

MINUTES OF THE  
MARICOPA ASSOCIATION OF GOVERNMENTS  
WATER QUALITY ADVISORY COMMITTEE MEETING

Wednesday, May 21, 2014  
MAG Office Building  
Phoenix, Arizona

MEMBERS ATTENDING

Randy Gottler, Phoenix, Chair	David McNeil, Tempe
* Barbara Chappell, Avondale, Vice Chair	Dale Bodiya for Kevin Chadwick, Maricopa County
* Arnold Coronado, Buckeye	* Pinnacle West Capital
* Anupa Jain, Chandler	# Jim Kudlinski, Salt River Project
* Larry Dobrosky, El Mirage	* Summer Waters, University of Arizona Cooperative Extension
Mark Horn, Gilbert	* Michael Byrd, Salt River Pima-Maricopa Indian Community
Javier Setovich, Glendale	Carole Coe Klopatek, Fort McDowell Yavapai Nation
Mark Seamans, Goodyear	Elisabeth Kahn for Glenn Stark, Gila River Indian Community
Carlos Padilla for Daniel Cleavenger, Mesa	
Michael Weber for Peoria	
* Greg Homol, Queen Creek	
Terry Lowe, Surprise	
Suzanne Grendahl, Scottsdale	

\*Those members neither present nor represented by proxy.

#Attended by telephone conference call.

OTHERS PRESENT

Julie Hoffman, Maricopa Association of Governments	Brian Hamrick, Liberty Utilities
Kara Johnson, Maricopa Association of Governments	Jared Carr, Water Works Engineers
Frank Metzler, EPCOR Water	Mike Worlton, EPCOR Water
Edwina Vogan, Arizona Department of Environmental	Bhaskar Kolluri, Liberty Utilities
	Haley Westra, Ottmar & Associates

1. Call to Order

A meeting of the MAG Water Quality Advisory Committee (WQAC) was conducted on Wednesday, May 21, 2014. Randy Gottler, City of Phoenix, Chair, called the meeting to order at approximately 3:30 p.m. Jim Kudlinski, Salt River Project, attended the meeting via telephone conference call.

2. Call to the Audience

Chair Gottler provided an opportunity for members of the public to address the Committee on items not scheduled on the agenda that fall under the jurisdiction of MAG or items on the agenda for discussion, but not for action. According to the MAG public comment process, members of the audience who wish to speak are requested to fill out comment cards, which are available on the tables adjacent to the doorways inside the meeting room. Citizens are asked not to exceed a three minute time period for their comments. Chair Gottler noted that no public comment cards had been received.

3. Approval of the April 1, 2014 Meeting Minutes

The Committee reviewed the minutes from the April 1, 2014 meeting. Carlos Padilla, City of Mesa, moved and David McNeil, City of Tempe, seconded, and the motion to approve the April 1, 2014 meeting minutes carried unanimously.

4. Public Hearing - Draft MAG 208 Water Quality Management Plan Point Source Update

Chair Gottler opened the Public Hearing on the Draft MAG 208 Water Quality Management Plan Point Source Update. He indicated the hearing would begin with a presentation.

Julie Hoffman, Maricopa Association of Governments, provided an overview of the Draft MAG 208 Water Quality Management Plan Point Source Update. She stated that MAG has been in the process of revising the Point Source Section of the MAG 208 Water Quality Management Plan and on April 1, 2014, the MAG Water Quality Advisory Committee authorized a public hearing on the Draft MAG 208 Water Quality Management Plan Point Source Update.

Ms. Hoffman provided background information on the MAG 208 Plan. In 1974, MAG was designated by the Governor as the Regional Water Quality Management Planning Agency for Maricopa County, in accordance with Section 208 of the Clean Water Act. The initial MAG 208 Water Quality Management Plan was prepared in 1979, with revisions in 1982, 1993, and 2002. The 208 Plan consists of two major elements: the Point Source element and the Nonpoint Source element. Ms. Hoffman stated that for the Point Source element, MAG member agencies provide their plans for wastewater treatment over a 20 year planning period. She indicated that the community descriptions in the MAG 208 Plan include: the planning area; population and wastewater flow projections; existing wastewater collection and treatment systems; wastewater disposal and/or reuse or recharge; sludge management; and planned improvements. Ms. Hoffman noted that this is the element that has been updated. The Nonpoint Source element primarily includes a description of regional surface and groundwater quality, and the federal and state program activities designed to control Nonpoint Source pollution.

