



LA Sanitation & Environment Hyperion Water Reclamation Plant

JULY 11, 2021 INCIDENT REPORT

Presentation to the El Segundo City Council



www.lacitysan.org/hyperion2021recovery

Tuesday, August 17, 2021

HYPERION BOUNDARIES



SEWER SYSTEM OVERVIEW

About LASAN

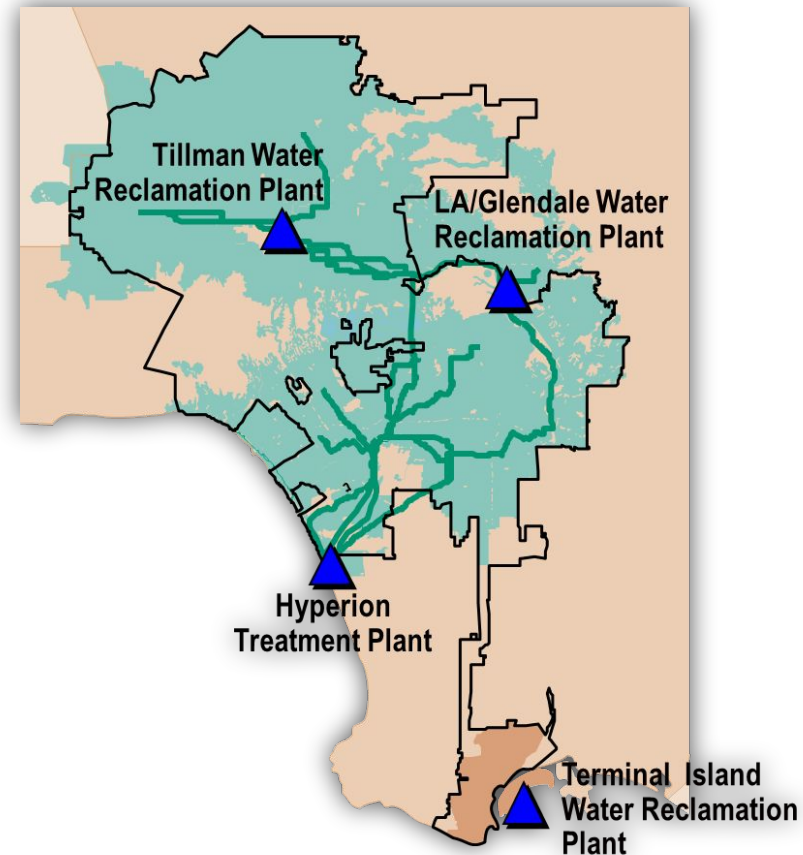
- 4.7 million people served
- 600 square miles
- 29 contract agencies
- 6,700 miles of sewer lines
- Average System Flow: 320 million gallons per day (MGD)

Hyperion Service Area: 3 Interconnected Plants

- Tillman Water Reclamation Plant (WRP) (100% Recycled Flow)
- Los Angeles-Glendale WRP (100% Recycled Flow)
- Hyperion WRP (27% Recycled Flow)

