

Los Angeles



Department of Water & Power

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November 20, 2013

The Honorable City Council
Office of the City Clerk
Room 395, City Hall
Mail Stop 160

Attention: Councilmember Mitch O'Farrell
Chairperson, Arts, Parks, Health, Aging and River Committee

Honorable Members:

Subject: Update on Recycled Water Projects in Griffith Park
Council File No. 13-1244

This is in response to the September 17, 2013, motion made by Councilmembers Tom LaBonge and Mitch O'Farrell, requesting the Los Angeles Department of Water and Power (LADWP) and the Los Angeles Department of Recreation and Parks (RAP) to report on the status of recycled water projects in Griffith Park, including an update on the Griffith Park South Water Recycling Project.

Background

Beneficial use of recycled water is a practical, proven way to increase availability of safe, reliable, locally-controlled water supply. LADWP and RAP have a long history of successfully using recycled water in Griffith Park, as shown in the attached map. In the early 1990s, LADWP constructed a network of pipelines, pumping station, and two-million gallon steel storage tank within the Griffith Park area. This system, known as the Greenbelt System, delivers recycled water from the Los Angeles-Glendale Water Reclamation Plant (LAG) to several customers in the central area of the City of Los Angeles (City) including Griffith Park. Recycled water use in Griffith Park has reduced the City's potable demand for non-potable uses.

LADWP and RAP are partnering to expand use of recycled water to additional areas within Griffith Park. LADWP and RAP are currently working together on projects to deliver recycled water to the Roosevelt Golf Course, Bette Davis Picnic Area, Ferraro Fields, and other areas in close proximity to the Greenbelt System.

Los Angeles Aqueduct Centennial Celebrating 100 Years of Water 1913-2013

111 N. Hope Street, Los Angeles, California 90012-2607 Mailing address: Box 51111, Los Angeles, CA 90051-5700
Telephone: (213) 367-4211 www.LADWP.com

RAP Projects

Lippencott Picnic Area

Located on both sides of Zoo Drive, immediately west of the Riverside Drive Bridge. RAP is reviewing the feasibility of converting the irrigation system to connect to an existing recycled water meter already tied to the Greenbelt System.

Maintenance Yard

Located on Zoo Drive west of the Lippencott Picnic Area. Maintenance yard includes pockets of landscaped areas. RAP is reviewing the scope needed to irrigate landscaped areas with recycled water.

Los Angeles Live Steamers

Located on Zoo Drive across from the Maintenance Yard. The Los Angeles Live Steamers facility contains landscaped areas. RAP is reviewing the feasibility of converting irrigation to recycled water using minimal new infrastructure. Testing would be required to prevent cross-connections with the potable system.

Travel Town Museum

Located on Zoo Drive west of Los Angeles Live Steamers. Travel Town Museum includes a recreation area. RAP is reviewing the feasibility of connecting irrigation to the existing Greenbelt with minimal new infrastructure. Testing would be required to prevent cross-connections with the museum and train pavilion's potable system.

Martinez Arena

The Martinez Arena consists of horse grounds located at the intersection of Zoo Drive and Griffith Park Drive. RAP is reviewing the feasibility of providing recycled water for dust control.

LADWP Projects

Bette Davis Picnic Area Water Recycling Project

LADWP entered into an agreement with the City of Glendale (Glendale) to design and construct 4,300 feet of pipeline to extend its recycled water system to reach Bette Davis Park. Construction is anticipated to be completed in June 2014, and is expected to offset up to 75 acre-feet per year of potable water demand. A new smart irrigation system was recently completed for the Bette Davis Picnic Area through the LADWP/RAP partnership. This system was designed to utilize recycled water.

Griffith Park South Water Recycling Project (GPSWRP)

Located in the southern part of Griffith Park and is currently serviced by the Griffith Park Potable Water System. GPSWRP will extend the recycled water system to reach the Roosevelt Golf Course and other potential customers in the area. This project involves a one million gallon tank, pump station, and pipeline. The mitigated negative declaration will be released shortly for public comment. This project is anticipated to be completed by March 2017, and is expected to offset up to 370 acre-feet per year.

Los Angeles-Glendale Recycled Water Storage Tank Project

This involves a three million gallon tank and upsizing of the 16-inch pipeline on Forest Lawn Drive. This will provide the storage needed to meet the current and future recycled water demands. Additionally, it will provide increased reliability to existing customers on the Greenbelt System. Tentative placement of the tank is at the Forest Lawn Mortuary. Alternative sites are also being considered.