Ms. Hoffman discussed that the Point Source section describes the preferred wastewater treatment configuration for the region. She noted that MAG 208 Plan is the key guiding document used by the Arizona Department of Environmental Quality (ADEQ) and Maricopa County in granting permits and approvals. Consistency with the MAG 208 Plan is required for the Aquifer Protection Permit and Arizona Pollutant Discharge Elimination System Permit issued by ADEQ. Additionally, consistency with the MAG 208 Plan is required for the Approval to Construct issued by Maricopa County Environmental Services Department. Therefore, it is important that the document reflect the wastewater needs of jurisdictions over the 20 year planning period. Ms. Hoffman stated that MAG staff has worked closely with the MAG member agencies to ensure the descriptions reflect community needs for the 20 year planning horizon.

Ms. Hoffman mentioned that the Point Source Update incorporates the 22 MAG 208 Amendments and six Small Plant Review and Approvals that have been approved by the MAG Regional Council since the 208 Plan was last updated in 2002. Updated socioeconomic projections and Municipal Planning Area boundaries were also included into the Point Source Update. Ms. Hoffman commented that the region has experienced tremendous growth since 2002. Despite the recent recession, she noted that growth is expected to continue in the region. The Maricopa County population for 2013 was approximately 3.9 million. The resident population is projected to exceed six million by 2040. Ms. Hoffman indicated that the socioeconomic projections for resident

population and Municipal Planning Area boundaries approved by the MAG Regional Council in June 2013 have been incorporated into the Point Source Update. In addition, since wastewater capacity is needed to serve nonresident populations, these projections have also been included.

Ms. Hoffman indicated that draft descriptions were sent to the MAG member agencies for their review. She stated that the MAG member agencies updated their sections to reflect their 20 year planning needs and, in some cases, ultimate buildout. The Draft Point Source Update was sent to the MAG member agencies in March and the Committee reviewed the document and authorized the public hearing on April 1, 2014. Ms. Hoffman stated that some comments have been received from MAG member agencies since the Committee met to authorize the public hearing on the Point Source Update. The changes received were not significant and a majority of the changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period. Ms. Hoffman noted that all comments received since April 1, 2014 are addressed in the response to comments provided to the Committee.

Ms. Hoffman provided highlights of the Point Source Update. With the changes requested by the MAG member agencies, there are 122 existing and future facilities identified in the Point Source Update. Ms. Hoffman commented that previously, 123 facilities were reported, however, one comment received following the April 1<sup>st</sup> Committee meeting requested the removal of a facility that has been decommissioned. She added that the facility was identified in the 2002 MAG 208 Plan to be decommissioned once the sewer connection to the new facility was operational. Ms. Hoffman reported that 35 new facilities were added to the MAG 208 Plan through 208 Amendments and Small Plant Review and Approvals since 2002. In addition, two future facilities were added as part of this update: Pecos Water Reclamation Facility (WRF) in the City of Goodyear and the Special Planning Area (SPA) 6 Water Reclamation Facility in Surprise. After review of the community descriptions, the MAG member agencies requested the removal of nearly 20 wastewater treatment plants from the MAG 208 Plan. Ms. Hoffman noted that capacities were also adjusted based on projected growth and conservation efforts.

Ms. Hoffman presented a map that illustrates the wastewater treatment plants identified in the MAG 208 Plan Point Source Update. She noted that most future facilities are identified in the West Valley and that is where a majority of amendments occurred.

Ms. Hoffman provided the schedule for the Draft MAG 208 Water Quality Management Plan Point Source Update. On April 1, 2014, the Committee authorized the public hearing. Ms. Hoffman stated that today is the public hearing. Following the public hearing, the Committee will be requested to make a recommendation to the MAG Management Committee. The MAG Management Committee may then make a recommendation to the MAG Regional Council on June 11, 2014. The MAG Regional Council may take action on the MAG 208 Water Quality Management Plan Point Source Update on June 25, 2014. The State Water Quality Management Working Group may make a recommendation to ADEQ on August 12, 2014. Following that recommendation, MAG would submit the Point Source Update to ADEQ on August 14, 2014. ADEQ would review and certify that the update is consistent with the Arizona Water Quality Management Plan and submit the Draft MAG 208 Water Quality Management Plan Point Source Update to EPA for approval.

Chair Gottler provided an opportunity for the Committee or members of the public to ask questions while the public hearing is open. He stated that members of the public wishing to speak should fill out a public hearing comment card and submit it to MAG staff. Hearing none, Chair Gottler closed the public hearing and requested that the Court Reporter end the transcription.

5. Draft MAG 208 Water Quality Management Plan Point Source Update

Ms. Hoffman discussed comments received on the Draft MAG 208 Water Quality Management Plan Point Source Update following the April 1, 2014 Committee meeting. A copy of the comments and the response to comments were provided to the Committee. Ms. Hoffman stated that a majority of the comments were made to the document prior to the 30 day public review period.

