

Overview for Sewer

- Greenfield Water Reclamation Plant in operation since 2007
- Partnership between Mesa, Gilbert, and Queen Creek
- 4 million gallons per day (MGD) treatment capacity available; approximately 1.4 MGD presently treated daily
- After treatment, class “A+” reclaimed water available for reuse (recharge, irrigation – turf or crops, cooling towers)
- Queen Creek’s reclaimed water is presently being utilized by Mesa and Gilbert with no direct benefit to Queen Creek
- Every million gallons of new capacity will cost \$10 million estimated costs of \$700,000 in new revenue every year (Impact or Sewer fees)
 - 140 additional homes brings in \$700,000

GWRP



Reclaimed Water

- 2004 IGA with Mesa and Gilbert allows them to use our water and bill us for cost and after next plant expansion in 2018/19 QC will be responsible for additional cost of upsizing facilities
- 2007 LAN Engineering Reclaimed Reuse and Recharge Feasibility Study cost \$21.5 million
- 2011 Stantec Reclaimed Reuse and Recharge cost \$8.5 million Phase 1

Reclamation Plan

Greenfield Plant

Existing

Town of Gilbert Recharge Basin

Phase 1-24"

Phase 2-24"

West Park Site

Proposed Recharge Site

RWCD Canal

Intertie

Queen Creek Wash

QUEEN CREEK RD

SOSSAMAN RD

OCOTILLO RD

CHANDLER HEIGHTS RD

Sonoqui Wash

HIGLEY RD

POWER RD

RIGGS RD

Legend

Reclamation Line

- Existing
- Phase 1-24"
- Phase 2-24"
- Water Ways

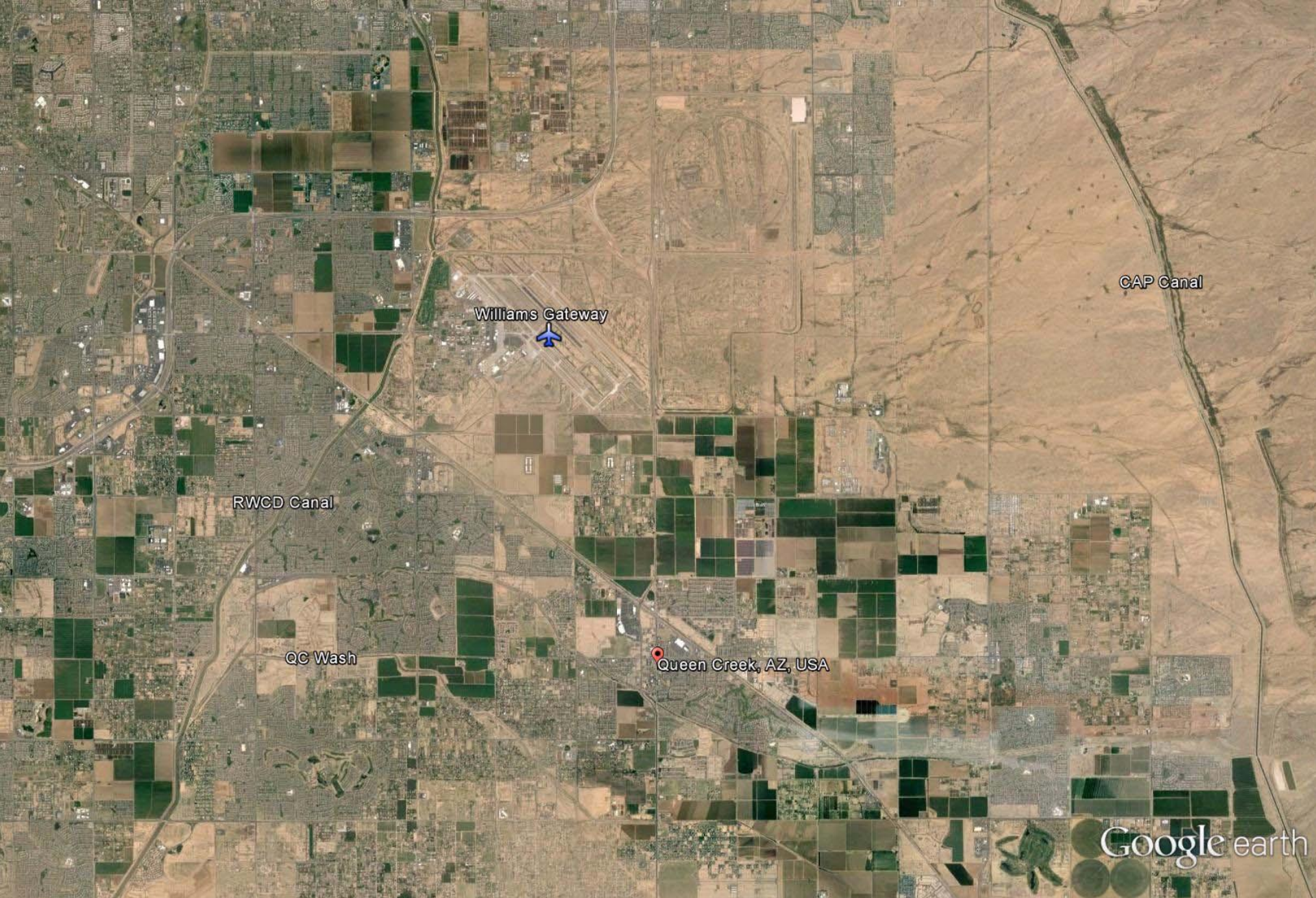


Regional Partnerships

- RWCD Agreement 2014-2020
- Salt River Project system, CAP system and Recharge Facilities, Queen Creek Irrigation delivery system
- Apache Junction and Arizona Water Company
- City of Mesa, City of Chandler and Town of Gilbert
- Gila River Indian Community

Proposed Intertie





Williams Gateway



CAP Canal

RWCD Canal

QC Wash

Queen Creek, AZ, USA

Google earth

Cost of Water per acre feet

CAGRD Replenished Water

2012 **\$437** 2013 **\$492** 2014 **\$559** 2015 **\$628**

CAP Water cost

2012 **\$122** 2013 **\$129** 2014 **\$138** 2015 **\$149**

NIA CAP WATER cost to acquire

\$1,280

Leased Indian Water 100 year

\$3,500 +

1680 acre feet of Reclaimed water recovered in **2015** will be worth **\$1,055,175** of potential savings to our citizens in CAGRD obligations

Total Water Used 2012

- Groundwater Pumped 8,500 acre ft
- CAP water delivered 400 acre ft
- CAGR D Obligation 3,250 acre ft
- Reclaimed Water not used 1,400 acre ft