



**Dublin San Ramon
Services District**

Water, wastewater, recycled water

Refurbishing a Continuous Backwash Sand Filter

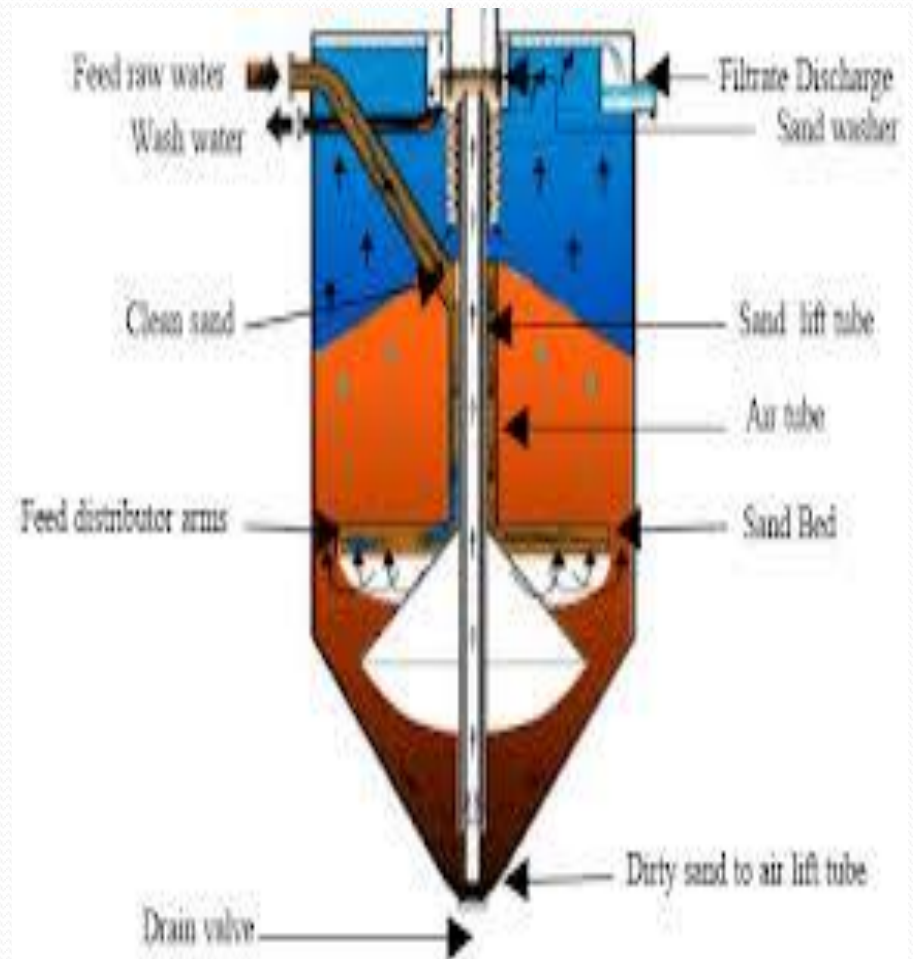
Inspection and Refurbishment of a Continuous Backwash Sand Filter

Pre-Refurbishment Testing

Filter #1 was able to meet the 2 NTU turbidity limit at a loading rate of 3.7 gpm/ft² (equal to 8 mgd with all 5 filters running)

Filter #1 was not able to meet 2 NTU at 4.2 gpm/ft² (equal to 9 mgd with all 5 filters running)

More extended filter capacity testing will be conducted following rehab of the filter. Analysis of existing media indicates that it continues to meet design specifications.



Continuous Backwash Sand Filter Refurbishment

- Evaluate Existing Sand Filter Media
- Conduct a Pre-Filter Performance Test
- Remove Existing Sand
- Inspect Filter Infrastructure
- Conduct repairs as necessary
- Replace Sand Filter Media
- Conduct Post-Filter Performance Test