Ms. Hoffman provided an overview of the responses to comments received. She summarized comments from the City of El Mirage received via email from Larry Dobrosky dated April 3, 2014. The commented stated that on Page 2-59 change B to B+. The requested change was made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period. The next comment received stated that Figure 2.8 is slightly off and that a few of the Surprise sewer lines are shown in El Mirage. The figures in the Draft MAG 208 Water Quality Management Plan Point Source Update were revised to reflect that there are no Surprise sewer lines located in the El Mirage Municipal Planning Area. The sewer lines were included in the City of Surprise. The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman summarized comments from the City of El Mirage via email from Jamie McCullough dated April 4, 2014. The first comment inquired if the map provided by El Mirage that included the force mains and gravity mains in the City in PDF format could be used. The figures included in Chapter Two of the Draft Point Source Update reflect the desired wastewater treatment configuration for the communities, including the existing and future interceptors. For some jurisdictions, many of the sewer lines are included. However, for other communities, especially the larger municipalities, only the larger lines are shown on the figures. Including all of the sewer lines may make the figures difficult to read. It was requested that a map be provided to MAG in a shapefile format to be included in the document. The City of El Mirage provided a map in shapefile and PDF formats illustrating the main wastewater lines 10 inches and greater in El Mirage. In addition, the map included the existing lift station in the City. The figures in the Draft Point Source Update that include the El Mirage Municipal Planning Area were revised to reflect the City's wastewater lines 10 inches and greater and include its existing lift station, as shown on the map provided by El Mirage. The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman summarized comments from the City of Mesa via email from Carlos Padilla dated April 4, 2014. The first comment stated that the map does not go south far enough to show the Greenfield Water Reclamation Plant. It is located on the west side of Greenfield Road between Germann and Queen Creek Roads (4400 S. Greenfield Rd, Gilbert). Please make this correction. Figure 2.22, Mesa Municipal Planning Area, was revised to show the location of the Greenfield Water Reclamation Plant. The requested change was made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period. The next comment stated that on Page 2-151, first paragraph, the second sentence should be changed to read, "In 2012, Mesa completed a Sewer Master Plan Update." The requested change was made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman detailed the next comment provided by the City of Mesa: on Page 2-151, first paragraph, change the fifth sentence to read, "The Planning Area includes all of the incorporated City of Mesa (including Williams Gateway Airport) and some unincorporated areas within Maricopa County, corresponding to Regional Analysis Zones (RAZ) 289, 290, 291, 292, 293, 294, 295, 298, 299, 300, 309, 320, 321, and 322." The requested change was made to the Draft MAG 208 Water

Quality Management Plan Point Source Update prior to the 30 day public review period. The next comment requests that the third paragraph, second sentence, on Page 2-151, be changed to read, "Table 2.29 presents the 2010 through 2040 population for the City of Mesa based on the 2013 MAG population projections and extensive land utilization based flow projections." The comment also requested that a third sentence be added to read, "The equivalent per capita flow varies depending on the ratio of commercial/industrial vs. residential developments within the City." The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman indicated that the next comment requested that Table 2.29, Mesa Population and Flow Projections, on Page 2-151, be revised to reflect changes provided by the City of Mesa. The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period. Ms. Hoffman stated that another comment requested that on Page 2-151, fourth paragraph, the first sentence be changed to read, "The wastewater collection serving the City of Mesa Planning Area consists of more than 1,600 miles of collection and interceptor sewers, 15 lift stations, and 21 Odor Control Stations." The requested change was made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman mentioned the Mesa comment that requested Page 2-155, first paragraph, first and second sentences, be changed to read, "The Baseline Road, Southern Avenue, and 8<sup>th</sup> Street Interceptors convey wastewater from Mesa (through Tempe) to the Salt River Outfall (SRO) and the Southern Avenue Interceptor (SAI) to the SROG 91<sup>st</sup> Avenue Wastewater Treatment Plant WWTP. The City of Mesa currently owns capacities ranging from 19.6 to 36.6 mgd in the SRO and 12 to 22 mgd in the SAI." The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period. The next comment stated that on Page 2-155, second paragraph, change the second sentence to read, "Flow from the CMI can also be diverted to the SRO via the 8<sup>th</sup> Street Interceptor and/or the SAI for treatment at the 91<sup>st</sup> Avenue WWTP." The requested change was made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman reported that Mesa also commented that Page 2-155, fifth paragraph, third sentence should be changed to read, "Mesa's current ownership capacity at this facility is 4.0 mgd, with a projected build-out capacity of 26.0 mgd, which includes a 6.0 mgd pump back from SROG." The requested change was made to the Draft MAG 208 Water Quality Management Plan Point Source Update. In addition, since the Greenfield Water Reclamation Plant is located in the Town of Gilbert, a description of the facility is also included in the Gilbert section of the update. On Page 2-148, sixth paragraph, the third sentence was revised to read, "Ultimately, the plant will be expanded to treat approximately 50 mgd (Gilbert - 16 mgd, Mesa - 26 mgd, Queen Creek - 8 mgd)." The change to Page 2-148 was reviewed by the Town of Gilbert. Table ES.1, Point Source Plan Summary, on Page ES-6 has also been revised to reflect that the ultimate capacity for the Greenfield Water Reclamation Plant has changed from 52 mgd to 50 mgd since the Mesa projected build-out capacity has decreased from 28.0 mgd to 26.0 mgd. The changes were made to the Draft Point Source Update prior to the 30 day public review period.

