

BUILDING KNOWLEDGE BUILDING POWER

ENSURING THE HUMAN RIGHT TO CLEAN WATER

Tuesday December 10, 2019

Presented By:





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Graphics by : theworksLA

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AGENDA

TUESDAY 12/10, 8:30 - 4:30

Time Activity	
8:30 - 9:00AM Breakfast, Registration	
9:00 - 9:15AM Opening Session	
9:15 - 9:30AM Icebreaker	
9:30 - 10:10AM Drinking Water And Suppy Sources	
10:10 - 10:20AM Introduction To The Social Forces Analysis	
10:20 - 10:30AM Break	
10:30 - 11:30AM Water And Health	
11:40 - 12:00PM Who Delivers My Drinking Water?	
12:00 - 12:30PM Mapping My Water Utility	
12:30 - 1:15PM Lunch	
1:15 - 1:30PM Morning Takeaways	
1:30 - 2:00PM Who Regulates My Drinking Water?	
2:00 - 2:15PM Where Are The Public And Private Water System	s?
2:15 - 2:30PM Break	
2:30 - 3:00PM Green Infrastructure For Drinking Water	
3:00 - 3:30PM Funding Sources for Green Infrastructure	
3:30 - 4:00PM Social Forces Mapping and Next Steps	
4:00 - 4:30PM Evaulation and Thanks!	

OVERARCHING GOAL:

Support and build community driven change to clean our drinking water and protect our health, through organizing, education and advocacy for South LA and Southeast LA.

- Create a social forces analysis for Drinking Water Systems & strategic next steps.
- Describe & analyze the regulatory mechanisms we can use to improve our drinking water and its quality and sustainability.
- Discuss funding sources to clean and protect our local water systems.
- Create next steps to clean our drinking water with our respective communities and stakeholders.

OBJECTIVES

DRINKING WATER, IT'S SOURCES



- The Water Cycle
- Explain water pollution and how it causes a shortage of drinking water
- What is Groundwater/the Water Cycle basics:
 - How does groundwater get contaminated
 - Ground water recharge and current challenges
 - How does Groundwater get to our faucets and showers

WATER AND HEALTH

- Understand the health impacts of contaminated drinking water
- Understand how those impacts affect both adults and children
- Understand the cumulative impacts of contaminants in Southeast LA and South LA
- Discuss the top 5 regional contaminants and specifically local toxics in water

REGULATORY FRAMEWORK AND DRINKING WATER

- Describe the public and privately owned water utilities and who regulates them.
- Overview of how, why and when these local water purveyors were created.
- Understand how local water utilities affect our drinking water (public and private)
- Map the agencies should but sometimes don't protect our water systems
- Understand some of the regulations and laws that should protect our drinking water





GREEN INFRASTRUCTURE AND OUR DRINKING WATER

- Green Infrastructure, what is it?
- How can Green infrastructure Improve our drinking water?
- How Green Infrastructure can create jobs and economic benefits for our communities
- Share examples of how small businesses can improve our drinking water
- California Metal X and the Wet Dry Cleaners
 - Take the time here to describe how small businesses can and should be our partners in creating solutions and why Government must invest in making them a greener process



FUNDING SOURCES FOR INVESTING IN GREEN INFRASTRUCTURE TO IMPROVE OUR DRINKING WATER

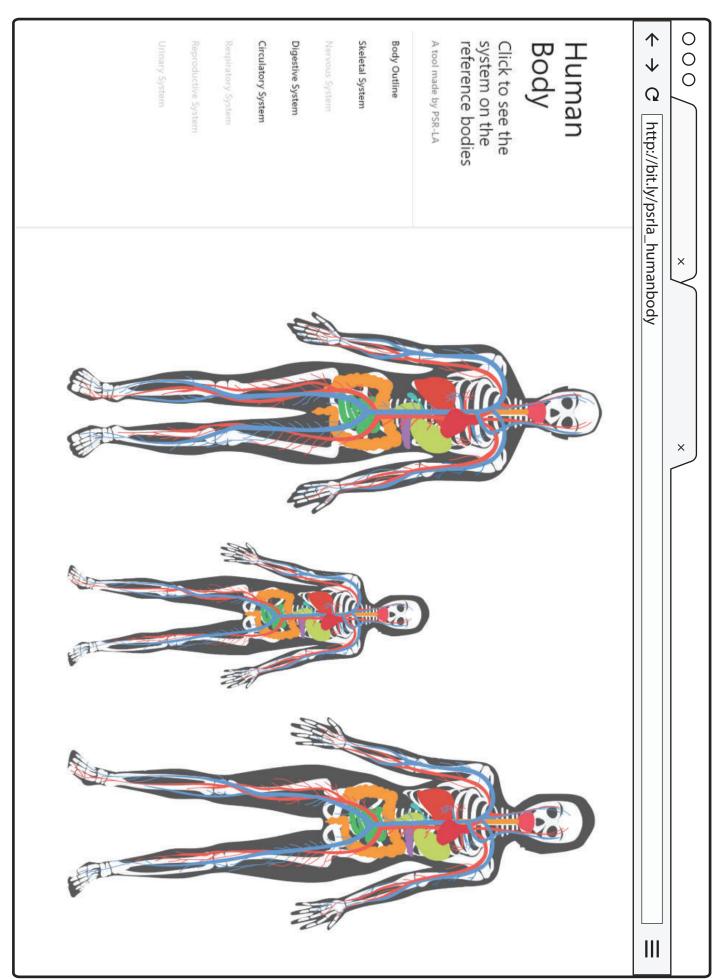
- Why would you advocate for funding of green/clean infrastructure?
- Describe potential funding and capacity building sources
- Identify target funding sources for my community

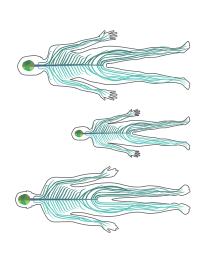


MOBILIZING OUR COMMUNITY NETWORKS TO ACHIEVE OUR GOALS IN THE LONG TERM

- Who will we engage?
- How can we share this or a similar curriculum to engage more of us to clean our water?
- How can I continue to build my strategy and capacity to share this information
- What are our goals? What do we wish to achieve?

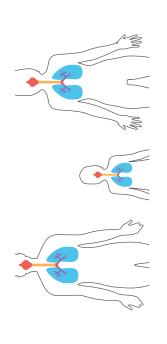






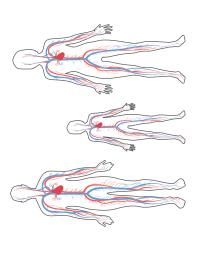
NERVOUS SYSTEM | EL SISTEMA NERVIOSO

BRAIN | CEREBRO SPINAL CORD | MÉDULA ESPINAL



RESPIRATORY SYSTEM | EL SISTEMA RESPIRATORIO

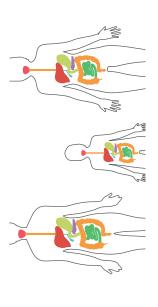
NASEL CAVITY | CAVIDAD NASAL ORAL CAVITY | CAVIDAD ORAL PHARYNX | FARINGE LARYNX | LARINGE TRACHEA | TRÁQUEA BRONCHUS | BRONQUIOS LUNG | PULMÓN



CIRCULATORY SYSTEM | EL SISTEMA CIRCULATORIO JUGULAR VEIN | VENA YUGULAR CAROTID ARTERY | ARTERIA CARÓTIDA HUMERAL ARTERY | ARTERIA HUMERAL HEART | CORAZÓN

