# Neighborhood Council Day LASAN at your Service

February 20, 2016





# Agenda

9:15am-9:45am Opening Remarks – Enrique Zaldivar

9:45am-10:15am Q & A – Enrique Zaldivar

10:15am-10:30am Watershed Protection through Low Impact

Development – Adel Hagekhalil

10:30am-10:45am Recycled Water – Traci Minamide

10:45am-11am Customer Care Center – Alex Helou

11am-11:15am Clean Streets LA – Leo Martinez

11:15am-12pm Comments/Questions/Suggestions

12pm-1:30pm Box Lunches and Closing Remarks (upstairs)





# Los Angeles as a Sustainable City





#### CLEAN WATER • HEALTHY NEIGHBORHOODS • SUSTAINABLE CITY



**OUR MISSION:** 









Solid resources collection, recycling, conversion and disposal

Wastewater collection, conveyance, treatment, discharge and reuse

Receiving water pollution prevention



#### Mayors Executive Directives For Sustainability

- Executive Directive No. 1: Great Streets Initiative (Oct 2013)
- Executive Directive No. 5: Emergency Drought Response - Creating a Water Wise City (Oct 2014)
- Executive Directive No. 7: Sustainable City pLAn (April 2015)
- Executive Directive No. 8: Clean Streets Initiative (April 2015)





Zero Waste



Reduce Water Supply – Increased Stormwater Capture







#### Overview

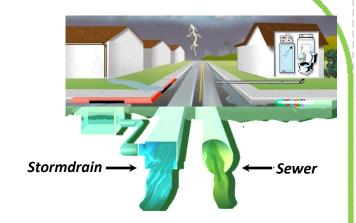
#### **Watershed Protection Program (Stormwater)**

- Program Overview
- Flood Protection / El Nino Preparation
- Enforcement & Clean ups
- Low Impact Development (Private Development)
- Enhanced Watershed Management Plans (EWMP's)
- Blue Green Strategy



## Vatershed Protection Program

- Separate storm drain system storm drains flow directly to the ocean.
- City's storm drain system
  - 1,200 miles of pipes
  - 100 miles of open channels
  - 136 debris basins
  - 39,451 catch basins
  - 18 stormwater pump plants
- Managed by City, County, USACE & Caltrans
- City Contributes:
  - 63% to LA River
  - 23 % to Ballona Creek
  - 9% to Santa Monica Bay
  - 5% to Dominguez Channel









#### Watershed Protection Program

- Improve water quality
- Capture rainwater for use and groundwater recharge
- Reduce flooding
- Provide open space for habitat and recreation



Sources of untapped water...

Stormwater:

♦ Average 15-in of rainfall annually

Wastewater: 300 MG/day goes to the ocean

**Groundwater: BG of water (contaminated)** 



#### Flood Protection – El Nino Preparation

- Catch Basin Cleaning
  - 40,000 catch basins cleaned annually.
  - Additional catch basin cleaning in areas historically prone to flooding.
  - Crews on site in high potential areas of flooding.
  - 24 hour hotline: 1-800-773-2489
- Cleaned 500 catch basins a day:
  - As of Feb 5<sup>th</sup>, 2016: 68,000 catch basins have been cleaned.



**El Nino Los Angeles** 

http://www.elninola.com

Sign up for alerts from the City of Los Angeles - Emergency Management4agemen



#### **Environmental Enforcement & Clean up**

Responsible for the enforcement of applicable provisions of law related to the control of discharges and the contribution of pollutants that could <u>potentially</u> affect the storm drain system, the environment, and public health and safety.







- Environmental Crimes Investigations
  - Illegal dumping of pollutants, hazardous materials and waste
  - Illicit discharges and connections
- Emergency Response
  - Emergency Response to spills and clean ups



- 3-1-1
- 1-800-974-9794
- MyLA311 (app)





#### **Operation Healthy Streets**

May 2012 – LA County Department of Public Health notified the City of health hazard concerns within the skid row area.

