

RESOLUTION NO. 17-__

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE
MOULTON NIGUEL WATER DISTRICT
HONORING THE MISSION VIEJO COUNTRY CLUB ON ITS 50TH ANNIVERSARY**

WHEREAS, the Mission Viejo Country Club (MVCC) is one of the first and largest recycled water customers served by the Moulton Niguel Water District and has been a pioneer and partner in water reuse programs and water use efficiency since the late 1960s; and

WHEREAS, MVCC has successfully implemented a Turf Removal Program that not only reduces water consumption by an estimated 10,000,000 gallons per year, but included the introduction of drought-tolerant and native vegetation that protects the environment and the golf course; and

WHEREAS, MVCC has partnered with Moulton Niguel Water District on multiple occasions to allow for the maintenance and improvement of the water, recycled water and wastewater infrastructure within the golf course that serves the community surrounding the MVCC; and

WHEREAS, MVCC has made thoughtful agronomic choices to implement grasses that provide an excellent playing surface for its members while also supporting the application of recycled water or other water reuse supplies for the long-term water supply benefit of the entire community; and

WHEREAS, MVCC has invested in a sophisticated irrigation delivery system that allows water management choices with multiple mutual benefits for both the MVCC and Moulton Niguel Water District; and

WHEREAS, MVCC serves as a significant, natural open space bio-filter for water quality runoff mitigation that provide both direct and indirect benefits to the watershed and water quality; and

WHEREAS, MVCC has been participating for more than 50 years with Moulton Niguel Water District in advanced water supply and water quality planning for the long-term benefit and enhancement of the community.

NOW, THEREFORE, let it be known that the Moulton Niguel Water District, its Board of Directors, and Staff, not only congratulates Mission Viejo Country Club on the occasion of its 50th Anniversary, but also looks forward to continuing our partnership in enriching the value of our community through innovative and cooperative water resource planning for the next 50 years, and for many foreseeable Anniversaries into the future.

ADOPTED, SIGNED and APPROVED this 18th day of September, 2017.

MOULTON NIGUEL WATER DISTRICT

President
MOULTON NIGUEL WATER DISTRICT
and of the Board of Directors thereof

Secretary
MOULTON NIGUEL WATER DISTRICT
and of the Board of Directors thereof



moulton niguel water district

Water Loss Reporting Requirement

Engineering and Operations Board
Meeting
September 18, 2017

Background

- Initiated Water Loss Audit Process in 2014
- Annually update water loss audit
- Initiated water loss control pilots
- SB 555 requires each water agency to report Oct. 1, 2017

WATER BALANCE - FY2014/15

WATER SUPPLIED 26,819 AF (100 %)	AUTHORIZED CONSUMPTION 24,936 AF (93.0 %)	BILLED AUTHORIZED CONSUMPTION 24,910 AF (92.9 %)	REVENUE WATER 24,909AF (92.9 %)
		UNBILLED AUTHORIZED CONSUMPTION 27 AF (0.1 %)	NON-REVENUE WATER 1,909 AF (7.1 %)
	WATER LOSSES 1,883 AF (7.0 %)	APPARENT LOSSES 182 AF (0.7 %)	
		REAL LOSSES 1,701 AF (6.3 %)	



WATER BALANCE - FY2015/16

WATER SUPPLIED 23,516 AF (100 %)	AUTHORIZED CONSUMPTION 21,467 AF (91.3 %)	BILLED AUTHORIZED CONSUMPTION 21,438 AF (91.2 %)	REVENUE WATER 21,438 AF (91.3 %)
		UNBILLED AUTHORIZED CONSUMPTION 30 AF (0.1 %)	
	WATER LOSSES 2,049 AF (8.7 %)	APPARENT LOSSES 203 AF (0.9 %)	NON-REVENUE WATER 2,079 AF (8.8 %)
		REAL LOSSES 1,846 AF (7.8 %)	



WATER BALANCE - FY2016/17

WATER SUPPLIED 23,978 AF (100 %)	AUTHORIZED CONSUMPTION 21,511 AF (89.7 %)	BILLED AUTHORIZED CONSUMPTION 21,482 AF (89.6 %)	REVENUE WATER 21,481 AF (89.6 %)
		UNBILLED AUTHORIZED CONSUMPTION 29 AF (0.1 %)	
	WATER LOSSES 2,467 AF (10.3 %)	APPARENT LOSSES 205 AF (0.9 %)	NON-REVENUE WATER 2,496 AF (10.4 %)
		REAL LOSSES 2,262 AF (9.4 %)	