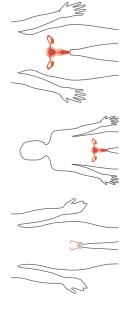
AORTA | ARTERIA AORTA ILLIAC VEIN | VENA ILIACA ILLIAC ARTERY | ARTERIA ILIACA FEMORAL VEIN | VENA FEMORAL FEMORAL ARTERY | ARTERIA FEMORAL

VENA CAVA | VENA CAVA



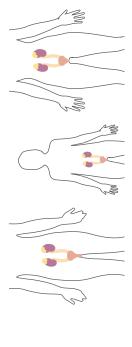
DIGESTIVE SYSTEM | EL SISTEMA DIGESTIVO

LIVER | HÍGADO GALLBLADDER | VESÍCULA BILIAR STOMACH | ESTÓMAGO PANCREAS | PÁNCREAS LARGE INTESTINE | INTESTINO GRUESO SMALL INTESTINE | INTESTINO DELGADO



REPRODUCTIVE SYSTEM | EL SISTEMA REPRODUCTIVO

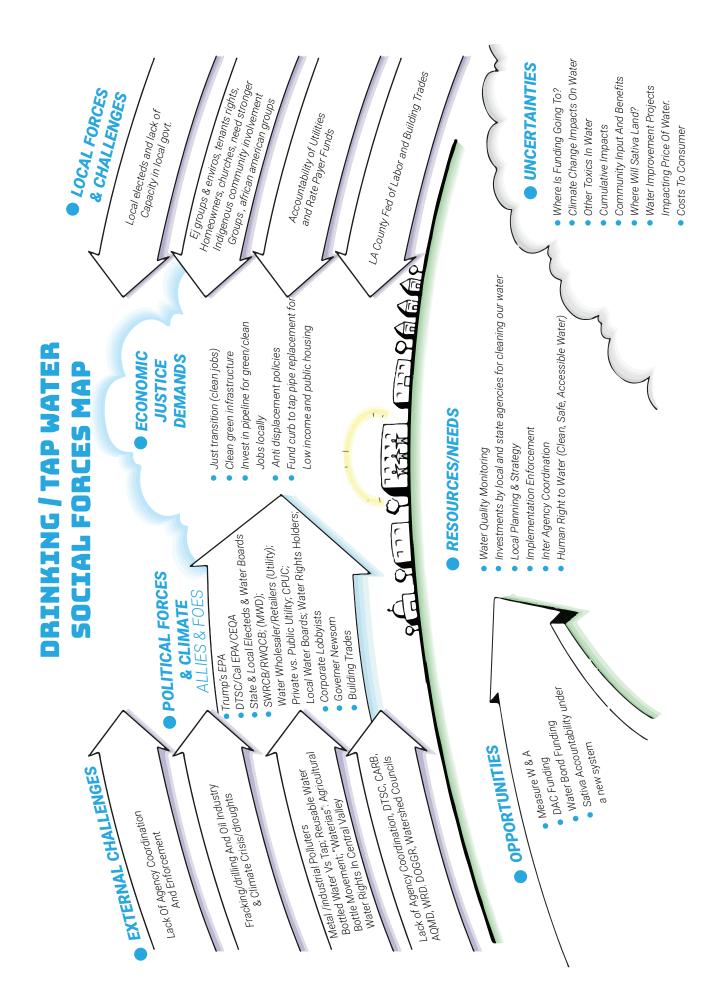
UTERUS | ÚTERO
FALLOPIAN TUBE | TROMPA DE FALOPIO
OVARY | OVARIO
CERVIX | CUELLO UTERINO
VAGINA | VAGINA
PROSTATE GLAND | GLÁNDULA PROSTÁTICA
VAS DEFERENS | CONDUCTO DEFERENTE
TESTIS | TESTICULO
PENIS | PENE



URINARY SYSTEM | EL SISTEMA URINARIO KIDNEY | RIÑÓN URETER | URÉTER BLADDER | VEJIGA URETHRA | URETRA

APPENDIX | APÉNDICE

ANUS | ANO



Context Map Activity : The Grove Consultants International

Southeast Los Angeles Community Water Systems

In Southeast Los Angeles, there are a total of 28 Community Water Systems, 10 Public Water Purveyors and 18 Private Water Purveyors.

Find your water provider: https://trackingcalifornia.org/water/map-viewer?

Find information about your Community Water System:

https://sdwis.waterboards.ca.gov/PDWW/JSP/WaterSystems.jsp?PointOfContactType=none&number=&name=&county=Los%20Angeles

Bell/Bell Gardens

City of Bell Gardens (PUBLIC)

Office: 7100 Garfield Avenue, Bell Gardens, CA 90201.

Participation Opportunities: the Public is invited to attend City Council Meetings on the second and fourth Monday of each month at 6:00PM at 7100 South Garfield Avenue, Bell Gardens, CA 90201. Phone: 562-299-5117, Contact Gabriel Gomez (Water Quality)

Service Area: Northern Bell Gardens, Southern Commerce.

Water Sources: Local Groundwater (80%). The City of Bell Gardens also imports water from the Colorado River and the State Water Project through the Metropolitan Water District.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910108.pdf

- Contaminant MCL Exceedances: None
- Contaminant PHG Exceedances: Arsenic, Radium-228

Golden State Water Company-Bell (PRIVATE)

Office Information: Central Basin West CSA, 7105-D Eastern Ave, Bell Gardens, CA 90201. Hours: 8am-5pm Monday-Friday. Phone: 1-800-999-4033. Email: customerservice@gswater.com

Participation Opportunities: Contact office to be notified of future public meetings

Service Area: Bell, Bell Gardens, Cudahy, Hollydale, Huntington Park, Paramount, South Gate, Vernon, Willowbrook, and adjacent county territory. 20,000 customers.

Water Sources: Local Groundwater, and imported water from the State Water Project, and the Colorado River (Metropolitan Water District of Southern California).

2018 Consumer Confidence Report: www.gswater.com/bellbellgardensccr/

- Contaminant MCL Exceedances: Iron (secondary)
- Contaminant PHG Exceedances: Perchloroethylene

Bellflower

Bellflower Home Garden Water Company (PRIVATE)

Office Information: 17447 Lakewood Boulevard, Bellflower, CA 90706. Phone: 562-531-8586.

Participation Opportunities: Board meetings the first Monday (subject to change) of every month at 6:00pm. Meetings are held at 8761 Ramona Street, Bellflower, CA 90706.

Service Area: Bellflower, CA.

Water Sources: Local Groundwater.

2016 Consumer Confidence Report (Most Recent): https://drinc.ca.gov/ear/CCR/CCR2016CA1910012.pdf

- Contaminant MCL Exceedances: None
- Contaminant PHG Exceedances: Arsenic, Hexavalent Chromium, Uranium, Turbidity (in Distribution System)
- Detected: Calcium, 1,4-Dioxane,

Bellflower Municipal Water System (PRIVATE)

Office: 10016 Flower Street, Bellflower, CA 90706. Phone: 562-925-6174.

Service Area: Bellflower, CA.

Participation Opportunities: City Council meetings are held at 16600 Civic Center Drive, Bellflower, CA every 2nd and 4th Monday of each month at 7:00pm.

Water Sources: Local Groundwater, Bellflower Municipal Water System also purchases water from Liberty Utilities, and Bellflower Somerset Mutual Water Company.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910018.pdf

- Contaminant MCL Exceedances: None
- Contaminant PHG Exceedances: Arsenic, Uranium
- Detected: 1,4-Dioxane

Bellflower Somerset Mutual Water Company (PRIVATE)

Office: 10016 Flower Street, Bellflower, California 90706. Phone: 562-866-9980. Contact: Steve Lenton.

