
<td>64,826</td>
<td>69,290</td>
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<tr>
<td>** Total Current Assets</td>
<td>$5,333,251</td>
<td>$4,608,036</td>
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<tr>
<td>Long Term Assets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed Assets</td>
<td>2,464,529</td>
<td>2,423,503</td>
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<tr>
<td>Less: Accum Depreciation</td>
<td>65,648,839</td>
<td>48,860,473</td>
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<tr>
<td>Less: Construction in Process</td>
<td>(7,302,680)</td>
<td>(5,362,125)</td>
</tr>
<tr>
<td>Less: Treated Plant</td>
<td>2,345,546</td>
<td>2,345,546</td>
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<tr>
<td>Less: Contribution in Aid of Construction</td>
<td>13,646,610</td>
<td>7,507,671</td>
</tr>
<tr>
<td>Less: Depreciation - CIAC</td>
<td>1,526,632</td>
<td>1,285,390</td>
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<tr>
<td>** Total Long Term Assets</td>
<td>50,987,256</td>
<td>39,727,483</td>
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<tr>
<td>** Total Assets</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>LIABILITIES</th>
<th>Actual</th>
<th>Prior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts Payable and Accrued Liabilities</td>
<td>3,853,576</td>
<td>1,715,606</td>
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<tr>
<td>Notes Payable</td>
<td>101,267</td>
<td>204,078</td>
</tr>
<tr>
<td>Current Portion of Long Term Debt</td>
<td>195,000</td>
<td>140,000</td>
</tr>
<tr>
<td>** Total Current Liabilities</td>
<td>4,093,543</td>
<td>2,059,684</td>
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<tr>
<td>Long Term Liabilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senior Notes Payable</td>
<td>4,589,469</td>
<td>4,055,000</td>
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<tr>
<td>Subordinated Notes Payable</td>
<td>12,491,059</td>
<td>12,672,619</td>
</tr>
<tr>
<td>Notes Payable</td>
<td>2,045,365</td>
<td>2,216,244</td>
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<tr>
<td>Notes Payable</td>
<td>20,507,510</td>
<td>12,987,312</td>
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<tr>
<td>Notes Payable</td>
<td>474,436</td>
<td>474,436</td>
</tr>
<tr>
<td>** Total Long Term Liabilities</td>
<td>40,107,859</td>
<td>32,405,281</td>
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<tr>
<td>** Total Liabilities</td>
<td>44,201,412</td>
<td>34,464,965</td>
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<table>
<thead>
<tr>
<th>SHAREHOLDERS EQUITY</th>
<th></th>
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<tbody>
<tr>
<td>Contributed Capital</td>
<td>14,118,180</td>
<td>14,118,180</td>
</tr>
<tr>
<td>Retained Earnings</td>
<td>19,200</td>
<td>78,200</td>
</tr>
<tr>
<td>** Total Contributed Capital</td>
<td>14,196,380</td>
<td>14,196,380</td>
</tr>
<tr>
<td>Current Month</td>
<td>Year to Date</td>
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</tr>
<tr>
<td>--------------</td>
<td>--------------</td>
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</tr>
<tr>
<td>Actual</td>
<td>Budget</td>
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</tr>
<tr>
<td>Prior</td>
<td>% Change</td>
<td>Prior</td>
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### Revenues

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<thead>
<tr>
<th>Source</th>
<th>Actual</th>
<th>Budget</th>
<th>% Change</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Sales</td>
<td>$3,130,317</td>
<td>$5,055,833</td>
<td>-38.0%</td>
<td>25.8%</td>
</tr>
<tr>
<td>Metered Sales - Residential</td>
<td>779,967</td>
<td>0</td>
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<td>0.0%</td>
</tr>
<tr>
<td>Customers</td>
<td>677,914</td>
<td>0</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Metered Sales - Commercial</td>
<td>182,315</td>
<td>0</td>
<td>0.0%</td>
<td>10.1%</td>
</tr>
<tr>
<td>Customers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Protection Revenue</td>
<td>4,980,146</td>
<td>5,055,833</td>
<td>-1.5%</td>
<td>27.4%</td>
</tr>
<tr>
<td>Waste Water Sales</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residential Revenues</td>
<td>4,179,317</td>
<td>4,669,742</td>
<td>-10.5%</td>
<td>30.3%</td>
</tr>
<tr>
<td>Commercial Revenues</td>
<td>541,715</td>
<td>0</td>
<td>0.0%</td>
<td>5.9%</td>
</tr>
<tr>
<td>Industrial Revenues</td>
<td>105,241</td>
<td>0</td>
<td>0.0%</td>
<td>52.4%</td>
</tr>
<tr>
<td>Reclaimed Water Sales (Effluent)</td>
<td>4,803,236</td>
<td>4,669,742</td>
<td>3.5%</td>
<td>29.6%</td>
</tr>
<tr>
<td>Commercial Effluent Revenues</td>
<td>67,401</td>
<td>49,363</td>
<td>64.9%</td>
<td>33.0%</td>
</tr>
<tr>
<td>Other Revenues</td>
<td>183,619</td>
<td>0</td>
<td>0.0%</td>
<td>-63.0%</td>
</tr>
<tr>
<td></td>
<td>183,619</td>
<td>0</td>
<td>0.0%</td>
<td>-63.0%</td>
</tr>
<tr>
<td>Total Revenues</td>
<td>18,644,462</td>
<td>7,767,958</td>
<td>136.8%</td>
<td>31.9%</td>
</tr>
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</table>

### Operating Costs

<table>
<thead>
<tr>
<th>Source</th>
<th>Actual</th>
<th>Budget</th>
<th>% Change</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sources of Supply, Creditor's &amp; Expenses</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purchases Water</td>
<td>1,055</td>
<td>0</td>
<td>0.0%</td>
<td>-98.0%</td>
</tr>
<tr>
<td>Purchased Power</td>
<td>300,260</td>
<td>0</td>
<td>0.0%</td>
<td>-98.0%</td>
</tr>
<tr>
<td>Fuel for Power Production</td>
<td>215</td>
<td>0</td>
<td>0.0%</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Equipment Rental</td>
<td>6,097</td>
<td>0</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Transportation Expenses</td>
<td>6,998</td>
<td>0</td>
<td>0.0%</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Water Treatment &amp; Pumping Expenses</td>
<td>1,341,042</td>
<td>600,000</td>
<td>123.3%</td>
<td>34.0%</td>
</tr>
<tr>
<td>Chemicals</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Materials &amp; Supplies</td>
<td>7,030</td>
<td>0</td>
<td>0.0%</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Contractual Services</td>
<td>1,647</td>
<td>0</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Equipment/Rental</td>
<td>6,097</td>
<td>0</td>
<td>0.0%</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Transportation &amp; Diet, Treatment &amp; Disposal Exp</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purchased Power</td>
<td>741,561</td>
<td>510,928</td>
<td>45.1%</td>
<td></td>
</tr>
<tr>
<td>Fuel for Power Production</td>
<td>215</td>
<td>0</td>
<td>0.0%</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Chemicals</td>
<td>17,302</td>
<td>0</td>
<td>0.0%</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Materials &amp; Supplies</td>
<td>137,476</td>
<td>35,875</td>
<td>284.5%</td>
<td>335.6%</td>
</tr>
<tr>
<td>Contractual Services</td>
<td>39,206</td>
<td>504,947</td>
<td>32.4%</td>
<td>-110.2%</td>
</tr>
<tr>
<td></td>
<td>Actual</td>
<td>Budget</td>
<td>Prior</td>
<td>% Change</td>
</tr>
<tr>
<td>---------------------</td>
<td>---------</td>
<td>---------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td></td>
<td>$2,070</td>
<td>$0</td>
<td>$1,961</td>
<td>0.00%</td>
</tr>
<tr>
<td>Telephone</td>
<td>1,004</td>
<td>14,250</td>
<td>7,995</td>
<td>-93.27%</td>
</tr>
<tr>
<td>Materials &amp; Supplies</td>
<td>78,995</td>
<td>104,125</td>
<td>203,156</td>
<td>-60.32%</td>
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<tr>
<td>Contractual Services</td>
<td>5,368</td>
<td>6,013</td>
<td>6,042</td>
<td>-47.59%</td>
</tr>
<tr>
<td>Security</td>
<td>1,054</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Travel &amp; Entertainment</td>
<td>6,985</td>
<td>171</td>
<td>7,446</td>
<td>-8.42%</td>
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<td>Licences &amp; Fees</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00%</td>
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<tr>
<td>Public Relations</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Charlotte Donations</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Insurance</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Property Taxes</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Central Office Costs</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Bank Charges</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Capacity Costs</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Total Administrative &amp; General Costs</td>
<td>176,995</td>
<td>156,932</td>
<td>264,571</td>
<td>-34.92%</td>
</tr>
<tr>
<td>Total Interest</td>
<td>92,211</td>
<td>66,222</td>
<td>91,626</td>
<td>41.38%</td>
</tr>
<tr>
<td>Depreciation / Amortization</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Amortization</td>
<td>178,238</td>
<td>144,799</td>
<td>134,325</td>
<td>22.09%</td>
</tr>
<tr>
<td>Total Depreciation &amp; Amortization</td>
<td>178,238</td>
<td>144,799</td>
<td>134,325</td>
<td>22.09%</td>
</tr>
<tr>
<td>Income Taxes</td>
<td>30,000</td>
<td>0</td>
<td>(221,434)</td>
<td>0.00%</td>
</tr>
<tr>
<td>Total Income Taxes</td>
<td>30,000</td>
<td>0</td>
<td>(221,434)</td>
<td>0.00%</td>
</tr>
<tr>
<td>Other Income and Expense</td>
<td>(2,378)</td>
<td>0</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Total Other Income and Expense</td>
<td>11,526</td>
<td>0</td>
<td>111</td>
<td>0.00%</td>
</tr>
<tr>
<td>Net Income</td>
<td>2,109,228</td>
<td>3,681,225</td>
<td>1,835,770</td>
<td>16.31%</td>
</tr>
</tbody>
</table>
March 15, 2005

Michele Kogl, Development Services Manager
Gerald Toscano, Senior Engineer
Maricopa County DOT
2901 W. Durango St.
Phoenix, AZ 85009

Re: Financial Assurance for Jackrabbit Estates, Savannah, and Zanjero Trails Subdivisions

Dear Ms. Kogl & Mr. Toscano,

This letter is presented by Litchfield Park Service Company (LPSCO) to advise you that the owners of the parcels comprising the Jackrabbit Estates, Savannah, and Zanjero Trails subdivisions have posted satisfactory assurance to LPSCO of the financial capability and intent to complete all off-site or back bone infrastructure necessary to make sewer service available to the subdivisions. This demonstration was performed by the owners of the above listed planned subdivisions by way of the establishment of an escrow account with First American Title Insurance Company (escrow number 402-44311106) and deposit therein of cash and letters of credit in the amount of $5,395,428.77, the sum of which is of sufficient magnitude to finance the cost of design and construction of those necessary facilities. These funds will not be released back to the owners until MCDOT is satisfied with the completion of the project, nor will these funds be used for purposes other than the design and construction of the facilities. LPSCO will be responsible for construction of said facilities in the event of default by the Developers.

I hope that this letter meets your needs and requirements. Should you have any questions or require additional information, please do not hesitate to contact me at your convenience.

Sincerely,

Michael D. Weber, P.E.
Vice President & General Manager
EXHIBITS
Wood/Patel
Civil Engineers
Hydrologists
Land Surveyors
Construction Managers

Legend
- Alignments

Sewer Service area
Existing Facilities

PVWRF
SLS

Municipal Planning Areas
AVONDALE
BUCKEYE
EL MIRAGE
GLENDALE
GOODYEAR
LITCHFIELD PARK
PEORIA
PHOENIX
SURPRISE
TOLLESON
YOUTGOWN

Northwest Valley Development Group
MAG 208 Amendment for LPSCo
Wood Patel & Associates, Job # 042027

Existing LPSCo Service Area
Exhibit 2
Areas north of Peoria Ave will be served by the City of Surprise.

Areas between Peoria Ave and Northern Ave and between Perryville Rd and Citrus Rd will be temporarily served by the City of Surprise.

Areas between Northern Ave and Bethany Home Rd and east of Perryville Rd have large lots served by septic systems and are lower topographically than the proposed service area expansion.

Areas south of Camelback Rd and not in the existing LPSCo service area will be served by the City of Goodyear.

Base data provided by LPSCo from Draft Wastewater Master Plan, Carollo Engineers and taken from the report "White Tank Mountain Regional Sewer Solution" report by United Engineering Group.

Northwest Valley Development Group
MAG 208 Amendment for LPSCo
Wood Patel & Associates, Job # 042027

Proposed Service Area Expansion
Exhibit 3
Capacity for all the hatched areas was included in the sewer design. Outlined color-shaded areas show properties in this proposed service area expansion. The other hatched areas will be served by other systems as shown.

Russell Ranch Units 1-5 currently served by Arizona-American Water Co facility.

There is capacity in the sewer to serve these properties but they are not included in this proposed service area expansion at the request of Goodyear.

Legend
- Wastewater Facilities
- Alignments
- Regional Sanitary Sewer

Properties
- BRADLEY CENTER
- JACKRABBIT ESTATES
- RUSSELL RANCH
- SAVANNAH
- ZANJERO TRAILS

Capacity provided for in sewer design

Northwest Valley Development Group
MAG 208 Amendment for LPSCo
Wood Patel & Associates, Job # 042027

Properties Served
By This Expansion
Exhibit 4
APPENDIX B

Letters of No Objection
(Sent to Julie Hoffman)
The Letters of No Objection were obtained prior to the name change to Liberty Water. These letters have not been updated to Liberty Utilities as the service area to which they refer to has not changed in size or scope.
April 28, 2011

Ms. Julie Hoffman
208 Program Manager
Maricopa Association of Governments
302 N 1st Ave, Ste 300
Phoenix, AZ 85003

Dear Ms. Hoffman:

This letter is in response to the City of Glendale’s (on behalf of Liberty Water Company) Clean Water Act Section 208 Amendment that will modify their wastewater service area. The modification is outside the City of Avondale service area but within three miles of it as shown in the current 208 Plan. The City of Avondale has reviewed the proposed amendment and has no objection.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Amendment. If you have questions or need additional information you may contact me at 623-333-4400.

Sincerely,

[Signature]

Wayne Janis
Public Works Director
May 2, 2011

Ms. Julie Hoffman
208 Program Manager
Maricopa Association of Governments
302 N 1st Ave, Ste 300
Phoenix, AZ 85003

Dear Ms. Hoffman:

The City of Glendale (on behalf of Liberty Water Company) has submitted a Clean Water Act Section 208 Amendment that will modify wastewater service areas that are outside the service area for the City of El Mirage but within three miles of it as shown in the current 208 Plan. The City of El Mirage has reviewed the proposed amendment and has no objection.

Sincerely,

David J. Emon
Utilities Superintendent

cc: Lance Calvert, Director of Public Works
April 28, 2011

Ms. Julie Hoffman
208 Program Manager
Maricopa Association of Governments
302 N 1st Ave, Ste 300
Phoenix, AZ 85003

Dear Ms. Hoffman:

The City of Glendale (on behalf of Liberty Water Company) has submitted a Clean Water Act Section 208 Amendment that will modify wastewater service areas that are outside the service area for the City of Goodyear but within three miles of it as shown in the current 208 Plan. The City of Goodyear has reviewed the proposed amendment and has no objection.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Amendment.

Sincerely,

City of Goodyear

[Signature]

Charles McDowell
Public Works Director

Cc: Sandra Rode, Water Conservation Specialist
Jerald A. Postema, Deputy Director, Environmental Services File
City of Litchfield Park

Office of the City Manager

October 4, 2011

Ms. Julie Hoffman
208 Program Manager
Maricopa Association of Governments
302 N. 1st Ave | Ste 300
Phoenix, AZ 85003

Dear Ms. Hoffman:

The City of Glendale (on behalf of Liberty Water Company) has submitted a Clean Water Act Section 208 Amendment that will modify wastewater service areas that are outside the service area for the City of Litchfield Park but within three miles of it as shown in the current 208 Plan attached. The City of Litchfield Park has reviewed the proposed amendment and has no objection.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Amendment.

Sincerely,

Darryl H. Crossman
City Manager

Attachment: Map of Proposed Service Area Expansion

cc: Mayor Thomas L. Schoaf (w/attachment)
    Members of Council (w/attachment)
Lt Col Chad BonDurant
56 CES/CC
13970 Gillespie Drive
Luke AFB, AZ 85309

Ms. Julie Hoffman
208 Program Manager
Maricopa Association of Governments
302 N 1st Ave, Ste 300
Phoenix, AZ 85003

Dear Ms. Hoffman:

The City of Glendale (on behalf of Liberty Water Company) has submitted a Clean Water Act Section 208 Amendment that will modify wastewater service areas that are outside the service area for Luke Air Force Base but within three miles of it as shown in the current 208 Plan. Luke Air Force Base has reviewed the proposed amendment and has no objection.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Amendment.

Sincerely

Chad B. BonDurant, Lt Col, USAF
August 8, 2012

Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, AZ 85003

Attention: Ms. Lindy Bauer, Environmental Program Coordinator

Re: Litchfield Park Service Company dba Liberty Water, Revised Service Area
Clean Water Act, MAG 208 Amendment

Dear Ms. Bauer:

Water Works Engineers, LLC, has submitted a proposed MAG 208 Amendment Application dated June 23, 2011, with revisions that were submitted to the Department on July 23, 2012. The proposed Amendment is for an expansion of the Litchfield Park Service Company (LPSCo) dba Liberty Water service area to include four separate parcels of land that are south of W. Glendale Avenue and west of N. El Mirage Road. The expansion creates an approximate 360-acre island of unsewered property (north of Camelback Road between Dysart Road and 127th Avenue) that will be completely surrounded by the expanded LPSCo dba Liberty Water service area. The City of Glendale provided a letter dated June 7, 2012 stating that it would support LPSCo dba Liberty Water providing sewer service to the island in the event the property owners request such service.

The document was submitted to the Department because the project is located within three miles of unincorporated areas of Maricopa County. The City of Avondale, City of El Mirage, City of Goodyear, City of Litchfield Park, Luke Air Force Base, City of Peoria, City of Phoenix, Town of Youngtown, are also located within three miles of the LPSCo dba Liberty Water Municipal Planning Area.

The proposed service area revision complies with the MAG 208 Review and Approval Process under the MAG 208 Areawide Water Quality Management Plan. The project is not in conflict with Maricopa County plans for the area and it is acceptable.

Please note that the Department has not reviewed, nor approved, the design of the facilities as part of the 208 review. Any technical issues that remain will need to be resolved during the design phase of the project. Approval to Construct (ATC) and Approval of Construction (AOC) must be obtained from this Department prior to start of construction and startup, respectively, of all treatment, discharge, recharge, and reuse facilities, including all conveyance facilities and final end user facilities.
August 8, 2012
Ms. Lindy Bauer
MAG 208 Amendment Application for
Litchfield Park Service Company dba Liberty Water, Revised Service Area
Page 2 of 2

If you have any questions or comments, please feel free to contact Mr. Kenneth James, PE, at 602-506-6414 or me at 602-506-6667.

Sincerely,

Kevin Chadwick

Kevin Chadwick, P.E.,
Division Manager

cc: Rob Bryant, PE, Water Works Engineers, 7580 N. Dobson Road, Suite 200, Scottsdale, AZ 85256
Utilities Division - Engineering Section, Arizona Corporation Commission, 1200 W. Washington, Phoenix, AZ 85007-2996
File
April 27, 2011

Ms. Julie Hoffman
208 Program Manager
Maricopa Association of Governments
302 N. 1st Ave., Ste. 300
Phoenix, AZ 85003

Dear Ms. Hoffman:

The City of Glendale (on behalf of Liberty Water Company) has submitted a Clean Water Act Section 208 Amendment that will modify wastewater service areas that are outside the service area for the City of Peoria but within three miles of it as shown in the current 208 Plan. The City of Peoria has reviewed the proposed amendment and has no objection.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Amendment.

Sincerely,

[Signature]

Brian K. Biesemeyer, P.E.
Deputy Public Works – Utilities Director

cc: Michael Weber, Deputy Utilities Director, City of Glendale
    Rob Bryan, P.E., Water Works Engineer

www.peoriaaz.gov/utilities
May 10, 2011

Ms. Julie Hoffman
208 Program Manager
Maricopa Association of Governments
302 N 1st Ave, Ste 300
Phoenix, AZ 85003

Dear Ms. Hoffman:

The City of Glendale (on behalf of Liberty Water Company) has submitted a Clean Water Act Section 208 Amendment that will modify wastewater service areas that are outside the service area for the City of Phoenix but within three miles of it as shown in the current 208 Plan. The City of Phoenix has reviewed the proposed amendment and has no objection.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Amendment.

Sincerely,

Randy Gottler
Deputy Water Services Director

C: Neil Mann, Water Services Director
    Ron Serio, Assistant Water Services Director
    Tom Walz, Deputy Water Services Director
    Kevin Rose, Deputy Water Services Director
    Kris Erickson, Assistant to the Water Superintendent
April 27, 2011

Ms. Julie Hoffman  
208 Program Manager  
Maricopa Association of Governments  
302 N 1st Avenue, Suite 300  
Phoenix, AZ  85003  

Dear Ms. Hoffman:

The City of Glendale (on behalf of Liberty Water Company) has submitted a Clean Water Act Section 208 Amendment that will modify wastewater service areas that are outside the service area for the Town of Youngtown but within three miles of it as shown in the current 208 Plan. The Town of Youngtown has reviewed the proposed amendment and has no objection.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Amendment.

