Figure F1 (Appendix F)
Modeling Results of Western PZ Tank Level and High Service Pumping Station Flow
Year 2009 Maximum Day Design Conditions Without Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Figure F2 (Appendix F)
Modeling Results of Central PZ Tank Levels and High Service Pumping Station Flow
Year 2009 Maximum Day Design Conditions Without Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Potential Problem with Plumtree Tank Not Recovering

Figure F3 (Appendix F)
Modeling Results of Southern PZ Tank Level and Control Valve Flows
Year 2009 Maximum Day Design Conditions Without Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Figure F4 (Appendix F)
Modeling Results of Central PZ Tank Levels
With Forced Submergence of Harrison and Field Street Tanks
Year 2009 Maximum Day Design Conditions Without Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Figure F5 (Appendix F)
Modeling Results of Southern PZ Tank Level and Control Valve Flows
With Forced Submergence of Harrison and Field Street Tanks in Central PZ
Year 2009 Maximum Day Design Conditions Without Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Figure F6 (Appendix F)
Modeling Results of Western PZ Tank Levels and High Service Pumping Station Flow
Year 2010 Maximum Day Design Conditions With Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64

- Carpenter Tank Head
- Cary/Apex High Service Pumping Station Flow
Figure F7 (Appendix F)
Modeling Results of Central PZ Tank Levels and High Service Pumping Station Flow
Year 2010 Maximum Day Design Conditions With Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Figure F8 (Appendix F)
Modeling Results of Southern PZ Tank Level and Control Valve Flows
Year 2010 Maximum Day Design Conditions With Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Figure F9 (Appendix F)
Modeling Results of Western PZ Tank Levels and High Service Pumping Station Flow
Year 2015 Maximum Day Design Conditions With Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Figure F10 (Appendix F)
Modeling Results of Central PZ Tank Levels and High Service Pumping Station Flow
Year 2015 Maximum Day Design Conditions With Improvements

Cary/Apex High Service Pumping Station Flow

Harrison, Field Street, Maynard, and Ridgeview Tank Head

Note: Maximum Day Demand = Average Day Demand x 1.64

Old Apex Pump Station Flow = 4 MGD
For 12 HRS/DAY
Figure F11 (Appendix F)
Modeling Results of Southern PZ Tank Level and Control Valve Flows
Year 2015 Maximum Day Design Conditions With Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Figure F12 (Appendix F)
Modeling Results of Western PZ Tank Levels and High Service Pumping Station Flow
Year 2025 Maximum Day Design Conditions With Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Figure F13 (Appendix F)
Modeling Results of Central PZ Tank Levels and High Service Pumping Station Flow
Year 2025 Maximum Day Design Conditions With Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64

Old Apex Pump Station Flow = 4 MGD For 12 HRS/DAY
Figure F14 (Appendix F)
Modeling Results of Southern PZ Tank Level and Control Valve Flows
Year 2025 Maximum Day Design Conditions With Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64
Figure F15 (Appendix F)
Modeling Results of Western PZ Tank Levels, HSPS Flow, and Davis Drive PRV Flow
Buildout Maximum Day Design Condition With Improvements

Note: Peaking factor assumption (MDD = ADD Projection x 1.64)
Figure F16 (Appendix F)
Modeling Results of Central PZ Tank Levels, HSPS Flow, and Davis Drive PRV Flow
Buildout Maximum Day Design Condition With Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64

Elevated Tank Heads
Cary/Apex High Service Pumping Station Flow
Figure F17 (Appendix F)
Modeling Results of Southern PZ Tank Level and Control Valve Flows
Buildout Maximum Day Design Conditions With Improvements

Note: Maximum Day Demand = Average Day Demand x 1.64