Participation Opportunities: Shareholders and customers are welcome to attend Board meetings at 10016 Flower Street, CA 90706 on every 3rd Monday of the month at 4:30pm.

Service Area: Bellflower, CA.

Water Sources: Local Groundwater, occasionally purchases from Metropolitan Water District of Southern California.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910013.pdf

- Contaminant MCL Exceedances: Manganese (Secondary)
- Contaminant PHG Exceedances: Arsenic, Hexavalent Chromium, Uranium
- Detected: 1,4-Dioxane

<u>Liberty Utilities-Bellflower-Norwalk (PRIVATE)</u>

Office Information: 9750 Washburn Road Downey, Compton, CA 90241. Hours: Monday-Friday 8am-5pm. Phone: 1-800-727-5987.

Participation Opportunities: Contact Office for future events.

Service Area: Bell Gardens, CA

Water Sources: Local Groundwater, and imported water from the State Water Project and the Colorado River (Metropolitan Water District of Southern California).

2018 Consumer Confidence Report:

https://california.libertyutilities.com/uploads/Bellflower_Liberty_CCR%20Template_Final.pdf

- Contaminant MCL Exceedances: Aluminum
- Contaminant PHG Exceedances: Perchloroethylene, Uranium, Fluoride
- Detected: 1,4-Dioxane

Compton

Compton City Water Department (PUBLIC)

Office: 205 South Willowbrook Avenue, Compton, CA 90220. Hours: Monday-Friday 7am-6pm. Phone: 310-605-6250.

Participation Opportunities: The public is invited to attend City Council meetings located at the City Council Chambers, 205 South Willowbrook Avenue, Compton CA 90220. Meetings are held every Tuesday of the month at 6:00pm.

Service Area: Compton, Long Beach, Carson.

Water Sources: Local groundwater, also imports water from the Metropolitan Water District of Southern California (but has not purchased from MWD since 2016)

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910026.pdf

- Contaminant MCL Exceedances: Aluminum (Secondary), Iron (Secondary).
- Contaminant PHG Exceedances: Perchloroethylene, TCE, Aluminum, Arsenic, Gross Alpha, Radium-226, Radium-228, Uranium, Total Coliform Bacteria.
- Detected: 1,4-Dioxane

Golden State Water Company-Southwest (PRIVATE)

Office: Southwest CSA, 1600 W. Redondo Beach Boulevard #101, Gardena, CA 90247. Hours: 8am-5pm Monday-Friday. General Manager Kate Nutting.

Participation Opportunities: Contact office to be notified of future public meetings

Service Area: Gardena and Lawndale, Carson, Compton, El Segundo, Hawthorne, Inglewood, Redondo Beach, Unincorporated Athens, Del Aire, El Camino Village, Lennox and Gardena Heights.

Water Sources: Local Groundwater (from both the West Coast and Central Groundwater Basins). GSWC-Southwest also imports water from the Colorado River and the State Water Project through the Metropolitan Water District of Southern California.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910155.pdf

- Contaminant MCL Exceedances: Aluminum (Secondary)
- Contaminant PHG Exceedances: Arsenic, Fluoride, Gross Alpha, Uranium, Bromate
- Detected: Lead (School Testing)

Liberty Utilities-Compton (PRIVATE)

Office: 9750 Washburn Road, Downey, CA 90241. Hours: Monday-Friday 8am-5pm. Phone: 1-800-727-5987.

Participation Opportunities: Contact office for future events.

Service Area: Compton, Willowbrook, and Lynwood.

Water Sources: Local Groundwater (57%), and imported water from the Colorado River and the State Water Project purchased from the Metropolitan Water District of Southern California (43%).

2018 Consumer Confidence Report:

https://california.libertyutilities.com/uploads/Compton_Liberty_CCR%20Template_Final.pdf

- Contaminant MCL Exceedances: Aluminum (Secondary)
- Contaminant PHG Exceedances: Bromate, Fluoride

Sativa County Water District (PUBLIC)

Office: 2015 East Hatchway Street, Compton, CA 90222. Hours: Monday-Thursday 8a,-5pm. Friday 9am-2pm. Phone: 626-458-4334. Contact: Russ Bryden.

Participation Opportunities: Regular meetings of the Los Angeles County Board of Supervisors are held every Tuesday at 9:30am in the Board's Hearing Room located at 500 West Temple Street, Room 381B, Kenneth Hahn Hall of Administration in Los Angeles. On Tuesdays following a Monday holiday, the meetings begin at 1:00pm.

Service Area: Compton, CA.

Water Sources: Local Groundwater.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910147.pdf

- Contaminant MCL Exceedances: Perchloroethylene, Color (secondary
- Contaminant PHG Exceedances: Perchloroethylene, Arsenic, Gross Alpha, Radium-226, Radium-228, Uranium
- Detected: 1,4-Dioxane.

Cudahy

<u>Tract 180 Mutual Water Company (PRIVATE)</u>

Office: 4544 Florence Avenue, Cudahy, CA 90201. Phone (323)-771-6682.

Participation Opportunities: Public is invited to attend monthly Board meetings on the second Monday of each month at 1:00pm at 4544 Florence Avenue, Cudahy, CA 90201.

Service Area: Cudahy, South Gate, Bell.

Water Sources: Local Groundwater.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910159.pdf

- Contaminant MCL Exceedances: None
- Contaminant PHG Exceedances: Perchloroethylene, TCE, Radium-226, Radium-228, Uranium
- Detected: 1,4-Dioxane, Chlorate, 1,1-Dichloroethane, Hexavalent Chromium, Total Chromium, Molybdenum Strontium, Vanadium.

<u>Tract 349 Mutual Water Company (PRIVATE)</u>

Office: 4630 Santa Ana Street, Cudahy, CA 90201. Phone: 323-560-1601. Contact: Ryan Rosche.

Participation Opportunities: Public is invited to attend Board meetings on the second Wednesday of each month at 1:00pm at 4630 Santa Ana Street, Cudahy, CA 90201.

Service Area: Cudahy, Huntington Park, South Gate.

Water Sources: Local Groundwater.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910160.pdf

- Contaminant MCL Exceedances: Manganese (Secondary)
- Contaminant PHG Exceedances: Arsenic, Gross Alpha, Radium-226
- Detected: 1,4-Dioxane

Downey

Downey City Water Department (PUBLIC)

Office: 9252 Stewart & Ray Road, Downey, CA 90241. Phone 562-904-7202. Contact: Bridget Tapia (Water Quality).

Participation Opportunities: Downey City Council Meetings held on the second and fourth Tuesday of each month at 6:30pm, or Public Works Committee Meetings held on the third Thursday of each month at 4:00pm. Both meetings held at Downey City Hall, 11111 Brookshire Avenue.

Service Area: Downey.

Water Sources: Local Groundwater, Downey City Water Department is also connected to the Metropolitan Water District of Southern California if additional water is needed.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910034.pdf

- Contaminant MCL Exceedances: Total Coliform Bacteria,
- Contaminant PHG Exceedances: Gross Alpha, Uranium, Perchloroethylene, Arsenic, Hexavalent Chromium
- Detected: Lead and Copper (Schools)

Golden State Water Company-Hollydale (PRIVATE)

Office: Central Basin West CSA, 7105-D Eastern Avenue, Bell Gardens, CA 90201. Hours: Monday-Friday 8am-5pm. General Manager Dave Schickling.

Participation Opportunities: Contact office for future events.

