



CITY OF BEVERLY HILLS
PUBLIC WORKS SERVICES DEPARTMENT
MEMORANDUM

TO: PUBLIC WORKS COMMISSION

FROM: Trish Rhay, Assistant Director of Public Works Services, Infrastructure & Field Operations
Caitlin Sims, Senior Management Analyst

DATE: February 11, 2016

SUBJECT: UPDATE ON CURRENT PROJECTS

ATTACHMENT:

1. City Council Items Tracking
2. Monthly Report to State Water Resources Control Board
3. Monthly Consumption Report
4. Monthly Report – Water Conservation Program (Education & Inspections)
5. Metropolitan Water District – Water Device Rebate Program
6. Metropolitan Water District – Turf Removal Rebate Program

The attached documents provide updates on some of the Department's activities for the month of January. Staff will be available at the February 11, 2016, Commission meeting to answer any questions.

CITY COUNCIL ITEMS TRACKING

The following items are currently agendized for upcoming City Council meetings. If there are any changes to these items, staff will provide an update at the February 11, 2016, Public Works Commission meeting.

Council Date

February 16, 2016	
Study Session	
A Item	<p>CONSERVATION PROGRAM UPDATE</p> <p style="padding-left: 40px;">A. PROPOSED RESTRICTOR POLICY FRAMEWORK</p> <p style="padding-left: 40px;">B. MODIFIED PENALTY SURCHARGE FRAMEWORK</p>
Formal Session	
Consent Calendar	ESTABLISHING A PENALTY SURCHARGE FOR WATER USAGE CONTRARY TO THE PROVISIONS OF THE STAGE D WATER CONSERVATION MEASURES.
	ESTABLISHING AN APPEAL PROCEDURE FOR PENALTY SURCHARGES FOR WATER USAGE CONTRARY TO THE PROVISIONS OF THE STAGE D WATER CONSERVATION MEASURES.
	AMENDMENT NO. 1 TO AN AGREEMENT WITH DMS FACILITY SERVICES, LLC FOR MECHANICAL-ELECTRICAL SERVICES; FIRE AND LIFE SAFETY; HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS (HVAC); AND APPROVAL OF A PURCHASE ORDER TO DMS FACILITY SERVICES, LLC IN AN AMOUNT NOT TO EXCEED \$515,000 FOR A ONE YEAR PERIOD (12 MONTHS).
New and Continued Business	INTERIM RATE REVIEW
March 1, 2016	
Formal Session	
Consent Calendar	<p>APPROVALS RELATED TO FACILITIES MAINTENANCE CONTRACTOR AGREEMENTS & PURCHASE ORDERS DESCRIBED HEREIN*</p> <p>*Vendor names and dollar amounts to be confirmed</p>
	<p>AGREEMENT WITH LIFT TECH FOR ELEVATOR MAINTENANCE*</p> <p>*Dollar amounts to be confirmed</p>

MONTHLY REPORT TO STATE WATER RESOURCES CONTROL BOARD

Hello Caitlin Sims,

Thank you for your Monitoring Report. Below is the information you have submitted for the month of 1215. If this information is incorrect, please re-submit your report for the month with the corrected information. We use your most recently submitted monthly report in our calculations.

Reporter	Caitlin Sims
Urban Water Supplier/Number	Beverly Hills City of (640)
Reporting Month	1215
Stage/Mandatory	Stage D Yes
Days Outside Irrigation	2
Total Potable Water Production	779.3 AF
2013 Same Month Production	888.6 AF
CII Water	101.3 AF
Commercial Agricultural Water	0 AF
Commercial Agricultural Water 2013	0 AF
Recycled Water	AF
Non-revenue Water	54.6 AF
Residential Use Percentage	75 %
Population	42157
Estimated R-GPCD	155.4
Number Complaints	13
Number Follow-ups	94
Number Warnings	81
Rate Penalties	1100
Other Penalties	0
Enforcement Actions	Issued 35 "Notices of Violation", rather than an Administrative Compliance Order. An NOV is a prerequisite to the issuance of a criminal misdemeanor citation (for the second offense). Penalty surcharges remain in effect. Customers that did not reduce their

MONTHLY REPORT TO STATE WATER RESOURCES CONTROL BOARD

water consumption by 30% compared to the same period in 2013 were assessed penalties at 1.59 times their base water rates for usage between 71% and 88% of their 2013 usage (Level 1 Surcharge) and 4.67 times their base water rates for usage greater than 88% of their 2013 usage (Level 2 Surcharge). An estimated 1,100 Level 1 penalty surcharges were assessed during December. This estimate does not reflect Level 2 surcharges.

