Arizona Department of Water Resources P.O. Box 36020 Phoenix, Arizona 85067-6020 (602) 771-8527 - www.azwater.gov	Community Water System SYSTEM WATER PLAN 2012 Five-year Update

Community Water System Number: 91-000068.0000
Community Water System Name: US Army Garrison Fort Huachuca
Has a Designation of Assured or Adequate Water Supply: No
Located in an AMA: No
This report is prepared by: CHRISTOPHER P. HIGGINS
File Date: 1/10/2012

PART 1 - WATER SUPPLY PLAN UPDATE

All water measurements are in Acre-Feet

A. Service Area Lands

1. Description of the area you serve:
   US Army Garrison with sensitive national defense missions. Force Protection concerns prohibit us from releasing Potable Water System details, e.g., maps.
2. Type of area served (consider majority of area served):
   Mixed Uses (Residential and Non-residential)
   Institutional (military base, school, or correctional facility)
3. Typical or predominant landscaping type in residential areas:
   Turf

B. Sources of Supply

1. Please check all sources of water supply used to meet demand in your system:
   Groundwater
   Reclaimed Water
2. For each well, list the well registration number and the most recent water level measurement and date measured

ADWR Well Registration Number	Depth-to-Water (feet)	Date Measured
626112	536.05	10/14/2011
626111	538.36	10/12/2011
626110	466.43	10/13/2011
626109	466.43	4/2/2011
626108	528.02	4/2/2011
626107	559.18	9/28/2011
626106	344	10/18/2011
626105	301	4/2/2011

C. Interconnections

Name of other interconnected system(s):

System Name	Description of the interconnections

D. Water Sold and Purchased

1. Water sold to another water system during the past five years

Water System	Quantity (Acre-Feet)

2. Water purchased from another water system during the past five years

Water System	Quantity (Acre-Feet)

E. System Production/Demand

1. Monthly production data

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaime	Total (Acre-Feet)
2008	Jan	81.00				9.60	90.60
2008	Feb	72.00				16.40	88.40
2008	Mar	90.00				17.20	107.20
2008	Apr	107.00				29.30	136.30
2008	May	121.00				34.50	155.50
2008	Jun	125.00				34.10	159.10
2008	Jul	88.00				14.30	102.30
2008	Aug	93.00				19.70	112.70
2008	Sep	95.00				16.60	111.60
2008	Oct	91.00				25.10	116.10
2008	Nov	84.00				21.60	105.60
2008	Dec	79.00				8.40	87.40
Total for 2008							1,372.80
Average Daily Demand for 2008							3.76
Highest Monthly Demand for 2008							159.10

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaime	Total (Acre-Feet)
2009	Jan	90.00				6.30	96.30
2009	Feb	88.00				8.40	96.40
2009	Mar	96.00				32.40	128.40
2009	Apr	94.00				30.80	124.80
2009	May	123.00				34.80	157.80
2009	Jun	109.00				31.50	140.50
2009	Jul	112.00				25.00	137.00
2009	Aug	129.00				26.30	155.30
2009	Sep	114.00				27.80	141.80
2009	Oct	105.00				36.40	141.40
2009	Nov	79.00				20.90	99.90
2009	Dec	81.00				10.40	91.40
Total for 2009							1,511.00
Average Daily Demand for 2009							4.14
Highest Monthly Demand for 2009							157.80

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaime	Total (Acre-Feet)
2010	Jan	83.00				4.70	87.70
2010	Feb	77.00				2.40	79.40
2010	Mar	88.00				19.40	107.40
2010	Apr	92.00				26.50	118.50
2010	May	103.00				38.30	141.30
2010	Jun	118.00				38.70	156.70
2010	Jul	128.00				32.20	160.20
2010	Aug	102.00				10.80	112.80
2010	Sep	98.00				29.80	127.80
2010	Oct	89.00				31.90	120.90
2010	Nov	79.00				25.60	104.60
2010	Dec	85.00				9.80	94.80
Total for 2010							1,412.10
Average Daily Demand for 2010							3.87
Highest Monthly Demand for 2010							160.20

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaime	Total (Acre-Feet)
2011	Jan	88.00				8.80	96.80
2011	Feb	85.00				21.70	106.70
2011	Mar	79.00				30.10	109.10
2011	Apr	91.00				41.20	132.20
2011	May	100.00				39.10	139.10
2011	Jun	112.00				38.70	150.70
2011	Jul	90.00				26.90	116.90
2011	Aug	88.00				17.20	105.20
2011	Sep	73.00				22.50	95.50
2011	Oct	78.00				28.90	106.90
2011	Nov	77.00				21.60	98.60
2011	Dec	70.00				9.10	79.10
Total for 2011							1,336.80
Average Daily Demand for 2011							3.66
Highest Monthly Demand for 2011							150.70

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaime	Total (Acre-Feet)
2012	Jan						0.00
2012	Feb						0.00
2012	Mar						0.00
2012	Apr						0.00
2012	May						0.00
2012	Jun						0.00
2012	Jul						0.00
2012	Aug						0.00
2012	Sep						0.00
2012	Oct						0.00
2012	Nov						0.00
2012	Dec						0.00
Total for 2012							0.00
Average Daily Demand for 2012							0.00
Highest Monthly Demand for 2012							0.00

Your system is: Mostly Metered

2. Days you have the highest demand:

	Estimated peak day demand (Acre-Feet)