Service Area: Downey.

Water Sources: Local Groundwater.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910195.pdf

- Contaminant MCL Exceedances: None
- Contaminant PHG Exceedances: Arsenic, Gross Alpha, Uranium, Perchloroethylene
- Detected: 1,4-Dioxane

Florence-Graham

Golden State Water Company-Florence/Graham (PRIVATE)

Office: Central Basin West CSA, 7105-B Eastern Avenue, Bell Gardens, CA 90201. Hours: Monday-Friday 8am-5pm. General Manager Dave Schickling.

Participation Opportunities: Contact office for future events.

Service Area: Florence-Graham, Walnut Park, South Gate, Huntington Park.

Water Sources: Local Groundwater, water is also imported from the Colorado River and the State Water Project through the Metropolitan Water District of Southern California

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910077.pdf

- Contaminant MCL Exceedances: 1,2-Dichloroethane,
- Contaminant PHG Exceedances: Fluoride, Perchloroethylene, 1,2-Dichloroethane, Combined Radium (Ra-226 and Ra-228), Gross Alpha, Uranium.

Huntington Park

Huntington Park City Water Department (PUBLIC)

Office: 6900 Bissell Street, Huntington Park, CA 90255.

Participation Opportunities: The public is invited to attend City Council meetings the first and third Tuesday of each month at 6:00pm at 6550 Miles Avenue, Huntington Park, CA 90255.

Service Area: Huntington Park, Vernon, Cudahy, Walnut Park.

Water Sources: Local groundwater and surface water. Huntington Park City Water Department also imports water from the Colorado River and the State Water Project through the Metropolitan Water District of Southern California. 2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910049.pdf

- Contaminant MCL Exceedances: Color (Secondary)
- Contaminant PHG Exceedances: TCE, Aluminum, Arsenic, Gross Alpha, Radium-226, Radium-228, Uranium

Lynwood

Golden State Water Company-Willowbrook (PRIVATE)

Office: Office: Central Basin West CSA, 7105-B Eastern Avenue, Bell Gardens, CA 90201. Hours: Monday-Friday 8am-5pm. General Manager Dave Schickling.

Participation Opportunities: Contact office for future events.

Service Area: Lynwood, Compton, Willowbrook.

Water Sources: Local Groundwater. GSWC-Willowbrook also imports water from the Colorado River and the State Water Project through the Metropolitan Water District of Southern California.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910072.pdf

- Contaminant MCL Exceedances: None.
- Contaminant PHG Exceedances: Fluoride, Gross Alpha, Uranium.

Los Angeles Department of Water and Power (PUBLIC)

Office: 919 South Soto Street Suite 10, Los Angeles, CA 90023. Phone:1-800-342-5397.

Participation Opportunities: Public meetings are held at LADWP, 111 North Hope Street, Room 1555H, Los Angeles CA 90012-2694

Service Area: Western Lynwood.

Water Sources: Los Angeles Aqueduct (Owens Valley and the Eastern Sierras) (49%), State Water Project and Colorado River (40%), Local Groundwater (9%), Recycled Water (2%).

2018 Consumer Confidence Report:

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- Contaminant MCL Exceedances: Aluminum (Secondary), Odor (Secondary)
- Contaminant PHG Exceedances: Bromate, Gross Alpha, Gross Beta, Total Coliform Bacteria, Hexavalent Chromium.
- Detected: Lead.

<u>Liberty Utilities-Lynwood/Rancho Dominguez (PRIVATE)</u>

Office: 9750 Washburn Road, Downey, CA 90241. Hours: Monday-Friday 8am-5pm. Phone: 1-800-727-5987.

Participation Opportunities: Contact office for future events.

Service Area: Lynwood, Compton.

Water Sources: Local Groundwater (71%). Liberty Utilities-Lynwood/Rancho Dominguez also imports water from the Colorado River and the State Water Project through the Metropolitan Water District of Southern California (29%).

2018 Consumer Confidence Report:

https://california.libertyutilities.com/uploads/Lynwood_Liberty_CCR%20Template_Final.pdf

- Contaminant MCL Exceedances: Odor (Secondary)
- Contaminant PHG Exceedances: Arsenic, Bromate, Perchloroethylene, Gross Alpha, Uranium, Fluoride
- Detected: 1,4-Dioxane, Lead.

Lynwood City Water Department (PUBLIC)

Office: City of Lynwood, 11330 Bulliss Road, Lynwood, CA 90262. Phone: 310-603-0220, Contact George Cambero (Water Quality).

Participation Opportunities: The public is invited to attend City Council meetings located at Lynwood City Hall, 11330 Bullis Road, Lynwood, CA 90262. Meetings are held on the 1st and 3rd Tuesday of each month at 6:00pm.

Service Area: Lynwood, Northern Compton, Southern South Gate.

Water Sources: Local Groundwater and Surface Water. Lynwood City Water Department also imports water from the Colorado River and the State Water Project though Metropolitan Water District of Southern California.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCRCERT2018CA1910079.pdf

- Contaminant MCL Exceedances: Perchloroethylene, TCE
- Contaminant PHG Exceedances: Perchloroethylene, TCE, Aluminum, Arsenic, Gross Alpha, Gross Beta, Radium-226, Radium-228, Uranium.
- Detected: 1,4-Dioxane

Maywood

<u>California Water Service-East Los Angeles District (PRIVATE)</u>

Office: 2000 South Tubeway Avenue, Commerce, CA 90040. Phone: 323-722-8601.

Participation Opportunities: Contact office for future events.

Service Area: Bell, Commerce, Maywood, Monteblello, Monterey Park, Vernon

Water Sources: Local Groundwater. California Water Service-East Los Angeles District also imports water from the Colorado River and the State Water Project through the Metropolitan Water District of Southern California.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910050.pdf

- Contaminant MCL Exceedances: None
- Contaminant PHG Exceedances: Total Coliform Bacteria, Gross Alpha, Gross Beta, Uranium, Arsenic, Copper.

Maywood Mutual Water Company #1 (PRIVATE)

Office: 5953 Gifford Avenue, Huntington Park, CA 90255. Phone: 323-560-2439

Participation Opportunities: Contact office for future events.

Service Area: Maywood, Huntington Park.

Water Sources: Local groundwater, and connection to Metropolitan Water District of Southern California.

(Most Recent) 2016 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2016CA1910084.pdf

- Contaminant MCL Exceedances: None
- Contaminant PHG Exceedances: Aluminum, Arsenic, Gross Alpha, Gross Beta, Radium-226, Radium-228, Uranium.

Maywood Mutual Water Company #2 (PRIVATE)

Office: 3521 East Slauson Avenue, Maywood, CA 90270. Phone 323-581-5816, Contact Steven Rojo (Water Quality).

Participation Opportunities: Shareholders are welcome to attend monthly Board of Directors meetings on the fourth Thursday of each month at 4:30pm at 3521 East Slauson Avenue, Maywood CA 90270. Please call the office at least one day prior to the meeting to be placed on the agenda.

Service Area: Maywood

Water Sources: Local groundwater and surface water. Maywood Mutual Water Company #2 also imports water from the Colorado River and the State Water Project through the Metropolitan Water District of Southern California.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910085.pdf

- Contaminant MCL Exceedances: Aluminum (Secondary), Iron (Secondary), Manganese (Secondary)
- Contaminant PHG Exceedances: Aluminum, Gross Alpha, Radium-226, Uranium

Maywood Mutual Water Company #3 (PRIVATE)

Office: 6151 Heliotrope Avenue, Maywood, CA 90270. Hours: Monday-Friday 8:30am-4pm. Phone: 323-560-3657.