Actions Taken

Raised rates, Instituted surcharges, Reduced allowed outdoor irrigation days, Restricted allowed outdoor irrigation times, Instituted new prohibitions on specific water uses, Instituted stricter prohibitions on specific water uses, Instituted use of behavioral modification programs, Instituted use of SmartMeters for data tracking and enforcement, Increased penalties for water waste, Increased leak detection and repair actions, Increased conservation personnel, Increased conservation program budget, Increased conservation program scope

Implementation Comments

Hosted a landscape and gardening workshop. Completed elementary school outreach program to promote conservation at school and at home. Developed a PSA to remind residents and businesses to shut off irrigation systems during rain. Promoted water conservation at weekly farmers' markets.

Qualification

Monthly production is calculated from local production and Metropolitan Water District (MWD) purchases. The percentage of residential use is calculated using the volume of water consumed by residential accounts compared to monthly production. Because the City of Beverly Hills uses a 60-day billing cycle, percentage of residential use reflects consumption based on the December 2013 ratio. This report will be revised once more accurate data becomes available. Commercial, industrial, and institutional use is calculated as a percentage of monthly production, using the formula $100 - [\text{Percent Residential Use in December 2013}] - [\text{Percent Non-Revenue Water}]$. Percent non-revenue water is estimated to be 7% of total monthly production

State Water Resources Control Board
Office of Research, Planning & Performance



MONTHLY CONSUMPTION REPORT

All Accounts, Volume Consumed

Table 1, below, details total volume of consumption per month for every account in the entire Beverly Hills and West Hollywood service area, comparing the current year to a 2013 baseline. The percent change is calculated to show increases or decreases in consumption per account type. A negative percentage indicates a reduction in consumption whereas a positive percentage indicates an increase. Volume is represented in acre feet units.

Table 1, All Accounts

		<i>Water Consumption by Account Type</i>						Units: AF	Prepared: 2/4/2016					
Accounts	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Single-Family Residential Accounts	2013	345.6	362.4	446.6	496.1	556.7	579.2	620.3	637.2	603.2	556.3	483.3	456.5	
	2015	348.3	361.6	436.1	449.2	454.9	435.1	456.9	476.5	449.9	432.6	N/A	N/A	
	% Change	1%	0%	-2%	-9%	-18%	-25%	-26%	-25%	-25%	-22%	N/A	N/A	
Multi-Family Residential Accounts	2013	202.9	185.8	209.0	205.7	215.2	210.7	222.5	223.9	216.7	221.8	207.3	208.9	
	2015	190.7	174.3	194.7	186.8	186.3	177.4	186.2	189.5	184.0	188.5	N/A	N/A	
	% Change	-6%	-6%	-7%	-9%	-13%	-16%	-16%	-15%	-15%	-15%	N/A	N/A	
Commercial Accounts	2013	171.2	160.3	181.0	178.6	195.7	197.6	212.9	212.8	199.9	199.3	178.4	178.6	
	2015	182.1	169.3	192.6	186.3	188.3	182.6	201.9	209.9	199.7	198.7	N/A	N/A	
	% Change	6%	6%	6%	4%	-4%	-8%	-5%	-1%	0%	0%	N/A	N/A	
Municipal Accounts	2013	25.0	26.9	36.5	40.4	42.9	44.6	49.2	51.2	47.6	42.6	34.2	31.8	
	2015	23.4	24.0	28.3	28.2	27.4	25.3	28.0	29.9	28.9	29.3	N/A	N/A	
	% Change	-6%	-11%	-22%	-30%	-36%	-43%	-43%	-42%	-39%	-31%	N/A	N/A	
Fire Service Accounts	2013	-	-	0.2	0.6	0.7	0.7	0.8	1.1	1.3	1.4	1.4	1.3	
	2015	1.4	1.3	1.4	1.7	1.7	1.8	1.8	1.0	0.9	0.9	N/A	N/A	
	% Change	N/A	N/A	787%	169%	126%	142%	129%	-10%	-31%	-34%	N/A	N/A	
Estimated Non-Revenue Water	2013	117.6	27.6	59.2	47.8	36.1	44.4	79.9	58.1	87.1	80.1	34.6	11.4	
	2015	60.2	51.6	42.8	68.6	11.0	19.5	54.3	69.8	55.1	47.3	N/A	N/A	
	*2013 Total	862.2	762.9	932.4	969.3	1,047.3	1,077.4	1,185.5	1,184.4	1,156.0	1,101.5	939.2	888.6	
	*2015 Total	806.0	782.0	895.9	920.8	869.6	841.7	929.0	976.6	918.5	897.4	814.7	779.3	
	% Change	-7%	3%	-4%	-5%	-17%	-22%	-22%	-18%	-21%	-19%	-13%	-12%	