The next comment from Mesa requested that on Page 2-155, under Northwest Water Reclamation Plant, the eighth bullet should be revised to read, "Chlorine Disinfection." Additionally, on Page 2-156, revise the first bullet to read, "Dechlorination." Ms. Hoffman stated that the requested changes were made to the Draft Point Source Update prior to the 30 day public review period. Mesa commented that on Page 2-156, first paragraph, a second sentence should be added to read, "The

plant produces Class A+ Effluent and Class B Sludge.” The requested change was made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman discussed the next comment from the City of Mesa. The comment stated that on Page 2-156, under Southeast Water Reclamation Plant, the seventh bullet “UV Disinfection” should be deleted, the eighth bullet should be revised to “Chlorine Disinfection” and a new bullet should be added for “Dechlorination.” In addition, a paragraph following the bullets should read, “The plant produces Class A+ Effluent. The plant does not have a solids treatment, and primary/secondary sludge is pumped to GWRP for solids treatment.” The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman indicated that the City of Mesa provided the following comment: on Page 2-156, under Greenfield Water Reclamation Plant, revise the first bullet to read, “Capacity: 16 mgd total, 4 mgd Mesa (Build-out: 50 mgd total, 26 mgd Mesa, which includes a 6 mgd pumpback).” Also, revise the ninth bullet to read, “Chlorine Disinfection.” Add a paragraph following the bullets to read, “Biosolids treatment consists of single stage anaerobic digesters with primary and secondary sludge thickening and sludge dewatering. The plant produces Class A+ Effluent and Class B Sludge.” Ms. Hoffman stated that the requested changes were made to Page 2-156 in the Draft MAG 208 Point Source Update. In addition, since the Greenfield Water Reclamation Plant is located in the Town of Gilbert, a description of the facility is also included in the Gilbert Section of the update. On Page 2-148, sixth paragraph, the third sentence was revised to read, “Ultimately, the plant will be expanded to treat approximately 50 mgd (Gilbert - 16 mgd, Mesa - 26 mgd, Queen Creek - 8 mgd).” The change to Page 2-148 was reviewed by the Town of Gilbert. Table ES.1, Point Source Plan Summary, on Page ES-6 has also been revised to reflect that the ultimate capacity for the Greenfield Water Reclamation Plant has changed from 52 mgd to 50 mgd since the Mesa projected build-out capacity has decreased from 28.0 mgd to 26.0 mgd. The changes were made to the Draft Point Source Update prior to the 30 day public review period.

Ms. Hoffman stated that the next comment requested by Mesa included a change on Page 2-156, first paragraph, first sentence under Future Wastewater System Development to read, “The City of Mesa is implementing system improvements recommended in the 2012 Wastewater Master Plan Update.” The requested change was made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period. The next comment stated that on Page 2-157, the first paragraph, first and second sentences should be changed to read, “The Brown Road Relief Sewer Project (Phase 1 is complete), will enable the City to divert approximately 3 mgd of flow to the NWWRP that is now sent to the 91<sup>st</sup> Avenue WWTP. The Greenfield Road Pumpback Station, currently programmed for 2027, will allow Mesa to send approximately 6 mgd of flow to the GWRP for treatment that is currently being sent to the 91<sup>st</sup> Avenue plant.” Ms. Hoffman stated that the requested changes were made to the Draft Point Source Update prior to the 30 day public review period.

Ms. Hoffman indicated that the next comment received stated that on Page 2-157, second paragraph, the first sentence should be changed to read, “Based on the 2012 Wastewater Master Plan Update and current population projections, future wastewater treatment capacity will be provided by the NWWRP, SEWRP, GWRP, and the SROG 91<sup>st</sup> Avenue WWTP.” The requested change was made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman reported that the next Mesa comment requested that Table 2.30, Mesa Wastewater Flow Allocation Projections, on Page 2-157, be revised to reflect the flow allocation projections provided by the City of Mesa. The requested changes were made to Table 2.30, Mesa Wastewater Flow Allocation Projections, on Page 2-157 of the Draft MAG 208 Water Quality Management Plan Point Source Update. In addition, Table 2.34, Projected SROG Service Areas Annual Average Flow, mgd, on Pages 2-171 through 2-172 was updated to reflect the revised wastewater flow allocations for the City of Mesa. The changes were made to the Draft Point Source Update prior to the 30 day public review period.

