



West Basin Municipal Water District 2018 Recycled Water Project Updates

February 13, 2018

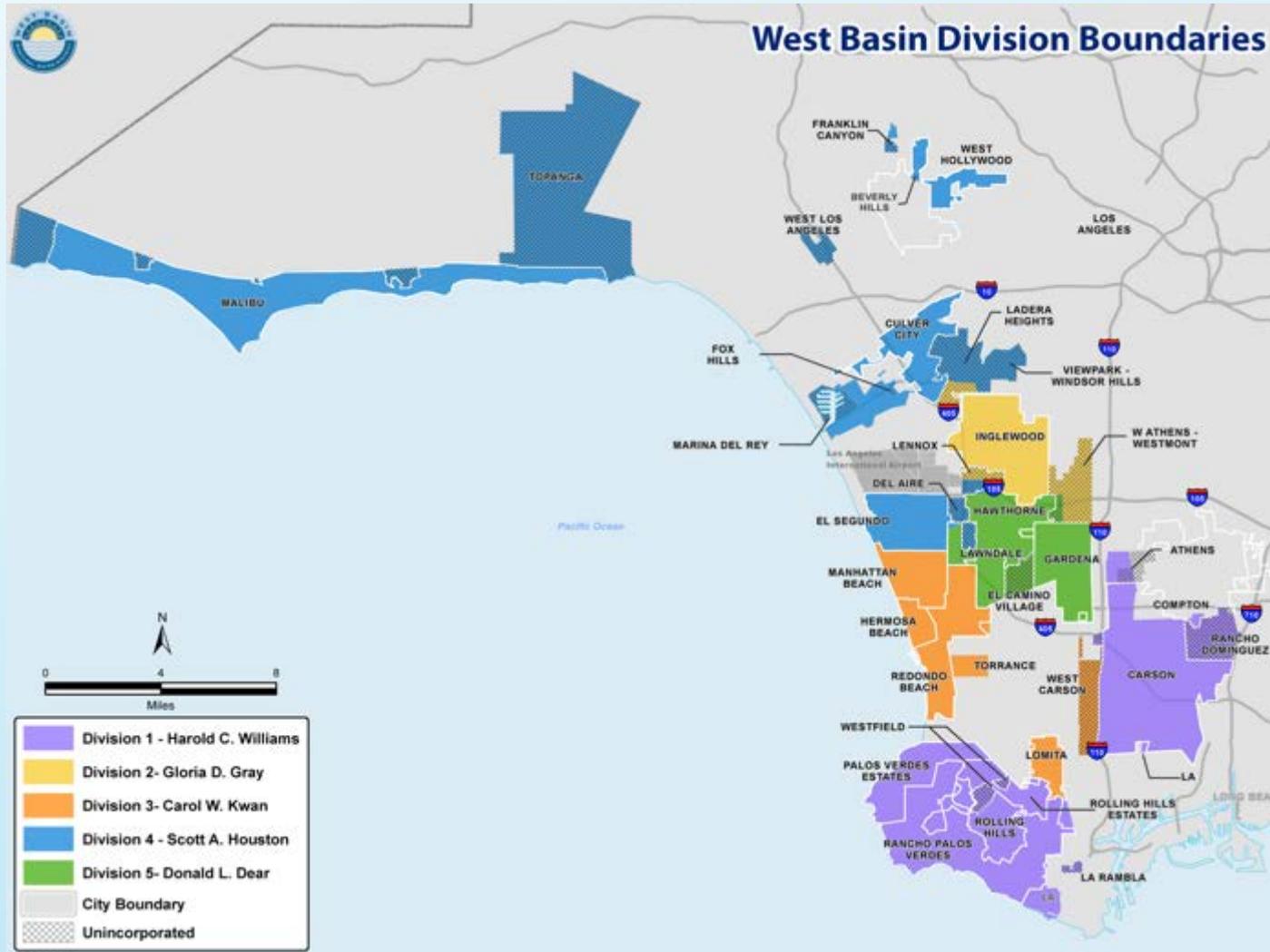
Presenter: Frank Fuchs, West Basin MWD

WEST BASIN MUNICIPAL WATER DISTRICT



- Public wholesale water agency
- Member of Metropolitan Water District of Southern California
- Provides imported drinking water to nearly 1 million people in 17 cities
- Produce and wholesale recycled water to municipal, commercial and industrial customers