Sincerely,

Mark Hannah  
Public Works Manager
APPENDIX C

208 Clean Water Act Checklist
## 208 AMENDMENT CHECKLIST

**Section 208 Clean Water Act**

**40 CFR Part 130.6**

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>PROVIDE BRIEF SUMMARY OF HOW REQUIREMENTS ARE ADDRESSED</th>
<th>ADDRESSED ON PAGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AUTHORITY</strong></td>
<td></td>
<td>Appendix E</td>
</tr>
<tr>
<td>Proposed Designated Management Agency (DMA) shall self-certify that it has the authorities required by Section 208(c)(2) of the Clean Water Act to implement the plan for its proposed planning and service areas. Self-certification shall be in the form of a legal opinion by the DMA or entity attorney.</td>
<td>The City of Glendale is the Designated Management Agency for the expanded service area. However, Glendale has agreed to allow Liberty Utilities to provide sewer service to this area. Liberty Utilities has adequate authority to perform the functions enumerated in the Clean Water Act Section 208(c)(2)(A)-(I).</td>
<td></td>
</tr>
<tr>
<td><strong>20-YEAR NEEDS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>(Clearly describe the existing wastewater treatment (WWT) facilities:)</em></td>
<td>These are described in the February 2006 - 208 Amendment.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>Describe existing WWT facilities.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Show WWT certified and service areas for private utilities and sanitary district boundaries if appropriate.</td>
<td>The service area extension proposed by Liberty will not overlap with any WWT certified and service areas for private utilities and sanitary district boundaries.</td>
<td>Figure 1, Page 4</td>
</tr>
<tr>
<td><em>(Clearly describe alternatives and the recommended WWT plan:)</em></td>
<td>Buildout populations (756) were included in the development documents associated with platting and results in 0.099MGD of total WW flow.</td>
<td>Page 8-9</td>
</tr>
<tr>
<td>Provide POPTAC population estimates (or COG-approved estimates only where POPTAC not available) over 20-year period.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Topic</td>
<td>Description</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Provide wastewater flow estimates over the 20-year planning period.</td>
<td>Based on 100 gpcd (Glendale utilizes 97 gpcd), estimated wastewater flow from this new service area is 99,000gpd.</td>
<td>Page 9</td>
</tr>
<tr>
<td>Illustrate the WWT planning and service areas.</td>
<td>In addition to the existing service area, the expanded area is located within Secs 10 and 11 T2N,R1W.</td>
<td>Figure 1, Page 4</td>
</tr>
<tr>
<td>Describe the type and capacity of the recommended WWT Plant.</td>
<td>This expanded service area will not require the existing plant to increase capacity.</td>
<td>Page 7</td>
</tr>
<tr>
<td>Identify water quality problems, consider alternative control measures, and recommend solution for implementation.</td>
<td>No water quality issues are expected as a result of this service area expansion. See 2006 208 Amendment for treatment methods.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>If private WWT utilities with certificated areas are within the proposed regional service area, define who (municipal or private utility) serves what area and when. Identify whose sewer lines can be approved in what areas and when?</td>
<td>LPSCo dba Liberty Utilities will own and operate the sewer lines in the proposed service area.</td>
<td>Page 10</td>
</tr>
<tr>
<td>Describe method of effluent disposal and reuse sites (if appropriate).</td>
<td>Effluent will continue to be discharged to the RID and may be stored in golf course lakes for irrigation and may be recharged.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>If Sanitary Districts are within a proposed planning or service area, describe who serves the Sanitary Districts and when.</td>
<td>LPSCo dba Liberty Utilities will own and operate the sewer lines in the proposed service area.</td>
<td>Page 10</td>
</tr>
<tr>
<td>Describe ownership of land proposed for plant sites and reuse areas.</td>
<td>Plant ownership by LPSCo dba Liberty Utilities will continue per February 2006 208 Amendment.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>Address time frames in the development of the treatment works.</td>
<td>Palm Valley WRF current permit is 5.1MGD.</td>
<td>Page 5</td>
</tr>
<tr>
<td>Topic</td>
<td>Action/Description</td>
<td>Reference</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Address financial constraints in the development of the treatment works.</td>
<td>Not Applicable.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Describe how discharges will comply with EPA municipal and industrial stormwater discharge regulations (Section 405, CWA).</td>
<td>Site-specific stormwater will be retained onsite for up to 100-yr storm events.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>Describe how open areas &amp; recreational opportunities will result from improved water quality and how those will be used.</td>
<td>The use of high quality effluent for irrigation will reduce the demand for groundwater and promote open area irrigation with reclaimed effluent.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>Describe potential use of lands associated with treatment works and increased access to water-based recreation, if applicable.</td>
<td>Not Applicable.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>REGULATIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Describe types of permits needed, including NPDES, APP and reuse.</td>
<td>None required for the service area expansion. A Permit to Construct will be obtained for the sanitary sewer from MCESD.</td>
<td>Page 9</td>
</tr>
<tr>
<td>Describe restrictions on NPDES permits, if needed, for discharge and sludge disposal.</td>
<td>The treated municipal wastewater point discharge from the facilities will be used for emergency only and will not be for daily operations.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>Provide documentation of communication with ADEQ Permitting Section 30 to 60 days prior to public hearing regarding the need for specific permits.</td>
<td>Not Applicable, No additional permits required.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Describe pretreatment requirements and method of adherence to requirements (Section 208(b)(2)(D), CWA).</td>
<td>Raw wastewater is expected to be nearly 100% residential &amp; light commercial. Industrial service connections will be required to comply with all pretreatment requirements.</td>
<td>Appendix A</td>
</tr>
<tr>
<td>Identify, if appropriate, specific pollutants that will be produced from excavations and procedures that will protect ground and surface water quality (Section 208(b)(2)(K) and Section 304, CWA).</td>
<td>Not Applicable.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Describe alternatives and recommendation in the disposition of sludge generated. (Section 405 CWA)</strong></td>
<td>This amendment will not affect treatment in any way - only service area.</td>
<td>Page 11</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>Define any nonpoint issues related to the proposed facility and outline procedures to control them.</strong></td>
<td>Not applicable, new sewer service will discharge to existing LPSCo dba Liberty Utilities collection system and ultimately discharge at the WWTP.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Describe process to handle all mining runoff, orphan sites and underground pollutants, if applicable.</strong></td>
<td>Not applicable, no mining in the service area.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>If mining related, define where collection of pollutants has occurred, and what procedures are going to be initiated to contain contaminated areas.</strong></td>
<td>Not applicable, no mining in the service area.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>If mining related, define what specialized procedures will be initiated for orphan sites, if applicable.</strong></td>
<td>Not applicable, no mining in the service area.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>CONSTRUCTION</strong></td>
<td>Sanitary sewer facilities will be constructed as needed by developers.</td>
<td>Page 10</td>
</tr>
<tr>
<td>Define construction priorities and time schedules for initiation and completion.</td>
<td>Sewer facilities will be constructed by developers, LPSCo dba Liberty Utilities will own and operate the sewer lines in the proposed service area.</td>
<td>Page 10</td>
</tr>
<tr>
<td>Identify agencies who will construct, operate and maintain the facilities and otherwise carry out the plan.</td>
<td>Storm water runoff will be controlled via SWPPP and dust will be controlled per MCESD dust control permit.</td>
<td>Page 10</td>
</tr>
<tr>
<td>Identify construction activity-related sources of pollution and set forth procedures and methods to control, to the extent feasible, such sources.</td>
<td>LPSCo dba Liberty Utilities will own and operate the sewer lines in the proposed service area once constructed by developers.</td>
<td>Page 10</td>
</tr>
<tr>
<td><strong>FINANCING AND OTHER MEASURES NECESSARY TO CARRY OUT THE PLAN</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>If plan proposes to take over certificated private utility, describe how, when and financing will be managed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Describe any significant measure necessary to carry out the plan, e.g., institutional, financial, economic, etc.</strong></td>
<td>None</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>Describe proposed method(s) of community financing.</strong></td>
<td>Sewer facilities will be constructed by developers, user rates will be imposed to pay for collection and treatment O&amp;M costs.</td>
<td>Page 10</td>
</tr>
<tr>
<td><strong>Provide financial information to assure DMA has financial capability to operate and maintain wastewater system over its useful life.</strong></td>
<td>LPSCo dba Liberty Utilities has provided their current financial statements.</td>
<td>Appendix D</td>
</tr>
<tr>
<td><strong>Provide a time line outlining period of time necessary for carrying out plan implementation.</strong></td>
<td>The collection system will be constructed by developers as needed in this area.</td>
<td>Page 10</td>
</tr>
<tr>
<td><strong>Provide financial information indicating the method and measures necessary to achieve project financing. (Section 201 CWA or Section 604 may apply.)</strong></td>
<td>Sewer facilities will be constructed by developers, user rates will be imposed to pay for collection and treatment O&amp;M costs.</td>
<td>Page 10</td>
</tr>
</tbody>
</table>

**IMPLEMENTABILITY**

*Describe impacts and implementability of Plan:*

Describe impacts on existing wastewater (WW) facilities, e.g., Sanitary district, infrastructure/facilities and certificated areas.

Existing and planned facilities of LPSCo dba Liberty Utilities have the capacity to serve this additional area. | Page 7 |

Describe how and when existing package plants will be connected to a regional system. | Not Applicable | Not Applicable |

Describe the impact on communities and businesses affected by the plan. | No significant impact | Not Applicable |
If a municipal wastewater (WWT) system is proposed, describe how WWT service will be provided until the municipal system is completed: i.e., will package plants and septic systems be allowed and under what circumstances. (Interim services).

<table>
<thead>
<tr>
<th>PUBLIC PARTICIPATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit copy of mailing list used to notify the public of the public hearing on the 208 amendment. (40 CFR, Chapter 1, Part 25.5)</td>
</tr>
<tr>
<td>Public participation will be satisfied through the MAG 208 Plan Amendment Process.</td>
</tr>
<tr>
<td>Page 11</td>
</tr>
</tbody>
</table>

| List location where documents are available for review at least 30 days before public hearing. |
| Public participation will be satisfied through the MAG 208 Plan Amendment Process. |
| Page 11 |

| Submit copy of the public notice of the public hearing as well as an official affidavit of publication from the area newspaper. Clearly show the announcement appeared in the newspaper at least 45 days before the hearing. |
| Public participation will be satisfied through the MAG 208 Plan Amendment Process. |
| Page 11 |

| Submit affidavit of publication for official newspaper publication. |
| Public participation will be satisfied through the MAG 208 Plan Amendment Process. |
| Page 11 |

| Submit responsiveness summary for public hearing. |
| Public participation will be satisfied through the MAG 208 Plan Amendment Process. |
| Page 11 |
APPENDIX D

LPSCo dba Liberty Utilities Financial Assurance
June 27, 2011

Ms. Julie Hoffman
209 Program Manager
Maricopa Association of Governments
302 N 1st Ave, Ste 300
Phoenix, AZ 85003

Dear Ms. Hoffman,

Litchfield Park Service Company d.b.a. Liberty Water has submitted a Clean Water Act Section 208 Amendment that will modify the wastewater service areas that are currently outside of the current 208 plan. Of the areas considered for incorporation into our system, Liberty Water currently provides sewer service for the following:

1. Capistrano North (all infrastructure is complete, all lots have homes on them).
2. Capistrano South (all infrastructure is complete, all lots have homes on them).
3. Dysart Ranch (all infrastructure is complete, all lots have homes on them).
4. Dysart Village (all infrastructure is complete, not all lots have homes on them).
5. Dysart Crossings (all infrastructure is complete, retail commercial center is operating).
6. Bethany Estates South (all infrastructure is complete, lots are preparing to have home construction to start).
7. Heritage Elementary School (all infrastructure is complete).

Liberty Water does not provide sewer service to the following areas, however we currently have available capacity at the Palm Valley Water Reclamation Facility to treat the sewer flows and the operational and financial capability to operate and maintain the future sewer lines associated with the developments shown below. Financing for the construction of the associated sewer lines is the responsibility of the developer.

1. Bethany Estates North (development is partially complete).
2. Falcon View (platted only, no infrastructure installed).
3. Riverside Estates (only 2.7 acres developed of 22 acre parcel).
4. 21 acre parcel owned by RP Palm Valley LLC (Parcel 501-56-011G).

Sincerely,

Matthew Garlick
Business Manager
Liberty Water
### LITCHFIELD PARK SERVICE COMPANY

#### STATEMENTS OF OPERATIONS

YEARS ENDED DECEMBER 31, 2010 AND 2009

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UTILITY OPERATIONS:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating revenues:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>$7,261,076</td>
<td>$7,185,001</td>
</tr>
<tr>
<td>Sewer</td>
<td>7,160,789</td>
<td>6,683,425</td>
</tr>
<tr>
<td><strong>Total operating revenues</strong></td>
<td>14,421,865</td>
<td>13,868,426</td>
</tr>
<tr>
<td>Cost of revenues</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>2,497,125</td>
<td>2,817,012</td>
</tr>
<tr>
<td>Sewer</td>
<td>2,588,179</td>
<td>2,968,990</td>
</tr>
<tr>
<td><strong>Total cost of revenues</strong></td>
<td>5,085,305</td>
<td>5,786,002</td>
</tr>
<tr>
<td><strong>GROSS MARGIN</strong></td>
<td>9,336,560</td>
<td>8,082,424</td>
</tr>
<tr>
<td><strong>OPERATING EXPENSES:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>4,143,147</td>
<td>4,101,348</td>
</tr>
<tr>
<td>Outside services</td>
<td>3,759,460</td>
<td>2,219,449</td>
</tr>
<tr>
<td>Operating fees / salaries and benefits</td>
<td>520,791</td>
<td>520,791</td>
</tr>
<tr>
<td>Other taxes</td>
<td>575,531</td>
<td>620,947</td>
</tr>
<tr>
<td>General and administrative</td>
<td>449,892</td>
<td>449,446</td>
</tr>
<tr>
<td>Rent</td>
<td>4,251</td>
<td>23,704</td>
</tr>
<tr>
<td>Other</td>
<td>9,257</td>
<td>75,550</td>
</tr>
<tr>
<td><strong>Total Operating Expenses</strong></td>
<td>9,462,330</td>
<td>8,011,235</td>
</tr>
<tr>
<td><strong>NET OPERATING INCOME</strong></td>
<td>(125,770)</td>
<td>71,189</td>
</tr>
<tr>
<td><strong>OTHER INCOME (EXPENSE):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interest income</td>
<td>10,834</td>
<td></td>
</tr>
<tr>
<td>Interest expense</td>
<td>(742,592)</td>
<td>(795,422)</td>
</tr>
<tr>
<td><strong>Total Other Expense</strong></td>
<td>(731,758)</td>
<td>(795,422)</td>
</tr>
<tr>
<td><strong>NET INCOME (LOSS) BEFORE INCOME TAX</strong></td>
<td>(857,528)</td>
<td>(724,233)</td>
</tr>
<tr>
<td>Income taxes</td>
<td>(324,722)</td>
<td>(82,586)</td>
</tr>
<tr>
<td><strong>NET INCOME (LOSS)</strong></td>
<td>$532,806</td>
<td>$641,647</td>
</tr>
</tbody>
</table>
# Litchfield Park Service Company

## Balance Sheets

**December 31, 2010 and 2009**

*(in United States Dollars)*

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utility Plant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utility plant in service</td>
<td>$120,322,083</td>
<td>$115,468,282</td>
</tr>
<tr>
<td>Less accumulated depreciation and amortization</td>
<td>$23,220,193</td>
<td>$19,116,663</td>
</tr>
<tr>
<td>Total</td>
<td>$97,101,890</td>
<td>$96,351,619</td>
</tr>
<tr>
<td>Construction work-in-progress</td>
<td>$1,610,228</td>
<td>$3,053,228</td>
</tr>
<tr>
<td>Utility plant - net</td>
<td>$98,712,118</td>
<td>$99,404,847</td>
</tr>
<tr>
<td>Restricted Cash</td>
<td>$1,464,113</td>
<td>$1,467,397</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CURRENT ASSETS:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>$17,029</td>
<td>-</td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>$3,029,150</td>
<td>$1,409,159</td>
</tr>
<tr>
<td>Prepaid expenses</td>
<td>$128,550</td>
<td>$388,141</td>
</tr>
<tr>
<td>Total current assets</td>
<td>$3,174,730</td>
<td>$1,797,300</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REGULATORY ASSETS:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Deferred income tax asset</td>
<td>$51,848</td>
<td>-</td>
</tr>
</tbody>
</table>

| TOTAL ASSETS | $103,910,241 | $103,173,092 |

## Liabilities and Capitalization

### Current Liabilities

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bank Overdraft</td>
<td>-</td>
<td>446,066</td>
</tr>
<tr>
<td>Accounts payable</td>
<td>$1,817,494</td>
<td>$5,723,847</td>
</tr>
<tr>
<td>Accrued liabilities</td>
<td>$852,676</td>
<td>$888,209</td>
</tr>
<tr>
<td>Meter deposits-current portion</td>
<td>$592,207</td>
<td>$537,909</td>
</tr>
<tr>
<td>Developer advances-current portion</td>
<td>$348,000</td>
<td>$348,000</td>
</tr>
<tr>
<td>Long-term debt-current portion</td>
<td>$270,000</td>
<td>$255,000</td>
</tr>
<tr>
<td>Total current liabilities</td>
<td>$3,880,376</td>
<td>$8,199,031</td>
</tr>
</tbody>
</table>

| LONG-TERM DEBT | $10,301,564 | $10,545,441 |

### Other Long-Term Liabilities

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meter deposits</td>
<td>$1,167,240</td>
<td>$1,431,325</td>
</tr>
<tr>
<td>Deferred income taxes</td>
<td>0</td>
<td>$344,680</td>
</tr>
<tr>
<td>Developer advances</td>
<td>$40,376,719</td>
<td>$33,935,467</td>
</tr>
<tr>
<td>Total other long-term liabilities</td>
<td>$41,543,959</td>
<td>$35,711,472</td>
</tr>
</tbody>
</table>

### Capitalization

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common stock, $10 par value - authorized, 500,000 shares; issued and outstanding, 7,820 shares</td>
<td>$78,200</td>
<td>$78,200</td>
</tr>
<tr>
<td>Paid-in-capital</td>
<td>$42,631,163</td>
<td>$42,631,163</td>
</tr>
<tr>
<td>Retained earnings</td>
<td>$5,474,979</td>
<td>$6,007,785</td>
</tr>
<tr>
<td>Total capitalization</td>
<td>$48,184,342</td>
<td>$48,717,148</td>
</tr>
</tbody>
</table>

| TOTAL LIABILITIES & CAPITALIZATION | $103,910,241 | $103,173,092 |
APPENDIX E

DMA Functions for MAG 208 Plan Amendment
January 24, 2012

Ms. Linda Taunt
Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, AZ 85007

RE: Designated Management Agency (DMA) Functions for MAG’s 208 Plan Amendment with Litchfield Park Service Company dba Liberty Water, herein referred to as LPSCO

Dear Ms. Taunt:

For the purpose of satisfying Section 208(c)(2)(A) through Section 208(c)(2)(I) of the Clean Water Act, the intent of this correspondence is to demonstrate how Litchfield Park Service Company (LPSCO), a private utility, can provide wastewater services and act similar to a DMA. Below are the required functions of a DMA, as well as the authority by which LPSCO can serve the functions of a DMA.

FUNCTION (Section 208(c)(2)(A) -Carry out appropriate portions of an area wide waste treatment management plan developed under Section 208(b) of the Clean Water Act.

AUTHORITY - LPSCO is a public service corporation formed for the purpose of providing water and wastewater utility services for all of the City of Litchfield Park and portions of Avondale, Buckeye, Glendale, Goodyear and unincorporated Maricopa County. LPSCO last received approval of its area wide treatment management plan by the Maricopa Association of Governments, the Designated Planning Agency, through the MAG Regional Council approval on February 17, 2006. For the area to be added to LPSCO’s MAG 208 Amendment which is associated with this letter, LPSCO received approval by the Arizona Corporation Commission to add this area to its CC&N per Docket #SW-01428A-06-0021, Decision #68744 dated June 5, 2006.

FUNCTION (Section 208(c)(2)(B) -Manage effectively waste treatment works and related facilities serving an area in conformance with any plan required by Section 208(b) of the Clean Water Act.

AUTHORITY - LPSCO has a 4.1 million gallons per day (MGD) wastewater treatment facility that has been in operation since February 2001. Future expansions will be constructed in phases as wastewater flows increase in the service area. LPSCO is approved to provide service up to 16.4 MGD per the MAG 208.

To effectively manage the treatment facility, LPSCO employs certified operators that are appropriately trained in accordance with Arizona Department of Environmental Quality (ADEQ) and the Arizona Division of Occupational Safety and Health requirements.

The mechanism in place to effectuate this management is the: LPSCO Employee Manual, LPSCO Health and Safety Procedures Manual, LPSCO Safety Loss Control Procedures Manual, LPSCO Standard Operating Procedures, LPSCO approved Tariff, and the administrative codes and revised statutes of the State of Arizona and local ordinances. These rules and regulations are enforceable per the authority granted to sewer utilities established under Title 14, Chapter 2. and Article 6 of the Arizona Administrative Code.

LPSCO does advise and refer to applicable agencies when issues or violations arise. If persons within LPSCO’s Certificate of Convenience & Necessity (CC&N) do not receive timely service, they may file a complaint with the Arizona Corporation Commission, LPSCO’s regulator, to address their concerns.
FUNCTION (Section 208(c)(2)(C) Directly or by contract, design and construct new works, and operate and maintain new and existing works as required by any plan developed pursuant to Section 208(b) of the Clean Water Act.