- Coordination with multi agencies to conduct routine cleaning.
  - Monthly spot cleanings on 2<sup>nd</sup> Wednesday of Month
  - Quarterly Comprehensive Cleanings

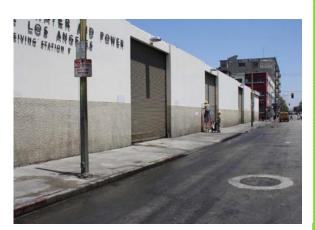




Unclaimed property taken to temporary storage



5th St Before



5<sup>th</sup> St After



LID Ordinance Adopted: Nov 11, 2011

LID Ordinance Effective: May 12, 2012

#### Requirements:

• Expanded on the existing Standard Urban Mitigation Plan (SUSMP) requirements of capturing the first ¾ - inch storm event by incorporating LID Practices and standards on private development.

#### Residential (4 units or less):

Projects must chose from prescriptive list of BMPs

#### All other developments (commercial, industrial, etc.):

- Similar to SUSMP Requirements
- Majority of projects implementing SUSMP would satisfy LID requirements

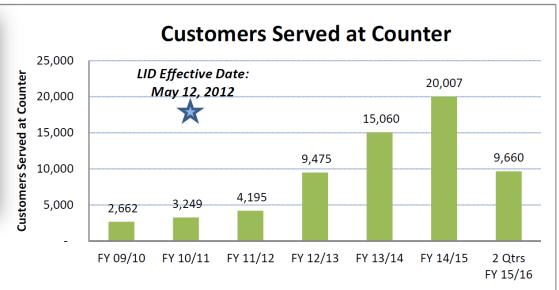


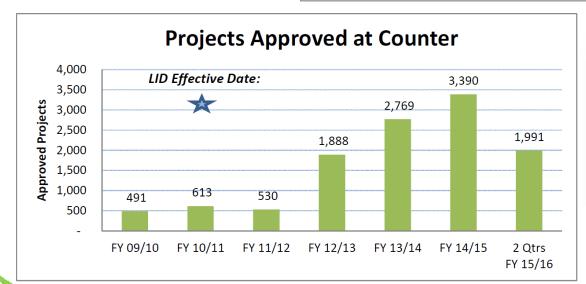


LASAN Plan Check Public Counter at Building and Safety













**Residential Development** (less than 4 units)

- **Prescriptive Methods** 
  - Sizing based on development size







Rain Barrels and Rain Tanks



**Dry Wells & Infiltration Trenches** 

Roof Area Tributary to Planter Boxes(sq.ft.)	Total Surface Area of Planter(s) (sq.ft.)
500 - 1,000	32
1,001 - 1,500	52
1,501 - 2,000	108
2,001 - 2,500*	168

\* Projects adding roof or impervious areas in excess of 2,500 sq. ft. shall add 20 sq. ft. of planter box surface area per every 500 sq. ft. of additional area.



Permeable Paving (w/1' - 2' sub base)









Flow thru Planters

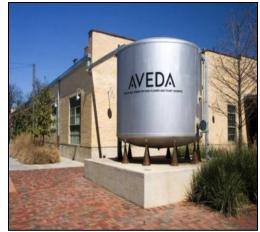


#### All Other Developments (commercial, industrial, etc.)

- Must mitigate volume generated from 85<sup>th</sup> percentile storm event
- Maximize each option in priority order.

#### Road To Compliance ...







#### **Infiltration**

- Infiltration Trenches
- Infiltration Basins
- Dry Wells
- Permeable Pavement
- Underground Detention Chambers

#### **Capture and Use**

- Cisterns
- Rain Tanks

#### High Efficiency Bio-filtration

- Biofiltration (Flow thru Planters)
- Bioinfiltration
- Vegetated Swales



# Enhanced Watershed Management Plans (EWMPs)

Compliance pathway in the MS4 Permit to leverage and facilitate a robust, comprehensive approach to stormwater management while addressing the priority water quality conditions.