*Data for final three rows do not come from City of Beverly Hills billing data, but rather Metropolitan Water District invoices, the same official conservation data submitted to the State each month. Aggregate data for State reporting and parsed data for internal system analysis rely on different sources and methodologies. As such, monthly totals by year in the bottom rows do not equal the sum of consumption in the rows above, that difference is determined to be non-revenue water.

MONTHLY CONSUMPTION REPORT

All Accounts, Consumption as a Percentage of Total

Table 2, below, indicates consumption as a percentage of total per month for all accounts in the entire Beverly Hills and West Hollywood service area.

Table 2, All Accounts

		<i>Water Consumption by Account Type</i>											Units: AF	Prepared: 2/4/2016
Accounts	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Single-Family Residential Accounts	2013	40.1%	47.5%	47.9%	51.2%	53.2%	53.8%	52.3%	53.8%	52.2%	50.5%	51.5%	51.4%	
	2015	43.2%	46.2%	48.7%	48.8%	52.3%	51.7%	49.2%	48.8%	49.0%	48.2%	N/A	N/A	
Multi-Family Residential Accounts	2013	23.5%	24.4%	22.4%	21.2%	20.5%	19.6%	18.8%	18.9%	18.7%	20.1%	22.1%	23.5%	
	2015	23.7%	22.3%	21.7%	20.3%	21.4%	21.1%	20.0%	19.4%	20.0%	21.0%	N/A	N/A	
Commercial Accounts	2013	19.9%	21.0%	19.4%	18.4%	18.7%	18.3%	18.0%	18.0%	17.3%	18.1%	19.0%	20.1%	
	2015	22.6%	21.6%	21.5%	20.2%	21.6%	21.7%	21.7%	21.5%	21.7%	22.1%	N/A	N/A	
Municipal Accounts	2013	2.9%	3.5%	3.9%	4.2%	4.1%	4.1%	4.1%	4.3%	4.1%	3.9%	3.6%	3.6%	
	2015	2.9%	3.1%	3.2%	3.1%	3.1%	3.0%	3.0%	3.1%	3.1%	3.3%	N/A	N/A	
Fire Service Accounts	2013	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	
	2015	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	N/A	N/A	
Estimated Non-Revenue Water	2013	13.6%	3.6%	6.4%	4.9%	3.5%	4.1%	6.7%	4.9%	7.5%	7.3%	3.7%	1.3%	
	2015	7.5%	6.6%	4.8%	7.4%	1.3%	2.3%	5.8%	7.1%	6.0%	5.3%	N/A	N/A	
	2013 Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
	2015 Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	N/A	N/A	

MONTHLY CONSUMPTION REPORT

City of Beverly Hills Water Accounts, Volume Consumed and Percent Reduced

Table 3, below, details the total volume of consumption per month for all accounts where the City of Beverly Hills is a customer, comparing the current year to a 2013 baseline. The percent change is calculated to show increases or decreases in consumption per account type. A negative percentage indicates a reduction in consumption whereas a positive percentage would indicate an increase. Volume is represented in acre feet units.

Table 3, Accounts Where City of Beverly Hills is a Customer

		<i>Water Consumption by Account Type</i>											Units: AF	Prepared: 2/4/2016
Accounts	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct**	Nov*	Dec*	
City of Beverly Hills	2013	17.0	19.0	27.6	31.2	32.3	33.7	37.3	38.9	35.9	32.2	24.7	21.9	
Accounts	2015	14.9	15.2	18.7	19.5	19.1	17.9	19.9	20.7	19.4	19.7	15.0	13.4	
	% Change	-12%	-20%	-32%	-37%	-41%	-47%	-47%	-47%	-46%	-39%	-39%	-39%	

* November and December estimates are currently determined using data from live meter reads whereas data for January through October is determined using billing data for completed billing cycles. Once all cycles have completed, these estimates will be updated to reflect billing data only. As the data source is updated, these estimates are also subject to variation.