AUTHORITY - LPSCO has a 2006 Wastewater Master Plan for its service area. The 2006 Wastewater Master Plan projects a build out flow of 15.6 MGD for the service area.

LPSCO has completed Phase 1 of its current wastewater facility. This phase has been operational since February 2001. Currently, LPSCO is proceeding with planning and permitting to construct 1 MGD of additional capacity at the existing wastewater facility. The additional capacity is anticipated to come on line by the end of year 2012. The current facility location is approved to carry an 8.2 MGD facility. Future phasing of the current facility will follow demand constraints. LPSCO also has a second separate planned facility to be built to handle an additional 8.2 MGD to be constructed in phases, for a total MAG 208 approval of 16.4 MGD.

All operators, agents and employees of LPSCO, including all employees and agents of contractors and/or subcontractors operating or constructing the wastewater treatment facilities, will be certified and trained, as necessary, in accordance with ADEQ and the Arizona Division of Occupational Safety and Health requirements.

FUNCTION (Section 208(c)(2)(D) Accept and utilize grants, or other funds from any source, for waste treatment management purposes.

AUTHORITY - LPSCO, as a corporation formed for the purpose of providing water and wastewater utility service, has the express authority to accept and utilize grants, loans and/or other funds from any source for waste treatment management purposes. LPSCO may accept and utilize loans only if they are approved by the Arizona Corporation Commission.

FUNCTION (Section 208(c)(2)(E) Raise revenues, including the assessment of waste treatment charges.

AUTHORITY - Per LPSCO’s current Tariff (Decision #72682 on November 17, 2011) approved by the Arizona Corporation Commission. These Tariffs set LPSCO’s current wastewater rates that it charges its ratepayers within its CC&N. These rates can be adjusted per the rules and regulations of Arizona Corporation Commission.

FUNCTION (Section 208(c)(2)(F)) Incur short-and long-term indebtedness.

AUTHORITY - LPSCO is a corporation formed for the purpose of providing wastewater utility service. LPSCO can obtain debt with Arizona Corporation Commissions approval. In addition, LPSCO is a wholly owned subsidiary of Algonquin Power and Utilities Corporation (a publicly traded company on the Toronto Stock Exchange) who may elect to provide equity to LPSCO.

FUNCTION (Section 208(c)(2)(G)) Assure in implementation of an area wide waste treatment management plan that each participating community pays its proportionate share of treatment costs.

AUTHORITY - Per Arizona Corporation Commission Decision #72026 (December 10, 2010) and Decision #72682 (November 17, 2011), LPSCO has approved rates to be charged to each rate payer throughout its service territory.

FUNCTION (Section 208(c)(2)(H)) Refuse to receive any wastes from any municipality or subdivision thereof, which does not comply with any provisions of an approved plan under Section 208 of the Clean Water Act applicable to such area.

AUTHORITY - In accordance with R14-2-603.C.2 and R-14-2-609 of the Arizona Administrative Code, LPSCO, as an approved utility, may refuse to establish service or terminate service.

FUNCTION (Section 208(c)(2)(I)) Accept for treatment industrial wastes.
AUTHORITY — The Code of Federal Regulations Part 403 Section 403.8 states "any Publicly Owned Treatment Works (POTW) with a total design flow of 5 million gallons per day and receiving from industrial users pollutants which pass through or interfere with the operation of the POTW or are otherwise subject to pretreatment standards, will be required to establish a pretreatment program." The existing 4.1 MGD Palm Valley Water Reclamation Facility (PVWRF) is not currently required to comply with pretreatment requirements since it is not a Publicly Owned Treatment Works. However, LPSCO is in the process of developing a pretreatment program that will be implemented before flows approach 5 MGD or significant industrial users are accepted into the sewer collection system. The pretreatment program will be developed with the industrial user being subject to pretreatment standards as regulated by the Environmental Protection Agency (EPA).

Based upon the information presented above, I certify, as a director of the company, that LPSCO can fully perform the functions of a DMA for the service area shown in the current MAG 208 Amendment. I also certify that LPSCO, functioning as a DMA, has the legal, institutional, managerial and financial capability necessary to carry out its responsibilities of an area wide waste treatment management plan.

Sincerely,

[Signature]

Gregory Sorensen
Vice President of Service Delivery
Liberty Water

cc:
Julie Hoffman - Maricopa Association of Governments
APPENDIX F

Certificate of Convenience and Necessity Documents from ACC
BEFORE THE ARIZONA CORPORATION COMMISSION

IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK SERVICE COMPANY FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY TO PROVIDE WASTEWATER SERVICE IN MARICOPA COUNTY, ARIZONA.

DOCKET NO. SW-01428A-06-0021

NOTICE OF COMPLIANCE WITH DECISION NO. 68744

Litchfield Park Service Company ("LPSCO" or "Company") hereby files this Notice of Compliance in the above captioned matter. In Decision No. 68744 (June 5, 2006), the Commission ordered LPSCO to file, among other things: (1) copies of Certificates of Approval to Construct ("ATC") to serve the parcels included in the extended service area; (2) a copy of its amended Aquifer Protection Permit; and (3) an amended Section 208 Plan that indicates approval of the Company's expansion of its wastewater treatment plant from 4.1 MGD to 8.2 MGD.

Attached hereto as **Exhibit 1** are the ATCs for the following properties included in the extension granted by Decision No. 68744:

1. Bethany Estates South
2. Bethany Estates North
3. Riverside Estates
4. Falcon View
5. Dysart Village
6. Dysart Crossing

Attached hereto as **Exhibit 2** is the Company’s amended Aquifer Protection Permit dated September 30, 2008. Attached hereto as **Exhibit 3** is the Executive Summary from the August 28, 2000 MAG 208 Plan Amendment, which includes authorization for LPSCO to construct a regional wastewater treatment facility (“WTF”) with a capacity of up to 8.2 MGD. As noted on page 9 of the Executive Summary, since 2000 the WTF has been scheduled to be constructed in two 4.1 MGD phases.

RESPECTFULLY SUBMITTED this 2\textsuperscript{nd} day of November, 2009.

FENNEMORE CRAIG, P.C.

By

Jay L. Shapiro
Patrick J. Black
3003 N. Central Avenue, Suite 2600
Phoenix, AZ 85012
(602) 916-5346
Attorneys for Litchfield Park Service Company

An ORIGINAL and 13 copies of the foregoing was filed this 2\textsuperscript{nd} day of November, 2009 with:

Docket Control
Arizona Corporation Commission
1200 West Washington
Phoenix, AZ 85007

COPY hand-delivered this 2\textsuperscript{nd} day of November, 2009 to:

Kevin Torrey
Legal Division
Arizona Corporation Commission
1200 West Washington
Phoenix, AZ 85007

Marlin Scott Jr., Utilities Division
Arizona Corporation Commission
1200 West Washington
Phoenix, AZ 85007

By
CERTIFICATE OF APPROVAL TO CONSTRUCT
(WITH STIPULATIONS)
and
PROVISIONAL VERIFICATION OF GENERAL PERMIT CONFORMANCE
SEWAGE DISPOSAL SYSTEM EXTENSION

PROJECT DESCRIPTION: Bethany Estates South - sanitary sewer collection system of approximately 4141 linear feet with a point of connection to the LPSCO sewer system.

LOCATION: Maricopa County
Section 11, T2N, R1W

PROJECT OWNER: Tim Goodrich, Land Acquisition Project Manager
Maracay Homes
15160 N. Hayden, Suite 200
Scottsdale, AZ 85260

Pursuant to Arizona Administrative Code (AAC) Title 18: Chapter 9, Article 3 and the Maricopa County Environmental Health Code: Chapters II.

Approval to construct the above described facilities as represented in the approved plan documents on file with the Maricopa County Environmental Services Department is hereby given subject to the following stipulations: None.

Operation of this sewer collection system project shall not begin until an Approval of Construction and Verification of General Permit Conformance is issued by the Maricopa County Environmental Services Department.

WATER AND WASTE MANAGEMENT DIVISION

By Steven G. Borst, PE, Program Manager
Subdivision Infrastructure & Planning Program

From the approval date noted above this certificate will expire, if construction has not substantially started within one year or if no Approval Of Construction has been received within two years showing verification of completion.
CERTIFICATE OF APPROVAL TO CONSTRUCT
(WITH STIPULATIONS)
and
PROVISIONAL VERIFICATION OF GENERAL PERMIT CONFORMANCE
SEWAGE DISPOSAL SYSTEM EXTENSION

PROJECT DESCRIPTION: Bethany Estates North - sanitary sewer collection system of
approximately 4,614 linear feet with a point of connection to the LPSCO sewer system.

LOCATION: Maricopa County
Section 11, T2N, R1W

PROJECT OWNER: Tony Widowski, Project Manager
Maracay Bethany Estates, LLC
15160 North Hayden Road, Suite 200
Scottsdale, AZ 85260

Pursuant to Arizona Administrative Code (AAC) Title 18: Chapter 9, Article 3 and the Maricopa
County Environmental Health Code, Chapters II.

Approval to construct the above described facilities as represented in the approved plan
documents on file with the Maricopa County Environmental Services Department is hereby
given subject to the following stipulations: None

Operation of this sewer collection system project shall not begin until an Approval of
Construction and Verification of General Permit Conformance is issued by the Maricopa
County Environmental Services Department.

WATER AND WASTE MANAGEMENT DIVISION

By Wesley A. Shonerd, PE, Program Manager
Subdivision Infrastructure & Planning Program

From the approval date noted above this certificate will expire, if construction has not substantially started
within one year or if no Approval OF Construction has been received within two years showing verification of
completion.
CERTIFICATE OF APPROVAL TO CONSTRUCT
(WITH STIPULATIONS)

And

PROVISIONAL VERIFICATION OF GENERAL PERMIT CONFORMANCE
SEWAGE DISPOSAL SYSTEM EXTENSION

PROJECT DESCRIPTION: Riverside Estates - onsite - sanitary sewer collection system of approximately 4590 linear feet with a point of connection to the LPSCO sewer system.

LOCATION: Maricopa County
Section 11, T2N, R1W

PROJECT OWNER: Perry Mathis, President
Maryland 40, LLC
5108 North 40th Street, Suite 3
Phoenix, AZ 85018

Pursuant to Arizona Administrative Code (AAC) Title 18: Chapter 9, Article 3 and the Maricopa County Environmental Health Code: Chapters II.

Approval to construct the above described facilities as represented in the approved plan documents on file with the Maricopa County Environmental Services Department is hereby given subject to the following stipulations: None

Operation of this sewer collection system project shall not begin until an Approval of Construction and Verification of General Permit Conformance is issued by the Maricopa County Environmental Services Department.

WATER AND WASTE MANAGEMENT DIVISION

By Wesley A. Shonerd, PE, Program Manager
Subdivision Infrastructure & Planning Program

From the approval date noted above this certificate will expire, if construction has not substantially started within one year or if no Approval OF Construction has been received within two years showing verification of completion.
CERTIFICATE OF APPROVAL TO CONSTRUCT
(WITH STIPULATIONS)

And

PROVISIONAL VERIFICATION OF GENERAL PERMIT CONFORMANCE
SEWAGE DISPOSAL SYSTEM EXTENSION

PROJECT DESCRIPTION: Riverside Estates - offsite - sanitary sewer collection system of approximately 1507 linear feet with a point of connection to the LPSCO sewer system.

LOCATION:
Maricopa County
Section 11, T2N, R1W

PROJECT OWNER:
Perry Mathis, President
Maryland 40, LLC
5108 North 40th Street, Suite 3
Phoenix, AZ 85018

Pursuant to Arizona Administrative Code (AAC) Title 18: Chapter 9, Article 3 and the Maricopa County Environmental Health Code: Chapters II.

Approval to construct the above described facilities as represented in the approved plan documents on file with the Maricopa County Environmental Services Department is hereby given subject to the following stipulations: None.

Operation of this sewer collection system project shall not begin until an Approval of Construction and Verification of General Permit Conformance is issued by the Maricopa County Environmental Services Department.

WATER AND WASTE MANAGEMENT DIVISION

By
Wesley A. Shonerd, PE, Program Manager
Subdivision Infrastructure & Planning Program

From the approval date noted above this certificate will expire, if construction has not substantially started within one year or if no Approval OF Construction has been received within two years showing verification of completion.
CERTIFICATE OF APPROVAL TO CONSTRUCT (WITH STIPULATIONS)

And

PROVISIONAL VERIFICATION OF GENERAL PERMIT CONFORMANCE
SEWAGE DISPOSAL SYSTEM EXTENSION

Supersedes Issue Date 8/14/06

PROJECT DESCRIPTION: Falcon View (Offsite 84 Lot) - sanitary sewer collection system of approximately 4900 linear feet with a point of connection to the LPSCO sewer system.

LOCATION: Maricopa County
Section 11, T2N, R1W

PROJECT OWNER: Robert Stewart Land Development Manager
Maracay Homes
15160 N Hayden Road Suite 200
Scottsdale, AZ 85260

Pursuant to Arizona Administrative Code (AAC) Title 18: Chapter 9, Article 3 and the Maricopa County Environmental Health Code: Chapters II.

Approval to construct the above described facilities as represented in the approved plan documents on file with the Maricopa County Environmental Services Department is hereby given subject to the following stipulations: None

Operation of this sewer collection system project shall not begin until an Approval of Construction and Verification of General Permit Conformance is issued by the Maricopa County Environmental Services Department.

WATER AND WASTE MANAGEMENT DIVISION

By
Wesley A. Shonerd, PE, Interim Program Manager
Subdivision Infrastructure & Planning Program
CERTIFICATE OF APPROVAL TO CONSTRUCT
(WITH STIPULATIONS)
and
PROVISIONAL VERIFICATION OF GENERAL PERMIT CONFORMANCE
SEWAGE DISPOSAL SYSTEM EXTENSION

PROJECT DESCRIPTION: Dysart Village - sanitary sewer collection system of approximately 3600 linear feet with a point of connection to the Algonquin Water Services sewer system.

LOCATION: Maricopa County
Section 11, T2N, R1W

PROJECT OWNER: Emile Lucke, President
Adobe West Construction, Inc.
P.O. Box 8088
Glendale, AZ. 85312

Pursuant to Arizona Administrative Code (AAC) Title 18, Chapter 9, Article 3 and the Maricopa County Environmental Health Code: Chapters II.

Approval to construct the above described facilities as represented in the approved plan documents on file with the Maricopa County Environmental Services Department is hereby given subject to the following stipulations:

- MCESD will not issue an Approval of Sanitary Facilities for Subdivisions for Dysart Village until LPSCO is granted the CC&N expansion by the Arizona Corporation Commission to serve this development.

Operation of this sewer collection system project shall not begin until an Approval of Construction and Verification of General Permit Conformance is issued by the Maricopa County Environmental Services Department.

WATER AND WASTE MANAGEMENT DIVISION

By ____________________________
Steven G. Borst, PE, Program Manager
Subdivision Infrastructure & Planning Program

From the approval date noted above this certificate will expire, if construction has not substantially started within one year or if no Approval OF Construction has been received within two years showing verification of completion.
CERTIFICATE OF APPROVAL TO CONSTRUCT
(WITH STIPULATIONS)
and
PROVISIONAL VERIFICATION OF GENERAL PERMIT CONFORMANCE
SEWAGE DISPOSAL SYSTEM EXTENSION

PROJECT DESCRIPTION: Dysart Crossings - sanitary sewer collection system of approximately 200 linear feet with a point of connection to the LPSCO sewer system.

LOCATION: Maricopa County
Section 10, T2N, R1W

PROJECT OWNER: Eric Courter, Project Manager
RDB Development
1617 W. Williams
Phoenix, AZ 85027

Pursuant to Arizona Administrative Code (AAC) Title 18: Chapter 9, Article 3 and the Maricopa County Environmental Health Code: Chapters II.

Approval to construct the above described facilities as represented in the approved plan documents on file with the Maricopa County Environmental Services Department is hereby given subject to the following stipulations: None

Operation of this sewer collection system project shall not begin until an Approval of Construction and Verification of General Permit Conformance is issued by the Maricopa County Environmental Services Department.

WATER AND WASTE MANAGEMENT DIVISION

By: [Signature]
Stevan G. Borst, PE, Program Manager
Subdivision Infrastructure & Planning Program

From the approval date noted above this certificate will expire, if construction has not substantially started within one year or if no Approval OF Construction has been received within two years showing verification of completion.

[Signature]

[Stamp]
EXHIBIT 2
September 30, 2008

Matthew Garlick
Litchfield Park Service Company
12725 W Indian School Rd, Suite D101
Avondale, AZ 85392

Re: Litchfield Park Service Company – Palm Valley Water Reclamation Facility (WRF) Aquifer Protection Permit (APP) Other Amendment
Inventory No. 100310, I/T/F No. 47746

Dear Mr. Garlick:

Enclosed is a signed copy of an APP Other Amendment with Fact Sheet for the above referenced facility. The permit conditions shall apply from September 30, 2008, which is the date of the Water Quality Division Director's signature, and shall be valid for the life of the facility. Thank you for your cooperation in protecting the water quality of the State of Arizona.

If you have any questions please feel free to call me at (800) 234-5677 ext. 771-4498, or at (602) 771-4498. You can also contact me by email at rm4@azdeq.gov.

Sincerely,

Bob Manley
Bob Manley, Project Manager
Groundwater Section, Water Quality Division

cc: Asif Majid, Supervisor, Groundwater Section, APP and Reuse Unit I
Farhana Jesmin, Groundwater Section, APP and Reuse Unit I – Letter Only
Marcy Mullins, Groundwater Section, Reuse Program Coordinator – Letter Only
Lynne Dekarske, Groundwater Section, Administrative Unit
Cynthia Campbell, Manager, Water Quality Compliance Section
Matthew Hodge, Supervisor, Water Quality Compliance Section, Data Unit
Marcia Colquitt, Supervisor, Water Quality Compliance Section, Compliance Assurance Unit
John Gibbons, Supervisor, Water Quality Compliance Section, Field Services Unit
Gary Harmon, Inspector, Water Quality Compliance Section, Field Services Unit
John Matta, P.E., WaterWorks Engineers
Sheba Hafiz, WaterWorks Engineers
Maricopa County Department of Planning and Development
Maricopa County Environmental Services Department

WRR08:9512

Northern Regional Office
1801 W. Route 66 • Suite 117 • Flagstaff, AZ 86001
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733

Printed on recycled paper
STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-100310
PLACE ID 815, LTF 47746

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2 and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A.A.C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, Litchfield Park Service Company (LPSCO) is hereby authorized to operate the Palm Valley Water Reclamation Facility, located at 14222 West McDowell Road in Goodyear, Arizona, in Maricopa County, over groundwater of the West Salt River Valley basin in the Phoenix Active Management Area, in Township 2 N, Range 1 W, Section 33, SE 1/4, SW 1/4, SW 1/4 of the Gila and Salt River Baseline and Meridian.

This permit becomes effective on the date of the Water Quality Division Director's signature and shall be valid for the life of the facility (operational, closure, and post-closure periods) unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate and maintain the permitted facilities:

1. Following all the conditions of this permit including the design and operational information documented or referenced below, and

2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point(s) of compliance (POC) set forth below or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant and as determined at the applicable POC occurs as a result of the discharge from the facility.

1.1 PERMITTEE INFORMATION

Facility Name: Palm Valley Water Reclamation Facility
Facility Address: 14222 West McDowell Road
Goodyear, Arizona 85338
Maricopa County

Permittee: Litchfield Park Service Company
Permittee Address: 12725 West Indian School Road, Suite D101
Avondale, Arizona 85392

Facility Contact: Mr. Matthew Garlick
Emergency Phone No.: (623) 935-3005

Latitude/Longitude: 33° 27' 55" N/112° 21' 55" W
Legal Description: Township 02N, Range 01W, Section 33, SE 1/4, SW 1/4, SW 1/4 of the Gila and Salt River Baseline and Meridian

1.2 AUTHORIZING SIGNATURE

[Signature]
Joan Carr, Director
Water Quality Division
Arizona Department of Environmental Quality

Signed this 20th day of September, 2008
2.0 SPECIFIC CONDITIONS [A.R.S. §§ 49-203(4), 49-241(A)]

2.1 Facility / Site Description [A.R.S. § 49-243(K)(8)]

Litchfield Park Service Company (LPSCO) is authorized to operate the Palm Valley Water Reclamation Facility (WRF), a 4.1 million gallons per day (mgd) facility. The maximum average monthly flow at full build-out, to be completed as per Section 3.0, Compliance Schedule, is 8.2 mgd. The WRF process consists of an influent lift station, headworks with fine screens and grit removal, anoxic reactor/equalization tank and sequencing batch reactors (SBRs) for nitrification-denitrification, disc filters, an ultraviolet (UV) disinfection system, aerobic sludge digesters, and sludge dewatering centrifuges. The WRF is designed and constructed according to plans approved by ADEQ.

Effluent shall be used for on-site process water applications (such as equipment cleaning), reused for any allowable use under a valid reclaimed water permit (A.A.C. R18-9, Article 7), or discharged to the Roosevelt Irrigation District (RID) canal under a valid AZPDES permit. Discharges to the canal are exempt from APP requirements pursuant to A.R.S. § 49-250(B)(6) and (16). Sludge shall be aerobically digested and dewatered onsite by a centrifuge process. The dewatered sludge, including screenings, grit, and scum, shall be hauled off-site for management and disposal in accordance with State and Federal regulations.

The depth to groundwater is approximately 120 feet below ground surface and the direction of groundwater flow is towards the west-northwest.