Municipalities, non-governmental organizations and community stakeholders throughout the County of Los Angeles are working collaboratively:

- Upper LA River
- Ballona Creek
- Santa Monica Bay
- Dominguez Channel
- Marina Del Rey

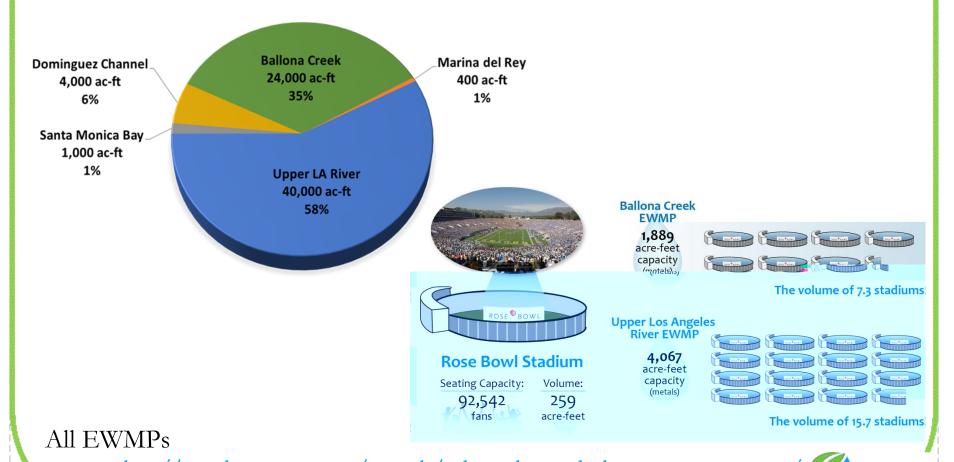




# Enhanced Watershed Management Plans (EWMPs)

Average stormwater capture: ~70,000 ac-ft per year

Equivalent to annual potable water use by 625,000 people\*



http://www.lastormwater.org/green-la/enhanced-watershed-management-program/

\*assuming residential use of 100 gal per person per day

#### **Enhanced Watershed Management Plans**

Road to Compliance (EWMPs)
"Green Blue Strategy"

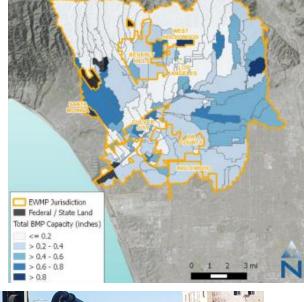
- Regional Projects
  - Large upstream areas
- Distributed Projects
  - Green Streets
  - Parcel level (via LID Ordinance)
- Institutional Measures
  - Public Outreach / Street Sweeping



Regional Projects Edward Vincent Jr. Park



Distributed Projects
Green Streets and on site BMPs





Institutional Measures (Public outreach & good house keeping activities)



## Regional Stormwater Capture

#### Rory M. Shaw Wetlands Park





Before

After

#### **Penmar Water Quality Improvement**





# Regional Stormwater Capture





Construction

After

**Argo Drain Sub-basin Facility Project (LAX)** 







## Green Streets, Alleys & Greenways

**Avalon Green Alley Project** 





#### **Broadway Neighborhood Greenway**

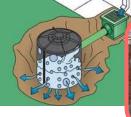


Construction













#### **Laurel Canyon Boulevard Green Street Project**





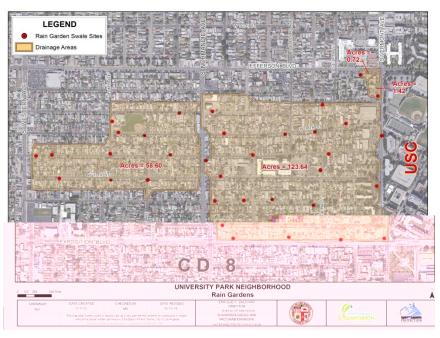
#### Laurel Canyon Boulevard Green Street Project

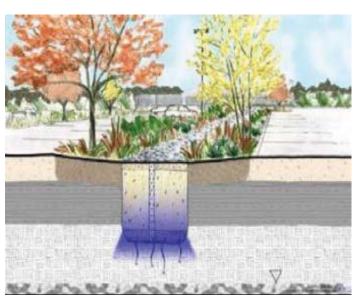




#### **University Park Neighborhood Rain Gardens**

- > 35 Rain Gardens (4' width by 50' long by 3' depth)
- One unit of Rain Gardens at \$10,000
- Cost estimated at \$600,000(in-kind services \$90,000 and Prop 84 Grant Funding \$510,000)
- Project schedule will be approximately 2 years