Ms. Hoffman indicated that the City of Mesa also provided comment that requested the deletion of the fifth sentence, found on Page 2-157, third paragraph, that states, “Mesa is currently contemplating this additional capacity.” Mesa also requested that the seventh sentence be changed to read, “The recharge basins near the plant site are not used on a regular basis, due to high ground water levels.” Ms. Hoffman stated that the requested changes were made to the Draft Point Source Update prior to the 30 day public review period.

Ms. Hoffman stated that the next comment requested that the fourth paragraph, second sentence on Page 2-157 be deleted, which stated, “Also, a small portion of the reclaimed water from the SEWRP is directly delivered to Leisure World and the Superstition Springs Golf Course where it is used for Open Access Irrigation and Fire Protection.” The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period. Ms. Hoffman indicated that Mesa also requested that the Summary of Proposed Wastewater System Improvements, on Page 2-158, be revised to reflect the costs provided by the City of Mesa. The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

The next comment requested that on Page 2-158, under Contract Customer Service, the third sentence be deleted that stated, “The City currently plans on terminating this agreement by 2018.” The requested change was made to the Draft Point Source Update prior to the 30 day public review period.

Ms. Hoffman outlined the next Mesa comment: on Page 2-148, sixth paragraph, change the second and third sentences to read, “The next phase of plant expansion is currently scheduled to be complete in 2018. Ultimately, the plant will be expanded to treat approximately 50 mgd (Gilbert - 16 mgd, Mesa - 26 mgd, Queen Creek - 8 mgd).” The Greenfield Water Reclamation Plant is located in the Town of Gilbert and a description of the facility and flow allocations are included in the Gilbert section of the Draft Point Source Update. The requested changes have been made to Page 2-148 to revise the ultimate capacity for the Greenfield Plant from 52 mgd to 50 mgd due to Mesa’s projected build-out capacity decreasing from 28 mgd to 26 mgd. These changes are consistent with the revisions made to the Mesa section regarding the capacity of the Greenfield Plant. The schedule for the next phase of expansion was also revised from 2017 to 2018. The changes to Page 2-148 were reviewed by the Town of Gilbert. Table ES.1, Point Source Plan Summary, on Page ES-6, has also been revised to reflect that the ultimate capacity for the Greenfield Water Reclamation Plant has changed from 52 mgd to 50 mgd since the Mesa projected build-out capacity has decreased from 28 mgd to 26 mgd. The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman summarized comments from the City of Buckeye via email from Richard Cohen dated April 10, 2014. The first comment requested that on Page 2-25, in the fifth paragraph, change the first sentence to read, “The Central Buckeye WWTP currently discharges effluent into the Buckeye

Water Conservation Drainage Ditch (BID) under an Arizona Pollutant Discharge Elimination System (AZPDES) permit.” The requested change was made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman indicated that the next comment stated that on Page 2-25, fifth paragraph, the third and fourth sentences should be changed to read, “The facility does not currently recharge. Direct reuse is to the Earl Edgar Park, with other possible sites dependant upon the construction of the facility reuse infrastructure to serve potential customers.” The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period. Ms. Hoffman reviewed the next comment provided by the City of Buckeye: on Page 2-25, sixth paragraph, change the fifth sentence to read, “Effluent is currently reused for irrigation on three golf courses, public access parks, turf facilities at schools and irrigation on rights-of-way landscaping.” The requested change was made to the Draft MAG 208 Point Source Update prior to the 30 day public review period.

The final comment provided by the City of Buckeye requested that Page 2-26, second paragraph, sixth and seventh sentences be changed to read, “An effluent line also conveys flows to the Buckeye Canal. Effluent in excess of reuse demand is discharged to the Buckeye and/or Roosevelt Canals under AZPDES permits.” The requested change was made to the Draft MAG 208 Point Source Update prior to the 30 day public review period.

Ms. Hoffman summarized comments from the Fort McDowell Yavapai Nation via email from Mark Frank dated April 14, 2014. The first comment stated that the current (2014) population of the Fort McDowell Yavapai Nation is 1,072. Ms. Hoffman stated that as discussed during an April 14, 2014 phone call with Mr. Frank, the Draft MAG 208 Water Quality Management Plan Point Source Update includes two types of population projections: resident and nonresident. Information on the projections is included on Page 2-5 and in Appendix A of the Draft Point Source Update. On June 19, 2013, the MAG Regional Council approved the *MAG Socioeconomic Projections of Population, Housing and Employment by Municipal Planning Area and Regional Analysis Zone, June 2013*. These resident population projections, which were prepared in close collaboration with member agency staff, used the April 1, 2010 Census as the base and projected for July 1<sup>st</sup> of 2010, 2020, 2030, and 2040. The seasonal and transient (nonresident) projections are based on the MAG population projections approved by the MAG Regional Council in June 2013. Seasonal includes people who are in the local area for up to six months. Transient population includes people who are in the local area for two weeks or less. Since wastewater is needed to serve the nonresident population, these projections have also been included. It was agreed that no changes would be made to the population identified for the Fort McDowell Yavapai Nation in the Draft Point Source Update.

