

COMMUNICATION FROM CHAIR AND MEMBER, ENERGY AND ENVIRONMENT COMMITTEE relative to the status of the Harbor Refineries Pipeline and Terminal Island Advanced Water Purification Facility Projects.

Recommendation for Council action:

RECEIVE and FILE the March 11, 2015 Los Angeles Department of Water and Power (LADWP) and April 10, 2015 Joint LADWP/Bureau of Sanitation (BOS) reports in response to Motion (Buscaino - Bonin) relative to the status of the Harbor Refineries Pipeline and Terminal Island Advanced Water Purification Facility Projects, inasmuch as this report is for information only and no Council action is required.

Fiscal Impact Statement: Not applicable.

Community Impact Statement: None submitted.

Summary:

On May 6, 2015, the Chair and one member of the Energy and Environment Committee considered March 11, 2015 LADWP and April 10, 2015 Joint LADWP/BOS reports in response to Motion (Buscaino - Bonin) relative to the status of the Harbor Refineries Pipeline and Terminal Island Advanced Water Purification Facility Projects. According to the LADWP and BOS, the LADWP has served the City with a safe and reliable water supply for over a century. Over that time, the City's water supplies have evolved from primarily local groundwater to predominantly imported supplies. Today, the City relies on imported sources for over 85 percent of its water to serve the City's needs. Sustainability of the City's local water supplies is dependent on the City's ability to maximize water conservation, increase recycled water use, expand stormwater capture, restore use of the City's local groundwater basins, and accomplish other local water resource development goals. The combination of these sources provides adequate water supplies to serve the City's needs.

The LADWP's 2010 Urban Water Management Plan (UWMP) is the City's strategic water resource management and planning document, which contains goals for achieving restoration of the City's local groundwater basins, water conservation, water recycling, stormwater capture, and water transfer. These goals work together to increase local water supplies and water conservation from the current 23 percent to 49 percent of the City's total supplies by 2035. Achievement of these goals will allow LADWP to reduce its purchases of imported water supplies by 50 percent. The City's long-term strategy over the UWMP's 25-year planning horizon is to reduce reliance on purchased imported water supplies and improve water supply reliability.

Today, recycled water and water conservation reduces reliance on purchased imported water. Through installed water efficient devices alone, the City conserves approximately 110,800 acre-feet per year (AFY) of water, while recycled water offsets potable demands by over 10,000 AFY. Combined, this is 17 percent of the City's total water demand. By the year 2035, LADWP and BOS's recycled water and conservation goals are projected to total approximately 229,000 AFY (170,000 AFY of conservation and 59,000 AFY of recycled water), helping to offset 28 percent of the City's total water demand.

The Mayor's Executive Directive No. 5 (ED5) promotes an aggressive long-term approach to water

use efficiencies, thereby ensuring a sustainable supply for the future. It challenges Angelinos to change their behavior and attitudes relative to water consumption. LADWP and BOS are currently pursuing plans to accelerate its local water resource development goals in response to the ED5.

In 1994, the LADWP and BOS partnered to construct a Terminal Island Advanced Water Purification Facility (TIAWPF) at the Terminal Island Water Reclamation Plant (TIWRP). Construction consisted of a distribution pipeline that would send water from TIAWPF to the existing Dominguez Gap Seawater Intrusion Barrier Project (Dominguez Gap). A seawater intrusion barrier protects aquifers from the movement of ocean water into fresh groundwater, causing contamination of the groundwater by salt.

Both the TIAWPF and the distribution pipeline began operation in 2006. Today, advanced treated recycled water supplies about half of the total amount of water used in the Dominguez Gap. The remainder is potable water purchased from Metropolitan Water District (MWD). The Water Replenishment District purchases all water (recycled and potable) for injection into the Dominguez Gap, which is up to 8,000 AFY. Currently, this intrusion barrier is the Harbor area's largest recycled water customer. An additional one AFY of recycled water is served to the LADWP Harbor Generating Station for irrigation uses.

Currently, the LADWP is working with the BOS to identify additional opportunities to maximize recycled water use in the Harbor area. Another goal is to eliminate discharge of TIWRP's tertiary effluent into the Los Angeles Harbor. Increasing the treatment capacity of the TIAWPF to 12 million gallons per day (MGD) is necessary to accomplish these goals and will produce more purified recycled water to supply Harbor area customers, including those along the HRPP.

Next, in regard to the Harbor Refineries Pipeline Project (HRPP), it began in 2009, and the majority of the pipeline segments are complete. The following two intersections are subject to permit approval by the Alameda Corridor Transportation Authority (ACTA):

- a. Alameda Street and Mauretania Street
- b. Alameda Street and Anaheim Street

The LADWP applied for this permit in 2012 and is currently in discussion with the Ports of Los Angeles and Long Beach to receive ACTA permit approval. ACTA permits are on the critical path for HRPP. Further delays on ACTA permits will delay service of recycled water from TIAWPF Ultimate Expansion to future customers.

Originally, HRPP was planned in conjunction with the expansion of the West Basin Municipal Water District's Juanita Millender-McDonald Carson Regional Water Recycling (Carson Regional) Plant. The Carson Regional Plant was expected to provide nitrified tertiary water to future potential customers as described in BOS's report to Council in 2008.

Currently, the source of recycled water serviced by HRPP has changed from the Carson Regional Plant in the northern Harbor area to TIAWPF at TIWRP in the southern Harbor area. This change allows the LADWP and BOS to utilize more TIAWPF water, serve Machado Lake, and provide the Harbor Service area with consistent water quality through a single recycled water system.

After further consideration, the Committee Chair moved to receive and file the March 11, 2015 LADWP and April 10, 2015 Joint LADWP/BOS reports. This matter is now submitted to Council for

its consideration.

Respectfully Submitted,

COUNCILMEMBER FELIPE FUENTES, CHAIR

A handwritten signature in dark ink, appearing to be 'F. Fuentes', written in a cursive style.

ENERGY AND ENVIRONMENT COMMITTEE

<u>MEMBER</u>	<u>VOTE</u>
FUENTES:	YES
BLUMENFIELD:	ABSENT
LABONGE:	ABSENT
HUIZAR:	ABSENT
KORETZ:	YES

ARL
5/6/15

-NOT OFFICIAL UNTIL COUNCIL ACTS-