Participation Opportunities: Shareholders are welcome to attend the Board meetings held the last Tuesday of each month, except November and December at 4:30pm at 6151 Heliotrope Avenue, Maywood CA 90270.

Service Area: Maywood, Northern Bell.

Water Sources: Local Groundwater.

(Most Recent) 2016 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2016CA1910086.pdf

- Contaminant MCL Exceedances: TCE
- Contaminant PHG Exceedances: TCE, Hexavalent Chromium, Gross Alpha, Radium-226, Uranium
- Detect: 1,4-Dioxane

Paramount

Paramount City Water Department (PUBLIC)

Office: Paramount City Hall, 16400 Colorado Avenue, Paramount, CA 90723. Hours: Monday-Friday 8am-5:30pm. Phone: 562-220-2010.

Participation Opportunities: The public is welcome to attend Public Works Commission meetings located at Paramount City Hall, 16400 Colorado Avenue, Paramount, CA 90723. Meetings are held on the 1st Thursday of each month at 6pm.

Service Area: Paramount.

Water Sources: Local Groundwater, and Paramount City Water Department imports water from the Colorado River and the State WAter Project through the Metropolitan Water District of Southern California.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910105.pdf

- Contaminant MCL Exceedances: Aluminum (Secondary), Odor (Secondary)
- Contaminant PHG Exceedances: Arsenic, Gross Alpha, Radium-226, Radium-228, Uranium
- Detected: 1.4-Dioxane

South Gate

South Gate City Water Department (PUBLIC)

Office: 8650 California Avenue, South Gate, CA 90280. Phone: 323-563-5790.

Participation Opportunities: The public is invited to attend City Council meetings on the second and fourth Tuesday of each month at 6:30pm in the City Council Chambers, South Gate City Hall at 8650 California Avenue, South Gate, California 90280.

Service Area: South Gate, Southwest Cudahy, Northern Lynwood.

Water Sources: Local Groundwater.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910152.pdf

- Contaminant MCL Exceedances: None
- Contaminant PHG Exceedances: Perchloroethylene, Arsenic, Hexavalent Chromium, Gross Alpha, Gross Beta
- Detected: 1,4-Dioxane

Vernon

Vernon City Water Department (PUBLIC)

Office: 4305 Santa Fe Avenue, Cernon, CA 90058. Phone 323-583-8811.

Participation Opportunities: The public is invited to attend City Council meetings the first and third Tuesday of the month at 9am at City Hall in the Council Chambers, 4305 Santa Fe Avenue. Phone: 323-583-8811, Contact Wendell Wall (Water Quality).

Service Area: Vernon, Northern Huntington Park.

Water Sources: Local Groundwater and imported water from the Colorado River and the State Water Project through the Metropolitan Water District of Southern California.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910167.pdf

- Contaminant MCL Exceedances: Manganese (Secondary)
- Contaminant PHG Exceedances: Bromate, Gross Alpha, Radium-226, Radium-228, Uranium, Hexavalent Chromium, Total Chromium.
- Detect: 1,4-Dioxane, Strontium

Walnut Park

Walnut Park Mutual Water Company (PRIVATE)

Office: 2460 East Florence Avenue, Huntington Park, CA 90255. Phone: 323-581-3226.

Participation Opportunities: The public is invited to attend Annual Shareholders meetings located at 2460 East Florence Avenue, Walnut Park, CA 90255. There are also monthly Board of Directors Meetings at 1PM. Check website for monthly Board of Directors meetings.

Service Area: Southern Huntington Park, Walnut Park, Northern South Gate.

Water Sources: Local Groundwater.

2018 Consumer Confidence Report: https://drinc.ca.gov/ear/CCR/CCR2018CA1910169.pdf

- Contaminant MCL Exceedances:
- Contaminant PHG Exceedances: Hexavalent Chromium, Gross Alpha, Uranium
- Detected: Chlorate, Hexavalent Chromium, Total Chromium, Molybdenum, Strontium, Vanadium.

APPENDIX C FACILITATOR LIST OF NAMES

Physicians For Responsibility Los Angeles (PSR-LA)

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Caryn Mandelbaum

Public Interest Attorney and Sustainable
Water Conservation Expert
Carynmandelbaum@gmail.com

APPENDIX D LIST OF ADDITIONAL FUNDING SOURCES:

Proposition 50 (CDPH) | ~\$500,000,000

Types of Project: CWS, Small Systems (monitoring, treatment, infrastructure), Grants for treatment and contaminant removal, Grants for water quality monitoring, source water protection, Colorado River Use Reduction, Contaminant treatment, UV/Ozone Maximum Contaminant Level (MCL) Violation.

State Revolving Fund (CDPH) | ~\$150,000,000

Types of Project: Water treatment facilities, other infrastructure, planning, consolidation.

Proposition 50 (DWR) | ~\$250,000,000

Types of project: Integrated Regional Water Management Planning and implementation

Proposition 50 (State Water Board) | ~\$450,000,000

Types of Projects: Pollution prevention, reclamation, water quality improvement, blending and exchanging project, source protection, restore/protect surface and groundwater, Integrated Regional Water Management Planning and Implementation.

American Reinvestment and Recovery Act (ARRA) / ~\$450,000,000

Types of Projects: Pollution prevention, reclamation, water quality improvement, blending and exchanging project, source protection, restore/protect surface and groundwater, Integrated Regional Water Management Planning and Implementation.

Proposition 1 (Water Quality, Supply, and Infrastructure Improvement Act)

Proposition 84 (CDPH) | ~\$250,000,000

Types of Project: Emergency Clean Water Grants, Small community infrastructure and nitrate, grants to reduce or prevent contamination of groundwater that serves as a source of drinking water.

Proposition 84 (DWR) | ~\$1,000,000,000

Types of Project: Integrated Regional Water Management Planning and Implementation

Measure W State Water Resource Board (SWR)

Transformative Climate Communities SWR Watershed Protection Grants & Loans

Proposition-1 SWR Human Right to Water Fund DAC-Involvement Program

Measure A

How to Read Your Consumer Confidence Report

Look here to find the dates that the water was tested. Look here to find the contaminants that your water system		i 	This is the average level of each contaminant detected in your water.		to s hig low det in o	to see the thighest and li lowest levels detected in different samples.		th lin so ca La to th	his is ne legal mit (also ometimes alled Actior evels). Chec o see how nis compare o the level etected.	:k	This is the public health goal, the safe level for a contaminant. Compare to the level detected.	Look here to find out what types of sources this contaminant may come from in your area.
has tested for				1				7	1			/
Chemical or Constituent (and reporting units)	Sam	TE:			RY D	UNKI je of	NG W	41	PHG (MCLG) [MRDLG]	AR	IS WITH A ID Ical Source of Conta	aminant
Dibromocnio- ropropane (DBCP), ppt	9/28	/06		9.5	NDto	38	200		1.7	Banned nematocide that may still be pres- ent in soils due to runoff/leaching from former use on soybeans, cotton, vineyards, tomatoes, and tree fruit		
Nitrate as NO ₃ , ppm	9/28, 11/29 12/2 4/26, 5/23,	9/06 5/07 /07	1	48)	34.1	to 65	45)		45	leac	off and leaching fror thing from septic tan sion of natural depos	ks and sewage;
Arsenic, ppb	1/20, 9/28,		K	5	2 to 8	3 (10)		.004		sion of natural depos nards	its; runoff from
Fluoride, ppm	1/20/ 9/28/	/06		.25		to 0.30			'\	that fron	sion of natural depos t promotes strong te n fertilizer and alumi	eth; discharge num factories
Barium, ppm	1/20, 9/28,			0.84	0.33	to 1.35	1	\	NA	fron	charges of oil drilling n metal refineries; en osits	

Nitrate is over both the public health goal (PHG) and the maximum contaminant level (MCL), and therefore should be a concern. Look in your CCR for an explanation of what your system is doing to fix the problem. The average sample of Barium was not over the MCL, but one sample was over the MCL. So you may want to follow-up with your water system to find out what is being done to make sure no one is exposed to levels over the MCL.