SERVICE AREA



WATER RECYCLING FACILITY



- Edward C. Little Water Recycling Facility, El Segundo
- Built in 1995
- Produce approx. 40 MGD
- Three satellite facilities
- Five “designer” waters
- Recycled water source – Hyperion Wastewater Treatment Plant
 - Expansion Project
 - Add overall pumping capacity
 - Add power backup - generator

5 DESIGNER WATERS

1



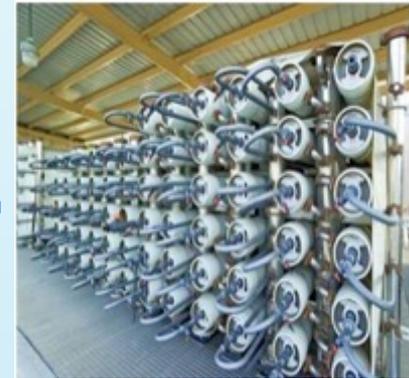
Tertiary
disinfected

2



Nitrified

3



Single Pass RO

4



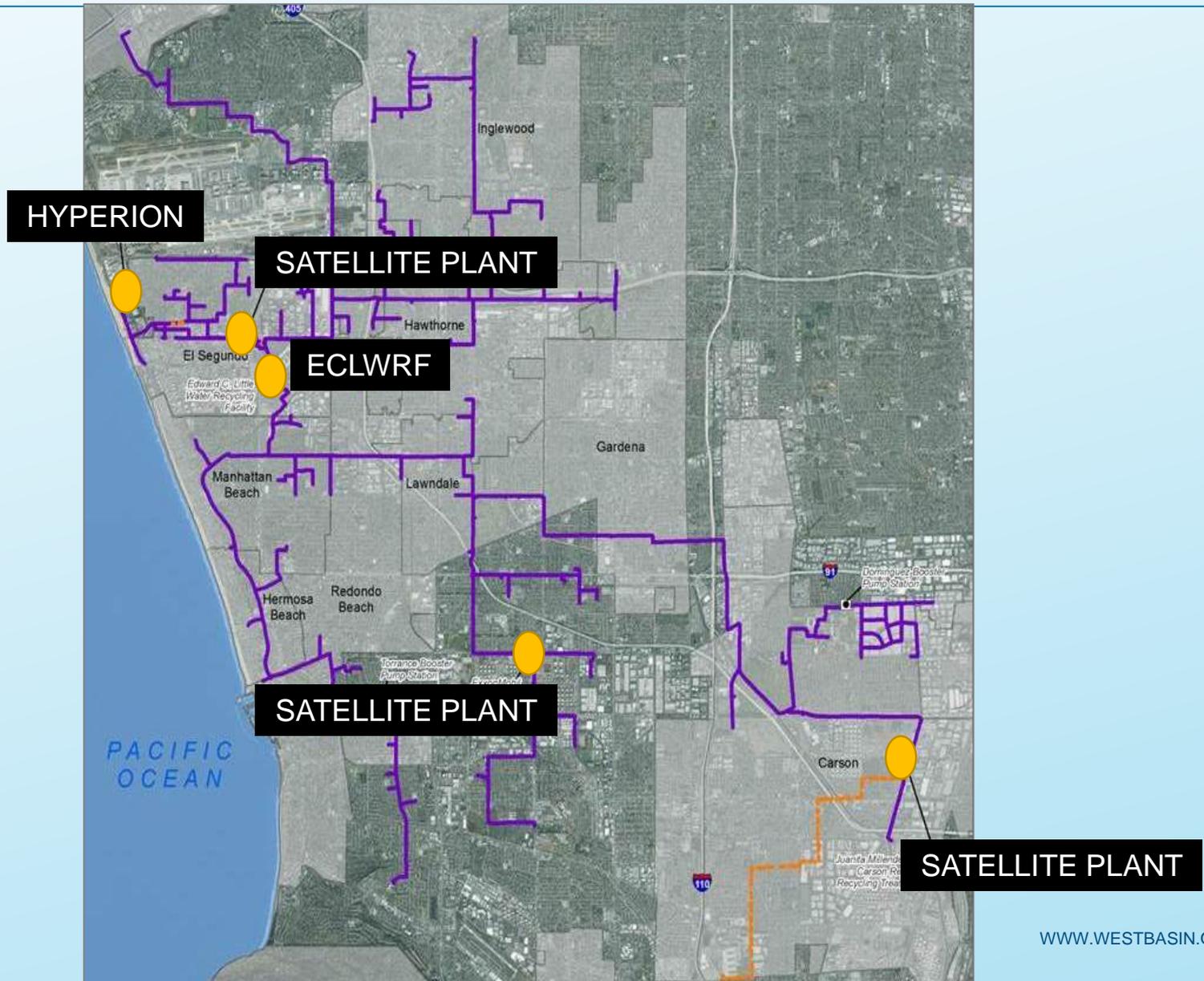
Double Pass RO

5



Barrier – RO Advanced
Oxidation

RECYCLED WATER DISTRIBUTION

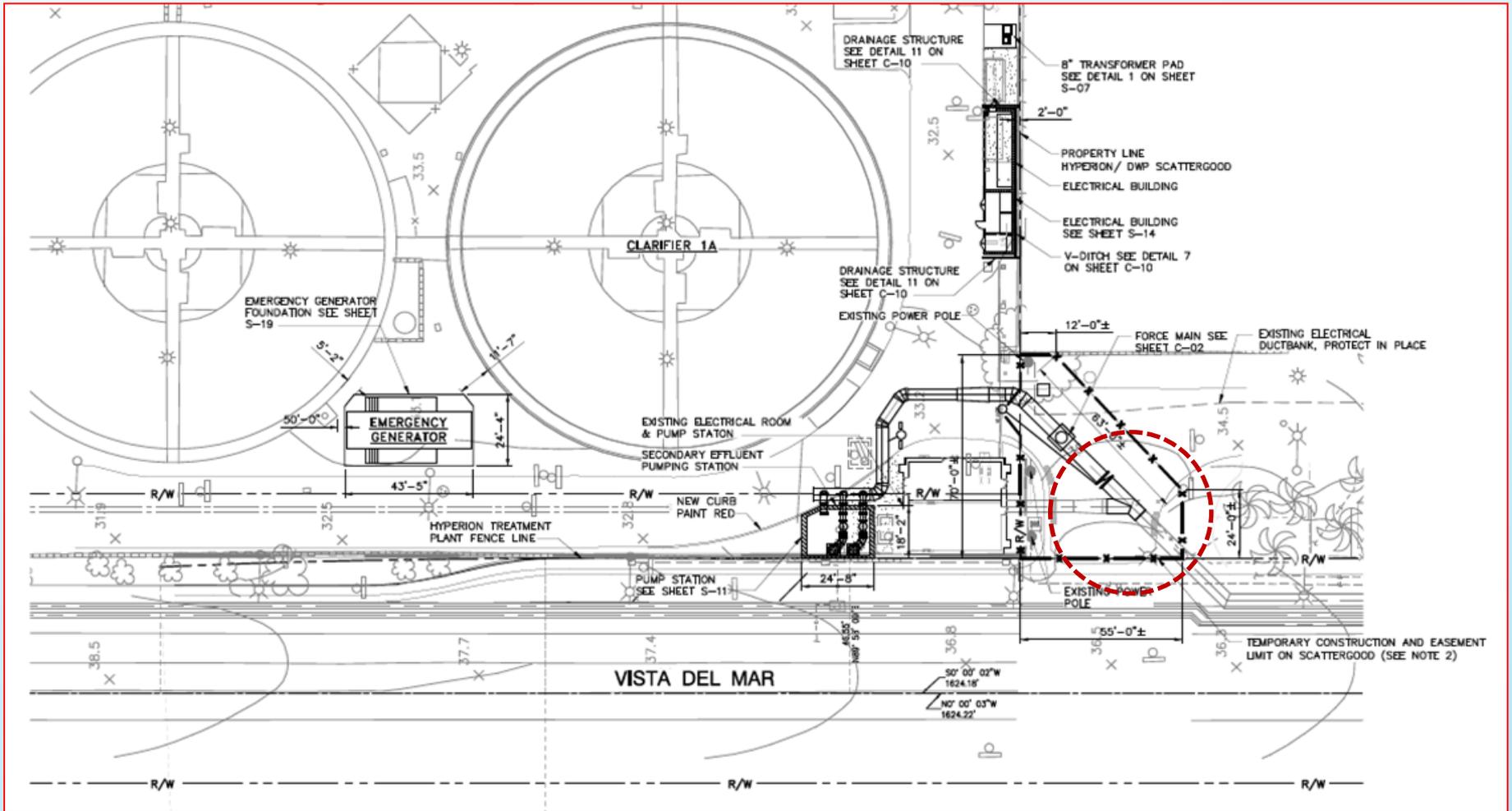


HYPERION PUMP STATION EXPANSION

- Existing Pumping Capacity – 70 MGD
- Future Pumping Capacity – 110 MGD
- Existing Pumps
 - 2 - 800 hp pumps
 - 2 - 500 hp pumps
- Additional pumps
 - 2 - 800 hp pumps
- Backup Generator



HYPERION PUMP STATION EXPANSION