** The most recent billing data pulled February 4, 2016 shows additional October 2015 consumption not captured in the January 2016 Water Consumption Update. The January update showed 16.4 AF in October, this report has updated the October estimate to 19.7 AF.

MONTHLY CONSUMPTION REPORT

Total Water Consumption, Purchased and Produced

Table 3, below, summarizes total consumption since January of 2013. Column 3, Percent Change Compared to Same Month 2013, compares 2015 consumption data to a 2013 baseline. Negative percentages represent a reduction in consumption whereas positive percentages represent an increase. Volume is represented in acre feet.

Table 3, Water Consumption Summary

Date	Consumption (Acre Feet)	Percent Change Compared to Same Month 2013	Residential Gallons Per Day Per Capita
13-Jan	862.2		161.2
13-Feb	762.9		158
13-Mar	932.4		174.4
13-Apr	969.3		187.3
13-May	1047.3		185.4
13-Jun	1077.4		208.2
13-Jul	1185.5		221.7
13-Aug	1184.4		221.5
13-Sep	1156		223.4
13-Oct	1101.5		206
13-Nov	939.2		181.5
13-Dec	888.6		166.2
14-Jan	1010.1		188.9
14-Feb	794.9		164.6
14-Mar	850.8		159.1
14-Apr	987.5		190.8
14-May	1183.1		209.4
14-Jun	1112.7		203.5
14-Jul	1210.6		214.3
14-Aug	1169.6		207.1
14-Sep	1121		205.1
14-Oct	1085.2		192.1
14-Nov	910.5		166.6
14-Dec	687.2		121.6
15-Jan	806	-6.52%	142.7
15-Feb	782	2.50%	153.3
15-Mar	895.9	-3.91%	158.6
15-Apr	920.8	-5.00%	154.2
15-May	869.6	-16.97%	140.9
15-Jun	841.7	-21.88%	147.5
15-Jul	929	-21.64%	157.5
15-Aug	976.6	-17.54%	163.1
15-Sep	918.5	-20.54%	160.9
15-Oct	897.4	-18.53%	152.2
15-Nov	814.7	-13.26%	146.9
15-Dec	779.3	-12.30%	155.4



CITY OF BEVERLY HILLS

PUBLIC WORKS SERVICES DEPARTMENT

MEMORANDUM

TO: PUBLIC WORKS COMMISSION

FROM: Josette Descalzo, Environmental Compliance & Sustainability JD
Manager

DATE: February 11, 2016

SUBJECT: Monthly Report – Water Conservation Program (Education & Inspections)

ATTACHMENTS: 1. Map

Attached is the monthly report (map) of watering violation cases managed by Public Works Services for the month of January. In January, water conservation enforcement transitioned from Community Development (Code Enforcement) back to Public Works Services. There were a total of 9 water conservation cases and 1 resulting in the issuance of a Notice of Violation (NOV). The number of written warnings is minimal during this time because there were staff, coverage and strategy changes in the program. From here on forward, water conservation enforcement will focus its efforts in evaluating the highest water users and properties that have large potential leaks. Water customers that are identified will be subject to educational outreach visit(s) and given guidelines to achieve their conservation goal of at least 30%.

