

## MOTION

In 2002, the City of Los Angeles completed the Advanced Water Purification Facility (AWPF) at the Terminal Island Water Reclamation Plant (TIWRP). This world leading facility makes use of Microfiltration (MF), Reverse Osmosis (RO) as well as a Chlorine Contact Tank (CCT) for water disinfection. The facility has the capacity to produce 6 million gallons daily (MGD) of highly purified recycled water that is currently injected into the Dominguez Gap Barrier to protect seawater intrusion into the groundwater. Although other municipalities employ similar methods to purify water, the TIWRP facility is unique insofar as it functions both as a fully operational conventional treatment facility that uses its own tertiary effluent as the feedwater for its AWPF.

A recent 2017 expansion of the AWPF has doubled the capacity to produce purified water up to a capacity of 12 MGD. The expansion furthered the City's innovative approach by adding an Advanced Oxidation Process (AOP) to modernize disinfection efforts and as a method to control Constituents of Emerging Concern (CEC's). The City must continue to innovate better methods to sustain environmental progress while dealing with real world realities such as the waste product generated by a City of over four million people.

Every gallon of recycled water generated by this facility, is one less gallon of potable water from the Owens Valley, Colorado River, or groundwater sources used. As the supply of fresh water reserves can fluctuate year to year, the expansion of recycled water for commercial and other residential purposes is essential to the City's resilience goals.

The City of Los Angeles continues to lead the nation on its path to a complete zero waste city with a carbon free energy sector. The Bureau of Sanitation and the Environment should report back on strategic technology advancements that can be employed to environmentally and efficiently handle residual waste products, while ensuring that these facilities generate more power than needed for their operation in order to assist offload peak hour energy usage.

I THEREFORE MOVE that the Council INSTRUCT the Bureau of Sanitation and the Environment, with the assistance of the Department of Water and Power, to report on the feasibility of using technology based options to fully recycle and process residual waste, including any adverse environmental impacts, and maintain the capacity to produce and increase the demand for highly purified recycled water.

I FURTHER MOVE that the Council INSTRUCT Bureau of Sanitation and the Environment to report back with a plan to allow each of its reclamation facilities to generate enough power to feed into the power grid, after accounting for all power usage onsite.



Presented By: \_\_\_\_\_  
MITCH O'FARRELL  
Councilmember, 13th District



Seconded By: \_\_\_\_\_

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