Ms. Hoffman stated that the next comment from the Fort McDowell Yavapai Nation requested that the Existing Wastewater Collection and Treatment section of the Draft MAG 208 Water Quality Management Plan Point Source Update be modified to read, “The Fort McDowell Yavapai Nation currently operates a 238,000 gallons per day wastewater treatment plant on a site south of the Beeline Highway and west of Fort McDowell Road. A gravity sewer system has been constructed to serve commercial, governmental, and residential users. The WWTP (completed in 2003) is a sequential batch reactor with effluent filters and UV disinfection. Effluent is reused on a limited basis to irrigate two eighteen hole golf courses with the remainder evaporated and recharged. Solids are aerobically digested, dewatered, and sent to a landfill for disposal.” The requested changes were made to the Draft MAG 208 Water Quality Management Plan Point Source Update prior to the 30 day public review period.

Ms. Hoffman indicated that Fort McDowell Yavapai Nation requested that the Future Wastewater System Development section be updated to read, “The WWTP has been constructed for modular expansion as flows increase. The collection system will be completed as funding becomes available.” The requested changes were made to the Draft Point Source Update prior to the 30 day public review period.

Ms. Hoffman noted that the following comments were provided by the Fort McDowell Yavapai Nation to MAG via a phone call with Mark Frank on April 14, 2014. The first comment requested the deletion of the Summary of Proposed Improvements from the Fort McDowell Yavapai Nation section. The requested change was made to the Draft MAG 208 Point Source Update prior to the 30 day public review period.

Ms. Hoffman indicated that the next comment requested that the Fort McDowell Casino Wastewater Treatment Plant (WWTP) be deleted from Figure 2.29, Fort McDowell Yavapai Nation Municipal Planning Area, and that the figure be updated to reflect that the future Fort McDowell WWTP and reuse/recharge site south of the Beeline Highway are now existing. The requested changes were made to Figure 2.29 in the Draft MAG 208 Water Quality Management Plan Point Source Update. In addition, Table ES.1, Point Source Summary, on Page ES-6 was updated to delete the Casino WWTP and reflect the current capacity of the Fort McDowell WWTP. The changes were made to the Draft Point Source Update prior to the 30 day public review period.

Ms. Hoffman discussed a comment from the Town of Gilbert via email from Kenneth Morgan dated April 15, 2014. The comment indicated that on Page 2-143, the fourth paragraph, second sentence should be modified to read, “The current system serves a majority of the area north of Queen Creek Road and west of Power Road.” The requested change was made to the Draft MAG 208 Point Source Update prior to the 30 day public review period.

Ms. Hoffman summarized comments from the City of Phoenix via email from Randy Gottler dated May 5, 2014. She noted that the requested changes from Phoenix were received following the document being made available for public review; however, the changes are insignificant. The first City of Phoenix comment requested that the fifth paragraph on Page 2-7 be changed to read, “The 91<sup>st</sup> Avenue Wastewater Treatment Plant Unified Plant Expansion Phase 1 (UP01) was completed in 2008 and commissioned in 2009. The total treatment plant capacity was expanded to 205 million gallons per day (mgd), and the Phoenix purchased capacity was expanded to 112.9 mgd. The Unified Plant Expansion Phase 2 (UP05) was started in 2009 and completed in 2010. Completion of the Unified Plant Expansion Phase 2 (UP05) improvement elements expanded the total treatment plant capacity to 230 mgd, and the Phoenix purchased capacity was expanded to 134.8 mgd.” Ms. Hoffman added that this change reflects that Phase 2 is now complete. The requested change will be incorporated into the Draft MAG 208 Water Quality Management Plan Point Source Update.

The next commented requested that on Page 2-173, second paragraph, change the second sentence to read, “The Palo Verde Nuclear Generating Station (PVNGS) has contract options for 80,000 acre-feet per year of effluent under an agreement that ends in 2050.” The requested change will be incorporated into the Draft MAG 208 Water Quality Management Plan Point Source Update. Ms. Hoffman indicated the final comment requested that on Page 2-173, second paragraph, add, “Effluent not sent to PVNGS is sent to the Tres Rios Flow Regulating Wetlands. Discharge from the Tres Rios Flow Regulating Wetlands is either to the Salt River or the Tres Rios Overbank Wetlands and then to the Salt River.” The requested changes will be incorporated into the Draft MAG 208 Water Quality Management Plan Point Source Update. Ms. Hoffman noted that the additional information requested to be included on Page 2-173, in the Multi-City SROG Summary section, regarding

effluent disposal at the 91<sup>st</sup> Avenue WWTP, is consistent with the effluent disposal description provided in the Phoenix section for the facility.

