

City of Chandler Reclaimed Water And Backflow Prevention



Matt Dregely

Doug Toy

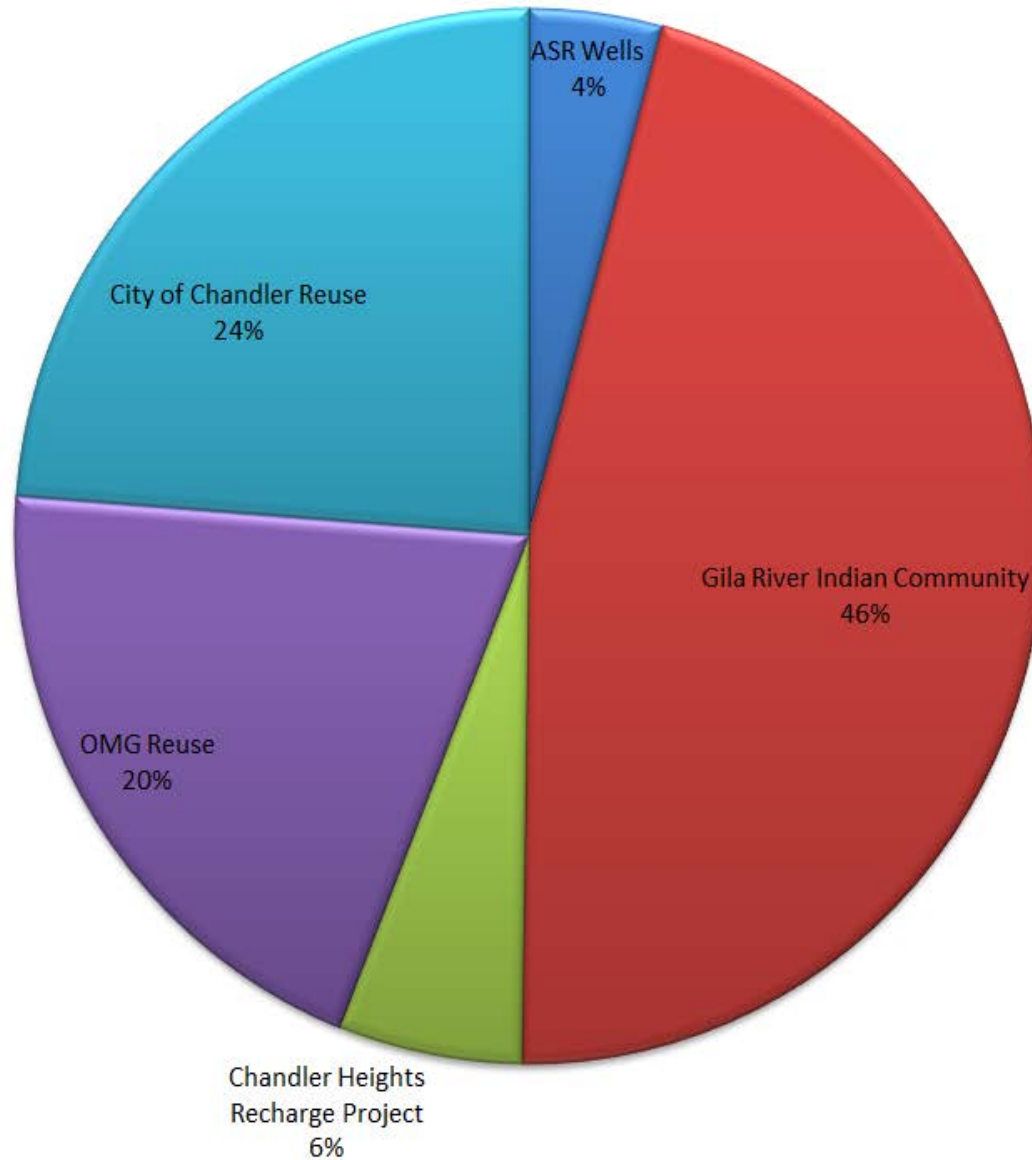
Benefits of Reclaimed Water in Chandler

- Saves Potable Water
- Recharge Aquifer
- Reduce Wastewater Discharge



2014

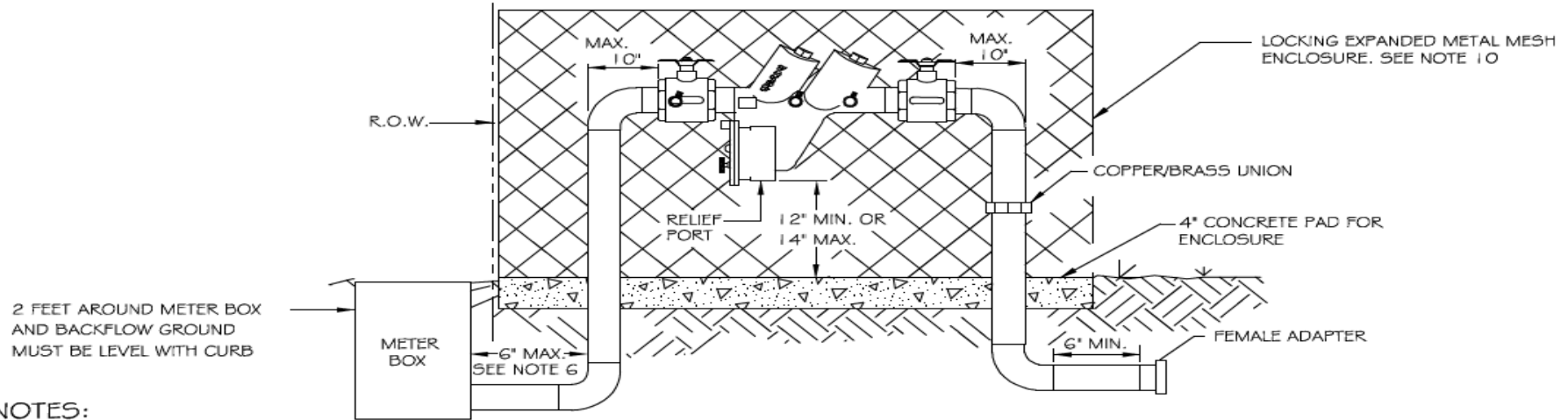
Chandler Uses 100% of it's Reclaimed Water





**Backflow
Preventers are the
primary defense
against
contamination due
to reduced pressure
in the distribution
system.**





NOTES:

1. ASSEMBLY SHALL BE APPROVED BY UNIVERSITY OF SOUTHERN CALIFORNIA (USC) FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH. LIST OF APPROVED ASSEMBLIES ON FILE AT CIVIL ENGINEERING.
2. SHUTOFF VALVES SHALL BE RESILIENT BALL TYPE WITH REMOVABLE HANDLES.
3. ALL PIPE AND FITTINGS SHALL BE TYPE 'K' RIGID COPPER. COMPRESSION FITTINGS ARE NOT ALLOWED.
4. TEST COCKS SHALL BE FITTED WITH BRASS PLUGS INSTALLED WITH TEFLON TAPE.
5. NO TAPS SHALL BE ALLOWED BETWEEN THE METER AND THE BACKFLOW PREVENTION ASSEMBLY.
6. INSTALL BACKFLOW PREVENTION ASSEMBLY INLINE AND WITHIN 6 INCHES OF THE METER BOX, IMMEDIATELY DOWNSTREAM OF THE LINESETTER.
7. THE COPPER/BRASS UNION MAY NOT BE REQUIRED IF THE ASSEMBLY INCORPORATES THE UNION.