HYPERION PUMP STATION EXPANSION

60" Wye Force Main Tie-In



HYPERION PUMP STATION EXPANSION

- 9 Day Shutdown
- Schedule February 25, 2018 – March 5, 2018
 - *Day Zero (Recycled Water System Shutdown & Dewatering) – Sunday, February 25th*
 - *Day One (Force Main Work Begins) – Monday, February 26th*
 - *Day Two (Force Main Work) – Tuesday, February 27th*
 - *Day Three (Force Main Work) – Wednesday, February 28th*
 - *Day Four (Force Main Work) – Thursday, March 1st*
 - *Day Five (Force Main Work) – Friday, March 2nd*
 - *Day Six (Force Main Work) – Saturday, March 3rd*
 - *Day Seven (Force Main Work Ends) – Sunday, March 4th*
 - *Day Eight (Bring System Back Online) – Monday, March 5th*
- Contractor has steep liquidated damages for going past date.

FORCE MAIN & DISTRIBUTION

- Customer communication
 - Recycled water site supervisors notified
- Potable backup supply to several customers
 - Provide design and assist w/approval process
- Install a meter on 24-inch pipeline
 - Aviation Blvd & 120th Street
- Conduct inspection of 60-inch force main
 - Condition Assessment
 - Dewatering

FORCE MAIN & DISTRIBUTION

- Valve exercising
 - Valves ranging from 16-inch to 42-inch
- Work Coordination
 - PCL Construction – contractor for Hyperion Pump Station
 - Suez – Treatment plant operator
 - California Water Service Company – Distribution system operator

UPCOMING CUSTOMERS

- **Dominguez Technology Center, Carson (2018) – 130 AFY**
 - Business Center – 300 acres
 - Dual distribution pipelines constructed almost 20 years ago
 - Working on conversion of pipelines and 35 irrigation systems
- **LA Stadium, Inglewood (2020) – 200 AFY**
 - Landscaping
 - Lake – storm water retention and irrigation





WWW.WESTBASIN.ORG

CONNECT WITH US:

