Appendix 1
Photograph Log

Photograph 1. Lime Softening Plant. View of corrosion and metal loss associated with the internal support structures for Clarifier No. 3. It was unclear if the structural integrity of the structures was compromised.

Photograph 2. Lime Softening Plant. View of corrosion and metal loss associated with the internal support structures for Clarifier No. 3. It was unclear if the structural integrity of the structures was compromised.

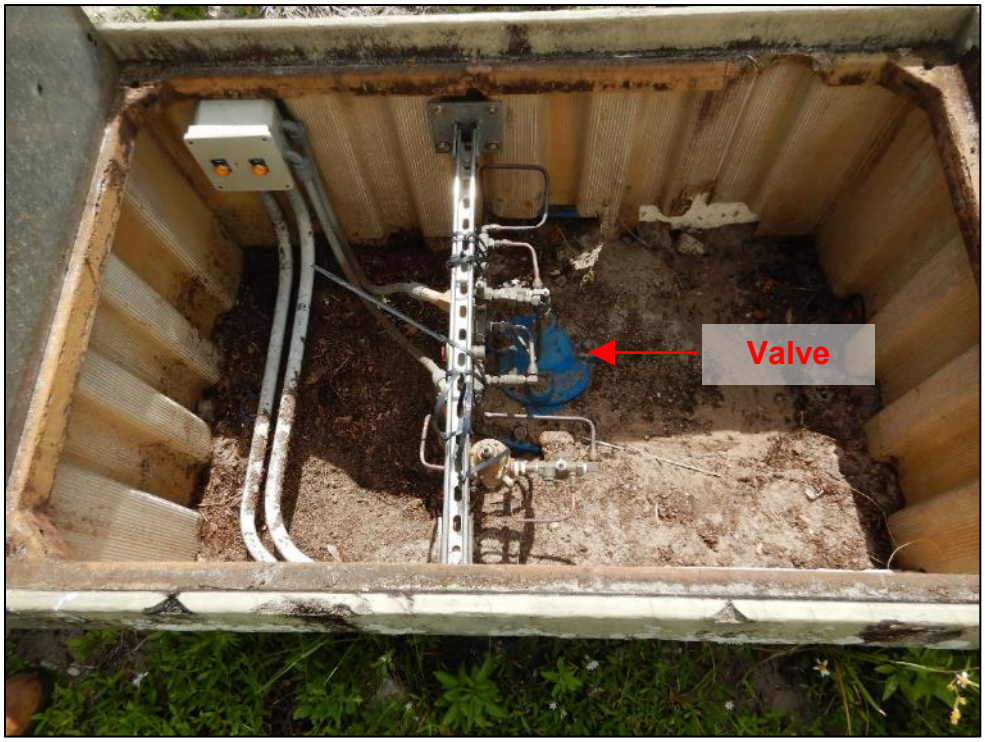
Photograph 3. Transfer Pump Station. View of the position for Pump No. C. The pump was out of service (approximately four weeks). The pump access structure was covered with temporary tarp, wood, bricks, and cinderblocks. Additionally, a piece of wood was bolted to the discharge piping. Both conditions presented sanitary risks to the finished water.

Photograph 4. Transfer Pump Station. View of the position for Pump No. C. The pump was out of service. The pump access structure was covered with tarp, wood, bricks, and cinderblocks. Additionally, a piece of wood was bolted to the discharge piping. Both conditions presented sanitary risks to the finished water.

Photograph 5. Transfer Pump Station. View of corrosion and leak associated with the check valve swing arm for Transfer Pump No. B. This presented a potential sanitary risk to the finished water.

Photograph 6. High Service Pumps. View of a leak from High Service Pump No. 6. City representatives stated that the mechanical seal has been replaced but the pump needs to be replaced.

Photograph 7. High Service Pumps. View of the positions for High Service Pump Nos. 8 and 9. Also note that for one of the positions, a piece of wood was bolted to the discharge piping which presented a potential sanitary risk to the finished water.



Photograph 8. Mockingbird Drive Tank/Pump Station. View of flow control valve at the Mockingbird Drive Tank. The valve was almost completely buried with sand/sediment. It was unclear if the function of the valve was compromised.

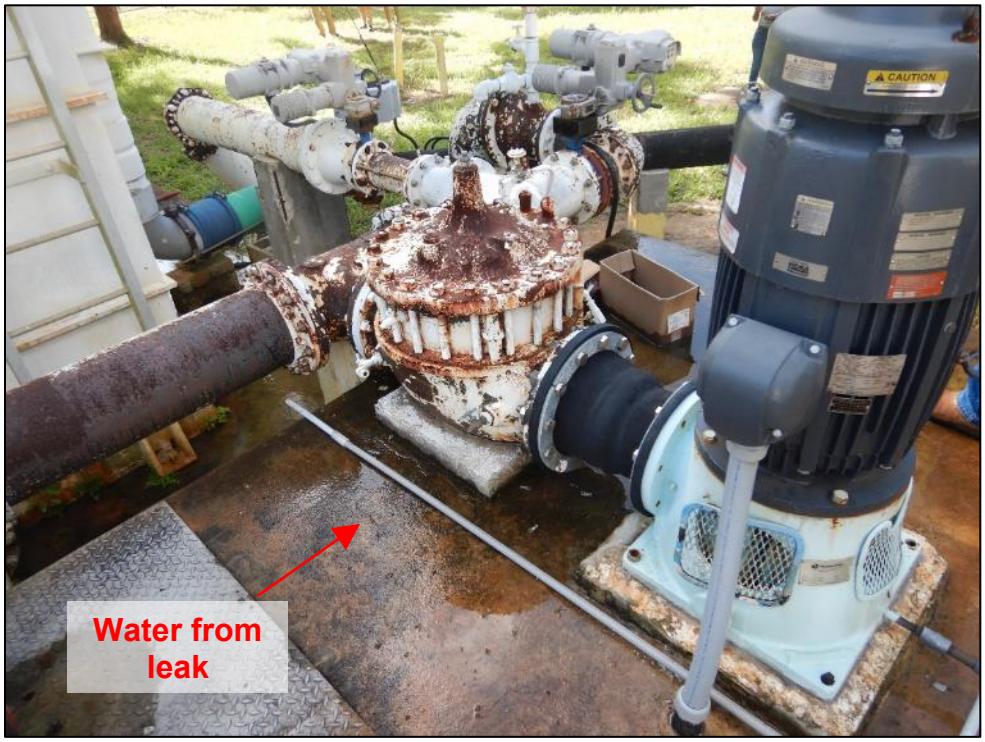
Photograph 9. Mockingbird Drive Tank/Pump Station. View of the pumps for the Mockingbird Drive pump station. The support structures were cracked and corroded and appeared deteriorated to the point of failure. It was unclear if the condition of the support structures impacted other assets.

Photograph 10. Mockingbird Drive Tank/Pump Station. View of the support structures for the Pump No. 1 at the Mockingbird Drive pumping station. The structures were cracked and corroded and appeared deteriorated to the point of failure. It was unclear if the condition of the support structures impacted other assets.