8. INSTALL BACKFLOW PREVENTION ASSEMBLY WITH RELIEF PORT FACING TOWARD THE GROUND.
9. BACKFLOW PREVENTION INSTALLATION MUST BE LEVEL, AND INSTALLED A MINIMUM OF 12 INCHES AND A MAXIMUM OF 14 INCHES FROM RELIEF PORT TO FINAL GRADE.
10. LOCKING ENCLOSURE SHALL BE GUARD SHACK OR EQUIVALENT, PAINTED 'DESERT TAN' WITH TNESEC EDUROSHIELD PER MFG'S INSTRUCTIONS. MINIMUM 12 MILS DFT.
11. BACKFLOW PREVENTION ASSEMBLY SHALL HAVE AT LEAST THE SAME CROSS-SECTIONAL AREA AS THE WATER METER BUT NO MORE THAN ONE SIZE LARGER THAN THE METER.

DETAIL NO.

C-311

NTS



CITY OF
CHANDLER
STANDARD
DETAIL

REDUCED PRESSURE-PRINCIPLE BACKFLOW PREVENTION ASSEMBLY INSTALLATION - 3" AND UNDER

APPROVED:

Kevin L. G.
CITY ENGINEER

DATE:

3/14/2013

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Backflow Assemblies are required:

- At all commercial and industrial facilities
- At potable water meters where reclaimed water is present

Reclaimed Water is Prohibited on Residential Properties

53-2.2. Delivery of reclaimed water service to single-family homes, duplexes, and triplexes is prohibited as of November 1, 2013.