Arsenic is not over the MCL, but is over the PHG. Therefore, while there is not a violation, you may want to take precautions, particularly if you have vulnerable people in your home such as pregnant women or children.

Cómo leer su Informe de Confianza al Consumidor

Aquí encontrará	Este es el nivel	Aquí se	Este es el	Esta es la
•		•		
las fechas en las	promedio	muestran	límite legal (a	Meta de
que se efectuaron	de cada	los niveles	veces también	Salud Pública,
los análisis del	contaminante	mayores y	conocido	el nivel
agua.	que se detectó	menores	como Nivel	considerado
	en su agua.	que se	de Acción).	seguro para un
Aquí		detectaron	Compare este	contaminante.
encontrará los		en	valor con el del	Compare este
contaminantes		diferentes	nivel detectado.	valor con el
que su sistema		muestras		del nivel
de agua ha				
analizado.		$\overline{}$	T .	/

	_	-	_			/ / /
RESULTADOS DE LOS ANÁLISIS: DETECCIÓN DE CONTAMENANTES CON UN ESTÁNDAR PRIMARIO DEL AGUA POTABLE						
Compuesto o Componente (y unidades con gue se reporta)	Fecha de Muestreo	Nivel Detectado	Ámbito de Detección	MCL [MRDL]	PHG (MCLG) [MRDLG]	Fuentes más comunes de la contaminación
Dibromocloro- propano (DBCP), ppt	9/28/06	9.5	ND a 38	200	1.7	Nematicida prohibido que podría encontrarse aun en el suelo debido a usos previos en cultivos como soya, algodón, uva, tomate y árboles frutales, y que es arrastrado por escorrentía o se filtra en el suelo.
Nitrato como NO _y ppm	9/28/06 11/29/06 12/25/07 4/26/07 5/23/07	48)	34.1 a 65	45)	45	Escorrentía y filtración de los fertilizantes aplicados; filtraciones de tanques sépticos y alcantarillado; erosión de depósitos naturales
Arsénico, ppb	1/20/05 9/28/06	5)	2 a 8	10	.004	Erosión de depósitos naturales; escorrentía desde los huertos de frutales
Fluoruro, ppm	1/20/05 9/28/06	.25	0.20 a 0.30	2.00	7	Erosión de depósitos naturales; aditivo en el agua para reforzar los dientes; descargas de fábricas de fertilizantes y aluminio.
Bario, ppm	1/20/05 9/28/06	0.84)	0.33 a 1.35	1	NA	Descargas de desechos de la perforación potrolera y de refinerías de metales; erosión de depositos naturales.

El nivel de nitrato excede tanto la Meta de Salud Pública (PHG) como el Nivel Máximo de Contaminante (MCL), por lo cual debe causar preocupación. Busque en el CCR la explicación que su sistema de agua le ofrece sobre lo que está haciendo para resolver el problema.

El arsénico no supera el MCL aunque sí supera la PHG. Por lo tanto, si bien no se incurre en una contravención, es mejor que tome precauciones, en especial si hay personas vulnerables en su casa, como mujeres embarazadas o niños.

El nivel promediado de las muestras de bario no excedió el MCL, aunque una de las muestras sí lo excedió. Así que es mejor que consulte con su sistema de agua y averigüe qué medidas se han tomado para garantizar que nadie esté expuesto a niveles superiores al MCL.

Aguí

encontrará las posibles

fuentes de donde este contaminante

provenir en

podría

su zona

EXECUTIVE SUMMARY

The Sustainable LA Grand Challenge (SLA GC) Environmental Report Card (ERC) for Los Angeles County (L.A. County) is the only comprehensive environmental report card for a megacity in the world. This 2019 ERC on Water provides an in-depth look at the region's efforts in moving toward a more resilient local water supply, which requires maximizing highquality local water supplies, improving water conveyance and treatment infrastructure, reducing water consumption, and implementing innovative technology and policy solutions. Twenty Indicators were assessed across eight categories. Many of these indicators are new areas of assessment for the ERC and will provide a more comprehensive picture of current conditions compared to the 2015 ERC that last assessed L.A. County's water. Grades were assigned in each category based on compliance with environmental laws or numeric standards where applicable, on our best professional judgment, and on historical improvements and context. This year's grades range from D/ Incomplete to B+, and although there has been great progress in some areas, others still require significant improvement to raise the county's C+ average.





WATER SUPPLY & CONSUMPTION:

C+

- In 2017, 59% of the Metropolitan Water District (MWD)-supplied water used in L.A. County was sourced from outside the region. Local recycled water made up only 9% of the county's 2017 water supply, while groundwater resources provided 32%.
- In 2018, the City of L.A. imported an estimated 307,949 acre-feet of water (above average) despite the fact that the Eastern Sierras had an average year of snowpack. Overall, the city imported well over 90% of its water from distant sources.
- The volume of reused water in the county increased by approximately 31% from 2006 to 2016 (ca. 55.8 to 73 billion gallons).
- The largest increase in reused water in L.A. County occurred between 2006 and 2007, with more modest year-to-year increases (and occasional decreases) since then.
- The percent of total wastewater treatment effluent reused in the county increased from 16.6% in 2006 to 28.5% in 2016, the highest value over the 11-year period.
- Between 2000 and 2017, countywide per capita water demand dropped by more than 27%. In 2017, total annual water consumption was 418 billion gallons, compared to 483 billion gallons in 2013 – a drop of 13.5%.
- Total annual water consumption in LA. County decreased from 2013 to 2016, but then rose in 2017 drawing closer to the 2013 benchmark consumption level.
- All but two reporting water suppliers in L.A. County reduced water use in July 2017 compared to July 2013; however, many suppliers saw increased water use between 2016 and 2017.
- Water pricing varies widely across the nearly 300 publicwater systems,

and drought charges brought cost above the affordability threshold for low-income households.

Approximately 60% of water used in L.A. County is imported from outside the region, and that number rises to 90% for the City of L.A. Although the volume of reused water has been increasing, the county has a long way to go to meet its water needs with local water resources. The region significantly reduced its water consumption from its 2013 baseline in response to Governor Brown's mandatory conservation measures implemented in 2015 due to the major drought. However, water consumption crept up after the drought was declared "over" in 2017, demonstrating that progress was lost due to inattention and decreased public focus. Recently, precipitation patterns have been highly variable - oscillating between drought and extreme precipitation demonstrating the vulnerability of the state's water infrastructure and the need to maximize local, sustainable, and resilient water supplies.



DRINKING WATER QUALITY:

B+/ Incomplete

- Overall, nearly everyone in LA. County has been provided with deanwater at the point of delivery (but, see notes below about available data and monitoring points).
- Primary Maximum Contaminant Level (MCL) violations in L.A. County were less than 2.5% of the total for all California public water systems each year from 2012-2017.
- Most L.A. County MCL violations were for elevated levels of arsenic or coliform bacteria.
- In 2017, seven public water systems in L.A. County serving a total of over 60,000 residents had a combined total of 10 primary MCL violations.
- MCL violations affected 74,931 people in 2012 and 61,641 people in 2017, while only between

- 3,850 and 2,909 people in the intervening years. This variation in the number of people affected depended on which water systems had violations.
- Four public water systems failed to report an MCL violation to constituents on their annual Consumer Confidence Report between 2012 and 2016. No water system failed to report more than once over the five-year period.
- There are multiple, well documented accounts of discolored, foul-smelling and poor-tasting water coming out of taps in largely disadvantaged communities served by publicly-regulated drinking water systems across L.A. County.