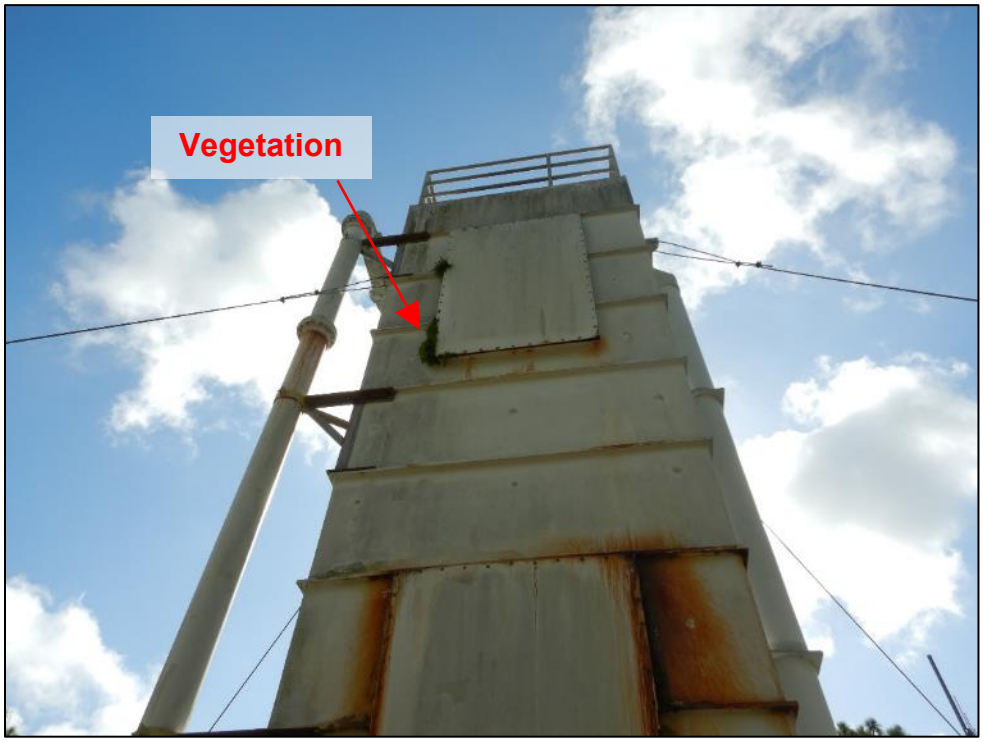
Photograph 11. Mockingbird Drive Tank/Pump Station. View of the support structure for the Pump No. 2 at the Mockingbird Drive pumping station. The structures were cracked and corroded and appeared deteriorated to the point of failure. It was unclear if the condition of the support structures impacted other assets.

Photograph 12. Air Stripping Towers. View of Pump No. 1. Note corrosion on the control valve and piping.

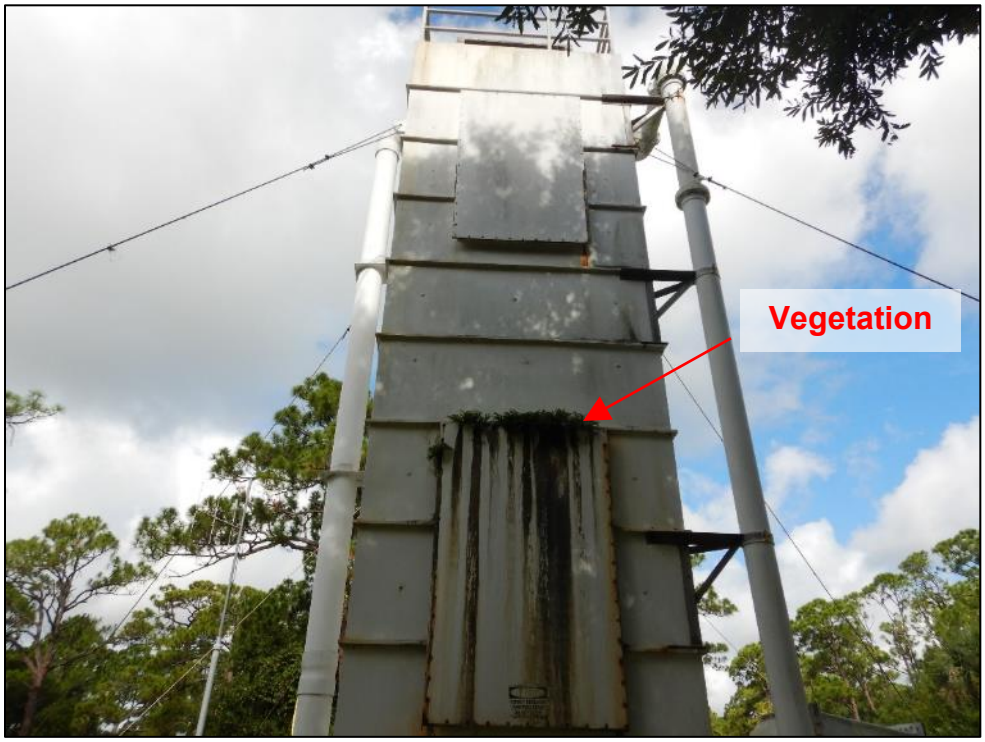
Photograph 13. Air Stripping Towers. View of Pump No. 2. Note corrosion on the pump support structure, check valve, and piping after the check valve.