# LASAN Recycled Water Program

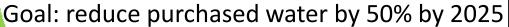


# Developing Our Local Water Resources

April 2014

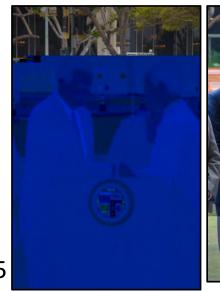
Mayor's Executive Directive #5
Emergency Drought Response
Creating a Water Wise City





Goal: 50% of water demand locally sourced by









Background

# Wastewater Collection System

- Hyperion Service Area
  - Tillman WRP
  - Los Angeles-Glendale WRP
- Terminal Island Service Area

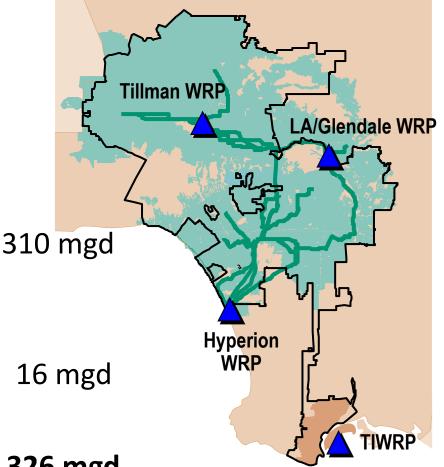
16 mgd

**TOTAL WW Treated** (FY 14/15)

**326 mgd** 

(incldg 50 mgd from contract agencies)

..A resource not a waste!





# **Current Recycled Water Production**

Plant	Quantity Beneficially Used (mgd)	Beneficial Uses
Tillman WRP	34	In-plant use, landscape irrigation, industrial uses, recreational lakes, LA River
Los Angeles- Glendale WRP	14	In-plant use, landscape irrigation, industrial uses, LA River
Terminal Island WRP	6	In-plant use, sea water intrusion barrier
Hyperion WRP	45	In-plant use, feedwater for recycling
TOTAL	98	

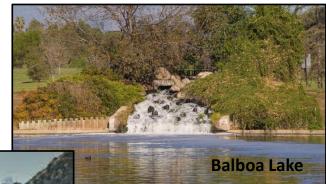
30% of the wastewater treated is recycled and beneficially used

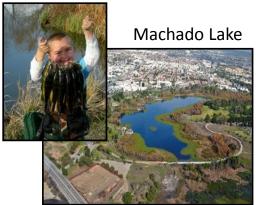


# **Recycled Water Uses**





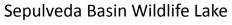
















Japanese Garden

## Planned Recycled Water Production

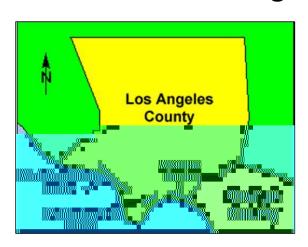
Plant	Additional Planned (mgd)	Water Quality	Beneficial Uses
Tillman WRP	35	Advanced	Groundwater Recharge at Hansen and Pacoima Spreading Grounds
Los Angeles- Glendale WRP	2	Tertiary	In-plant use, landscape irrigation, industrial uses, LA River
Terminal Island WRP	6	Advanced	Dominguez Gap, Machado Lake, industrial uses
Hyperion WRP	50	Tertiary and Advanced	LAWA, neighboring cities, industrial use, feedwater for recycling
TOTAL	93		98 current + 93 planned = 191 mgd

Under current plans, 70% of the wastewater treated will be recycled and beneficially used