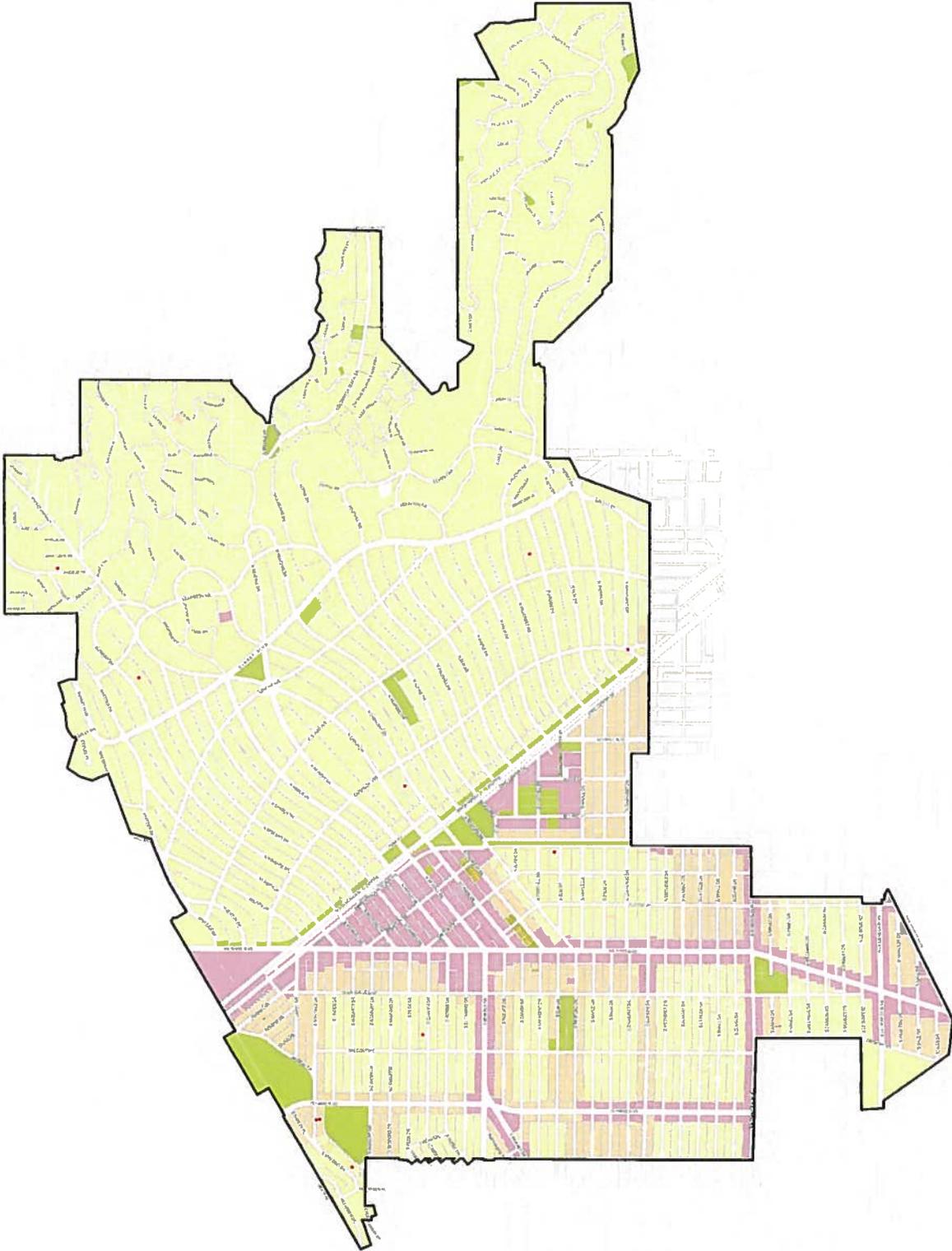
During this transitional month, Public Works Services hired a retired Beverly Hills police officer on a part-time schedule to be the enforcement officer. The enforcement officer will continue to enforce outdoor watering use (i.e. watering schedule, building and vehicle washing restrictions, leaks, etc.) and will issue a Notice of Violation for non-compliance. Please note that a NOV is pre-requisite to the issuance of a criminal misdemeanor citation (used for continued violations). The enforcement officer will continue to monitor the entire City for all outdoor watering violations, especially the high water use areas.

In addition, the department also hired a Water Conservation Administrator. The Water Conservation Administrator started on January 20, 2016 and has conducted 3 site visits to some of the highest water users and communicated with 5 large potential leak customers. The Water Conservation Administrator will review the highest water user list, evaluate it and schedule site visits for consultation. The site visit includes water use evaluation, investigate potential water leaks and provide additional water conservation guidelines to achieve their conservation target

For proceeding months, the enforcement team will report enforcement activities and also the number of water conservation site visits.



JANUARY 2016 WATER ENFORCEMENT MAP



- JANUARY_WARNINGS
- APARTMENT
- COMMERCIAL
- MIXED USE
- MULTI FAMILY DWELLING
- PUBLIC
- SINGLE FAMILY DWELLING