Available monitoring data shows that L.A. County's drinking water is meeting most health-based standards and communicating most instances of standards-based contamination to consumers. Primary MCL violations are infrequent and impact a small percentage of residents. However, many people are still receiving smelly, discolored tap water. Without publicly-available data on exceedances of secondary MCLs, it is difficult to evaluate the scope of this problem. In addition, drinking water quality monitoring typically occurs just after the water is treated rather than after it is delivered to the consumer at the tap, which means that even effectively-treatedwater is vulnerable to contamination such as lead that may enter the water supply from old pipes on private property. Fortunately, new monitoring requirements are at least testing school tap water for lead. However, there are more areas of responsibility to examine in order to ensure that L.A. is living up to California's new Human Right to Water bill, promising every individual the right to safe, dean, and affordable drinking water.



LOCAL WATER INFRASTRUCTURE:

C+

 With one exception, urban water retailers serving more than 100,000 people had fewer than 50 gallons

- per connections per day real water losses in 2016, the first year of reporting.
- In 2016, all but two retailers serving more than 100,000 people achieved an Infrastructure Leakage Index score within a good range (< 3.0).
- As of 2017, there were 35 spreading ground facilities in L.A. County with a combined total of 21,259 acre-feet in surface storage capacity.
- The average annual volume of conserved stormwater from 2004-2017 was 190,227 acre-feet; the highest recorded amount was 662,862 acre-feet in 2004-2005, and the lowest amount was 37,542 acre-feet in 2013-2014. Variation in annual volumes of water conserved correlated strongly with annual rainfall.
- A total of \$129 million of state funds were provided to L.A. County for 71 Integrated Regional Water Management projects through California bond measures Proposition 50 (2002) and Proposition 84 (2006).
- Grant funds were invested in projects that improved water supply and groundwater (76% of projects), water quality (19%), habitat, open space, and recreation projects (3%), and flood projects (2%).
- In 2017 there were 302 reported sewage spills, of which 92 reached waterbodies. These spills represented nearly 600,000 gallons of sewage in total, with approximately 380,000 gallons of that volume reaching waterbodies.
 Over half of the 2017 spills reaching waterbodies were considered small.

The County's water infrastructure is aging, but investments have been made by the state and local jurisdictions to reduce water loss, decrease sewage spills, and improve water capture and infiltration. Nearly half of the county water projects funded through Propositions 50 and 84 have been completed. However, there is room for significant infrastructure improvements through new projects focused on an integrated regional water recycling system and stormwater infiltration, treatment, and capture infrastructure with funds anticipated through Measure W in 2020



GROUNDWATER:

C-

- Spring and fall groundwater elevations in wells across L.A. County generally rose in 2016-17: 34% of wells increased by more than 2.5 feet in spring, and 40% increased by the same margin in fall.
- Due to historic drought, both spring and fall groundwater levels were also considerably lower in 2017 than they were in 2012: in spring, almost 47% of wells were more than 10 feet lower compared to 2012, and fall elevations in 2017 decreased by more than 2.5 feet in 63% of wells.
- Compared to statewide trends, fewer L.A. County wells showed increases in groundwater levels in both the spring and fall seasons between 2012 and 2017.
- In 2018-19, 23 of the 39 pollutants examined exceeded their MCLs or comparison concentrations in one or more groundwater wells. Note, well contaminant levels do not equate to drinking water quality.
- 1,4-Dioxane had the largest percentage of wells in exceedance for all three periods of analysis between 2014 and 2019. Exceedances decreased from 46% to 35.6% between 2017 and 2018-
- Nitrate as N was detected in more than 80% of wells in 2017, but has the lowest maximum relative concentration amongst the top ten pollutants exceeding their MCLorcomparison concentration in 2017. Cró was detected in almost 60% of wells and had one of the highest maximum relative concentrations.
- In 2017, 83 sites threatened groundwater in L.A. County; 54% of these sites were Leaking Underground Storage Tank (LUST) Cleanup Sites, and 45% were Cleanup Program Sites.
- The number of groundwater threats increased annually from

2013 to a high of 428 in 2015, and then decreased in 2016 and 2017. It is not clear whether this represents an actual surge of new releases in the earlier years with cleanup in subsequent years, or whether this pattern is a result of changes in enforcement, tracking, or reporting.

While L.A. County is fortunate to have significant groundwater resources, these resources are under threat from pollution, and for coastal aquifers, seawater intrusion. Cleaning up and protecting groundwater resources is critical to moving the region toward local water reliance. Although groundwater basins are largely managed well through adjudications, more comprehensive data on absolute amounts of groundwater and groundwater storage volume in the county are necessary to accurately quantify groundwater and more sustainably manage the basins. Regular assessment of groundwater quality is also important given the prevalence of contamination and the number of contamination sites that threaten county aquifers. When groundwater aquifers are used for drinking water, contamination means that additional energy and resources must be expended to utilize this localwater resource.



SURFACE WATER QUALITY:

D / Incomplete

- No new water body assessment data has been processed by the State or Regional Boards since 2010.
- 99% of assessed bays, harbors, estuaries, lakes, reservoirs, and wetlands were impaired in 2010, compared to 100% impairment in 2007. However, 2010 impairments included an additional 512 acres compared to 2007.
- 59% of assessed shorelines, rivers, and streams were impaired in 2010, down from just under 85% in 2007. Note, however, that the total assessed miles greatly increased from 600 in 2007 to 592 in 2010; and, the absolute length of impairments increased from 509 to 582 miles.

- The fecal indicator bacteria, metals/metalloids, and pH + miscellaneous pollutant categories each impair over 20% of the assessed water body lengths, while toxicity, nutrients, salinity and trash impair over 10% of assessed water body lengths.
- Results for 2016-17 year of stormwater quality monitoring data at the mass emissions stations showed Water Quality Objective (WQO) exceedances for several parameters in Ballona Creek, Malibu Creek, Dominguez Channel, and the Santa Clara River. Results also show one WQO exceedance for the L.A. River and none in Coyote Creek or the San Gabriel River. This is surprising given historic trends and concurrent data from other monitoring programs.
- The most common parameters exceeding WQOs at mass emission stations in 2016-17 were E. coli, dissolved oxygen, dissolved copper, and dissolved since.
- The number of total exceedances during wet weather monitoring greatly exceeded those during dry weather across all years (2009-17), because stormwater discharges scour pollutants off impermeable surfaces, thereby increasing pollutant loads entering water bodies.

L.A. County's surface waters regularly exceed water quality standards. The majority of local water bodies are polluted to the point of being unsafe for primary uses such as recreation, drinking water supply. or as aquatic life habitat. Without regular assessments by the state, it is unclear whether water quality is improving or worsening, and there has been no new assessment data released since 2010. Stormwater quality monitoring data shows multiple rivers and creeks frequently exceed water quality standards for toxic heavy metals and fecal indicator bacteria. L.A. County's Measure W (2018) has the potential to enable improvement projects, but will require strategic implementation to help water bodies meet relevant water quality standards.