Photograph 14. Air Stripping Towers. Pump No. 3. There was an active leak due to deteriorated packing. Also note corrosion on the control valve.



Photograph 15. Air Stripping Towers. View of corrosion and vegetation on external components of Tower No. 1.



Photograph 16. Air Stripping Towers. View of vegetation on external components of Tower No. 2.

Photograph 17. Well No. 21. There was an active leak and corrosion associated with the coupling for the discharge head (shown in next photograph).

Photograph 18. Well No. 21. View of leak and corrosion at the coupling of the drive shaft and discharge head.

Photograph 19. Well No. 30. View of the wellhead. There was an active leak near the control valve and the pump support structures were deteriorated.

Photograph 20. Well No. 30. View of active leak near the control valve.

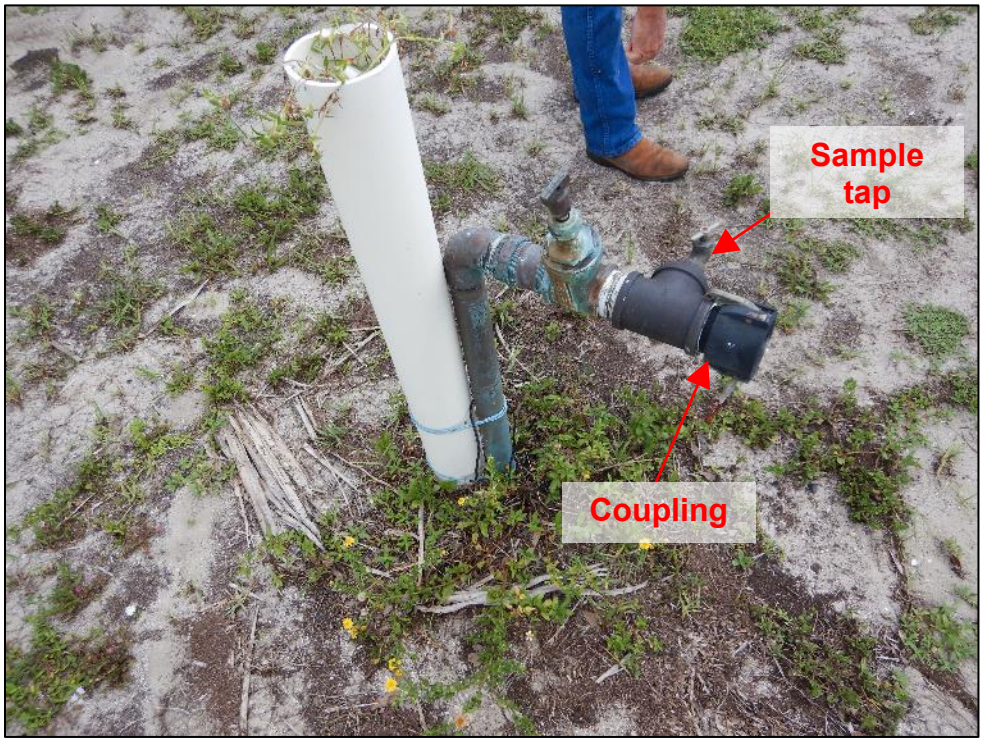
Photograph 21. Well No. 30. Close-up view of the coupling for drive shaft and discharge head. Note corrosion.

Photograph 22. Well No. 30. View of a crack in the concrete support structure for the wellhead. Also note corroded support plate above crack. It was unclear if this condition posed a threat to the sanitary seal or to the raw water quality .