The Autry National Center of the American West (The Autry)

Currently, the domestic or potable connection to the museum is supplied by the Los Angeles Zoo's potable system. The irrigation system is supplied with recycled water through a connection from the Wilson-Harding Golf Course irrigation system. The Autry also has cooling towers that could be supplied by recycled water. RAP has requested to sever the museum's connection to the Wilson-Harding Golf Course. LADWP has sent a proposal to connect the irrigation system and the cooling tower system to an existing recycled water meter to the north of The Autry property. The Autry is expected to offset up to 20 acre-feet per year.

Customer Feasibility Studies

Bird Sanctuary

LADWP is reviewing the infrastructure required to irrigate the Bird Sanctuary with recycled water. Once the GPSWRP is completed, this customer site will require the installation of 5,000 linear feet of steel pipe from Roosevelt Golf Course. Connection to this site may offset up to 48 acre-feet per year of potential potable water demand. The initial planning level capital cost estimate is \$3.51 million.

Fern Dell Creek

This customer site will require the Bird Sanctuary extension to be completed. Additionally, this requires installation of 2,500 linear feet of 8-inch steel pipe to extend the recycled water system to the top of a ridge just north of the Observatory, then flowing the recycled water through the canyons to reach the Fern Dell area. Further studies are needed with this option. Initial planning level capital cost estimate is

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\$4.89 million including the extension to the Bird Sanctuary, which is needed to reach this Fern Dell option.

Ferraro Fields

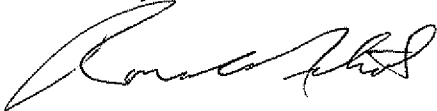
Located northeast of the Los Angeles Zoo, this 26-acre facility is bordered by Interstate 5 Highway, State Route 134 Freeway, and the Los Angeles River. Staff is working to research, locate and inspect an existing 16-inch pipeline that runs beneath the State Route 134 Freeway to the Greenbelt System. If feasible, rehabilitation of the pipe would provide a means to cross the freeway complex and provide recycled water to Ferraro Fields. Connection to this site may offset up to 68 acre-feet per year of potable water demand.

Equestrian Center

This customer site will require the Bette Davis Picnic Area Water Recycling Project to be completed. Connection to this site may offset up to 25 acre-feet per year of potable water demand.

If you have any questions or if further information is required, please contact me at (213) 367-1338, or have your staff contact Ms. Winifred J. Yancy, Director of Intergovernmental Affairs and Community Relations, at (213) 367-0025.

Sincerely,



Ronald O. Nichols
General Manager

GZ/GD

Enclosures

c: Councilmember Tom Labonge, Vice Chair, Arts, Parks, Health, Aging & River (APHAR) Committee
Councilmember Joe Buscaino, APHAR Committee
Councilmember Gilbert A. Cedillo, APHAR Committee
Councilmember Curren D. Price, Jr., APHAR Committee
Mr. Michael Schull, RAP
Mr. Tom Gibson, RAP
Ms. Winifred J. Yancy

REFERENCE
COPY

13-1244
CD4

MOTION

Reclaimed water or recycled water, is former wastewater (sewage) that is treated to remove solids and certain impurities, and used in sustainable landscaping irrigation or to recharge groundwater aquifers. The purpose of these processes is sustainability and water conservation, rather than discharging the treated water to surface waters such as rivers and oceans.

An important part of the City's expanding emphasis on water conservation is the concept that water is a resource that can be used more than once. Because all uses of water do not require the same quality of supply, the City has been developing programs to use reclaimed water for suitable landscaping and industrial uses.

Griffith Park is the largest municipal park with urban wilderness area in the United States with over 4,210 acres of both natural terrain and landscaped parkland and picnic areas. The park is situated in the eastern Santa Monica Mountain range, and is home to numerous plant and animal species. Reclaimed water is the key to improving local infrastructure and water is the key to maintaining all the life that exists in Griffith Park.

Currently, water reclamation projects meet some of Griffith Park's landscaping supply needs. For example, reclaimed water from the Los Angeles Glendale Water Reclamation Plant is used to irrigate two golf courses in Los Angeles' Griffith Park. According to the Los Angeles Department of Water and Power (LADWP), Plans are underway to further develop water reclamation for the purpose of extending the existing recycled water system to the southern facilities of Griffith Park to increase recycled water supply.

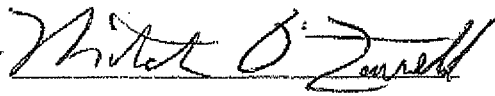
I THEREFORE MOVE that Los Angeles Department of Water and Power and the Los Angeles Department of Recreation and Parks be requested to report back to the City Council on the status of water reclamation in Griffith Park along with the progression of the existing Griffith Park Southern Water Recycling Project (GPSWRP).

PRESENTED BY



TOM LABONGE
Councilmember, 4th District

SECONDED BY



ORIGINAL

SEP 17 2013