The site includes the following permitted discharging facilities:

| Wastewater Reclamation Facility | 33° 27' 55" N | 112° 21' 55" W |

Amendment Description

This amendment reflects changes to the design of the facility. Palm Valley WRF has been modified by replacing the influent screens, installing a new odor control system, converting two aerobic digester tanks into Sequencing Batch Reactors (SBRs), converting existing Autotermal Thermophilic Aerobic Digestion (ATAD) tanks into sludge holding tanks, replacing a waste activated sludge (WAS) pump, installing a new centrifuge, installing new filter feed and effluent pumps, and replacing the UV disinfection system. The existing centrifuge and UV disinfection system will remain in place for standby use. These changes will allow the two existing SBR units to be taken out of service (one at a time) to maintain and/or replace aeration headers, pumps, decanters and other support equipment located in the SBR tanks. In addition, relevant permit language has been updated to conform to the current framework language.

Annual Registration Fee [A.R.S. § 49-242]

The Annual Registration Fee for this permit is established by A.R.S. § 49-242(F) and is payable to the Arizona Department of Environmental Quality (ADEQ) each year. The design flow is 8.2 million gallons per day (mgd).

Financial Capability [A.R.S. § 49-243(N) and A.A.C. R18-9-A203]

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The permittee shall maintain financial capability throughout the life of the facility. The estimated dollar amount demonstrated for financial capability is $14.1 million. The financial capability was demonstrated through A.A.C. R18-9-A203(C)(1).
2.2 Best Available Demonstrated Control Technology [A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]

The Water Reclamation Facility shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for new facilities as specified in Arizona Administrative Code R18-9-B204.

The facility shall meet the requirements for pretreatment by conducting monitoring as per R18-9-B204(B)(5)(b)(ii).

All industrial hookups and other non-residential hookups to the treatment system shall be authorized according to the applicable federal, state or local regulations.

2.2.1 Engineering Design

The 4.1 mgd WRF was designed as per the design report prepared by Pacific Advanced Civil Engineers, Inc. dated October 2001. A WRF expansion to 8.2 mgd was designed and shall be constructed as per the design report prepared by Pacific Advanced Civil Engineers, Inc. dated August 2004. The WRF modifications outlined in this amendment were designed by Brian P McBride, P.E. (Civil), McBride Environmental Solutions, Inc., dated July 2, 2007.

2.2.2 Site-specific Characteristics

Site-specific characteristics were not considered to determine BADC in the WRF.

2.2.3 Pre-operational Requirements

The permittee shall submit a signed, dated, and sealed Engineer’s Certificate of Completion in a format approved by the Department per the Compliance Schedule in Section 3.0.

2.2.4 Operational Requirements

1. Permittee shall maintain a copy of the up-to-date Operations and Maintenance Manual at the WRF site at all times and shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table III.
3. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and material(s) used shall be documented on the Self-Monitoring Report Form submitted quarterly to the ADEQ Water Quality Compliance Section.

2.2.5 Reclaimed Water Classification
[A.A.C. R18-9-703(C)(2)(a), A.A.C. R18-11-303 through 307]

The treatment facility is classified as producing Class A+ reclaimed water and may be used for any allowable Class A, B, or C use under a valid reclaimed water permit.

2.2.6 Certified Areawide Water Quality Management Plan Conformance
[A.A.C. R18-9-A201(B)(6)(a)]

Facility operations must conform to the approved Certified Areawide Water Quality Management Plan according to the 208 consistency determination in place at the time of permit issuance.

2.3 Discharge Limitations [A.R.S. §§ 49-201(14), 49-243 and A.A.C. R18-9-A205(B)]

1. The permittee is authorized to operate the WRF with a maximum average monthly flow of 4.1 mgd. The maximum average monthly flow at full build-out, to be completed as per Section 3.0, Compliance Schedule, is 8.2 mgd.
2. The permittee shall notify all users that the materials authorized to be disposed of through the WRF are typical household sewage and pre-treated commercial wastewater, and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.

3. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of applicable BACT pollutant control technologies including liner failure\(^1\), uncontrollable leakage, overtopping (e.g., exceeding the maximum storage capacity, defined as a fluid level exceeding the crest elevation of a permitted impoundment), of basins, lagoons, impoundments or sludge drying beds, berm breaches, accidental spills, or other unauthorized discharges.

4. Specific discharge limitations are listed in Section 4.2, Tables 1A, 1B and 1C.

2.4 Point of Compliance (POC) [A.R.S. § 49-244]

The hazardous/non-hazardous POC is established by the following designated location:

| No. | Theoretical POC located at the northwest corner of the WRF | 33° 27' 56" N | 112° 21' 54" W |

Groundwater monitoring is not required at the point of compliance, except as a contingency action.

The Director may amend this permit to require installation of a well and initiation of groundwater monitoring at the POC, or to designate additional points of compliance, if information on groundwater gradients or groundwater usage indicates the need.

2.5 Monitoring Requirements [A.R.S. § 49-243(K)(1), A.A.C. R18-9-A206(A)]

All monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. All sampling, preservation and holding times shall be in accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained, and Chain-of-Custody procedures shall be followed, in accordance with currently accepted standards of professional practice. The permittee shall consult the most recent version of the ADEQ Quality Assurance Project Plan (QAPP) and Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) PART 136 for guidance in this regard. Copies of laboratory analyses and Chain-of-Custody forms shall be maintained at the permitted facility. Upon request these documents shall be made immediately available for review by ADEQ personnel.

2.5.1 Pre-Operational Monitoring

Not applicable at the time of permit issuance.

2.5.2 Routine Discharge Monitoring

The permittee shall monitor the wastewater according to Section 4.2, Table 1A or 1B, as applicable. Representative samples of the wastewater shall be collected downstream of the UV disinfection channel.

\(^1\) Liner failure in a single-lined impoundment is any condition that would result in leakage exceeding 550 gallons per day per acre.
2.5.3. Reclaimed Water Monitoring

The permittee shall monitor the reclaimed water parameters listed under Section 4.2, Table IC in addition to the routine discharge monitoring parameters listed in Section 4.2, Table IA or IB, as applicable. Representative samples of the reclaimed water shall be collected downstream of the UV disinfection channel.

2.5.4 Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, Table III.

1. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented on the SMRF submitted quarterly to the ADEQ Water Quality Compliance Section, Data Unit. If none of the conditions occur, the report shall say “no event” for a particular reporting period. If the facility is not in operation, the permittee shall indicate this on the SMRF.

2. The permittee shall submit data required in Section 4.2, Table III regardless of the operating status of the facility unless otherwise approved by the Department or allowed in this permit.

2.5.5 Groundwater Monitoring and Sampling Protocols

Routine groundwater monitoring is not required under the terms of this permit.

2.5.6 Surface Water Monitoring and Sampling Protocols

Routine surface water monitoring is not required under the terms of this permit.

2.5.7 Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state approved methods. If no state approved method exists, then any appropriate EPA-approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of Arizona state certified laboratories can be obtained at the address below:

Arizona Department of Health Services  
Office of Laboratory Licensure and Certification  
250 North 17th Ave.  
Phoenix, AZ 85007  
Phone: (602) 364-0720

2.5.8 Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to the ADEQ Groundwater Section for approval prior to installation and the permit shall be amended to include any new monitoring points.
2.6 Contingency Plan Requirements
[A.R.S. § 49-243(K)(3), (K)(7) and A.A.C. R18-9-A204 and R18-9-A205]

2.6.1 General Contingency Plan Requirements

At least one copy of the approved contingency and emergency response plan(s) submitted in the application shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plans.

Any AL exceedance, violation of a discharge limit (DL), AQL, or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3.

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated an AQL. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as if verification sampling has been conducted. The permittee is responsible for compliance with contingency plans relating to the exceedance of an AL or violation of a DL, AQL, or any other permit condition.

2.6.2 Exceeding of Alert Levels/Performance Levels

2.6.2.1 Exceeding of Performance Levels Set for Operational Conditions

1. If an operational performance level (PL) set in Section 4.2, Table III has been exceeded the permittee shall:

a. Notify the ADEQ Water Quality Compliance Section within five days of becoming aware of the exceedance.

b. Submit a written report within thirty days after becoming aware of the exceedance. The report shall document all of the following:

(1) A description of the exceedance and its cause;
(2) the period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
(3) any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;
(4) any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS; and
(5) any malfunction or failure of pollution control devices or other equipment or process.

2. The facility is no longer on alert status once the operational indicator no longer indicates that a PL is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.2.2 Exceeding of Alert Levels (ALs) Set for Discharge Monitoring

1. If an AL set in Section 4.2, Tables IA and IB has been exceeded, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance;

b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and

c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the exceedance, the permittee shall sample individual waste streams composing the wastewater for the parameters in question, if necessary to identify the cause of the exceedance.

2. The permittee shall initiate actions identified in the approved contingency plan referenced in Section 5.0 and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to an AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6.

3. Within 30 days of an AL exceedance, the permittee shall submit the laboratory results to the ADEQ Water Quality Compliance Section, Data Unit, along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.

4. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.2.1 Exceeding Permit Flow Limit

1. If the AI, for average monthly flow in Section 4.2, Table IA or IB has been exceeded, the permittee shall submit an application for an APP amendment to expand the WRF or submit a report detailing the reasons that expansion is not necessary.

2. Acceptance of the report instead of an application for expansion requires ADEQ approval.

2.6.2.3 Exceeding of Alert Levels in Groundwater Monitoring

2.6.2.3.1 Alert Levels for Indicator Parameters

No ALs were established for indicator parameters. Monitoring is for informational purposes only.

2.6.2.3.2 Alert Levels for Pollutants with Numeric Aquifer Water Quality Standards

Not required at time of permit issuance.

2.6.2.3.3 Alert Levels to Protect Downgradient Users from Pollutants Without Numeric Aquifer Water Quality Standards

Not required at time of permit issuance.

2.6.3 Discharge Limit Violation

1. If a DL set in Section 4.2, Tables IA, IB or IC has been violated, the permittee shall immediately investigate to determine the cause of the violation. The investigation shall include the following:

a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and

c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, if necessary to identify the cause of the violation.

The permittee also shall submit a report according to Section 2.7.3, which includes a summary of the findings of the investigation, the cause of the violation, and actions taken to resolve the problem. The permittee shall consider and ADEQ may require corrective action that may include control of the source of discharge, cleanup of affected soil, surface water or groundwater, and mitigation of the impact of pollutants on existing uses of the aquifer. Corrective actions shall either be specifically identified in this permit, included in an ADEQ approved contingency plan, or separately approved according to Section 2.6.6.

2. The permittee shall comply with the freeboard requirements as specified in Section 4.2, Table III (Facility Inspections) to prevent the overtopping of an impoundment or sludge drying bed. If an impoundment or sludge drying bed is overtopped, the permittee shall follow the requirements in Section 2.6.5.3 and the reporting requirements of Section 2.7.3.

3. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

2.6.4 Aquifer Quality Limit Violation

Not applicable.

2.6.5 Emergency Response and Contingency Requirements for Unauthorized Discharges pursuant to A.R.S. § 49-201(12) and pursuant to A.R.S. § 49-241

2.6.5.1 Duty to Respond

The permittee shall act immediately to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.5.2 Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(19)) or toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify the ADEQ Water Quality Compliance Section at (602) 771-4497 within 24 hours of discovering the discharge of hazardous material which: a) has the potential to cause an AWQS or AQE exceedance, or; b) could pose an endangerment to public health or the environment.

2.6.5.3 Discharge of Non-hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify the ADEQ Water Quality Compliance Section at (602) 771-4497 within 24 hours of discovering the discharge of non-hazardous material which: a) has the potential to cause an AQE exceedance, or; b) could pose an endangerment to public health or the environment.
to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten
years from the date of each inspection, and upon request, the permit and the log book shall be made
immediately available for review by ADEQ personnel. The information in the log book shall include,
but not be limited to, the following information as applicable:

1. Name of inspector;
2. Date and shift inspection was conducted;
3. Condition of applicable facility components;
4. Any damage or malfunction, and the date and time any repairs were performed;
5. Documentation of sampling date and time; and
6. Any other information required by this permit to be entered in the log book.

Monitoring records for each measurement shall comply with R18-9-A206(B)(2).

2.7.3 Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the Water Quality Compliance Section in writing (by mail or by fax - see
Section 2.7.5) within five (5) days (except as provided in Section 2.6.5) of becoming aware of a
violation of any permit condition, discharge limitation, or of an AL exceedance.

2. The permittee shall submit a written report to the Water Quality Compliance Section within 30 days
of becoming aware of the violation of any permit condition or discharge limitation. The report shall
document all of the following:

   a. Identification and description of the permit condition for which there has been a violation and a
description of the cause;
   b. The period of violation including exact date(s) and time(s), if known, and the anticipated time
      period during which the violation is expected to continue;
   c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or
      prevent a recurrence of the violation;
   d. Any monitoring activity or other information which indicates that any pollutants would be
      reasonably expected to cause a violation of an AWQS;
   e. Proposed changes to the monitoring which include changes in constituents or increased
      frequency of monitoring; and
   f. Description of any malfunction or failure of pollution control devices or other equipment or
      processes.

2.7.4 Operational, Other or Miscellaneous Reporting

The permittee shall complete the SMRF provided by the Department to reflect facility inspection
requirements designated in Section 4.2, Table III and submit to the ADEQ Water Quality Compliance
Section, Data Unit quarterly along with other reports required by this permit. Facility inspection reports
shall be submitted no less frequently than quarterly, regardless of operational status.

The permittee shall submit the reclaimed water monitoring results as required in Section 4.2, Table IC
and flow volumes to any of the following in accordance with A.A.C. R18-9-703(C)(2)(c):

1. Any reclaimed water agent who has contracted for delivery of reclaimed water from the permittee;

2. Any end user who has not waived interest in receiving this information.
2.7.5 Reporting Location

All SMRFs shall be submitted to:

Arizona Department of Environmental Quality
Water Quality Compliance Section, Data Unit
Mail Code 5415B-1
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4681

All documents required by this permit to be submitted to the Water Quality Compliance Section shall be directed to the following address:

Arizona Department of Environmental Quality
Water Quality Compliance Section
Mail Code 5415B-1
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4497
Fax (602) 771-4505

All documents required by this permit to be submitted to the Groundwater Section shall be directed to:

Arizona Department of Environmental Quality
Groundwater Section
Mail Code 5415B-3
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4428

2.7.6 Reporting Deadline

The following table lists the quarterly report due dates:

<table>
<thead>
<tr>
<th>Monitoring Period</th>
<th>Report Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>January-March</td>
<td>April 30</td>
</tr>
<tr>
<td>April-June</td>
<td>July 30</td>
</tr>
<tr>
<td>July-September</td>
<td>October 30</td>
</tr>
<tr>
<td>October-December</td>
<td>January 30</td>
</tr>
</tbody>
</table>

The following table lists the semi-annual and annual report due dates:

<table>
<thead>
<tr>
<th>Monitoring Period</th>
<th>Report Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semi-annual: January-June</td>
<td>July 30</td>
</tr>
<tr>
<td>Semi-annual: July-December</td>
<td>January 30</td>
</tr>
<tr>
<td>Annual: January-December</td>
<td>January 30</td>
</tr>
</tbody>
</table>
2.7.7 Changes to Facility Information in Section 1.0

The Groundwater Section and Water Quality Compliance Section shall be notified within 10 days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person, or Emergency Telephone Number.

2.8 Temporary Cessation [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)]

The permittee shall give written notice to the Water Quality Compliance Section before ceasing operation of the facility for a period of 60 days or greater. The permittee shall take the following measures upon temporary cessation:

1. If applicable, direct the wastewater flows from the facility to another state-approved wastewater treatment facility;
2. Correct the problem that caused the temporary cessation of the facility; and
3. Notify the ADEQ (Water Quality Compliance Section with a monthly facility status report describing the activities conducted on the treatment facility to correct the problem.

At the time of notification the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Immediately following ADEQ approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to the Water Quality Compliance Section of the operational status of the facility every three (3) years. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9 Closure [A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(B)]

For a facility addressed under this permit, the permittee shall give written notice of closure to the Water Quality Compliance Section of the intent to cease operation without resuming activity for which the facility was designed or operated.

2.9.1 Closure Plan

Within 90 days following notification of closure, the permittee shall submit for approval to the Groundwater Section, a closure plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3).

If the closure plan achieves clean closure immediately, ADEQ shall issue a letter of approval to the permittee. If the closure plan contains a schedule for bringing the facility to a clean closure configuration at a future date, ADEQ may incorporate any part of the schedule as an amendment to this permit.

2.9.2 Closure Completion

Upon completion of closure activities, the permittee shall give written notice to the Groundwater Section indicating that the approved closure plan has been implemented fully and providing supporting documentation to demonstrate that clean closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). If clean closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If any of the following conditions apply, the permittee shall follow the terms of post-closure stated in this permit:

1. Clean closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;
2. Further action is necessary to keep the facility in compliance with AWQS at the applicable POC;
3. Continued action is required to verify that the closure design has eliminated discharge to the extent intended;
4. Remedial or mitigative measures are necessary to achieve compliance with Title 49, Ch. 2; and
5. Further action is necessary to meet property use restrictions.

2.10 Post-closure [A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9 A209(C)]

Post-closure requirements shall be established based on a review of facility closure actions and will be subject to review and approval by the Groundwater Section.

In the event clean-closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Groundwater Section a post-closure plan that addresses post-closure maintenance and monitoring actions at the facility. The post-closure plan shall meet all requirements of A.R.S. §§ 49-201(30) and 49-252 and A.A.C. R18-9-A209(C). Upon approval of the post-closure plan, this permit shall be amended or a new permit shall be issued to incorporate all post-closure controls and monitoring activities of the post-closure plan.

2.10.1 Post-closure Plan

A specific post-closure plan may be required upon the review of the closure plan.

2.10.2 Post-closure Completion

Not required at the time of permit issuance.
3.0 COMPLIANCE SCHEDULE [A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208]

For each compliance schedule item listed below, the permittee shall submit the required information, including a cover letter that lists the compliance schedule items, to the Groundwater Section. A copy of the cover letter must also be submitted to the ADEQ Water Quality Compliance Section.

<table>
<thead>
<tr>
<th>Event</th>
<th>Required Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by the Department that confirms that the facility is constructed according to the Department-approved design report or plans and specifications, as applicable.</td>
<td>Prior to discharging under this permit and within 90 days after completion of construction.</td>
</tr>
<tr>
<td>Begin construction of the 8.2 mgd expansion.</td>
<td>Notify ADEQ within 15 days after the commencement date of construction of the 8.2 mgd expansion.</td>
</tr>
<tr>
<td>Submit an Engineer's Certificate of Completion for the 8.2 mgd expansion.</td>
<td>Within 30 days after completion of construction, prior to commencing discharge from the expanded WRF, and prior to beginning monitoring under Table IB.</td>
</tr>
<tr>
<td>Cease monitoring under Table IA and commence monitoring under Table IB.</td>
<td>Within 30 days after submitting the Engineer's Certificate of Completion for the 8.2 mgd expansion.</td>
</tr>
<tr>
<td>Notify ADEQ of commencement of discharge from the expanded WRF.</td>
<td>Within 15 days after commencement of monitoring under Table IB.</td>
</tr>
</tbody>
</table>
### 4.0 TABLES OF MONITORING REQUIREMENTS

#### 4.1 PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable at permit issuance.

#### 4.2 COMPLIANCE (or OPERATIONAL) MONITORING

**TABLE IA**

**ROUTINE DISCHARGE MONITORING – 4.1 MGD**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Location</th>
<th>Sample Size</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Flow: Daily</td>
<td>Not Established</td>
<td>Not Established</td>
<td>mgd</td>
</tr>
<tr>
<td>Total Flow: Monthly Average</td>
<td>3.9</td>
<td>4.1</td>
<td>mgd</td>
</tr>
<tr>
<td>Total Flow - Reuse Daily</td>
<td>Not Established</td>
<td>4.1</td>
<td>mgd</td>
</tr>
<tr>
<td>Total Flow - Reuse Monthly Average</td>
<td>Not established</td>
<td>4.1</td>
<td>mgd</td>
</tr>
<tr>
<td>E. coli: Single sample maximum</td>
<td>Not established</td>
<td>15.0</td>
<td>CFU or MPN</td>
</tr>
<tr>
<td>E. coli: four (4) of seven (7) samples in a week</td>
<td>Not established</td>
<td>Non-detect</td>
<td>CFU or MPN</td>
</tr>
<tr>
<td>Total Nitrogen: Five-sample rolling geometric mean</td>
<td>8.0</td>
<td>10.0</td>
<td>mg/l</td>
</tr>
</tbody>
</table>

---

2 Monitoring under Table IA is no longer required upon commencement of monitoring under Table IB.

3 AL = Alert Level

4 DL = Discharge Limit

5 Total flow is the total of flows to on-site process use, reclaimed water, and discharge to the R1D canal.

6 Flow shall be measured using a continuous recording flow meter which totals the flow daily.

7 Not established = Monitoring required but no limits have been specified at time of permit issuance.

8 mgd = million gallons per day

9 Monthly average of daily flow values.

10 Monthly average of daily flow values.

11 CFU = Colony Forming Units / 100 ml sample. MPN = Most Probable Number / 100 ml sample. For CFU, a value of <1.0 shall be considered to be non-detect. For MPN, a value of <2.2 shall be considered to be non-detect.