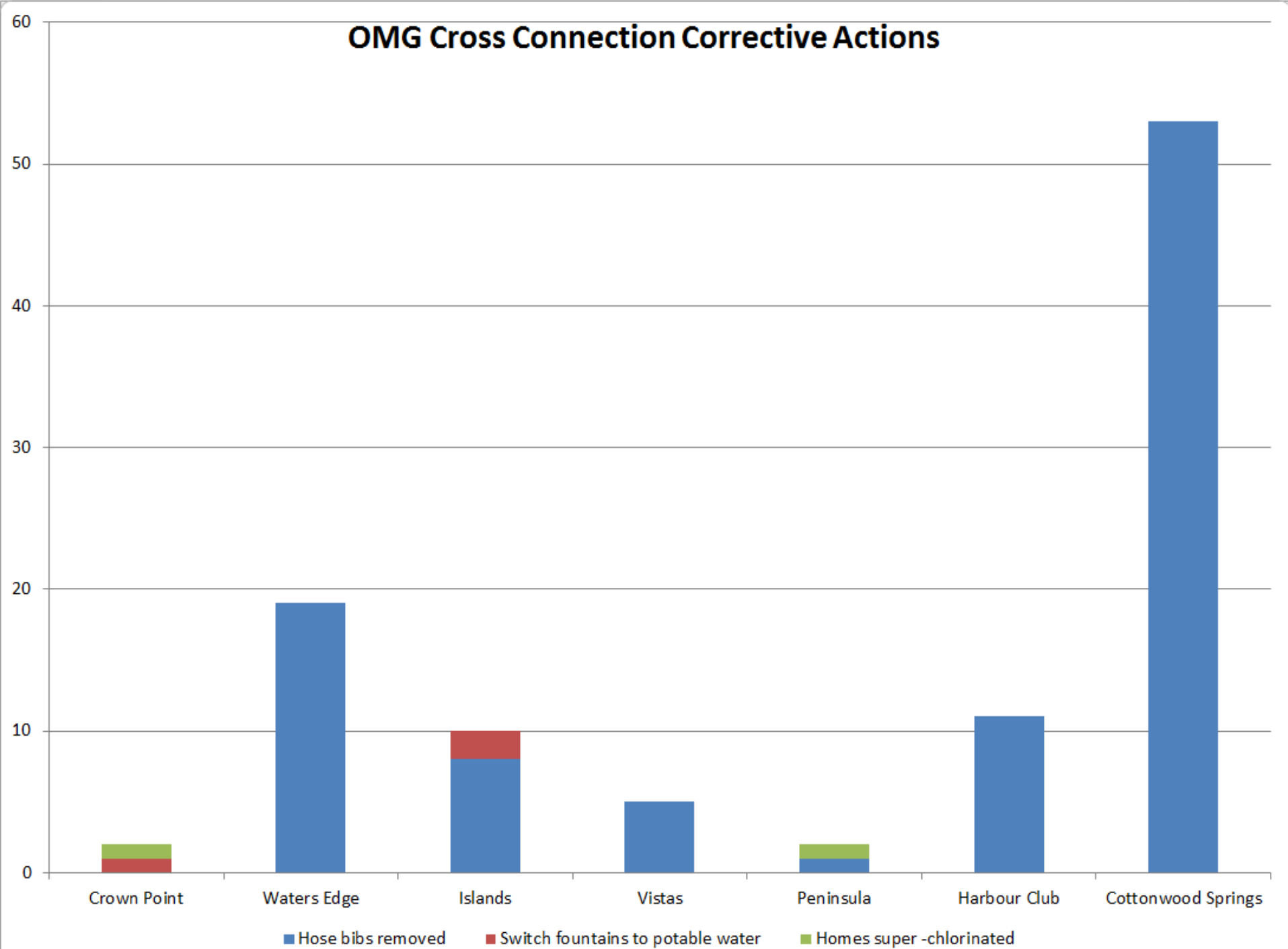
**Reclaimed
Water**

The Right Water for the Right Use





OMG Cross Connection Corrective Actions





Identified and corrected cross connections



Questions?



Professionals Dedicated To Arizona's Water