



Marty Flynn provided an overview of the District's history and purpose. He discussed how the District is a General Improvement District under NRS 318 and is a full-service shop. He discussed that the District collects and treats wastewater from unincorporated areas of Clark County and have facilities in unincorporated Las Vegas, Blue Diamond, Indian Springs, Laughlin, Moapa Valley and Searchlight.

Rick Donahue presented information on the Collection System. He discussed that the District's service area is 230 square miles and that there is 2,190 miles of pipeline and 46,298 manholes. He talked about the pipeline sizes, 8-inches to 84-inches in diameter, and the pipeline material being mostly PVC, VCP, HDPE and reinforced fiberglass pipe. Rick Donahue showed the components of a manhole and discussed the purpose of lift stations. He spoke about odor control and corrosion control efforts and the maintenance activities.

Cliff Marshall asked what the life expectancy of PVC pipe is. Rick Donahue responded that it is 75-100 years.

Dan Fischer presented an overview of plant operations by discussing what is in influent, discussed where the reclaimed water goes, and the flows from each of the District's facilities. He also walked through the treatment processes.

Julie Cleaver asked if water from splash pads influent. Dan Fischer stated it is.

Cliff Marshall asked if the District receives odor complaints, Dan Fischer answered that odor complaints are received, but most often odors are from on-site/private facilities.

Julie Cleaver asked if the District works with other plants on capacity issues. Dan Fischer stated that staff works with other plants, but that it is up to each agency to handle the capacity for their service area. Tom Minwegen discussed how the agencies share technology information and permit compliance information with each other.

Warren Hardy asked if most of flows from North Las Vegas goes to the County facilities. Dan Fischer stated that there are some small parts of North Las Vegas that comes to the District's collection system. Warren Hardy asked about where North Las Vegas discharges their treated wastewater. Dan Fischer stated their effluent flows through the Sloan Channel. Warren Hardy asked if the channel is covered. Tom Minwegen stated it is now covered and under the control of Clark County.

Warren Hardy asked about odors on the east portion of the plant. Dan Fischer stated it could be City of Las Vegas facility. The solids handling process is on the east portion of the property. Warren Hardy asked if odors would be normal. Dan Fischer stated it usually is not, we encourage people to contact us when they experience odors to help determine where they are coming from.

Warren Hardy asked about flushable wipes, if they are better to use. Dan Fischer stated they should go in the trash and should not be flushed, as they do not break down and clog the pumps and pipes.

Warren Hardy asked about the filtration processes, is it either UV treatment or ozone membrane treatment or both. Dan Fischer answered that 70% of the water goes through UV and 30% goes through membrane/ozone.

Warren Hardy asked if the amount of water lost to evaporation in the secondary clarifiers would justify the cost to cover. Dan Fischer answered no, the water moves through the plant quickly, the evaporation is less than a tenth of one percent of the flow. Cost to cover is high.

LeAnna Risso showed slides of water from a treatment process on a microscope to show how microbiology is used to help treat the wastewater and to help us determine the appropriate conditions of the treatment processes.

Dan Fischer talked about how the water is sampled and analyzed from the treatment processes. There are 15 scientists and technicians in the District's laboratory that analyze over 14,400 samples a year and perform 108,000 tests a year. The lab is paperless.

Julie Chadburn discussed how the District is highly regulated between the discharge permits, air quality permits and industrial stormwater permits.

Julie Chadburn spoke about the water care cycle and the concept of one water.

Dan Fischer discussed how the Water Reclamation District's flow compares to the flow from the cities. He also discussed how important it is that the treated water returns to Lake Mead as it provides return flow credits, and he showed how much more water the community was able to take from the Lake due to Return Flow Credits. He also spoke about direct reuse versus returning the water back to the environment.

Warren Hardy said that this really illustrates the importance of what the District does.

Edgar Patino asked there will ever be a need to reclaim stormwater. Dan Fischer answered that it would be logistically very difficult to capture anything of value. Warren Hardy asked if stormwater is calculated in the return flow credits. Tom Minwegen stated that only a small part is included in the calculation. He stated that it is negligible and is all determined by the wastewater.

Edgar Patino asked about if the direct reuse occurs near the treatment plants. Dan Fischer stated that the direct reuse from the Flamingo Water Resource Center is used at NV Energy's Clark Station and the Silver Bowl. He stated that the direct reuse is used in the general area of the treatment facilities due to costs.

Warren Hardy asked if the Committee could go deeper into Return Flow Credits. Wants to understand about the stormwater run-off and groundwater as it relates. There was a

discussion about the Colorado River basin and diverting water out of the system. Terry Murphy stated more information regarding Return Flow Credits will be provided.

Edgar Patino asked who is in charge of pumping the clean water back to our homes. Tom Minwegen stated that SNWA is responsible for treating water for drinking water and pumping back to the valley and the water purveyors are responsible for providing to their customers. John Restrepo asked how clean is the water the District returns to Lake Mead compared to drinking water. Dan Fischer answered that our water could not go right into the drinking water distribution. He stated that the water does require additional treatment and disinfection. Dan Fischer said the Lake also dilutes the nitrate. Dan Fischer said that the wastewater is treated to a different set of standards, SNWA must treat to Safe Drinking Water Act Standards.

- V. Public Comment-There were no persons wishing to speak.
- VI. Adjournment-The meeting was adjourned at 1:32 PM. The next meeting is on July 19, 2018 at 11:30 AM at the Las Vegas Metro Chamber of Commerce.