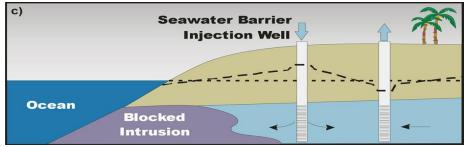
## **Terminal Island AWPF**

 Current capacity 6 mgd advanced treated water

 Injected as sea water intrusion barrier into Dominguez Gap









# **Terminal Island AWPF Expansion**

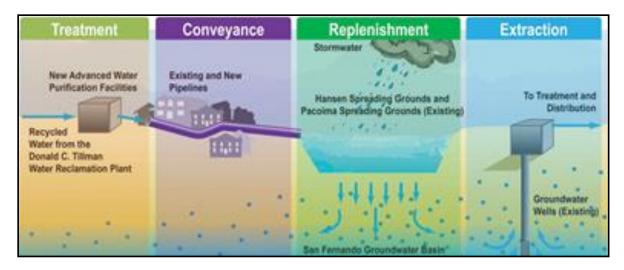
- Expansion adds another 6 mgd of advanced treatment
- Total 12 mgd all influent flow
- Equivalent of water needed to serve San Pedro and Wilmington areas
- Scheduled completion end of 2016
- Users include
  - Dominquez Gap
  - Machado Lake
  - Refineries
  - Other industries (Praxair, etc.)





# Tillman AWPF Groundwater Recharge Project

- 35 mgd advanced water purification facility
- Extension of existing treatment at TWRP
- Groundwater recharge at Hansen and Pacoima Spreading Grounds
- Online 2022





# **DCT AWPF Pilot Project**

D.C. TILLMAN ADVANCED WATER PURIFICATION PILOT PROJECT

#### Diversify

Develop a local drought resistent water source through potable reuse to maintain a reliable and resilient water supply in Los Angeles.

# GOALS

#### Protect

Design a potable reuse treatment train that optimizes costs and enhances reliability while meeting all regulatory requirements to protect public health and safety.

#### in nov Ate

Evaluate alternative technologies and treatment approaches increase overall water recovery, validate performance, reduce costs, and plan for the future.

#### AccelerAte

Accelerate the full-scale project schedule to urgently, but deliberately, replenish the water supply and address future uncertainties related to climate change.



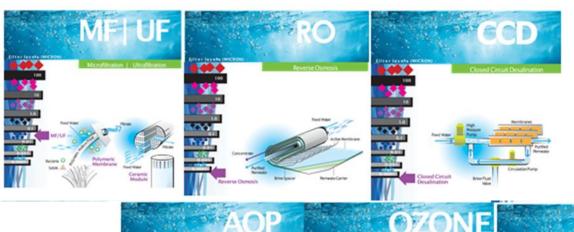


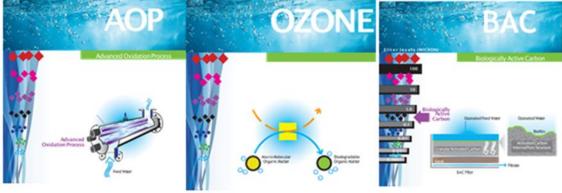




## **DCT AWPF Pilot Project**

 Pilot objectives: determine treatment methods that will meet all groundwater recharge regulations while optimizing project cost

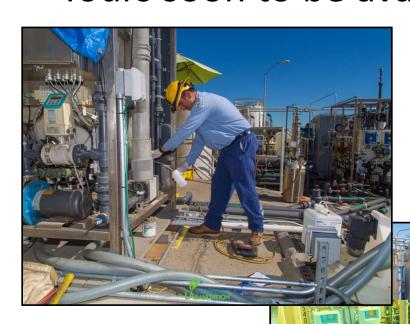






## **DCT AWPF Pilot Project**

- Pilot up and running February 2016
- Tours soon to be available









### **Hyperion Water Reclamation Plant**

- Recycled water plans for LA Airport and neighboring cities
- Analysis of treatment technologies for higher level water quality
- Pilot/demonstration plant plans
- Hyperion regional reuse study