12 Week means a seven-day period starting on Sunday and ending on the following Saturday.

13 If at least four (4) of seven (7) samples in a week are non-detect, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of seven (7) samples in a week have detections of fecal coliform, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

14 Total Nitrogen = Nitrates as N + Nitrites as N + Total Kjeldahl Nitrogen

15 A five-month geometric mean of the results of the five (5) most recent samples
### 4.2 COMPLIANCE (or OPERATIONAL) MONITORING

**TABLE IA**

**ROUTINE DISCHARGE MONITORING – 4.1 MGD (continued)**

<table>
<thead>
<tr>
<th>Metals (total):</th>
<th>Limit</th>
<th>QA/L</th>
<th>Unit</th>
<th>Frequency</th>
<th>Reporting Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony</td>
<td>0.004$</td>
<td>0.06</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Arsenic</td>
<td>0.04</td>
<td>0.05</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Barium</td>
<td>1.60</td>
<td>2.00</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Beryllium</td>
<td>0.0032</td>
<td>0.004</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Cadmium</td>
<td>0.004</td>
<td>0.005</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Chromium</td>
<td>0.08</td>
<td>0.1</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Cyanide (as free cyanide)</td>
<td>0.16</td>
<td>0.2</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Fluoride</td>
<td>3.2</td>
<td>4.0</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Lead</td>
<td>0.04</td>
<td>0.05</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.0016</td>
<td>0.002</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.08</td>
<td>0.1</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Selenium</td>
<td>0.04</td>
<td>0.05</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Thallium</td>
<td>0.0016</td>
<td>0.002</td>
<td>mg/l</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
</tbody>
</table>
### 4.2 COMPLIANCE (or OPERATIONAL) MONITORING

#### TABLE IA

**ROUTINE DISCHARGE MONITORING – 4.1 MGD (continued)**

<table>
<thead>
<tr>
<th>Volatile Organic Compounds (VOCs):</th>
<th>mg/l</th>
<th>Semi-Annually</th>
<th>Semi-Annually</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>0.004</td>
<td>0.005</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Carbon tetrachloride</td>
<td>0.004</td>
<td>0.005</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>o-Dichlorobenzene</td>
<td>0.48</td>
<td>0.6</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>para-Dichlorobenzene</td>
<td>0.06</td>
<td>0.075</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
<td>0.004</td>
<td>0.005</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>1,1-Dichloroethylene</td>
<td>0.0056</td>
<td>0.007</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>cis-1,2-Dichloroethylene</td>
<td>0.056</td>
<td>0.07</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>trans-1,2-Dichloroethylene</td>
<td>0.08</td>
<td>0.1</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Dichloromethane</td>
<td>0.004</td>
<td>0.005</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>1,2-Dichloropropane</td>
<td>0.004</td>
<td>0.005</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>0.56</td>
<td>0.7</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Hexachlorobenzene</td>
<td>0.0008</td>
<td>0.001</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Hexachlorocyclopentadiene</td>
<td>0.04</td>
<td>0.05</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Monochlorobenzene</td>
<td>0.08</td>
<td>0.1</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Styrene</td>
<td>0.08</td>
<td>0.1</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
<td>0.004</td>
<td>0.005</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Toluene</td>
<td>0.8</td>
<td>1.0</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td>0.16</td>
<td>0.2</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>1,2,4 - Trichlorobenzene</td>
<td>0.056</td>
<td>0.07</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>1,1,2 - Trichloroethane</td>
<td>0.004</td>
<td>0.005</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Trichloroethylene</td>
<td>0.004</td>
<td>0.005</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Vinyl Chloride</td>
<td>0.0016</td>
<td>0.002</td>
<td>Semi-Annually</td>
</tr>
<tr>
<td>Xylenes (Total)</td>
<td>8.0</td>
<td>10.0</td>
<td>Semi-Annually</td>
</tr>
</tbody>
</table>
## 4.2 COMPLIANCE (or OPERATIONAL) MONITORING

### TABLE III

**ROUTINE DISCHARGE MONITORING – 8.2 MGD**

<table>
<thead>
<tr>
<th></th>
<th>Downstream of the UV Channel</th>
<th>33° 27' 55&quot; N</th>
<th>112° 21' 56&quot; W</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Flow</strong>:</td>
<td>Established</td>
<td>Not</td>
<td>mgd</td>
</tr>
<tr>
<td>Daily</td>
<td>Established</td>
<td>Not</td>
<td>Daily</td>
</tr>
<tr>
<td>Monthly Average</td>
<td>7.8</td>
<td>8.2</td>
<td>mgd</td>
</tr>
<tr>
<td>Daily</td>
<td>Not established</td>
<td>Not</td>
<td>Monthly</td>
</tr>
<tr>
<td>Monthly Average</td>
<td>Not established</td>
<td>8.2</td>
<td>Calculation</td>
</tr>
<tr>
<td>E. coli: Single sample maximum</td>
<td>Not established</td>
<td>15.0</td>
<td>CFU or MPN</td>
</tr>
<tr>
<td>E. coli: four (4) of seven (7) samples in a week</td>
<td>Not established</td>
<td>Non-detect$^{26}$</td>
<td>CFU or MPN</td>
</tr>
<tr>
<td>Total Nitrogen$^{27}$: Five-sample rolling geometric mean</td>
<td>8.0</td>
<td>10.0</td>
<td>mg/l</td>
</tr>
</tbody>
</table>

---

16 **AL** = Alert Level  
17 **DL** = Discharge Limit  
18 Total flow is the total of flows to on-site process use, reclaimed water, and discharge to the RID canal.  
19 Flow shall be measured using a continuous recording flow meter which totals the flow daily.  
20 Not established = Monitoring required but no limits have been specified at time of permit issuance.  
21 mgd = million gallons per day  
22 Monthly average of daily flow values.  
23 Monthly average of daily flow values.  
24 CFU = Colony Forming Units / 100 ml sample. MPN = Most Probable Number / 100 ml sample. For CFU, a value of <1.0 shall be considered to be non-detect. For MPN, a value of <2.2 shall be considered to be non-detect.  
25 Week means a seven-day period starting on Sunday and ending on the following Saturday.  
26 If at least four (4) of seven (7) samples in a week are non-detect, report “yes” in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of seven (7) samples in a week have detections of fecal coliform, report “no” in the appropriate space on the SMRF (indicating that the standard has not been met).  
27 Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen  
28 A five-month geometric mean of the results of the five (5) most recent samples
4.2 COMPLIANCE (or OPERATIONAL) MONITORING

**TABLE IB**
ROUTINE DISCHARGE MONITORING – 8.2 MGD (continued)

<table>
<thead>
<tr>
<th>Metals (total):</th>
<th>Milligrams/Liter</th>
<th>Sampling Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony</td>
<td>0.0048 0.006</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Arsenic</td>
<td>0.04 0.05</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Barium</td>
<td>1.60 2.00</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Beryllium</td>
<td>0.0032 0.004</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Cadmium</td>
<td>0.004 0.005</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Chromium</td>
<td>0.08 0.1</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Cyanide (as free cyanide)</td>
<td>0.16 0.2</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Fluoride</td>
<td>3.2 4.0</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Lead</td>
<td>0.04 0.05</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.0016 0.002</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.08 0.1</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Selenium</td>
<td>0.04 0.05</td>
<td>mg/l Quarterly</td>
</tr>
<tr>
<td>Thallium</td>
<td>0.0016 0.002</td>
<td>mg/l Quarterly</td>
</tr>
</tbody>
</table>
4.2 COMPLIANCE (or OPERATIONAL) MONITORING

**TABLE 1B**
ROUTINE DISCHARGE MONITORING – 8.2 MGD (continued)

<table>
<thead>
<tr>
<th>Volatile Organic Compounds (VOCs):</th>
<th>Method</th>
<th>mg/l</th>
<th>Monitoring Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>0.004</td>
<td>0.005</td>
<td>mg/l</td>
</tr>
<tr>
<td>Carbon tetrachloride</td>
<td>0.004</td>
<td>0.005</td>
<td>mg/l</td>
</tr>
<tr>
<td>o-Dichlorobenzene</td>
<td>0.48</td>
<td>0.6</td>
<td>mg/l</td>
</tr>
<tr>
<td>para-Dichlorobenzene</td>
<td>0.06</td>
<td>0.075</td>
<td>mg/l</td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
<td>0.004</td>
<td>0.005</td>
<td>mg/l</td>
</tr>
<tr>
<td>1,1-Dichloroethylene</td>
<td>0.0056</td>
<td>0.007</td>
<td>mg/l</td>
</tr>
<tr>
<td>cis,1,2-Dichloroethylene</td>
<td>0.056</td>
<td>0.07</td>
<td>mg/l</td>
</tr>
<tr>
<td>trans,1,2-Dichloroethylene</td>
<td>0.08</td>
<td>0.1</td>
<td>mg/l</td>
</tr>
<tr>
<td>Dichloromethane</td>
<td>0.004</td>
<td>0.005</td>
<td>mg/l</td>
</tr>
<tr>
<td>1,2-Dichloropropane</td>
<td>0.004</td>
<td>0.005</td>
<td>mg/l</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>0.56</td>
<td>0.7</td>
<td>mg/l</td>
</tr>
<tr>
<td>Hexachlorobenzene</td>
<td>0.0008</td>
<td>0.001</td>
<td>mg/l</td>
</tr>
<tr>
<td>Hexachlorocyclopentadiene</td>
<td>0.04</td>
<td>0.05</td>
<td>mg/l</td>
</tr>
<tr>
<td>Monochlorobenzene</td>
<td>0.08</td>
<td>0.1</td>
<td>mg/l</td>
</tr>
<tr>
<td>Styrene</td>
<td>0.08</td>
<td>0.1</td>
<td>mg/l</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
<td>0.004</td>
<td>0.005</td>
<td>mg/l</td>
</tr>
<tr>
<td>Toluene</td>
<td>0.8</td>
<td>1.0</td>
<td>mg/l</td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td>0.16</td>
<td>0.2</td>
<td>mg/l</td>
</tr>
<tr>
<td>1,2,4-Trichlorobenzene</td>
<td>0.056</td>
<td>0.07</td>
<td>mg/l</td>
</tr>
<tr>
<td>1,1,2-Trichloroethane</td>
<td>0.004</td>
<td>0.005</td>
<td>mg/l</td>
</tr>
<tr>
<td>Trichloroethylene</td>
<td>0.004</td>
<td>0.005</td>
<td>mg/l</td>
</tr>
<tr>
<td>Vinyl Chloride</td>
<td>0.0016</td>
<td>0.002</td>
<td>mg/l</td>
</tr>
<tr>
<td>Xylenes (Total)</td>
<td>8.0</td>
<td>10.0</td>
<td>mg/l</td>
</tr>
</tbody>
</table>
4.2 COMPLIANCE (or OPERATIONAL) MONITORING

**TABLE IC**
RECLAIMED WATER MONITORING TABLE - CLASS A

<table>
<thead>
<tr>
<th>Sampling Method</th>
<th>Sampling Location</th>
<th>Limit Units</th>
<th>Limit Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>** sampling period**</td>
<td>Downstream of the</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>UV Channel</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Nitrogen</strong></td>
<td>10.0</td>
<td>mg/L</td>
<td>Monthly</td>
</tr>
<tr>
<td><strong>E. coli</strong> - Single-sample maximum</td>
<td>15.0</td>
<td>CFU or MPN</td>
<td>Daily</td>
</tr>
<tr>
<td><strong>E. coli</strong> - Four (4) of last seven (7) samples</td>
<td>Non-detect</td>
<td>CFU or MPN</td>
<td>Daily</td>
</tr>
<tr>
<td><strong>Turbidity</strong> - Single reading</td>
<td>5.0</td>
<td>NTU13</td>
<td>Everyday</td>
</tr>
<tr>
<td><strong>Turbidity</strong> - 24-hour average</td>
<td>2.0</td>
<td>NTU</td>
<td>Everyday</td>
</tr>
<tr>
<td><strong>Enteric Virus</strong> - Four (4) of last seven (7) samples</td>
<td>Non-detect</td>
<td>PFU18</td>
<td>Monthly / Suspended</td>
</tr>
</tbody>
</table>

---

28 Reclaimed water monitoring under Table IC shall be performed in addition to routine discharge monitoring required under Section 4.2, Tables IA and IB.

29 Nitrate N, plus Nitrite N, plus Total Kjeldahl Nitrogen (TKN)

30 CFU = Colony Forming Units per 100 ml; MPN = Most Probable Number per 100 ml. For CFU, a value of <1.0 shall be considered to be non-detect. For MPN, a value of <2.2 shall be considered to be non-detect.

31 For fecal coliform, "daily" sampling means every day in which a sample can practically be obtained and delivered in sufficient time for proper analysis, provided that no less than four (4) samples in each seven-day period are obtained and analyzed.

32 If at least four (4) of the last seven (7) samples are non-detect, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of the last seven (7) samples have detections of fecal coliform, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

33 Turbidity shall have a signal averaging time not exceeding 120 seconds. Occasional spikes due to back-flushing or instrument malfunction shall not be considered an exceedance. All exceedances must be explained and submitted to the Department with the corresponding quarterly SMRF.

34 NTU = Nephelometric Turbidity Units

*For the single turbidity reading, "everyday" means the maximum reading during the 24-hour period.

35 Initial monthly enteric virus sampling shall be performed to indicate four (4) out of seven (7) sample results of non-detect.

36 plaque forming units per 40 liters. A value of <1.1 PFU/40 L shall be considered to be non-detect.

37 Enteric virus sampling shall resume only when the discharge limit for the 24-hour average for turbidity is exceeded for two (2) consecutive 24-hour monitoring periods. Monthly enteric virus monitoring shall continue until four (4) out of seven (7) consecutive sample results show no detection. During times when enteric virus sampling is suspended, enter "suspended" in the appropriate space on the SMRF.
4.2 COMPLIANCE (or OPERATIONAL) MONITORING

**TABLE II**
GROUNDWATER MONITORING

Not applicable.

**TABLE III**
FACILITY INSPECTION (Operational Monitoring)

<table>
<thead>
<tr>
<th>Facility Component</th>
<th>Condition</th>
<th>Frequency</th>
<th>Report Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Integrity</td>
<td>Good working condition</td>
<td>Weekly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Treatment Plant Components</td>
<td>Good working condition</td>
<td>Weekly</td>
<td>Quarterly</td>
</tr>
</tbody>
</table>
5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with the Department:

1. APP Application, dated:
   - December 29, 2000 (original APP, signed on July 23, 2001)
   - August 18, 2004 (Significant Amendment, signed on June 13, 2006)
   - June 30, 2008 (Other Amendment)

2. Final Hydrologist Report, dated:
   - October 7, 2005 (Significant Amendment)

3. Final Engineering Report, dated:
   - August 16, 2005 (Significant Amendment)
   - August 27, 2008 (Other Amendment)

4. Public Notice, dated:
   - May 30, 2001 (original APP)
   - February 23, 2006 (Significant Amendment)

5. Public Hearing, dated:
   - Not applicable.

6. Responsiveness Summary, dated:
   - Not applicable.
6.0 NOTIFICATION PROVISIONS

6.1 Annual Registration Fees

The permittee is notified of the obligation to pay an Annual Registration Fee to ADBQ. The Annual Registration Fee is based upon the amount of daily influent or discharge of pollutants in gallons per day as established by A.R.S. § 49-242(D).

6.2 Duty to Comply [A.R.S. §§ 49-221 through 263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.3 Duty to Provide Information [A.R.S. §§ 49-243(K)(2) and 49-243(K)(3)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

6.4 Compliance with Aquifer Water Quality Standards [A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

The permittee shall not cause or contribute to a violation of an Aquifer Water Quality Standard at the applicable point of compliance for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an Aquifer Water Quality Standard for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.5 Technical and Financial Capability [A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability in the permit application, pursuant to A.A.C. R18-9-A203(D), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.6 Reporting of Bankruptcy or Environmental Enforcement [A.A.C. R18-9-A207(C)]

The permittee shall notify the Director within five days after the occurrence of any one of the following:

1. the filing of bankruptcy by the permittee;
2. the entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

6.7 Monitoring and Records [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

6.8 Inspection and Entry [A.R.S. §§ 41-1009, 49-203(B), and 49-243(K)(8)]
In accordance with A.R.S. §§ 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit.

6.9 Duty to Modify [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.


This permit may be amended, transferred, suspended, or revoked for cause, under the rules of the Department. The permittee shall notify the Groundwater Section in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

7.0 ADDITIONAL PERMIT CONDITIONS

7.1 Other Information [A.R.S. § 49-243(K)(8)]

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.


The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

7.3 Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. No transfer shall be approved until the applicant compiles with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).
EXHIBIT 3
CLEAN WATER ACT
- 208 AMENDMENT -

APPLICATION FOR
MARICOPA ASSOCIATION OF GOVERNMENTS

ADEQ WATER PERMITS RECEIVED
DEC 29, 2003

PREPARED FOR:
LITCHFIELD PARK SERVICE COMPANY
WATER RECLAMATION FACILITY
&
city of Goodyear

PREPARED BY
PACE
EXECUTIVE SUMMARY

The Maricopa Association of Governments (MAG) is the Designated Management Agency with the authority under Section 208(2)(b) of the Clean Water Act (CWA) to prepare the Regional Water Quality Management Plan for the Maricopa County Planning Area. The purpose of this application is to request a Clean Water Act Section 208 amendment to the current Regional Water Quality Management Plan. The requested amendments include:

Amendment Item #1:
The construction of a new LPSCo owned and operated 8.2 MGD Palm Valley water reclamation facility (WRF) on McDowell Road between Bullard Avenue and Litchfield Road in the City of Goodyear. The purpose of this new facility is for the reclamation of wastewater flows from the current Litchfield Park Service Company (LPSCo) service area and portions of the Regional Analysis Zone (RAZ) 265 and 266. The expanded service area for the Palm Valley WRF will have a general boundary from the I-10 freeway north past Camelback Road and west from Dysart Road to Bullard Avenue. Permits that will be required for the Palm Valley WRF will include an ADEQ Reuse Permit for irrigation of existing golf courses and parks as well as an APP permit for both reuse and recharge. In the event that not all effluent water can be reused and recharged a NPDES will be in place to allow a secondary point of discharge.

Amendment Item #2:
The construction of a new LPSCo owned and operated 8.2 MGD Sarival WRF at Sarival Avenue and McDowell Road in the City of Goodyear. The purpose of this new facility is for the reclamation of wastewater flows from the remaining portions of RAZ 265. The service area for the Sarival WRF will have a general boundary from the I-10 freeway north to Camelback Road and west from Bullard Avenue to Cotton Lane and sections between Cotton Lane and Perryville Road. Permits that will be required for the Sarival WRF will include an ADEQ Reuse Permit for irrigation of existing golf courses and parks as well as an APP permit for both reuse and recharge. In the event that not all effluent water can be reused and recharged a NPDES will be in place to allow a secondary point of discharge.

Several alternatives have been studied in addition to the construction of independent wastewater treatment plants for accommodation of increasing flows. The alternatives include:

Alternative 1:
LPSCo continued contribution of wastewater flow to the Goodyear 157th Avenue WWTP and purchase of additional capacity to be provided at the 157th Avenue WWTP.

Alternative 2:
Construction of a LPSCo wastewater treatment plant and sale of all interest in the City of Goodyear 157th Avenue WWTP.
Alternative 3:
LPSCo continued contribution of wastewater flow to the Goodyear 157th Avenue WWTP and purchase of additional capacity and process upgrades to be provided at the 157th Avenue WWTP.

Alternative 4:
Deferred construction of a LPSCo wastewater treatment plant until the actual LPSCo wastewater contribution to the Goodyear 157th Avenue WWTP increases to 2.0 MGD.

Alternative 5:
Deferred construction of a LPSCo wastewater treatment plant until the actual LPSCo wastewater contribution to the Goodyear 157th Avenue WWTP increases to 1.4 MGD.

Construction of a LPSCo water reclamation plant was considered to be highly cost-effective in comparison to the continued contribution of wastewater to the Goodyear 157th Avenue WWTP. In their 1998 report, Black & Veatch, LLP determined that Alternative 2 of those listed above was the most economically beneficial.

This CWA 208 Amendment application provides information on the proposed independent LPSCo WRFs. The following sections describe how the Section 208 requirements are addressed including alternatives, permitting, pretreatment, sludge management, construction, financing, impacts, and public participation.

ABBREVIATIONS

ADEQ   Arizona Department of Environmental Quality
ADWR   Arizona Department of Water Resources
APP    Aquifer Protection Permit
CFR    Code of Federal Regulations
EPA    Environmental Protection Agency
LPSCo  Litchfield Park Service Company
MAG    Maricopa Association of Governments
MGD    Million gallons per day
MSDS   Material Safety Data Sheets
O&M    Operations and maintenance
P.A.C.E. Pacific Advanced Civil Engineering, Inc.
RAZ    Regional Analysis Zone
WRF    Water Reclamation Facility
WWTP   Wastewater Treatment Plant
Clean Water Act Section 208 Amendment
Litchfield Park Service Co.

August 28, 2000
#7244

20-Year Needs

The Maricopa Association of Governments (MAG) is the Designated Management Planning Agency with the authority under Section 208(2)(b) of the Clean Water Act to prepare the Regional Water Quality Management Plan for the Maricopa County Planning Area. The purpose of this application is to request a Clean Water Act Section 208 amendment to the current Regional Water Quality Management Plan. The requested amendments include:

Amendment Item #1:
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Amendment Item #2:
The construction of a new LPSCo owned and operated 8.2 MGD Sarival WRF at Sarival Avenue and McDowell Road in the City of Goodyear. The purpose of this new facility is for the reclamation of wastewater flows from the remaining portions of RAZ 265. The service area for the Sarival WRF will have a general boundary from the I-10 freeway north to Camelback Road and west from Bullard Avenue to Cotton Lane and sections between Cotton Lane and Perryville Road. Permits that will be required for the Sarival WRF will include an ADEQ Reuse Permit for irrigation of existing golf courses and parks as well as an APP permit for both reuse and recharge. In the event that not all effluent water can be reused and recharged a NPDES will be in place to allow a secondary point of discharge.