Chair Gottler indicated that the Committee is requested to recommend approval of the Draft MAG 208 Water Quality Management Plan Point Source Update. Michael Weber, City of Peoria, moved and Javier Setovich, City of Glendale, seconded, and the motion to recommend approval of the Draft MAG 208 Water Quality Management Plan Point Source Update carried unanimously.

6. Draft MAG 208 Water Quality Management Plan Amendment for the West Valley Regional Water Reclamation Facility

Frank Metzler, EPCOR Water, presented the Draft MAG 208 Water Quality Management Plan Amendment for the West Valley Regional Water Reclamation Facility (WVRWRF). He stated that he is the project manager from EPCOR Water overseeing the planning, engineering, and design of the West Valley Regional Water Reclamation Facility. The rights for the WVRWRF area were acquired through a series of agreements that began in August 2013 between the City of Glendale and landowners. Mr. Metzler thanked Mr. Setovich; Dale Bodiya, Maricopa County; and Ms. Hoffman for their assistance with the Draft MAG 208 Water Quality Management Plan Amendment. Additionally, he thanked Water Works Engineers for the preparation of the 208 amendment and the Wastewater Master Plan that accompanies the amendment.

Mr. Metzler provided background information on the West Valley Regional Water Reclamation Facility. He reviewed that in August 2013, EPCOR Water acquired the rights to the area through agreements with the City of Glendale and landowners within the Loop 303 Project Area. Mr. Metzler indicated that the agreements were purchased from Global Water, who had initially developed the agreements. The Loop 303 Project Area, which will be the service area for the WVRWRF, is approximately 17 square miles. The area is bound by Peoria Avenue on the north, Camelback Road on the south, Luke Air Force Base and an irregular boundary on the east, and Citrus Road on the west. Mr. Metzler noted that the EPCOR White Tanks Water Treatment Plant water service area overlaps the WVRWRF service area.

Mr. Metzler discussed the project area. He stated that the area slopes from the northwest to the southeast which determined the southeast location of the facility. Approximately 20 miles of sewer main will be constructed at buildout. Mr. Metzler commented that the planning area is bisected by the Loop 303 and Northern Parkway. He reported that EPCOR Water has an existing facility, the Russell Ranch Water Reclamation Facility, in the area.

Mr. Metzler stated that EPCOR Water will be the regulated water, wastewater, and recycled water service provider within the proposed service area. He noted that a concurrent application has been submitted to the Arizona Corporation Commission to expand the existing Agua Fria Wastewater Certificate of Convenience and Necessity (CC&N). Mr. Metzler reviewed that agreements have been signed with 19 landowners representing approximately 3,600 acres of land in the 17 square mile planning area. He indicated that the existing Russell Ranch WRF will be retired after connection to WVRWRF is established.

Mr. Metzler presented the projected population and wastewater flows. He stated that the Loop 303 Landowner Group commissioned a study in which the findings are consistent with the Glendale Master Plan. Mr. Metzler noted that the populations projections were based on the Conceptual Land Use Plan prepared by the Loop 303 Landowner Group. The projections for the 20 year planning

horizon, approximately 2036, are as follows: population of 15,826; dwelling units of 4,946; and 4.6 million gallons per day wastewater flow.

Mr. Metzler described the 2045 projected wastewater flow by land use for the service area. The percent of average daily flow for the year 2045 are as follows: 25 percent residential; 36 percent industrial; 24 percent commercial; 10 percent mixed; and 5 percent categorized as other. Mr. Metzler commented that residential flows will generally be farther from Luke Air Force Base, while industrial flows will be closer to Luke Air Force Base due to the noise impacts.

Mr. Metzler provided a detailed overview of the WVRWRF. The initial capacity is anticipated to be less than 0.5 mgd. The first phase of the facility will be capable of handling smaller wastewater flows. Additionally, the facility will be scaled to expand as necessary with future flows. Mr. Metzler reported that the land for the facility is 40 acres currently consisting of agricultural production. He noted that the same landowner owns the land to the north, west, and south of the site. He indicated that a racetrack lies to the east of the WVRWRF. Additional details for the facility include: Class A+ effluent; on-site recharge as the primary disposal method; reuse for existing and future customers; potential option for a Groundwater Savings Facility or sale to the Central Arizona Groundwater Replenishment District (CAGR) for recharge; and dewatered biosolids will be delivered to the landfill. Mr. Metzler discussed concerns expressed regarding a potential AZPDES discharge to Bullard Wash. He indicated that the neighboring communities worked in coordination to find a solution. He noted that the downstream neighbors currently have no objections to the amendment. He stated that EPCOR Water will continue to work on the specifics of the discharge with the communities. An existing Maricopa County Flood Control District stormwater channel is another option.