2008	Date:	8/18/2008
	Quantity:	8.25
2009	Date:	7/28/2009
	Quantity:	6.30
2010	Date:	7/14/2010
	Quantity:	6.84
2011	Date:	6/17/2011
	Quantity:	6.86
2012	Date:	
	Quantity:	

3. Reasons you were not able to meet peak demand in the past five years:
   Peak demand was always met

F. Analysis of Projected Water Demand

1. Your projected system population and projected demand:

Year	Projected population	Projected average daily demand on system (Acre-Feet)
2015	15,000	2.83
2020	15,000	2.83
2030	15,000	2.83

2. Do you anticipate problems meeting these future demands? No
3. Change expected in your area that could increase the demand on your water supply:
   No change expected
4. Changes planned to help you meet demand over the next 20 years:
   No changes planned
5. Assistance requested:
   No assistance required at this time

PART 2 - DROUGHT PLAN UPDATE

A. Emergency Operations Contact Person

1. Name: Christopher P. Higgins
2. Position: Water Compliance Program Manager
3. Phone number: 520-533-9091

B. Updated drought plan of action:

No Change

C. The highest/worst stage you have declared in the past 5 years:

First Stage - no drought/normal conditions

D. The stage of drought your system currently in:

First Stage - no drought/normal conditions

E. Stage of drought when management measures are mandatory:

Second Stage

F. Have your indicators for declaring drought stages changed?

No

G. Do you utilize any of the following information to help you make determinations of drought stages?

	(Yes/No/Would like to receive)
Precipitation data	No

Precipitation and weather forecasts	No
Regional drought conditions	No
Range and forage conditions	No
Aquifer levels	Yes
Other	No

H. Has your drought communication strategy or education program changed?

No

I. Emergency backup water supply:

Other

System has sufficient redundancy to continue to provide water.

J. Arrangements for alternative or backup water supplies:

Yes

K. Methods used to augment your supply in the last five years:

No augmentation needed

PART 3 - CONSERVATION PLAN UPDATE

Management Measures	Implementation Status	Would
1. GENERAL MEASURES		
Wells are metered.	Already implementing	☐
Service connections are metered.	Will implement in the next 5 years	☐
Water rate structures encourage efficient water use (e.g. higher rates for higher use).		☐
Reclaimed water used for landscape watering.	Already implementing	☐
2. MEASURES TO LIMIT LOST AND UNACCOUNTED FOR WATER		
Leak detection and repair.	Already implementing	☐
Meter testing, repair and replacement.	Already implementing	☐
Storage tank evaporation control.	Already implementing	☐
Infrastructure and/or storage facility improvements.	Already implementing	☐
Elimination of illegal connections.		☐
Other		☐

3. MEASURES TO RAISE PUBLIC AWARENESS		
Free conservation handouts or materials for customers.	Already implementing	☐
Conservation tips with water bills or on website.	Already implementing	☐
Request that customers reduce water use by a certain % or in other ways.	Already implementing	☐
Participation in special events and/or community programs.	Already implementing	☐
Other		☐
4. MEASURES TO ASSIST CUSTOMERS OR PROVIDE OUTREACH		
Residential audit program.	Will implement in the next 5 years	☐
Advice on how to check home for leaks and make repairs.	Already implementing	☐
Residential interior retrofit program.		☐
Non-residential interior retrofit program.		☐
Non-residential water budgeting program.		☐
Residential or non-residential low water-use landscape information and/or consultations.	Already implementing	☐
High water-use notification.	Will implement in the next 5 years	☐
High water-use inquiry resolution.		☐
Water waste investigations and assistance.	Already implementing	☐
Other		☐
5. MEASURES TO EDUCATE AND/OR TRAIN CUSTOMERS		
Adult education and/or training workshops and classes.	Already implementing	☐
Youth water conservation education program.	Already implementing	☐
Xeriscape demonstration garden.	Already implementing	☐
Speakers Bureau	Already implementing	☐
Other		☐

6. INCENTIVES FOR EFFICIENT WATER USE OR CONSERVATION		
Residential toilet rebate or incentive.		☐
Residential toilet replacement.		☐
Rebates or incentives for other indoor fixtures or appliances.		☐
Rebates or incentives for turf conversion or xeriscape installation.		☐
Rebates or incentives for a " smart " irrigation controller.		☐
Rebates or incentives for graywater or rainwater fixtures.		☐
Non-residential rebates, incentives, loans, etc.		☐
Other		☐
7. MEASURES TO RESTRICT WATER USE (CONDITIONS OF SERVICE OR ORDINANCE)		
Prohibiting water waste or tampering.	Already implementing	☐
Limiting turf, water-intensive landscapes or water features in new residences or developments.	Already implementing	☐
Requiring low water-use landscapes.	Already implementing	☐
Designating landscape watering days or times.	Already implementing	☐
Prohibiting high water-use activities (e.g. landscape watering) during peak demand hours.	Already implementing	☐
Requiring water-conserving fixtures or appliances that are more efficient than specified in current state plumbing codes.	Already implementing	☐
Requiring hot water recirculation devices.		☐
Requiring retrofits on resale.		☐
Requiring on-site rainwater harvesting.	Already implementing	☐
Requiring gray water plumbing.	Already implementing	☐
Requiring car wash recycling.	Already implementing	☐
Requiring a water use plan for new large commercial or industrial customers.	Already implementing	☐
Other		☐
8. INNOVATION OR RESEARCH PROGRAMS		
Evaluating a new technology or program.	Already implementing	☐
Implementing a new technology or program.	Already implementing	☐
Researching a new technology or program.	Already implementing	☐
Other		☐