LPSCo has a current allocation of 1.4 MGD capacity at the City of Goodyear 157th Avenue WWTP. It is estimated that the sewer generation from the LPSCo service area will exceed the current 1.4 MGD capacity allocation beginning in the year 2001. To accommodate existing and future flows, two new wastewater treatment plants are proposed. The proposed LPSCo wastewater treatment plants are the Palm Valley and Sarival WRFs. Combined, the new treatment facilities will provide tertiary wastewater treatment and reclamation for all of the sewage generated in RAZ 265, 266 and two additional developments outside these planning areas (Wigwam Creek and Stardust Development).

The Palm Valley WRF will be designed and constructed in two phases. Phase I will have an average day capacity of 4.1 MGD and a full build-out capacity of 8.2 MGD. Preliminary engineering design of Phase I has begun. The facility is expected to be complete and operational by December 2001.
Clean Water Act Section 208 Amendment
Litchfield Park Service Co.

To conserve time, LPSCo has opted for a design/build approach for the initial phase of this facility. The second phase expansion is anticipated to occur after approximately 2012. The initial flow to the Palm Valley facility will come from diversion of the current 1.1 MGD LPSCo flow to the City of Goodyear’s 157th Avenue plant. As part of the original service agreement with the City of Goodyear, LPSCo has the right to sell part of or all of its 1.4 MGD capacity back to the city. At the completion of Phase I of the Palm Valley facility, LPSCo will sell 1.0 MGD of the 1.4 MGD capacity in the 157th Avenue plant back to the City of Goodyear.

This capacity will allow the City of Goodyear time to upgrade and expand their existing facilities to accommodate future flows from the Central Planning area (RAZ 280 and 281) and will provide a minimum of 0.4 MGD capacity surplus for LPSCo at the 157th Avenue plant.

After Phase I completion of the Palm Valley WRF, the second plant will be designed and constructed. This second facility will be constructed near the intersection of Sarival Avenue and McDowell Road. The Sarival WRF will also be designed and constructed in two phases. Phase I will have an average daily capacity of 4.1 MGD with a build-out capacity of 8.2 MGD. The first phase of construction for this facility is anticipated to occur in approximately 2006. Until that time, current and near-future flows will use the existing 0.4 MGD surplus LPSCo capacity at the City of Goodyear 157th Avenue treatment plant. Phase II construction is anticipated to occur after 2016.

The following sub-sections describe the proposed wastewater treatment plants, alternatives, and regulatory requirements for implementation.

A. Description of Existing Wastewater Treatment Facilities

There are no existing wastewater treatment facilities in RAZ 265 or 266 to accommodate the increasing wastewater generation from the LPSCo service area. Currently, wastewater from the LPSCo service area is routed approximately 5.7 miles to the City of Goodyear 157th Avenue WWTP. Because the wastewater generation from the LPSCo service area is approaching the current capacity agreement of 1.4 MGD, LPSCo proposes to construct new water reclamation plants in their service area. The addition of the these facilities will reduce the overall capital and operational costs for current and future LPSCo customers by eliminating the need for 6 miles of additional trunk sewer and lift stations. In addition, consumers will benefit from the reduced cost of reclaimed water, which will be processed much closer to the point of reuse.

B. Summary of Alternatives

Five alternatives have been considered to evaluate the treatment of the increasing wastewater flows from the LPSCo service area. Black & Veatch, LLP prepared a study of these alternatives in July 1998. A copy of the Preliminary Wastewater Planning Study for SunCor and Litchfield Park Service Company is included in appendix F of this amendment application for further review. The following alternatives were studied:
August 30, 2000

Ms. Lindy Bauer, Environmental Program Director
Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, AZ 85003

RE: MAG 208 AMENDMENT – GOODYEAR, ARIZONA

Dear Ms. Bauer:

Enclosed is a proposed Amendment to the Maricopa Association of Governments (MAG) 208 Water Quality Management Plan point source plan element for the City of Goodyear and Litchfield Park Service Company (LPSCo). We are requesting the County’s review comments, and its formal support in this MAG 208 Amendment process.

The proposed amendment will update the plan for wastewater treatment facilities in the central and northern planning area within the City of Goodyear, and will provide additional needed capacity for SunCor, the master developer for most of the north area.

The WRF’s are located within three miles of Litchfield Park, Avondale, Glendale, El Mirage, Buckeye, and unincorporated Maricopa County. Support letters are attached from Avondale, Litchfield Park and Glendale.

Council approved the Amendment to MAG 208 Water Quality Management Plan for the addition of Phases I-IV (16.4 MGD total) of the Palm Valley and Sarival Avenue Water Reclamation Facilities (WRF) both located north of McDowell Road, subject to the AGREEMENT FOR MAG 208 AMENDMENT. The agreement, which is attached outlines the City’s consent of the revisions to be made to the 208 plan proposed by LPSCo. Part of the agreement however addresses conditions that LPSCo must meet in order to proceed with expansions to the Palm Valley facility (beyond the original 4.1 MGD construction) or construction of the Sarival Avenue facility.

A. The facility must meet State and Federal odor requirements.
B. The operation must meet State and Federal noise control requirements.
C. The facility must produce a Class A Sludge without violations of any State or Federal requirements.
D. Compliance with the Engineering Report prepared by Environmental Utilities International (also attached).

THE CITY OF GOODYEAR
19 North Litchfield Road • Goodyear, Arizona 85338
623-932-3910 • 1-800-USA-PHX • FAX 623-932-1177 • TDD 623-932-6500
At such time as each phase of the facilities reaches an operating capacity of 3 million gallons per day (3 MGD), of each operating phase, without violation and in compliance with conditions A, B, C and 4 above, LPSCo may commence construction of the next phase. The City’s designated consultant shall determine, at each phase, whether LPSCo has complied with the requirements of this Agreement. The Consultant’s report of findings shall be submitted to City Council for approval prior to commencement of each phase.

The following are current WWTP’s and WRF and the proposed amendment for additional WRF’s in this area:

<table>
<thead>
<tr>
<th>Existing 208 Plan</th>
<th>Proposed Amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goodyear Wastewater Treatment Plant</td>
<td>n/a</td>
</tr>
<tr>
<td>Corgett Basin WRF</td>
<td>n/a</td>
</tr>
<tr>
<td>Lum Basin WWTP</td>
<td>n/a</td>
</tr>
<tr>
<td>Waterman Basin WWTP</td>
<td>n/a</td>
</tr>
<tr>
<td>n/a</td>
<td>Palm Valley WRF</td>
</tr>
<tr>
<td>n/a</td>
<td>Sarival Avenue WRF</td>
</tr>
</tbody>
</table>

Since, the newly proposed WRF’s are located within three miles of the unincorporated Maricopa County wastewater planning area. The City of Goodyear is requesting a written expression of support from the County, confirming that this Amendment will not conflict with any wastewater plans by the County.

We would appreciate a timely review and response so that we can initiate the MAC approval process. Please address your letter of support to my attention. If you have technical questions or comments, you may direct them to Steve Owen of Pacific Environmental Resources Corporation (PERC) at (602) 631-3905 ext. 405.

The City of Goodyear appreciates the County’s assistance with this matter.

Sincerely,

CITY OF GOODYEAR

Stephen S. Cleveland
City Manager

Enclosure

cc: Cato Esquivel, Jr., Public Works Director
    David W. Ellis, LPSCo
    Jay Ellingson, SunCor
    Reading File
    City Clerk
Litchfield Park Service Company ("LPSCO" or "Company") hereby files this Notice of Compliance in the above captioned matter. In Decision No. 68744 (June 5, 2006), the Commission ordered LPSCO to provide the Commission within one (1) year of the effective date of the order a detailed report describing the Company’s progress toward working with the water company for the requested area, Valley Utilities Water Company, to increase the use of effluent specifically as it pertains to golf courses, ornamental lakes or other aesthetic water features. This report will be filed each January beginning in 2007 with the Commission’s Docket Control until the Company’s next general rate case. Although LPSCO has a current rate case pending, the Company is filing this Notice to ensure compliance.

Since the last status report, efforts to coordinate effluent use with Valley Utilities Water Company have not been successful due to the lack of need. However, LPSCO personnel had been in discussions with two golf course owners in the Company’s service area for the use of effluent. One of the owners now utilizes effluent, and LPSCO has been
negotiating an agreement with the other owner. Additionally, LPSCO had already begun utilizing effluent at two greenbelt areas within its service area, and had incorporated effluent use into the design of facilities needed to serve the new Estrella Falls Mall development.

RESPECTFULLY SUBMITTED this 8th day of February, 2009.

FENNEMORE CRAIG, P.C.

By

Jay L. Shapiro
Patrick J. Black
3003 N. Central Avenue, Suite 2600
Phoenix, AZ 85012
(602) 916-5346
Attorneys for Litchfield Park Service Company

An ORIGINAL and 13 copies of the foregoing was filed this 8th day of February, 2009 with:

Docket Control
Arizona Corporation Commission
1200 West Washington
Phoenix, AZ 85007

COPY hand-delivered this 8th day of February, 2009 to:

Kimberly Battista, Compliance
Utilities Division
Arizona Corporation Commission
1200 West Washington
Phoenix, AZ 85007

By:

2285981.1/60199.001
Mike: Attached is the Staff Report for the second CC&N Application, without the amended legal description. They are recommending approval, but disallowing the $1,500 TPED. I will mail the full Report with the legal. We should discuss, and then I will prepare an outline of your testimony. Thanks. Dick
TO: Docket Control
FROM: Ernest G. Johnson
Director
Utilities Division
Date: March 24, 2006
RE: STAFF REPORT FOR LITCHFIELD PARK SERVICE COMPANY APPLICATION FOR EXTENSION OF ITS EXISTING CERTIFICATE OF CONVENIENCE AND NECESSITY (DOCKET NO. SW-01428A-06-0021)

Attached is the Staff Report for Litchfield Park Service Company's application for extension of its existing Certificate of Convenience and Necessity to provide wastewater utility service. Staff is recommending approval with conditions.

EGJ:BNC:red

Originator: Blessing Chukwu

Attachment: Original and thirteen copies
Service List for: Litchfield Park Service Company
Docket No. SW-01428A-06-0021

Mr. Richard L. Sallquist
Sallquist, Drummond & O'Connor, P.C.
4500 S. Lakeshore Drive, Suite 339
Tempe, Arizona 85282

Mr. Christopher C. Kempley
Chief, Legal Division
Arizona Corporation Commission
1200 West Washington Street
Phoenix, Arizona 85007

Mr. Ernest G. Johnson
Director, Company Division
Arizona Corporation Commission
1200 West Washington Street
Phoenix, Arizona 85007

Ms. Lyn Farmer
Chief, Hearing Division
Arizona Corporation Commission
1200 West Washington Street
Phoenix, Arizona 85007
STAFF REPORT
UTILITIES DIVISION
ARIZONA CORPORATION COMMISSION

LITCHFIELD PARK SERVICE COMPANY

SW-01428A-06-0021

APPLICATION FOR EXTENSION OF ITS EXISTING CERTIFICATE OF CONVENIENCE AND NECESSITY

MARCH 24, 2006
STAFF ACKNOWLEDGMENT

The Staff Report for Litchfield Park Service Company (Docket No. SW-01428A-06-0021) was the responsibility of the Staff members signed below. Blessing Chukwu was responsible for the review and analysis of the Company’s application. Marlin Scott, Jr. was responsible for the engineering and technical analysis.

Blessing Chukwu
Executive Consultant III

Marlin Scott, Jr.
Utilities Engineer
EXECUTIVE SUMMARY
LITCHFIELD PARK SERVICE COMPANY
DOCKET NO. SW-01428A-06-0021

On January 13, 2006, Litchfield Park Service Company ("LPSCO" or "Company") filed an application with the Arizona Corporation Commission ("ACC" or "Commission") for an extension of its Certificate of Convenience and Necessity ("CC&N") to provide wastewater utility service in portions of Maricopa County, Arizona. On February 8, 2006, Staff filed a Sufficiency Letter indicating that the application had met the sufficiency requirements of Arizona Administrative Code. On February 23, 2006, the LPSCO filed an amended legal description.

LPSCO is an Arizona Corporation, in good standing with the Corporations Division, and engaged in providing water and wastewater utility services to customers in and around the City of Litchfield Park, and including parts of Goodyear, Avondale, and some unincorporated areas of Maricopa County. The original CC&N for the Company was granted by the Commission on January 14, 1955, in Decision Nos. 28660 and 28661 for water and wastewater, respectively. According to the Company's Annual Report for the year ending December 31, 2004, the Company provides water and wastewater utility services to approximately 11,902 and 11,817 customers in Arizona, respectively.

By this application, LPSCO is seeking Commission authority to add six parcels to its CC&N. The request will add approximately 1/4 square-mile to the Company's existing 20.0 square-miles of certificated area. LPSCO serves the City of Litchfield Park, City of Goodyear and the surrounding area in the West Valley, Maricopa County.

Based on Staff's review and analysis of the application, Staff believes that the existing 4.1 million gallon per day Wastewater Treatment Plant capacity is sufficient to serve the existing and proposed CC&N extension areas. LPSCO is in the process of expanding its Wastewater Treatment Plant from 4.1 to 8.2 million gallon per day. Staff also believes that the proposed plant facilities and their cost estimates totaling $1,303,710 are reasonable. However, no "used and useful" determinations of the proposed plant items were made and no particular treatment should be inferred for rate making or rate base purposes.

Staff recommends the Commission approve LPSCO's application for extension of its existing Certificate of Convenience and Necessity to provide wastewater service in Maricopa County subject to compliance with the following conditions:

1. To require LPSCO to charge its authorized rates and charges in the extension area.

2. To require LPSCO to not charge and/or collect the TPED fee from the developers.

3. To require LPSCO to file with Docket Control, as a compliance item in this docket, a copy of the ATC for the facilities needed to serve each of the parcels (except for Parcel 5) within one year of the effective date of an order in this proceeding.
4. To require LPSCO to file with Docket Control, as compliance items in this docket, a Notice of Filing indicating LPSCO has submitted to Docket Control copies of the APP and Section 208 Plan amendments that indicate approval of the expansion of the WWTP to 8.2 MGD, within one year of the effective date of an order in this proceeding.

5. To require LPSCO to file with Docket Control, as a compliance item in this docket, a copy of Maricopa County franchise agreement for the requested area within 365 days of the decision in this matter.

Staff further recommends that the Commission’s Decision granting the requested CC&N extension be considered null and void, after due process, should the Company fail to meet the Condition Nos. 3, 4, and 5 listed above within the time specified.
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**ATTACHMENT(S)**

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<tr>
<td>ENGINEERING MAP</td>
<td>B</td>
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</tbody>
</table>
Introduction

On January 13, 2006, Litchfield Park Service Company ("LPSCO" or "Company") filed an application with the Arizona Corporation Commission ("ACC" or "Commission") for an extension of its Certificate of Convenience and Necessity ("CC&N") to provide wastewater utility service in portions of Maricopa County, Arizona.

On February 8, 2006, Staff filed a Sufficiency Letter indicating that the application had met the sufficiency requirements of A.A.C. R14-2-610.

On February 23, 2006, the LPSCO filed an amended legal description to clearly identify the "Point of Beginning" for Parcel 6.

Background

LPSCO is an Arizona Corporation, in good standing with the Corporations Division, and engaged in providing water and wastewater utility services to customers in and around the City of Litchfield Park, and including parts of Goodyear, Avondale, and some unincorporated areas of Maricopa County. The original CC&N for the Company was granted by the Commission in Decision Nos. 28660 (for water) and 28661 (for wastewater), issued on January 14, 1955. According to the Corporations Division's record, the Company became incorporated on September 21, 1954. According to the Company's Annual Report for the year ending December 31, 2004, the Company provides water and wastewater utility services to approximately 11,902 and 11,817 customers in Arizona, respectively.

LPSCO is a wholly-owned subsidiary of Algonquin Water Resources of America, Inc. ("Algonquin"), which is a wholly-owned subsidiary of Algonquin Power Income Fund. Algonquin’s other subsidiaries that are certificated to provide water and/or wastewater utility services in Arizona includes: Bella Vista Water Company, Rio Rico Utilities, Inc., Black Mountain Sewer Company, and Gold Canyon Sewer Company. Altogether, Algonquin’s subsidiaries provide water and wastewater utility services to approximately 49,000 customers in Arizona.

By this application, LPSCO is seeking Commission authority to add six parcels to its CC&N. The request will add approximately 1/4 square-mile to the Company’s existing 20.0 square-miles of certificated area.

The Wastewater System

According to LPSCO’s 2004 Annual Report, LPSCO has a 4.1 million gallon per day ("MGD") activated sludge wastewater treatment plant ("WWTP"), three lift stations, and 255.8 miles of force/collection mains serving 11,817 service laterals. Based on historical growth rates, it is anticipated that the existing service area could grow to approximately 19,000 laterals at the end of five years. In this application, LPSCO has predicted an additional 120 laterals for the
proposed CC&N extension at the end of five years, resulting in a projected total customer base of approximately 19,120 laterals at the end of five years. Based on the existing WWTP capacity, the system can serve approximately 12,810 service laterals.

LPSCO is proposing to extend its wastewater system to the 6 parcels by extension of its collection system using contributions in aid of construction. The proposed plant facilities and their associated costs to extend service to each parcel are as follows:

1. Parcel 1 – Bethany Estates North
   a. Mains, manholes for 34 lots $375,960

2. Parcel 2 – Bethany Estates South
   a. Mains, manholes for 28 lots $129,119

3. Parcel 3 – Falcon View
   a. Mains, manholes for 64 lots $346,710

4. Parcel 4 – Riverside Estates
   a. Mains, manholes for 80 lots $334,352

5. Parcel 5 – Dysart Village
   a. Mains, manholes for 39 lots $109,700

6. Parcel 6 – Dysart Crossing – Commercial
   a. Main for 1 tap (contribution) $3,285
   b. Phase II – Casitas Bonitas Facilities – System Improvements, Developer’s pro-rata share $4,584

Total: $1,303,710

Carollo Engineers prepared a Hydraulic Model Analysis on August 22, 2005, entitled “Bethany Estates and Related Sewer Systems Model Analysis” for one of the developers, Maracay Homes. This analysis was to determine whether LPSCO’s existing mains can convey flows to the WWTP from the proposed developments. The analysis concluded that the existing mains could carry the additional flows from the new developments.

Staff concludes that the existing 4.1 MGD WWTP capacity is sufficient to serve the existing customers and proposed CC&N extension areas. LPSCO is in the process of expanding its WWTP from 4.1 to 8.2 MGD. The WWTP expansion is being addressed in another pending LPSCO CC&N extension filing under Docket No. SW-01428A-05-0022. Staff also concludes that the proposed plant facilities and their cost estimates totaling $1,303,710 are reasonable. However, no “used and useful” determinations of the proposed plant items were made and no particular treatment should be inferred for rate making or rate base purposes.
Arizona Department of Environmental Quality ("ADEQ") Compliance

ADEQ and Maricopa County Environmental Services Department ("MCESD") regulate the wastewater system under Inventory #100310 and have indicated the facility is in compliance with ADEQ regulations.

The MCESD Certificate of Approval to Construct ("ATC") for facilities needed to serve the requested areas have not been submitted to Staff by LPSCO, except for Parcel 5 – Dysart Village. Therefore, Staff recommends that LPSCO be required to file with Docket Control, as a compliance item in this docket, a copy of the ATC for the facilities needed to serve each of the parcels (except for Parcel 5) within one year of the effective date of an order in this proceeding.

LPSCO was issued a signed Aquifer Protection Permit ("APP"), dated October 11, 2001, for its 4.1 MGD WWTP and is in the process of preparing an amendment for expansion of its WWTP from 4.1 to 8.2 MGD which was noted in another LPSCO's extension filing, Docket No. SW-01428A-05-0022. Since an APP and the Section 208 Plan amendments represent fundamental authority for the designation of a wastewater service area and a wastewater provider, Staff recommends that LPSCO file with Docket Control, as compliance items in this docket, a Notice of Filing indicating LPSCO has submitted to Docket Control copies of the APP and Section 208 Plan amendments that indicate approval of the expansion of the WWTP to 8.2 MGD, within one year of the effective date of an order in this proceeding.

ACC Compliance

According to the Utilities Division Compliance Section, LPSCO has no outstanding ACC compliance issues.

Treatment Plant and Effluent Disposal ("TPED") Facility Fee

In LPSCO's last rate proceeding and Decision No. 65436, issued on December 9, 2002; LPSCO was not approved for a wastewater hook-up fee and was further ordered to remove Section K – Off-Site Facilities Hook-Up Fee – Wastewater, as found on Sheet Nos. 21 through 23 in Attachment C to the Settlement Agreement. The proposed hook-up fee in Section K showed a $1,500 per service connection or Residential Equivalent Unit ("REU"). The REU used was 320 gallons per day. The Decision further ordered LPSCO to file tariffs for hook-up fees for both water and wastewater connections for Commission consideration and possible approval.

In the Application, LPSCO submitted a copy of the Wastewater Facilities Agreement ("Agreement") which it had entered into with each of the developers for construction of plant facilities. In the Agreements, LPSCO requires the developers to pay a TPED facility fee in the amount of $1,500 per Equivalent Dwelling Unit ("EDU"). The TPED fee will be used to fund the future expansion (reserve capacity) of LPSCO's Palm Valley Water Reclamation Facility and is a non-refundable advance in aid of construction. The Agreements show the cost of the TPED fee as $4.69 per gallon per day ("GPD") for the average residential unit demand of 320 GPD,
equaling $1,500 per EDU. It appears the TPED fee numbers and its calculations are the same numbers that were used in the calculation of the non-approved hook-up fee in Decision No. 65436.