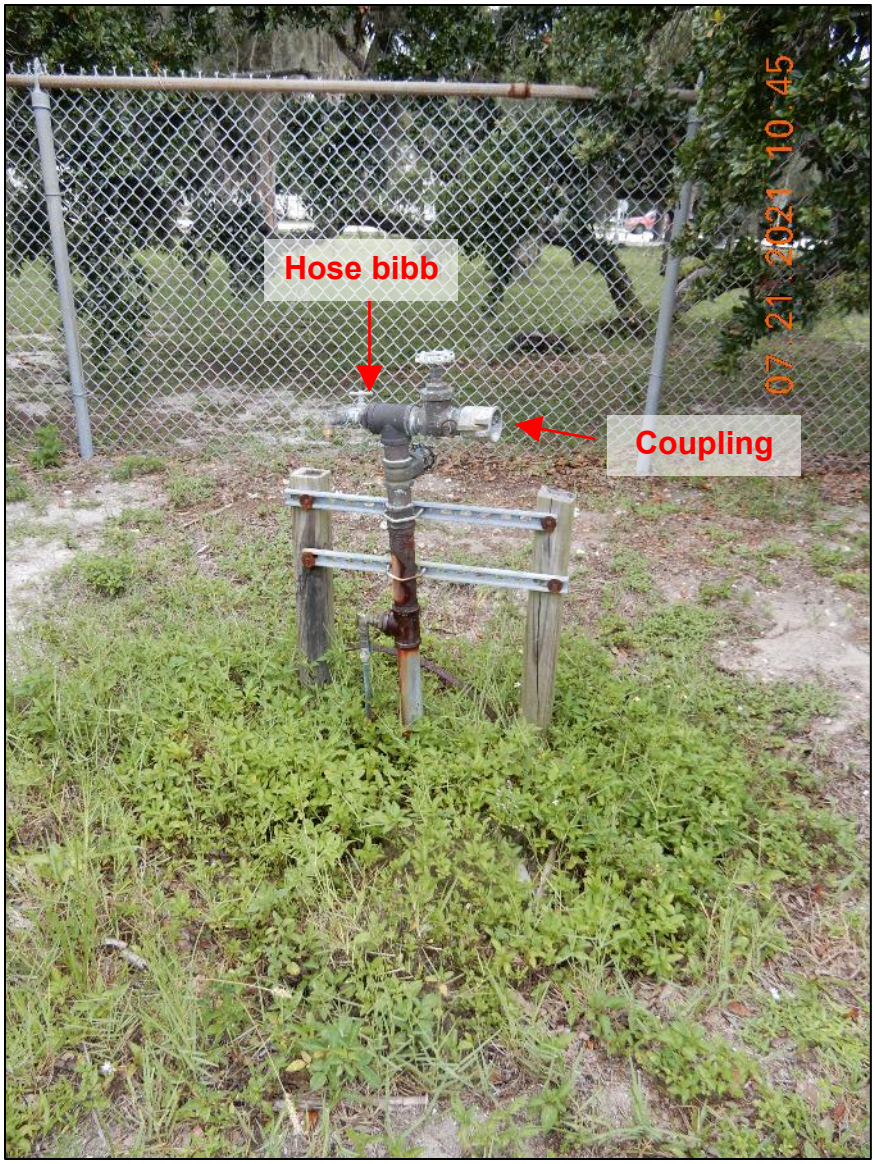
Photograph 23. Well No. 24. There was an active leak associated with a valve for the well piping.

Photograph 24. Air Stripping Towers. View of a water line connection near the bulk acid storage tank. City representatives stated this was connected to a raw water line and that the hose was used to wash down the air stripping towers if foaming occurs. It was unclear if the line had backflow protection.

Photograph 25. Air Stripping Towers. Additional view of a water line connection near the bulk acid storage tank. It was unclear if the hose was used for purposes other than washing the towers or if the line had backflow protection.



Photograph 26. Mockingbird Drive Tank/Pump Station. View of a water line connection with a coupling with levers, the purpose of which was unclear at the time of the inspection. Note the tap next to the coupling was noted to be a sample tap and was unthreaded. The connection appeared to lack backflow protection.