DISTRICT METERED AREA (DMA) PILOT

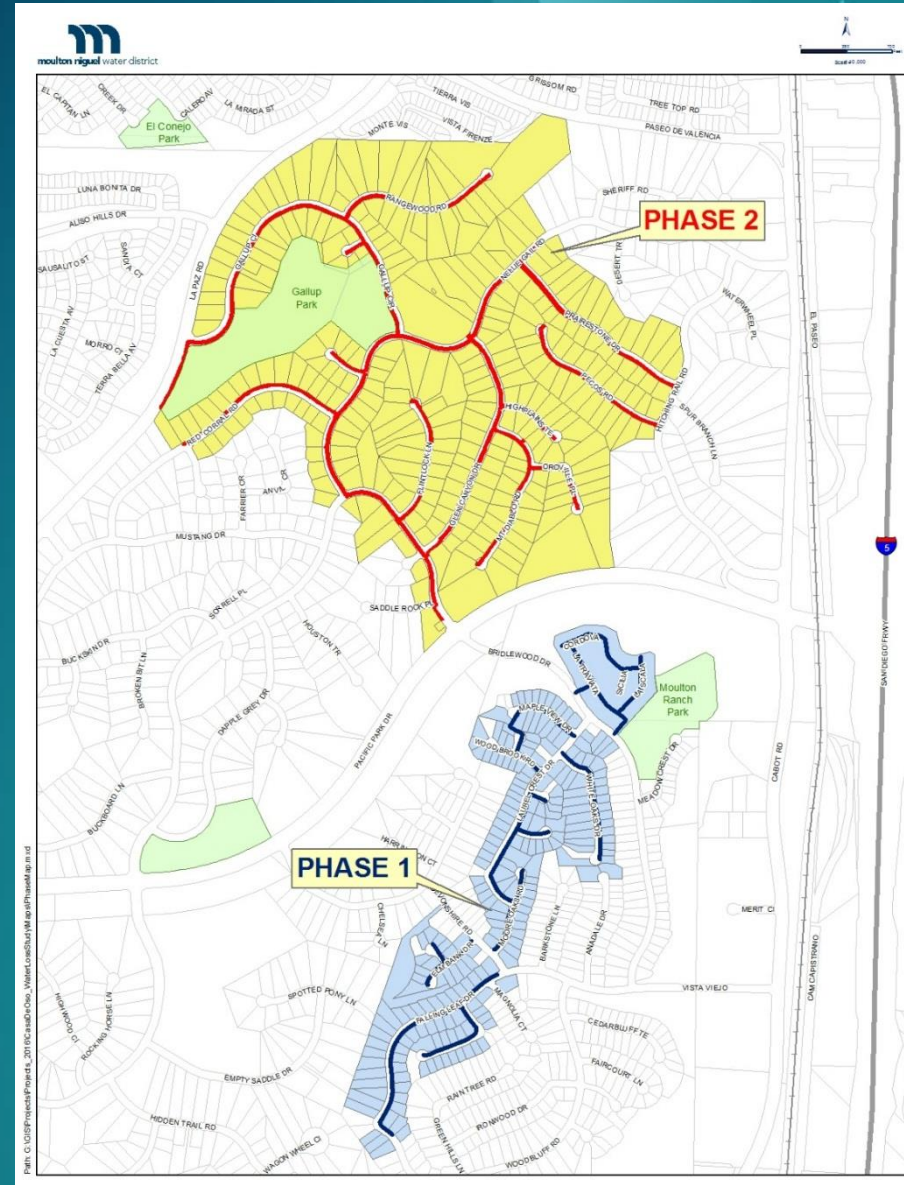
- Definition of District Metered Area - A discrete area of a distribution system usually created by the closure of valves or complete disconnection of pipe work in which the quantities of water entering and leaving the area are monitored.

Goals of the DMA Pilot

- Evaluate leak detection program to reduce water loss
- Evaluate pressure optimization to reduce water loss

STEPS IN THE PILOT

- Multi-Departmental Collaboration
- Site Selection
- AMI Metering & New 10" Meter
- Gather System Attributes
- Collect Meter Data
- Measure Water Loss
- Pressure Optimization



Summary

- Ahead of the curve in monitoring water loss
- Developing water loss control practices & programs
 - Phased
 - Manageable
- Reporting FY 16/17 Water Loss data to DWR by October 1, 2017