Mr. Metzler discussed the technology for the WVRWRF. He stated that the facility would have the following technologies: influent pump station; screen and grit removal; bioreactor with nitrogen removal; clarification; tertiary filtration; chlorination/dechlorination; sludge holding and dewatering; and on-site recharge basins with avian controls. The facility will also enclose nuisance causing components in response to a comment by Luke Air Force Base to minimize bird strikes due to flight operations at the Base.

Mr. Metzler presented the site layout for the WVRWRF. He stated that development will begin on the east side and develop to the west side as flows increase. Mr. Metzler indicated that since the 40 acre property is square in shape, there are no concerns about the 350 feet property setback line. He provided the conceptual schematic that included the influent pump station down to the clarifiers. He commented that as flows increase, additions will be made to the western portion of the facility.

Mr. Metzler stated that based on projections of 8 mgd buildout within approximately 30 years, it is estimated that the project would cost \$125 million in current dollars. He discussed the WVRWRF design status. Mr. Metzler reported that a competitive request for proposals was completed in which three design firms have been chosen: Water Works Engineers will be completing the design of the WVRWRF; another firm will be designing the sewer line connection between the Russell Ranch WRF and the West Valley Regional WRF; and a third firm will design potential short or long term capacity improvements to the Russell Ranch WRF depending on situations that may develop in the area to be served. Mr. Metzler stated that EPCOR Water anticipates proceeding with design work with all three contracts by May 23, 2014. Additionally, it is anticipated that complete design would be completed by January 2015, complete permitting in early 2015, and construction completion in early 2016. Mr. Metzler presented the required permitting and approvals for the West Valley Regional WRF.

Mr. Metzler discussed financing for the West Valley Regional WRF. He stated that an agreement has been established with landowners that specifies contributions in aid of construction and advances in aid of construction. Mr. Metzler stated that funding milestones are defined in executed main extension agreements. The 40 acre WRF will be conveyed to EPCOR Water in one or two parts from the Loop 303 Landowner Group. Mr. Metzler noted that EPCOR Water can infuse equity into WVRWRF if necessary.

Mr. Metzler reported a potential timing issue that may arise with the development of the WVRWRF. Elliot Homes will be developing a project called Granite Vista that will ultimately be approximately 450 acres and 1,250 homes. The potential exists that the first phase of approximately 390 homes may be ready to provide wastewater flows before the West Valley Regional WRF is online. Mr. Metzler noted that potential design improvements to the Russell Ranch WRF to accept the flows from Phase I of the Granite Vista Project are being designed. He explained that EPCOR Water would rather flows from Granite Vista be diverted to the WVRWRF, however if the Granite Vista project completes Phase I before the West Valley Regional WRF is online, the Russell Ranch WRF may be used in the interim as a treatment option.

Mr. Metzler referenced an errata sheet provided to the Committee. He stated that one landowner was concerned about his land being within the designated area to be served by the West Valley Regional WRF. Mr. Metzler indicated that the landowner requested that his land be designated as unsewered and be excluded. However, after the West Valley Regional Water Reclamation Facility 208 Plan Amendment was provided to the Committee, the landowner requested that his land be included in the area to be served. Mr. Metzler reported that the amendment will be modified to reflect this change. He clarified that the only land excluded from the service area is the Adaman Mutual Water Company. Mr. Metzler stated that the WVRWRF has been designed and sized for a potential inclusion of these lands.

Mr. Weber inquired about feedback from residents on expansion of the Russell Ranch WRF given its location in a residential neighborhood. Mr. Metzler replied that expanded treatment capacity would still meet the existing setback requirements. He stated that EPCOR Water is confident that expansion of treatment capacity at the Russell Ranch WRF would not cause a nuisance or exceed setback requirements.

Carole Coe Klopatek, Fort McDowell Yavapai Nation, asked about the depth to groundwater. Mr. Metzler responded that he believes it is approximately 900 feet. He added that the WVRWRF is near the Luke cone of depression which makes it ideal for recharge. He added that Liberty Utilities and CAGR D are looking to build a facility nearby and conducting recharge.

Chair Gottler requested a motion to authorize a public hearing on the Draft MAG 208 Water Quality Management Plan Amendment for the West Valley Regional Water Reclamation Facility. Mr. Weber moved, and Mr. McNeil, seconded, and the motion to authorize a public hearing on the Draft MAG 208 Water Quality Management Plan Amendment for the West Valley Regional Water Reclamation Facility carried unanimously.

#### 7. Call for Future Agenda Items

Chair Gottler asked the Committee for suggestions on future agenda items. With no further comments, the meeting was adjourned at approximately 4:20 p.m.