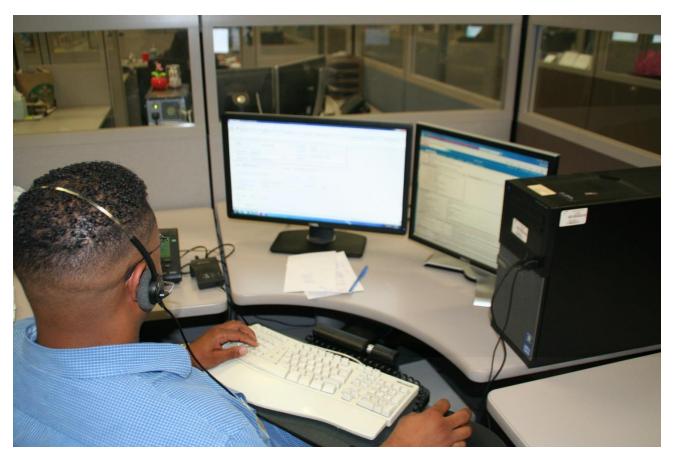








### **Customer Care Center**





#### Which of these are serviced by LA Sanitation?

#1



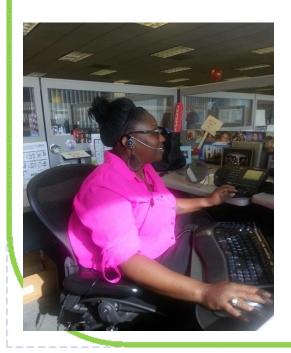


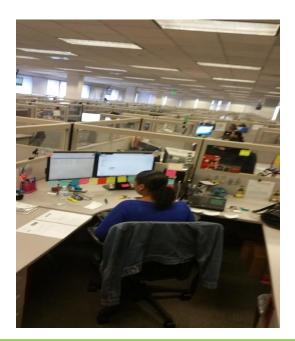
**#2** Griffith Park Observatory

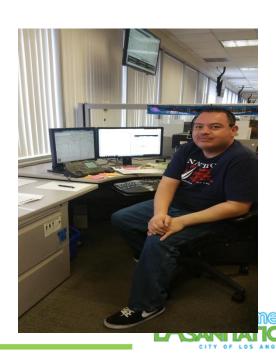
#3 LAX

#### **Customer Care Center**

- A centralized communication center for LA Sanitation
- One stop request and information hub
- Provides billing explanation
- Provides general information regarding other City of Los Angeles services







# Open 24 hours a day, 7 days a week to take service requests

#### We assist residents with

- Refuse, and Recycling Collection and missed Pick-up
- Bulky Item Pick Up
- Illegal Dumping
- Container Services- Trash Bin Repairs/ Replacements
- Brush Collection
- Dead Animal Collection
- Sewer Service Charge
- Flooding Calls during storms



## **How Service Requests are Taken**

- Dial <u>1-800-773-2489</u>
- Use our online form at <u>www.lacitysan.org</u>
- Download the MyLA 311 app



# What is considered a "bulky-item" for collection?

- Household items that do not fit into city supplied collection carts.
- Bulky-items are classified as:
  - white goods household appliances including water heater.
  - furniture coaches, chairs, tables, mattresses, box springs, etc.
  - wood fences, tables, chairs, doors, etc.
  - miscellaneous wood pieces of lumber
  - plastics strollers, toys, fans, etc.
  - metals bed frames, metal furniture, etc.
  - miscellaneous carpet, rugs, textile, etc.



- -Bulky items are collected by LASAN staff upon receiving requests from apartment owners or tenants.
- -This service helps to reduce bulky items on the City streets, alleys, or parkways.



Before



After



#### **Customer Care Center Facts**

- Over 800,000 service requests annually
- Current average wait time less than 1 min
- Most requested services are bulky items collection



### Free Mulch Material

Available free at 11 locations around the City!