Staff considered this TPED fee to be a hook-up fee ("HUF") and since LPSCO does not have an approved HUF tariff for wastewater, this TPED fee should not be charged and/or collected from the developers. If LPSCO wishes to implement the TPED fee, LPSCO should submit a request to the Commission for review and approval of this charge as a hook-up fee as ordered in Decision No. 65436.

**Proposed Rates**

LPSCO has proposed to provide water utility service to the extension area under its authorized rates and charges.

**Franchise**

Every applicant for a CC&N and/or CC&N extension is required to submit to the Commission evidence showing that the applicant has received the required consent, franchise or permit from the proper authority, pursuant to ARS 40-282.B. If the applicant operates in an unincorporated area, the company has to obtain the franchise from the County. If the applicant operates in an incorporated area of the County, the applicant has to obtain the franchise from the City/Town.

The extension area is located in an unincorporated area of Maricopa County. As such, Staff recommends that the Company be required to file with Docket Control, as a compliance item in this docket, a copy of Maricopa County franchise agreement for the requested area within 365 days of the decision in this matter.

**Recommendations**

Staff recommends the Commission approve LPSCO’s application for extension of its existing Certificate of Convenience and Necessity to provide wastewater service in Maricopa County subject to compliance with the following conditions:

1. To require LPSCO to charge its authorized rates and charges in the extension area.
2. To require LPSCO to not charge and/or collect the TPED fee from the developers.
3. To require LPSCO to file with Docket Control, as a compliance item in this docket, a copy of the ATC for the facilities needed to serve each of the parcels (except for Parcel 5) within one year of the effective date of an order in this proceeding.
4. To require LPSCO to file with Docket Control, as compliance items in this docket, a Notice of Filing indicating LPSCO has submitted to Docket Control copies of the APP and Section 208 Plan amendments that indicate approval of the expansion of the WWTP to 8.2 MGD, within one year of the effective date of an order in this proceeding.

5. To require LPSCO to file with Docket Control, as a compliance item in this docket, a copy of Maricopa County franchise agreement for the requested area within 365 days of the decision in this matter.

Staff further recommends that the Commission’s Decision granting the requested CC&N extension be considered null and void, after due process, should the Company fail to meet the Condition Nos. 3, 4, and 5 listed above within the time specified.
MEMORANDUM

DATE: March 21, 2006

TO: Blessing Chukwu
    Executive Consultant III

FROM: Marlin Scott, Jr.
      Utilities Engineer

RE: Litchfield Park Service Company – Wastewater Division
    Docket No. SW-01428A-06-0021 (CC&N Extension)

Introduction

Litchfield Park Service Company – Wastewater Division ("LPSCo") has applied to extend its Certificate of Convenience and Necessity ("CC&N") for its wastewater system. The requested areas, composed of 6 parcels, will add approximately 1/4 square-mile to LPSCo’s existing 20.0 square-miles of certificated area. LPSCo serves the City of Litchfield Park, City of Goodyear and the surrounding area in the West Valley, Maricopa County.

Capacity

Existing Utility Plant

According to LPSCo’s 2004 Annual Report, LPSCo has a 4.1 million gallon per day ("MGD") activated sludge wastewater treatment plant ("WWTP"), three lift stations and 255.8 miles of force/collection mains serving 11,817 service laterals. Based on historical growth rates, it is anticipated that the existing service area could grow to approximately 19,000 laterals at the end of five years. In this application, LPSCo has predicted an additional 120 laterals for the proposed CC&N extension at the end of five years, resulting in a projected total customer base of approximately 19,120 laterals at the end of five years. Based on the existing WWTP capacity, the system can serve approximately 12,810 service laterals.

Proposed Plant Facilities

LPSCo is proposing to extend its wastewater system for the 6 parcels by extension of its collection system using contributions in aid of construction. The proposed plant facilities and their associated costs to extend service to each parcel are as follows:
Blessing Chukwu  
March 21, 2006  
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1. Parcel 1 – Bethany Estates North  
   a. Mains, manholes for 34 lots  
   $ 375,960
2. Parcel 2 – Bethany Estates South  
   a. Mains, manholes for 28 lots  
   $ 129,119
3. Parcel 3 – Falcon View  
   a. Mains, manholes for 64 lots  
   $ 346,710
4. Parcel 4 – Riverside Estates  
   a. Mains, manholes for 80 lots  
   $ 334,352
5. Parcel 5 – Dysart Village  
   a. Mains, manholes for 39 lots  
   $ 109,700
6. Parcel 6 – Dysart Crossing – Commercial  
   a. Main for 1 tap (contribution)  
   $ 3,285  
   b. Phase II – Casitas Bonitas Facilities –  
      System Improvements, Developer’s  
      pro-rata share  
   $ 4,584

Total: $1,303,710

Hydraulic Model Analysis

Carollo Engineers prepared a hydraulic model analysis on August 22, 2005, entitled  
“Bethany Estates and Related Sewer Systems Model Analysis” for one of the developers,  
Maracay Homes. This analysis was to determine whether LPSCo’s existing mains can  
convey flows to the WWTP from the proposed developments. The analysis concluded  
that the existing mains could carry the additional flows from the new developments.

Conclusion

Staff concludes that the existing 4.1 MGD WWTP capacity is sufficient to serve the  
existing and proposed CC&N extension areas. LPSCo is also in the process of expanding  
its WWTP from 4.1 to 8.2 MGD that is being addressed in another pending LPSCo  

Staff concludes that the proposed plant facilities and their cost estimates totaling  
$1,303,710 are reasonable. However, no “used and useful” determinations of the  
proposed plant items were made and no particular treatment should be inferred for rate  
making or rate base purposes.
Blessing Chukwu  
March 21, 2006  
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Arizona Department of Environmental Quality ("ADEQ") Compliance

Compliance Status

ADEQ and Maricopa County Environmental Services Department ("MCESD") regulate the wastewater system under Inventory #100310 and have indicated the facility is in compliance with ADEQ regulations.

Certificate of Approval to Construct

The MCESD Certificate of Approval to Construct ("ATC") for facilities needed to serve the requested areas have not been submitted to Staff by LPSCo, with the exception of Parcel 5 – Dysart Village. Staff recommends that LPSCo be required to file with Docket Control, as a compliance item in this docket, a copy of the ATC for facilities needed to service each of the parcels (except for Parcel 5) within one year of the effective date of an order in this proceeding approving the extension.

Aquifer Protection Permit ("APP") and Section 208 Plan Amendment

LPSCo was issued a signed APP, dated October 11, 2001, for its 4.1 MGD WWTP and is in the process of preparing an amendment for expansion of its WWTP from 4.1 to 8.2 MGD which was noted in another LPSCo extension filing, Docket No. SW-01428A-05-0022. Since an APP and the Section 208 Plan amendments represent fundamental authority for the designation of a wastewater service area and a wastewater provider, Staff recommends that LPSCo file with Docket Control, as compliance items in this docket within one year after a decision is issued in this proceeding, a Notice of Filing indicating LPSCo has submitted to Docket Control copies of the APP and Section 208 Plan amendments that indicates approval of the expansion of the WWTP to 8.2 MGD.

Arizona Corporation Commission Compliance

A check with the Utilities Division Compliance Section showed no outstanding Commission compliance issues for LPSCo.

Treatment Plant and Effluent Disposal Facility Fee

Discussion

Within the application, LPSCo submitted a copy of a Master Utility Agreement for Wastewater Facilities ("Agreement") for construction of plant facilities. In the Agreement, LPSCo requires the developer to pay a Treatment Plant and Effluent Disposal ("TPED") facility fee in the amount of $1,500 per Equivalent Dwelling Unit ("EDU"). The TPED fee will be used to fund the future expansion of LPSCo’s Palm Valley Water Reclamation Facility and represents a non-refundable advance in aid of construction.
Blessing Chukwu  
March 21, 2006  
Page 4

In LPSCo’s last rate proceeding and Decision No. 65436 (dated December 9, 2002); LPSCo was not approved for a wastewater hook-up fee and was further ordered to remove Section K – Off-Site Facilities Hook-Up Fee – Wastewater, as found on Sheet Nos. 21 through 23 on Attachment C to the Settlement Agreement. The proposed hook-up fee in Section K showed a $1,500 per service connection or Residential Equivalent Unit (“REU”). The REU used was 320 gallons per day. The Decision further ordered LPSCo to file tariffs for hook-up fees for both water and wastewater connections for Commission consideration and possible approval.

In this CC&N extension proceeding, the Agreement shows the cost of the TPED fee is $4.69 per gallon per day (“GPD”) for the average residential unit demand of 320 GPD, (referred to as the EDU), equaling $1,500 per EDU. It appears the TPED fee numbers and its calculation are the same numbers used in calculating the non-approved hook-up fee in Decision No. 65436.

**Conclusion**

The TPED fee will be used to fund the future expansion (reserve capacity) of LPSCo’s Palm Valley Water Reclamation Facility. Since LPSCo does not have an approved TPED fee tariff for wastewater, this TPED fee should not be charged and/or collected from the developers.

Staff considers the TPED fee a hook-up fee. If LPSCo wishes to implement the TPED fee, LSPCo should submit a request to the Commission for review and approval of this charge as a hook-up fee as ordered in Decision No. 65436.

**Summary**

**Conclusions**

A. Staff concludes that the existing 4.1 MGD WWTP capacity is sufficient to serve the existing customers and proposed CC&N extension areas. LPSCo is also in the process of expanding its WWTP from 4.1 to 8.2 MGD that is being addressed in another pending LPSCo CC&N extension filing under Docket No. SW-01428A-05-0022.

B. Staff concludes that the proposed plant facilities and their cost estimates totaling $1,303,710 are reasonable. However, no “used and useful” determinations of the proposed plant items were made and no particular treatment should be inferred for rate making or rate base purposes.

C. ADEQ and MCESD regulate the wastewater system under Inventory #100310 and have indicated the facility is in compliance with ADEQ regulations.
D. A check with the Utilities Division Compliance Section showed no outstanding Commission compliance issues for LPSCo.

Recommendations

1. Staff recommends that LPSCo be required to file with Docket Control, as a compliance item in this docket, a copy of the ATC for facilities needed to service each of the parcels (except for Parcel 5) within one year of the effective date of an order in this proceeding approving the extension.

2. Staff recommends that LPSCo file with Docket Control, as compliance items in this docket within one year after a decision is issued in this proceeding, a Notice of Filing indicating LPSCo has submitted to Docket Control copies of the APP and Section 208 Plan amendments that indicates approval of the expansion of the WWTP to 8.2 MGD.

3. The TPED fee will be used to fund the future expansion (reserve capacity) of LPSCo’s Palm Valley Water Reclamation Facility. Since LPSCo does not have an approved TPED fee tariff for wastewater, this TPED fee should not be charged and/or collected from the developers.

   Staff considers the TPED fee a hook-up fee. If LPSCo wishes to implement the TPED fee, Staff recommends that LSPCo submit a request to the Commission for review and approval of this charge as a hook-up fee as ordered in Decision No. 65436.
BEFORE THE ARIZONA CORPORATION COMMISSION

DOCKETED

JUN 05 2006

DOCKETED BY

COMMISSIONERS

JEFF HATCH-MILLER, Chairman
WILLIAM A. MUNDELL
MARC SPITZER
MIKE GLEASON
KRISTIN K. MAYES

IN THE MATTER OF THE APPLICATION OF
LITCHFIELD PARK SERVICE COMPANY FOR
AN EXTENSION OF ITS CERTIFICATE OF
CONVENIENCE AND NECESSITY TO PROVIDE
WASTEWATER SERVICE IN MARICOPA
COUNTY, ARIZONA.

DATE OF HEARING: April 27, 2006
PLACE OF HEARING: Phoenix, Arizona
ADMINISTRATIVE LAW JUDGE: Marc E. Stern

APPEARANCES:
Sallquist, Drunmond & O'Connor, by Richard L. Sallquist, on behalf of Litchfield Park Service Company; and
Mr. David Ronald, Staff Attorney, Legal Division, on behalf of the Utilities Division of the Arizona Corporation Commission.

BY THE COMMISSION:

On January 13, 2005, Litchfield Park Service Company ("LPSCO" or "Applicant") filed an application for an extension of its Certificate of Convenience and Necessity ("Certificate") to provide public wastewater utility service to various parts of Maricopa County, Arizona.

On February 8, 2006, the Commission's Utilities Division ("Staff") filed a notice of administrative completeness that LPSCO's application had met the sufficiency requirements of A.A.C. R14-2-610.

On February 9, 2006, by Procedural Order, the above-captioned matter was scheduled for hearing on April 27, 2006, and Applicant was ordered to publish notice of the application and hearing thereon.

On February 13, 2006, Staff filed a request for an extension of time to file its Staff Report.

On February 16, 2006, LPSCO filed a response indicating that it did not oppose this request.
On February 17, 2006, by Procedural Order, Staff’s request was granted.

On March 14, 2006, Applicant filed certification that it had provided public notice pursuant to the terms of the Commission’s Procedural Order.

On April 27, 2006, a full public hearing was convened before a duly authorized Administrative Law Judge of the Commission at its offices in Phoenix, Arizona. LPSCO and Staff appeared with counsel. At the conclusion of the hearing, the matter was taken under advisement pending submission of a Recommended Opinion and Order to the Commission.

* * * * * * * * * *

Having considered the entire record herein and being fully advised in the premises, the Commission finds, concludes, and orders that:

FINDINGS OF FACT

1. Pursuant to authority granted by the Commission, LPSCO is engaged in providing public water service to approximately 11,902 customers and public wastewater service to approximately 11,817 customers in various parts of the Cities of Goodyear, Litchfield Park, Avondale and various unincorporated areas of Maricopa County, Arizona.

2. On January 13, 2006, LPSCO filed an application in which it seeks Commission approval to extend its wastewater Certificate to various unincorporated portions of Maricopa County, Arizona, which areas are described more fully in Exhibit A, attached hereto and incorporated by reference.

3. The area for which LPSCO is seeking an extension of its Certificate to provide wastewater service is comprised of six parcels of land that will add approximately one-quarter of a square mile (approximately 160 acres) to its already existing 20 square mile certificated service area.

4. Applicant provided notice of the application and hearing thereon in the manner prescribed by law.

5. Five of the six parcels for which Applicant is requesting certification are being developed by developers who plan to develop the parcels into a total of 245 residential lots. The

LPSCO is a wholly owned subsidiary of Algonquin Water Resources of America, Inc.
sixth parcel consists of three acres which is being developed for commercial use.

6. LPSCO projects that residential development in the area described in Exhibit A will result in approximately 120 new wastewater connections in five years.

7. With respect to the area sought to be certificated, LPSCO presently has an existing activated sludge wastewater treatment plan ("WWTP") with a 4.1 million gallons per day capacity that can service approximately 12,810 customers. This wastewater facility has the capacity to accommodate existing customers and future customers in the extension area.

8. The customers in the extension area will be provided with water service by Valley Utilities.

9. LPSCO employs full-time certified operators for its wastewater facility.

10. Since the six parcels for which LPSCO is requesting an extension for its wastewater Certificate herein are located only in unincorporated areas of Maricopa County, LPSCO will obtain a county franchise upon the issuance of an extension of its Certificate to provide service.

11. LPSCO will charge customers in the parcels sought to be certificated herein its existing rates and charges.

12. In the areas sought to be certificated herein, LPSCO will finance the extension of its collection system by means of contributions in aid of construction.

13. LPSCO is current on its filings with the Commission and the payment of its property taxes.

14. LPSCO is in compliance with the rules of the Arizona Department of Environmental Quality ("ADEQ"), the Arizona Department of Water Resources ("ADWR"), and also the rules of the Maricopa County of Environmental Services Department ("MCESD").

15. LPSCO will file copies of the MCESD Certificate(s) of Approval to Construct ("CAC") for the five residential parcels in the future. LPSCO previously filed a copy of the CAC for the commercial parcel included in this proceeding with its Application.

16. While LPSCO has the existing capacity to provide wastewater service to the area described in Exhibit A, Applicant is in the process of planning the expansion of its WWTP from a treatment capacity of 4.1 million gallons per day ("MGD") to 8.2 MGD to service a total projected
customer base of in excess of 19,000 customers after five years in its service area. The expansion of
LPSCO’s WWTP is being addressed in another pending Certificate extension proceeding in Docket
No. SW-01428A-05-0022.

17. On October 11, 2001, LPSCO was issued an Aquifer Protection Permit ("APP") for
its 4.1 MGD WWTP. Applicant is preparing to secure an amendment of its APP and its 208 Plan
when it expands its WWTP to 8.2 MGD.

18. On December 9, 2002, the Commission issued Decision No. 65436, in which
LPSCO’s current rates and charges were approved. However, at that time, a proposed Off-Site
Facilities Hook-Up Fee-Wastewater ("HUF") of $1,500 for new wastewater connections in areas
where a developer requested inclusion in LPSCO’s certificated service area to meet the cost of plant
associated with the demand placed on the system by the new development was disallowed. LPSCO
was further ordered to “file, by April 15, 2003, tariffs for hook-up fees for both water and wastewater
connections for Commission consideration and possible approval.”

19. With this Application, LPSCO submitted a copy of the Wastewater Facilities
Agreement ("WFA") which it had entered into with each developer for the construction of plant
facilities. The proposed facilities and associated costs to extend service total $1,303,710. The WFAs
further require each developer to pay a Treatment Plant and Effluent Disposal Fee ("TPED") of
$1,500 per Equivalent Dwelling Unit ("EDU") for each new connection in an extension area.²

20. During the hearing, LPSCO’s vice-president and general manager testified that
Applicant has thus far collected $277,123 for TPEDs from five of the six developers for the parcels
described in Exhibit A, and that the developer of the remaining parcel is to pay $120,000.

21. Staff found that the proposed TPED of $1,500 per EDU appears to be based on the
same calculations disallowed in Decision No. 65436 and considers the TPED to be a HUF which
should not be charged or collected from developers, unless approved by the Commission.

22. Staff continues to recommend that LPSCO should submit a request to the Commission
for its review and approval of the TPED as a HUF as ordered by Decision No. 65436 if LPSCO

² According to the Staff Report, the TPED is to be used to fund future expansion (reserve capacity) of LPSCO’s
Palm Valley Reclamation Facility and it is to be classified as a non-refundable advance in aid of construction.
wishes to charge this fee.

23. Staff is recommending approval of LPSCO’s application to extend its Certificate to provide wastewater service to the six parcels described in Exhibit A.

24. Staff is also recommending the following:
   - that LPSCO not charge or collect the TPED fee from developers;
   - that LPSCO file, within 365 days of the effective date of this Decision, with the Commission’s Docket Control, as a compliance item in this Docket, a copy of its Maricopa County franchise for the extension area;
   - that LPSCO file, within 365 days of the effective date of this Decision, with the Commission’s Docket Control, as a compliance item in this Docket, copies of the CAC(s) issued by the MCESD to serve the parcels described above; and
   - that LPSCO file, within 365 days from the effective date of this Decision, with the Commission’s Docket Control, as a compliance item in this Docket, copies of its amended APP and amended Section 208 Plan that indicate approval of Applicant’s expansion of its WWTP from 4.1 MGD to 8.2 MGD.

25. Staff further recommends that the Commission’s approval of an extension of LPSCO’s wastewater Certificate to provide service to the area described in Exhibit A should be rendered null and void if Applicant fails to meet any of the above conditions in the time specified.

26. Because an allowance for the property tax expense of LPSCO is included in the Company’s rates and will be collected from its customers, the Commission seeks assurances from the Company that any taxes collected from ratepayers have been remitted to the appropriate taxing authority. It has come to the Commission’s attention that a number of utility companies have been unwilling or unable to fulfill their obligation to pay the taxes that were collected from ratepayers, some for as many as twenty years. It is reasonable, therefore, that as a preventive measure LPSCO annually file, as part of its annual report, an affidavit with the Utilities Division attesting that the company is current in paying its property taxes in Arizona.

27. Based upon our review of the record, we believe that Staff’s recommendations herein are reasonable and should be adopted. We further believe that LPSCO should deposit all monies
previously collected under its unauthorized TPED into a separate account and collect no such funds in the future unless LPSCO submits its TPED in the form of a proposed tariff to the Commission for approval and is subsequently authorized to do so.

28. In recognition of ongoing drought conditions in Arizona, the Company shall provide the Commission within one year of the effective date of this order a detailed report describing the Company's progress toward working with the water provider for the extension area, Valley Utilities, to increase the use of effluent specifically as it pertains to golf courses, ornamental lakes and other aesthetic water features. This report shall be filed each January beginning in 2007 with the Commission's Docket Control until the Company's next general rate case.

CONCLUSIONS OF LAW

1. Applicant is a public service corporation within the meaning of Article XV of the Arizona Constitution and A.R.S. §§ 40-252, 40-281 and 40-282.

2. The Commission has jurisdiction over the Applicant and of the subject matter of the application.

3. Notice of LPSCO's application as described herein was given in the manner prescribed by law.

4. The public convenience and necessity require and the public would benefit by the extension of LPSCO's wastewater Certificate so that its certificated service area will include the extension area as described in Exhibit A.

5. The Applicant is a fit and proper entity to receive an amended wastewater Certificate which encompasses the area more fully described in the extension area in Exhibit A.

6. LPSCO's application for the extension of its wastewater Certificate should be approved as recommended by Staff in Findings of Fact Nos. 24 and 25.

7. LPSCO should deposit all monies collected from developers under its unauthorized TPED into a separate account and collect no such funds in the future unless it submits a tariff and is authorized to do so by the Commission.

...
ORDER

IT IS THEREFORE ORDERED that the application of Litchfield Park Service Company for an extension of its Certificate of Convenience and Necessity to provide wastewater service with respect to the extension area more fully described in Exhibit A be, and is hereby, approved, provided that Litchfield Park Service Company complies with the conditions as set forth in Findings of Fact Nos. 24 and 25.