INDUSTRIAL AND SEWAGE TREATMENT PLANT DISCHARGES:

R-

- There is no clear trend in violations of National Pollutant Discharge Elimination System (NPDES) permits for 2009-2016.
 Since 2009, the annual number of Class 2 violations ranged from a low of 35 to a high of 110. There were no Class 1 violations.
- There were 70 Class 2 violations (posing a moderate, indirect, or cumulative threat to water quality) of NPDES permits in 2016 across 6 facilities.
- Overall discharge volumes from all 13 Publicly Owned Treatment Works (POTWs) facilities analyzed were just over 216 billion gallons in 2016, compared to just under 244 billion gallons in 2013, an 11% decrease.
- From 2013 to 2016, total lead mass discharges decreased by approximately 16%; arsenic decreased by 2.6%; and nitrate + nitrite decreased by over 23%. Copper mass discharges increased by approximately 47% and ammonia remained relatively constant despite the decrease in sewage volumes, indicating a general increase in concentrations.
- The total number of non-sewage hazardous materials spills to water each year between 2012 – 2016 varied from a low of 350 (in 2014) to a high of 457 (in 2013). The number of spills in 2016 (286) was nearly equal to the average value from 2012-2016. There was no clear trend in number of spills over time.
- Between 2012-2016, the total volume of spills was lowest in 2012 (-226,000 gallons). The volume spilled in 2016 (315,620 gallons) was greater than the volume spilled over the previous three years combined. Note that this excludes two single incidents of extremely large spills of relatively clean substances (20 million gallons of drinking water and 10-100 million gallons of secondary treated wastewater in 2014 and 2015, respectively).

Data on discharges of pollutants to receiving waters supplement surface water quality information for a more complete picture of the state of the region's receiving waters. Although conditions have vastly improved over the last several decades, there is still room for improvement. Pollutant loads

from sevege treatment plants have decreased or remained constant and the number of savage spills has remained relatively constant over the last for years. And although there were no Clear I violations by large industrial discharges from 2009-2016, there was no decrease in the overall number of Class 2 violations. Unfortunately, there are still hundreds of petrolegia with arrestly; and chemical with, although less frequent, ore still a major concern. Furthermore, the database of hazardous materials spills is insulficient to support accomplaints and trend nocoment.

distant succes is energy-intensive, and shifting from found facil energy generation to CHG emission-free renewbles and increasing relience on local writer supplies we both key. strategies to reducing the impact of LA. County's water supply on the diante. Horever, que must abo consider the energy intensity of luci esta/ estanta testuat, which waries widely depending on the quality of the source water, the intended and use, and the specific treatment technologies employed. There is a seed for more explicit, integrated consideration of energy demand in water supply planning.



WATER-ENERGY NEXUS:

C+

- The energy intensity (blowst hous per acre-foot (kWk/AF)) for each water source is constant from year-to-year. However, greenfame gas emissions vary armally based on changes in the power-portfolio-and-vater-sapply volumes.
- The State Water Project (SWP) is the county's most energyintereive source, concerning over 2,500 MMh/AF, even when accounting for hydrodectricity generated by the SMR. The Calando liver Aqueduct (CIIA) has the second-highest energy requirement. The Los Angeles Aquedoct (LAA) does not require wy energy for pumping or conveyance since it is entirely gravity powered. Recycled water represents almost a ladving of many intensity compared to the CRA, and less than one-third of the SWP, while stormwater has an intensity of about 15% of recorded weeken.
- Overall, L.A. County has decreased its water supplyrelated GHG emissions by 33% between 2010-2016, diseptiminally to a shift army from the use of coulfor energy generation.

Due to the climate crisis, there is increasing focus to reduce greenhousegus (2HC) emissions and energy use in all sectors, including water supply. Pumping water from



BEACH WATER QUALITY:

14

- According to Heal the Bay's summer 2017 dry weather beach water quality in L.A. County was excellent with 97% A or II grades and zero Egrades, better than the average over the last 5 years. The 2018 summer grades were slightly worse with 97% A's and II's and IX. Egrades.
- Water thy weather godes for 207-18 were slightly better than the werage over the previous five years, with 97% A or 8 grades and 4% F grades. However, the 2019-19 winter grades were much worse with 70% As and 18 and 6% Fs.
- Wet weather water quality continues to be an area of concern, with only 60% of beaches receiving A or B grades, and 20% receiving Figrades in 2017-16. This is an improvement over 2016-17, and better than the average over the previous 5 years. The 2010-19 report card demonstrated that LA. County beaches had the popular wet weather water quality in yours with only 30% A and B beaches and 50% of beaches receiving F grades. In particular, the Malibu beaches dometreum of the Woobey Fee had extremely poor grades after the fire.
- There were three beach closures due to sewage spills or other contamination events (such as oil or fiel spills) in 2012, all

accurring within the Long Beach Department of Health's jurisdiction.

- There were fewer than five beach closures annually between 2012-2017.
- The number of beach changes are an order of magnitude less than the number of savinge spills that neithed water budies for each year.
- There is no centralized data source for specifically identifying beach closures in the state.

LA. County's beaches fiel the region's robust countil economy and provide more than 50 million residents and visitors with arrivating and suring enjoyment annually. Maintaining high levels of water quality is vital for public selety and enjoyment. Beach water quality tends to be excellent during dry summer weather and power thring wet weather, when precipitation sends continuously constrained by remains los, with fewer than five closure days each year from lects a centralized data source for aggregation and examination.

CONCLUSIONS

L.A. County's everage grade on water is a C+, but there is reason to believe that this grade will improve with recent local water target setting by the Cty and County in their sustainability plans, and with new projects funded through thesoure W starting in 2220. This funding has great potential to clean up surface water and localize the water supply.

The County demonstrated that it can reduce its writer demand when faced with a major drought, but ance Garemar Brown declared the drought over, congruption incressed. More needs to be done to make water conservation a way. of life in the region. Furthermore, L.A. County still imports around 60% of its water supply, and the City over 90% the last two years. in order to meet the City, County, and UCLA's Sestainable LA Grand Challenge local water goals in the coming decades, the region most develop an integrated regional water recycling system and accelerate the execution of stansenter projects.

Investments in regional water runoff diversions, runoff capture and storage projects, and runoff treatment plants have dramatically improved beach water quality over the past decades, but we still see some poor beach water quality when we have wetweather. Drinking water quality is also quite good throughout the County, but for too many people still receive discolared, smelly water from the top. The lack of publicly available that on exceedances of secondary MCLs runles it very difficult to adequately assess the county's chinking water quality.

Surfacewater quality in the County needs significant improvement, with a large majority of local waterbodies listed as impaired for a variety of pollutants. The state has not been adequately excessing the status of these impaired waters, so the public does not have clear picture of whether surface waters are improving or worsening over the post decade.

Another area in need of major improvement is the County's groundwater basins. Although these groundwater basins are managed well through adjudications, poor groundwater quality continues to be prevalent in local equifers. Strong, health-based standards are necessary to ensure pollutant concentrations are reduced to safe levels. L.A. County requires commitment to reducing groundwater threats and remediating contaminated aquifers to fully capitalize upon the local supply of groundwater resources.

This 2019 Sustainable LA Grand Challenge Environmental Report Card on L.A. County Water demonstrates that despite the promise of goals and plans for sourcing water locally, recycling sustainable capture and cleaning projects, L.A. County has a long way to go to implement these plans before becoming an A student.



Our Funders







Thanks to our thought partners

Agustin Cabrera, LAANE Dr. Jyoti Puvvula, Harbor-UCLA Medical Center Professor Gregory Pierce, UCLA Luskin School