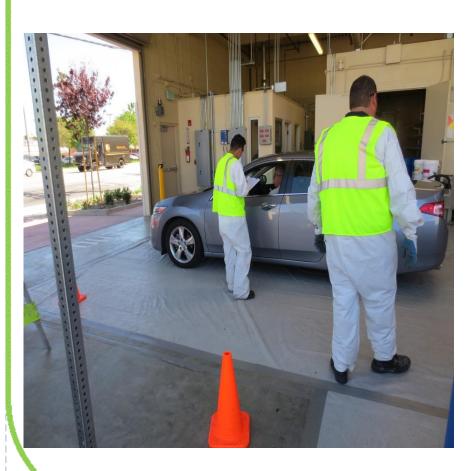




# Free Used Oil and HHW Collection Events



# Seven Permanent HHW Centers







## **6 Annual Open House Events**



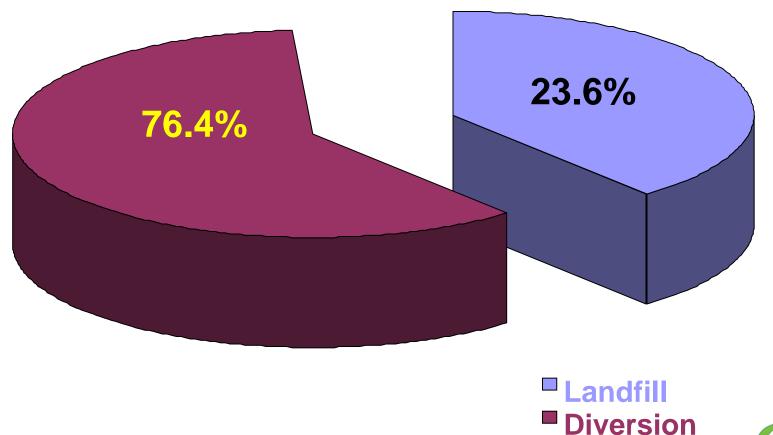








## Municipal Solid Waste Management





## **Clean Fuel**







#### **Clean Streets LA**

"Everyone who lives, works, and visits here in LA should enjoy clean streets that are free from litter and debris. Our quality of life, our economic prosperity, and our health are all tied to the cleanliness of our streets, sidewalks, alleys, and other public spaces."

> ~ Mayor Eric Garcetti April 23, 2015



#### **Executive Directive No. 8**

LA Sanitation is the lead agency responsible for implementation

#### **Key Objectives:**

- Recruit, train, and deploy a 3<sup>rd</sup> strike team to target highly impacted areas
- Develop a street-by-street cleanliness assessment system
- Annually deploy 1250 city-owned trash receptacles maintained by LASAN over the next several years until we reach 5000
- Identify all public trash receptacles (including those not serviced by the City) and devise a plan to service all of them regularly



## **Street Indexing**

- Methodically analyze the City and conduct a street-by-street cleanliness assessment, with a rating system
- Identify necessary resources to address and prioritize areas of need and service plan
- Program currently in development



#### Litter



#### **Illegal Dumping**



#### **Homeless Encampments**



**Bulky Items** 



### A few numbers...

- On average, we receive nearly 1,900 daily requests for bulky item collection.
- Our Customer Care Center answered nearly 57,000 calls for service in the last month.
- 620 locations will be cleaned by April 30, 2016, not including current requests coming in daily. 85% are homeless encampments.
- 253 of these 620 locations were reported to LASAN in the last 30 days.
- In January 2016, strike teams collected 821 tons of waste (85% of this was illegal dumping).



## **3 Strike Teams**

Highly-coordinated team of skilled LA Sanitation workers tasked with highly intensive cleanings outside of normal daily service.

Focus is homeless encampments, alley cleanings, large illegal dumpings and abandoned waste.



Clean-up schedules are prioritized in conjunction with Council Offices and LAPD



## Trash Receptacles

LA Sanitation - 1,440
Adopt A Basket -725
JC/ Deceaux - 1,846
Martin Outdoor Media - 2,097
Business Improvement Districts - 875
Total- 6,983

- Receptacles geocoded & databased
- Developing plan to take over servicing of all
- Identifying deployment for 5000 new receptacles









When complete, LA will have 12,000 public trash receptacles!



### What can Neighborhood Councils do?

#### **Proactive**

- Schedule bulky item collection free of charge
- Coordinate community clean-ups
- Educate friends & neighbors about available free services
- Share our hotline and app on social media and

websites

#### Reactive

- Take photos, upload to MyLA311 app
- Call Customer Care Center 24/7 to report all cleanliness issues





## **THANK YOU!**

24-hour Customer Care Center 1-800-773-2489

Or dial 3-1-1









www.lacitysan.org