IT IS FURTHER ORDERED that Litchfield Park Service Company shall charge those customers in the extension area more fully described in Exhibit A its existing rates and charges for wastewater until further Order by the Commission.

IT IS FURTHER ORDERED that in the event Litchfield Park Service Company does not timely file copies of the required documentation as described in Findings of Fact Nos. 24 and 25, then the extension granted herein shall be rendered null and void after due process.

IT IS FURTHER ORDERED that Litchfield Park Service Company shall deposit all monies collected from developers under its unauthorized Treatment Plan and Effluent Disposal Fee into a separate account and file certification of same, within 30 days of the effective date of this Decision with the Commission’s Docket Control, as a compliance item in this Docket.

IT IS FURTHER ORDERED that if Litchfield Park Service Company shall file, within 30 days of the effective date of this Decision, with the Commission’s Docket Control, a proposed tariff for its Treatment Plan and Effluent Disposal Fee for Commission approval.

IT IS FURTHER ORDERED that in the event the Treatment Plan and Effluent Disposal Fee is not approved by the Commission, Litchfield Park Service Company shall then promptly refund any monies collected thereunder to the developers who paid them, and file, within 30 days of said disapproval, with the Commission’s Docket Control, as a compliance item in this Docket, certification of the refund together with the names and addresses of the developers and the amounts refunded.

...
IT IS FURTHER ORDERED that Litchfield Park Service Company shall annually file as part of its annual report, an affidavit with the Utilities Division attesting that the Company is current in paying its property taxes in Arizona.

IT IS FURTHER ORDERED that in recognition of ongoing drought conditions in Arizona, the Company shall provide the Commission within one year of the effective date of this order a detailed report describing the Company’s progress toward working with the water provider for the extension area, Valley Utilities, to increase the use of effluent specifically as it pertains to golf courses, ornamental lakes and other aesthetic water features. This report shall be filed each January beginning in 2007 with the Commission’s Docket Control until the Company’s next general rate case.

IT IS FURTHER ORDERED that this Decision shall become effective immediately.

BY ORDER OF THE ARIZONA CORPORATION COMMISSION.

CHIEF

COMMISSIONER

COMMISSIONER

IN WITNESS WHEREOF, I, BRIAN C. McNEIL, Executive Director of the Arizona Corporation Commission, have hereunto set my hand and caused the official seal of the Commission to be affixed at the Capitol, in the City of Phoenix, this 5th day of June, 2006.

EXECUTIVE DIRECTOR

DISSENT

DISSENT

MES:mj

DECISION NO. 68744
SERVICE LIST FOR: LITCHFIELD PARK SERVICE COMPANY
DOCKET NO.: SW-01428A-06-0021

Richard L. Sallquist
SALLQUIST, DRUMMOND & O'CONNOR
4500 S. Lakeshore Drive, Ste. 339
Tempe, AZ 85282

Christopher Kempley, Chief Counsel
Legal Division
ARIZONA CORPORATION COMMISSION
1200 West Washington Street
Phoenix, AZ 85007

Ernest G. Johnson, Director
Utilities Division
ARIZONA CORPORATION COMMISSION
1200 West Washington
Phoenix, AZ 85007
LEGAL DESCRIPTION

That portion of the East half of the Southwest quarter of Section 11, Township 2 North, Range 1 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona, more particularly described as follows:

BEGINNING at the Center of said Section 11;
THENCE South 00°01'43" East, along the East line of said quarter, a distance of 1450.82 feet;
THENCE South 89°58'09" West, a distance of 1301.90 feet to the West line of said East half;
THENCE North 00°02'38" West, along said line, a distance of 1470.76 feet to the North line of said quarter;
THENCE South 89°09'12" East, along said line, a distance of 1302.45 feet to the POINT OF BEGINNING.

Said parcel containing 43.67 acres gross.

Parcel 1

Exhibit A

DECISION NO. 68744
LEGAL DESCRIPTION

A PARCEL OF LAND LYING IN THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION II, TOWNSHIP 2 NORTH, RANGE 1 WEST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTH QUARTER CORNER OF SAID SECTION II, FROM WHICH THE SOUTHWEST CORNER THEREOF BEARS NORTH 89 DEGREES 01 MINUTES 47 SECONDS WEST, A DISTANCE OF 2603.69 FEET, AND THE TRUE POINT OF BEGINNING; THENCE NORTH 89 DEGREES 01 MINUTES 47 SECONDS WEST, ALONG THE SOUTH LINE OF SAID SOUTHWEST QUARTER, A DISTANCE OF 1301.79 FEET; THENCE NORTH 00 DEGREES 02 MINUTES 38 SECONDS WEST, A DISTANCE OF 1157.29 FEET; THENCE NORTH 89 DEGREES 58 MINUTES 9 SECONDS EAST, A DISTANCE OF 1301.90 FEET TO A POINT ON THE NORTH SOUTH MID SECTION LINE OF SAID SECTION II; THENCE SOUTH 0 DEGREES 01 MINUTES 43 SECONDS EAST, A DISTANCE OF 1180.04 FEET TO THE TRUE POINT OF BEGINNING.

SAID PARCEL CONTAINS 1,521,306 SQUARE FEET (34.924 ACRES) GROSS AREA.
LEGAL DESCRIPTION

That portion of the Northeast quarter of Section 11, Township 2 North, Range 1 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the Northeast corner of said Section;
THENCE North 89°18′03″ West, along the North line of said Section, a distance of 1303.39 feet to the Northeast corner of the West half of said Northeast quarter;
THENCE South 00°01′27″ East, along the East line of said West half, a distance of 658.54 feet to the POINT OF BEGINNING;
THENCE continuing South 00°01′27″ East, along said East line, a distance of 1975.62 feet to a point on the South line of said quarter;
THENCE North 89°10′20″ West, along said South line, a distance of 651.16 feet to a point on the West line of the East half of said West half;
THENCE North 00°02′10″ West, along said West line, a distance of 1974.53 feet;
THENCE South 89°16′08″ East, a distance of 651.55 feet to the POINT OF BEGINNING.

Said parcel containing 29.53 acres gross.
RIVERSIDE ESTATES

LEGAL DESCRIPTION

That portion of The Southeast Quarter of Section 11, Township 2 North, Range 1 West of the Gila and Salt River Meridian, Maricopa County, Arizona, described as follows:

Commencing at the East Quarter Corner of said Section 11 said point being the.

TRUE POINT OF BEGINNING;
Thence South 00 degrees 00 minutes 32 seconds East along the East line of said Section 11 a distance of 1318.56 feet;
Thence North 89 degrees 06 minutes 15 seconds West a distance of 1301.91 feet;
Thence North 00 degrees 00 minutes 39 seconds West a distance of 1317.01 feet to a point on the East-West Midsection line of said Section 11;
Thence South 89 degrees 10 minutes 20 seconds East along said Midsection line a distance of 1302.32 feet;
to the POINT OF BEGINNING.

The above described parcel contains 1,715,709.41 Sq. Ft. (39.39 acres) more or less.

Prepared by: CMX, L.L.C.
Project No. 7038
April 28, 2004
DYSART VILLAGE

LEGAL DESCRIPTION

ATION OF THE SW ¼ OF SECTION 11, T2N, R1W OF THE G&SRB& M, MARICOPA COUNTY
RIBED AS FOLLOWS:

NING AT THE WEST ¼ CORNER OF SAID SECTION 11

CE: S 89° 05' 41" E ALONG THE EAST-WEST MID-SECTION LINE OF SAID SECTION 11 A
DISTANCE OF 1302.50 FEET TO THE NE CORNER OF THE NW ¼ OF THE SAID SECTION 11

CE: S 0° 00' 54" W A DISTANCE OF 985.53 FEET TO THE SE CORNER OF THE N ¼ OF
THE S ¼ OF THE NW ¼ OF THE SW ¼ OF SAID SECTION 11

CE: N 89° 02' 59" W A DISTANCE OF 1302.36 FEET TO THE SW CORNER OF THE N ¼
OF THE S ¼ OF THE NW ¼ OF THE SW ¼ OF SAID SECTION 11

CE: N 0° 00' 19" E ALONG THE WEST BOUNDARY OF SAID SECTION 11 A DISTANCE OF
984.50 FEET TO THE POINT OF BEGINNING.

Parcel 5

68744.
SITE INFO:

PROJECT NAME: DYSART CROSSINGS
PROJECT ADDRESS: NOT YET ASSIGNED
PARCEL NUMBER: #501-57-005-H

LEGAL DESCRIPTION:

THE EAST 300 FEET OF THE NORTH 464 FEET OF THAT PART OF THE NORTHEAST QUARTER OF SECTION TEN (10), TOWNSHIP TWO (2) NORTH, RANGE ONE (1) WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA BEGINNING AT THE NORTHEAST CORNER OF SAID SECTION 10;

THENCE SOUTH 0 DEGREES 01 MINUTES 45 SECONDS WEST ALONG THE EAST LINE OF SAID SECTION 10, A DISTANCE OF 708.00 FEET, TO A POINT FROM WHICH THE EAST QUARTER CORNER OF SAID SECTION 10 BEARS SOUTH 0 DEGREES 01 MINUTES 45 SECONDS WEST A DISTANCE OF 1,917.52 FEET; THE POINT OF BEGINNING.

THENCE NORTH 89 DEGREES 10 MINUTES 45 SECONDS WEST, A DISTANCE OF 905.18 FEET;

THENCE SOUTH 0 DEGREES 01 MINUTES 45 SECONDS WEST, A DISTANCE OF 441.93 FEET TO A POINT ON THE NORTH LINE OF RANCHOS DE LOMA UNIT ONE, AS RECORDED IN BOOK 105 OF MAPS, PAGE 39 OF MARICOPA COUNTY, RECORDS, SAID POINT BEING THE CENTERLINE OF 132ND AVENUE;

THENCE SOUTH 89 DEGREES 10 MINUTES 45 SECOND EAST, A DISTANCE OF 25 FEET TO A CORNER OF SAID RANCHOS DE LOMA UNIT ONE;

THENCE SOUTH 0 DEGREES 01 MINUTE 45 SECONDS WEST, A DISTANCE OF 205.60 FEET;

THENCE ALONG THE ARC OF A CURVE TO THE LEFT, SAID CURVE HAVING A CENTRAL ANGLE OF 89 DEGREES 03 MINUTES 55 SECONDS, A RADIUS OF 15.25 FEET, A DISTANCE OF 23.70 FEET;

THENCE SOUTH 89 DEGREES 02 MINUTES 10 SECONDS EAST, ALONG THE NORTH RIGHT-OF-WAY LINE OF OCOTILLO ROAD AS SHOWN ON THE PLAT OF SAID RANCHOS DE LOMA, A DISTANCE OF 865.19 FEET;

THENCE NORTH 0 DEGREES 01 MINUTES 45 SECONDS EAST PARALLEL TO AND 55.00 FEET WEST OF THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 10, A DISTANCE OF 664.72 FEET TO THE POINT OF BEGINNING.

Parcel 6
AFFIDAVIT OF PUBLICATION

THE ARIZONA REPUBLIC

STATE OF ARIZONA
COUNTY OF MARICOPA SS.

Tabitha Weaver, being first duly sworn, upon oath deposes and says: That she is a legal advertising representative of the Arizona Business Gazette, a newspaper of general circulation in the county of Maricopa, State of Arizona, published at Phoenix, Arizona, by Phoenix Newspapers Inc., which also publishes The Arizona Republic, and that the copy hereto attached is a true copy of the advertisement published in the said paper on the dates as indicated.

The Arizona Republic

October 27, 2012

Sworn to before me this 29th day of October A.D. 2012

MANUEL VARGAS
Notary Public - State of Arizona
MARICOPA COUNTY
My Commission Expires November 30, 2016

Notary Public
October 31, 2012

TO: Interested Parties for Water Quality

FROM: Julie Hoffman, Environmental Planning Program Manager

SUBJECT: PUBLIC HEARING ON THE DRAFT MAG 208 WATER QUALITY MANAGEMENT PLAN AMENDMENT FOR THE SERVICE AREA EXPANSION OF THE LITCHFIELD PARK SERVICE COMPANY DOING BUSINESS AS LIBERTY UTILITIES PALM VALLEY AND SARIVAL WATER RECLAMATION FACILITIES

Public Hearing
December 13, 2012 at 3:00 p.m.
MAG Office, Saguaro Room
302 North 1st Avenue, Second Floor
Phoenix, Arizona 85003

The Maricopa Association of Governments (MAG) will conduct a public hearing on the Draft MAG 208 Water Quality Management Plan Amendment for the Service Area Expansion of the Litchfield Park Service Company (LPSCo) doing business as Liberty Utilities Palm Valley and Sarival Water Reclamation Facilities. The purpose of the hearing is to receive public comment on the draft plan amendment.

The City of Glendale has supported the amendment that would allow subdivisions and facilities located within the Glendale Municipal Planning Area to be included in the service area for the LPSCo doing business as Liberty Utilities Palm Valley and Sarival Water Reclamation Facilities located in the Goodyear Municipal Planning Area. The facilities are identified in the current MAG 208 Plan with reserve capacity to accommodate the sewer service needs of these subdivisions and facilities.

For your information and convenience, a copy of the public hearing notice is enclosed. The draft document is available for public review at the MAG Offices from 8:00 a.m. to 5:00 p.m. Monday through Friday. Copies are also available for review at the Glendale Public Library, 5959 W. Brown Street; Mesa Public Library, 64 E. First Street; and Phoenix Central Public Library, 1221 N. Central Avenue. For further information or to submit written comments on the draft amendment prior to the hearing, please contact me at (602) 254-6300.
The Maricopa Association of Governments (MAG) will conduct a public hearing on the Draft MAG 208 Water Quality Management Plan Amendment for the Service Area Expansion of the Litchfield Park Service Company (LPSCo) doing business as Liberty Utilities Palm Valley and Sarival Water Reclamation Facilities. The purpose of the hearing is to receive public comment on the draft amendment.

The City of Glendale has supported the amendment that would allow subdivisions and facilities located within the Glendale Municipal Planning Area to be included in the service area for the LPSCo doing business as Liberty Utilities Palm Valley and Sarival Water Reclamation Facilities located in the Goodyear Municipal Planning Area. The facilities are identified in the current MAG 208 Plan with reserve capacity to accommodate the sewer service needs of these subdivisions and facilities.

Following consideration of comments received, it is anticipated that the MAG Water Quality Advisory Committee may make a recommendation to the MAG Management Committee. On January 16, 2013, the MAG Management Committee may make a recommendation to the MAG Regional Council. It is anticipated that the MAG Regional Council may take action on the draft plan amendment on January 30, 2013.

The draft document will be made available for public review at the MAG Office from 8:00 a.m. to 5:00 p.m., Monday through Friday. Copies will also be available for review at the Glendale Public Library, 5959 W. Brown Street; Mesa Public Library, 64 E. First Street; and Phoenix Central Public Library, 1221 N. Central Avenue. Public comments are welcome at the hearing, or may be submitted in writing by 3:00 p.m. on December 13, 2012, to MAG staff at the address below.

Contact Person: Julie Hoffman
302 North 1st Avenue, Suite 300
Phoenix, Arizona 85003
Fax: (602) 254-6490
jhoffman@azmag.gov
In the Matter of:

DRAFT MAG 208 WATER QUALITY MANAGEMENT PLAN AMENDMENT FOR THE SERVICE AREA EXPANSION OF THE LITCHFIELD PARK SERVICE COMPANY DOING BUSINESS AS LIBERTY UTILITIES PALM VALLEY AND SARIVAL WATER RECLAMATION FACILITIES

PUBLIC HEARING
Phoenix, Arizona
December 13, 2012
3:03 p.m.

PREPARED FOR:
MARICOPA ASSOC. OF GOVERNMENTS PUBLIC HEARING

REPORTED BY:
Debora Mitchell
Arizona CCR No. 50768
PUBLIC HEARING taken on December 13, 2012, commencing at 3:03 p.m. at the OFFICES OF MARICOPA ASSOCIATION OF GOVERNMENTS, 302 North 1st Avenue, Suite 200, Phoenix, Arizona, before Debora Mitchell, an Arizona Certified Reporter, in and for the County of Maricopa, State of Arizona.

COMMITTEE MEMBERS ATTENDING

Kathryn Sorensen, Mesa, Chair
Jerry Postema, Goodyear
Barbara Chappell, Avondale
Anupa Jain, Chandler
Mark Horn, Gilbert
Michael Weber, Glendale
Robin Bain for Peoria
Greg Homol, Queen Creek
Suzanne Grendahl, Scottsdale
David McNeil, Tempe
Kevin Chadwick, Maricopa County
Sherrie Logg for Michael Byrd, Salt River Pima-Maricopa Indian Community
Glenn Stark, Gila River Indian Community

COMMITTEE MEMBERS ATTENDING BY TELEPHONICALLY

Randy Gottler, Phoenix, Vice Chair
Dave Emon, El Mirage
Carole Klopatek, Fort McDowell Yavapai Nation
OTHERS PRESENT

Julie Hoffman, Maricopa Association of Governments
Lindy Bauer, Maricopa Association of Governments
Kara Johnson, Maricopa Association of Governments
Brian Hamrick, Liberty Utilities
Gerald Copeland, Gerald R. Copeland, P.E., R.L.S.
Steve Carlson, Liberty Utilities
Rob Bryant, Water Works Engineers
Matt Tsark, Strand Associates, Inc.
Javier Setovich, Peoria
Edwina Vogan, Arizona Department of Environmental Quality
Ed DePinto, Everest Holdings
(Chairwoman Sorensen called the meeting to order and entertained Agenda Items 1 through 3 off the record. The following proceedings were conducted on the record:)

PROCEDINGS

CHAIRWOMAN SORENSEN: I now open Item No. 4, the public hearing. So I'm going to open the public hearing on the draft plan amendment that we heard about in October. This is for the service area expansion for the Litchfield Park Service Company. And they did provide us with some of the updated material that we requested last time. Okay. So we're going to begin with a briefing.

MR. BRYANT: Okay. So as many of you may have remembered from our last meeting, there were some comments that we addressed, not only in the hard copies of the amendment that was sent out, but also in this presentation. So we're going to go back through the presentation, and I will highlight some of those changes and also just kind of rehash what we are proposing.

This is for an expansion of the service area for LPSCo, the Litchfield Park Service Company, by Liberty Utilities. Basically it's just a service area
expansion only. There is no treatment plant expansion as part of this project.

A brief agenda. We will do an overview and a map, letters of no objection, flow projections, infrastructure capacity, and construction/financing plan for the expansion.

Generally this is the overview, sponsored by Glendale. LPSCo and Glendale kind of worked jointly together to provide sewer service in this area. The proposed service area is at the very northern area of the current LPSCo service area, as you will see in the overview map.

There is sufficient capacity based on some recent sewer modeling. There were questions vetted by the City of Glendale and actually Goodyear.

And we have provided some comments to you, Jerry, so if there's any other comments or questions, we can talk about that.

This expansion service area has been conditionally approved by the Arizona Corporation Commission. It's waiting for a 208 approval for this process. The estimated flows are .099 million gallons per day.

This is the vicinity map. A couple of the corrections that were made was the El Mirage facility
was moved to the correct side of the street, and I believe that was about it regarding the vicinity map. But basically the existing service area is in light blue for LPSCo. And then the new service area is what is highlighted in red. We've got a three-mile radius around the expanse of that service area.

As was brought up in the previous meeting, there is an unsewered island that is being created. Through discussions with Maricopa County and the City of Glendale, it has been conditionally discussed that, should those unsewered parcels in that area want sewer service in the future, Glendale has basically said that if LPSCo wants to serve it they can, but we will make that determination at that point in time. So currently that island is not included in this expansion.

Letters of no objection were obtained from all the surrounding agencies within a three-mile radius.

Flow projections for the expansion, again, as I said, it is roughly one-tenth of a MGD, not too drastic of an increase for the flows in this area.

Infrastructure capacity, again to refresh, the hydraulic modeling was recently verified that we are still under .75 d/D for the peak flow conditions in the sanitary sewer collection system. And the Palm Valley
WRF recently is going under — currently going under expansion to 5.1 MGD, and that APP has been signed and dated April 13 of this year.

The construction, some of the facilities are in place now and others are still pending. Basically they will be constructed by the developers at the time that their facilities come online. There will be plans to be reviewed and inspected by LPSCo, and then at that point in time, once the facilities are in the ground, they will be turned over to LPSCo for O and M.

Pretty short and sweet. Are there any discussions or questions?

MS. SORENSEN: Are there any questions from the committee? No. Okay.

Have we received any cards for public comment?

No.

So we have been requested to consider this for approval.

Oh, I'm sorry, I have to close the public proceedings. So I would like to go ahead and close the public hearing at this time. And would the court reporter please end the transcript.

(Conclusion of Public Proceedings at 3:12 p.m.)
STATE OF ARIZONA  )
COUNTY OF MARICOPA  )  ss.

BE IT KNOWN that the foregoing transcript was taken before me, Debora Mitchell, a Certified Court Reporter, in and for the County of Maricopa, State of Arizona; that the foregoing proceedings were taken down by me using the Voice Writing method and translated into text via speech recognition under my direction; and that the foregoing typewritten pages are a full, true, and accurate transcript of all proceedings, all done to the best of my ability.

I FURTHER CERTIFY that I am in no way related to any of the parties hereto, nor am I in any way interested in the outcome hereof.

DATED at Phoenix, Arizona, this 18th day of December, 2012.

Debora Mitchell - Digital Signature
AZ Certified Reporter No. 50768