Photograph 27. Mockingbird Drive Tank/Pump Station. View of a water line connection that had a coupling with levers, the purpose of which was unclear at the time of the inspection. Note the hose bibb to the left of the coupling had a vacuum breaker. The connection appeared to lack backflow protection.

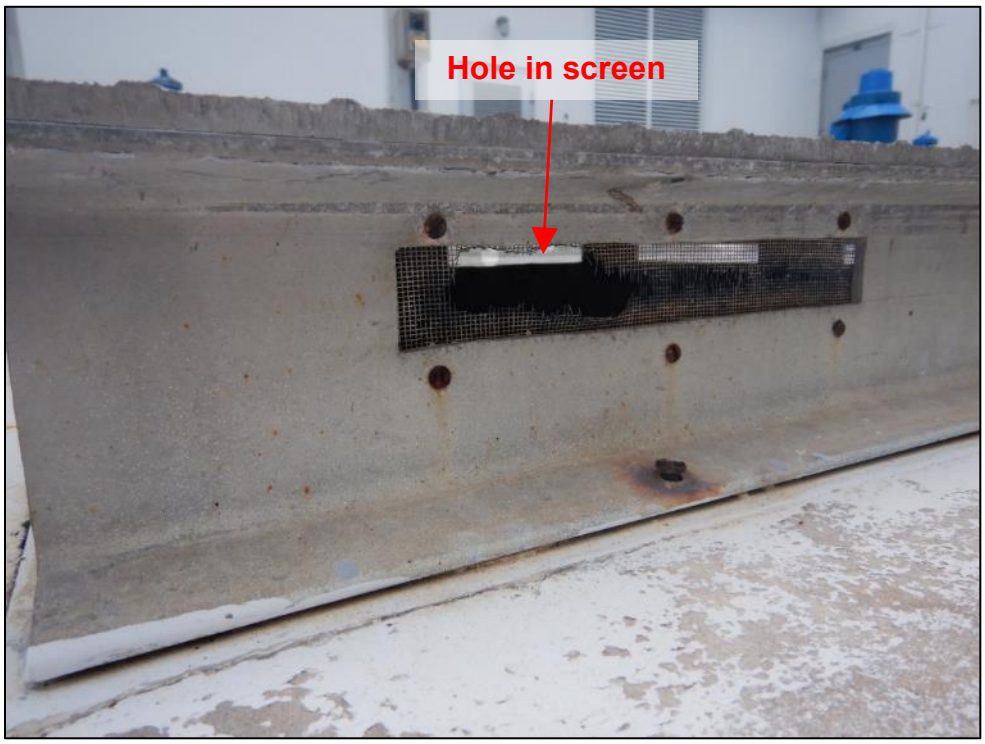
Photograph 28. Mockingbird Drive Tank. View of a sprinkler head on the north side of the tank. The source of water for the sprinkler was unclear and it was unclear if it was still in operation or if there was backflow protection.

Photograph 29. Mockingbird Tank. View of a sprinkler head on the north side of the tank. The source of water for the sprinkler was unclear and it was unclear if it was still in operation or if there was backflow protection.

Photograph 30. Well No. 2. View of the wellhead. The pump had been removed and the wellhead was covered with wood and cinderblocks. No sanitary seal was observed. This was an inactive well that was going to be redrilled at another location.

Photograph 31. Well No. 2. View of the wellhead. The pump had been removed and the wellhead was covered with wood and cinderblocks. This was an inactive well that was going to be redrilled at another location.

Photograph 32. Lime Softening Plant. The concrete structure was previously a suction well for high service pumps (now a clearwell access structure). Some of the individual accesses were raised and some were flush with the concrete structure. The EPA Inspection Team noted sealant with some of the accesses but could not confirm if all were adequately sealed to maintain sanitary conditions and eliminate threats to the finished water.



Photograph 33. Lime Softening Plant. Close-up view of the deteriorated screen on the clearwell vent structure. No sanitary seal could be verified between the concrete deck and the vent structure.

Photograph 34. Lime Softening Plant. View of one of the clearwell accesses that was flush with the concrete structure and had spaces between the concrete and diamond plate cover. It was unclear if this had an adequate sanitary seal.

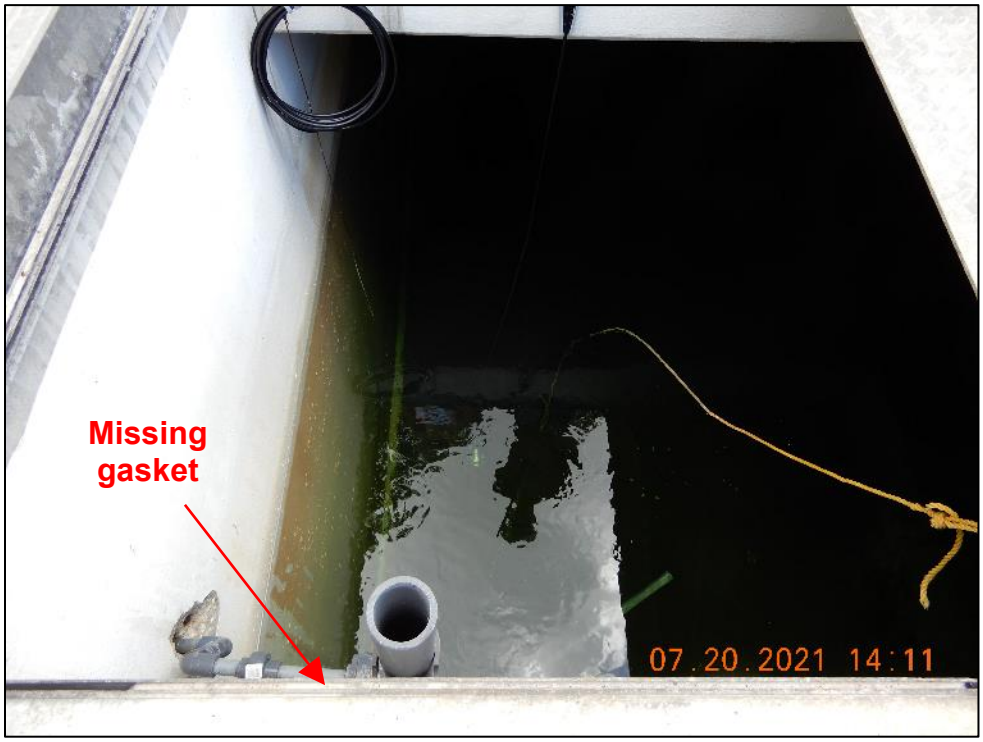
Photograph 35. Lime Softening Plant. The concrete structure was previously a suction well for high service pumps (now a clearwell access structure). The individual accesses were flush with the concrete structure. The EPA Inspection Team noted sealant with some of the accesses but could not confirm if all were adequately sealed to maintain sanitary conditions and eliminate threats to the finished water.

Photograph 36. RO Plant. View of clearwell access structure for the RO Plant. One of the covers was not secured and slightly offset and holes were observed in the side of the access structures. No sanitary seal could be verified between the concrete deck and the vent structure.

Photograph 37. RO Plant. View of clearwell access structure for the RO Plant. The cover was not secured and was slightly offset; some of the bolt holes provided direct access to the clearwell.

Photograph 38. RO Plant. Close-up view of hole in one the clear access structures that provided direct access to the clearwell. Multiple holes and spaces were observed in the access structures and between the metal structures and concrete deck.

Photograph 39. Transfer Pump Station. View of access hatch at the transfer pump station. The access was flush with the concrete structure and had deteriorated/missing gasketing in areas.



Photograph 40. Transfer Pump Station. View of access hatch at the transfer pump station. The access was flush with the concrete structure and had deteriorated/missing gasketing in areas.

Photograph 41. Mockingbird Drive Tank. It was unclear if the overflow was equipped with a screen. The configuration of the overflow precluded observation of the opening.