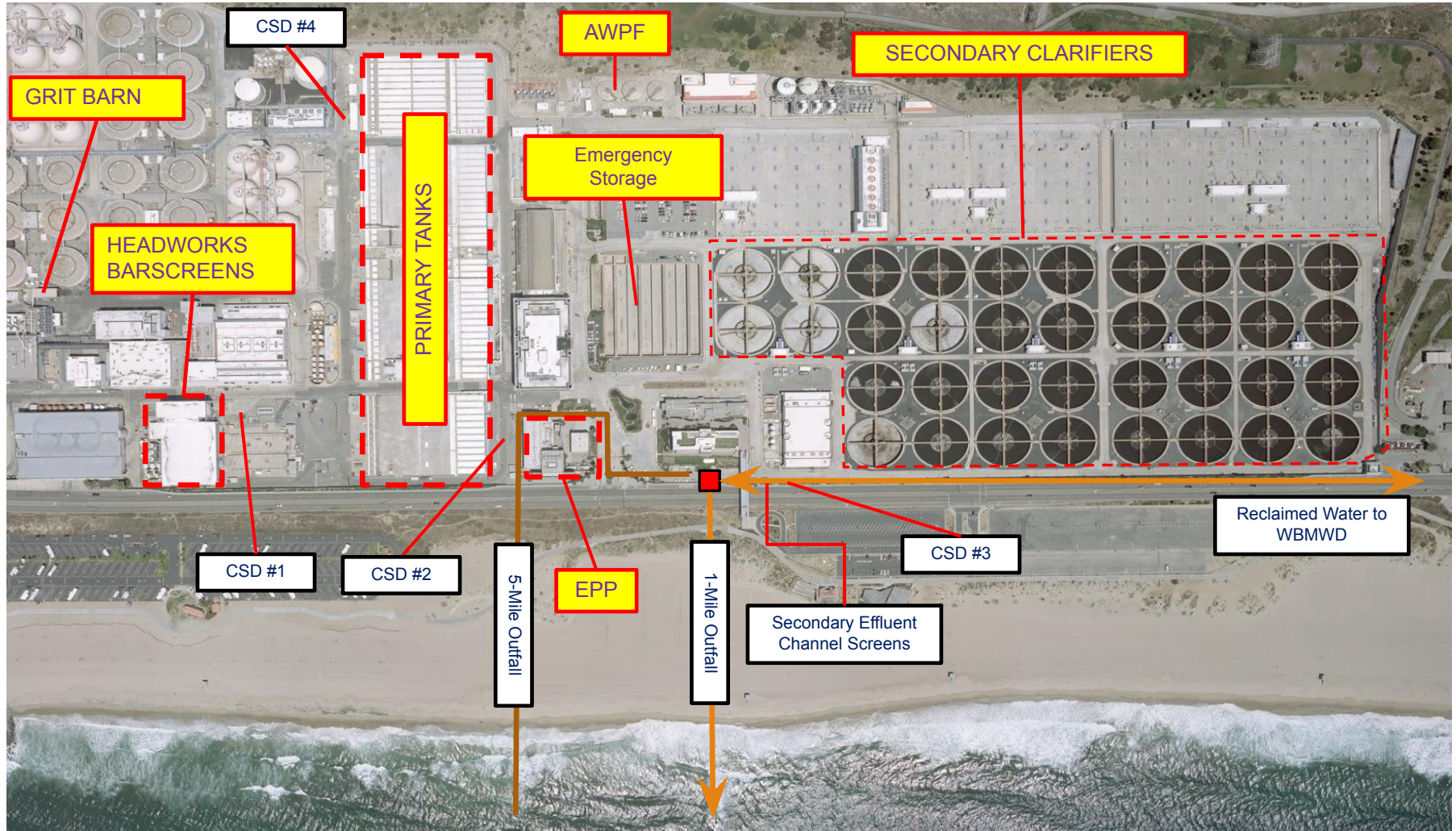
Terminal Island Service Area

- Terminal Island WRP (100% Recycled Flow)



HYPERION WATER RECLAMATION PLANT

LAYOUT



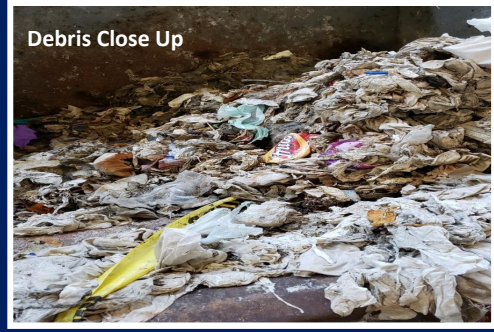
TIMELINE

July 11, 2021

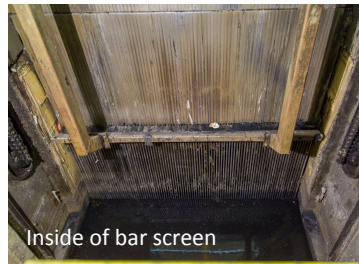
- 12:00pm - Headworks bar screens begin experiencing problems - 4 were in service.
- 3:00pm - Untreated wastewater overflowed out of Headworks onto plant roadways
- 7:00pm - Untreated wastewater overflowed into 1-mile outfall
- 7:59pm - Plant notified CA Office of Emergency Services (OES)
- 8:11pm - OES notified LA County Dept. of Public Health
- 8:18pm - Plant notified National Response Center
- 9:30pm - LA County Dept. of Public Health arrived at Hyperion



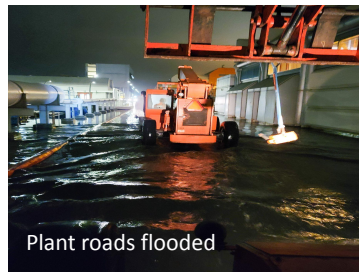
Clogged bar screens



Debris Close Up



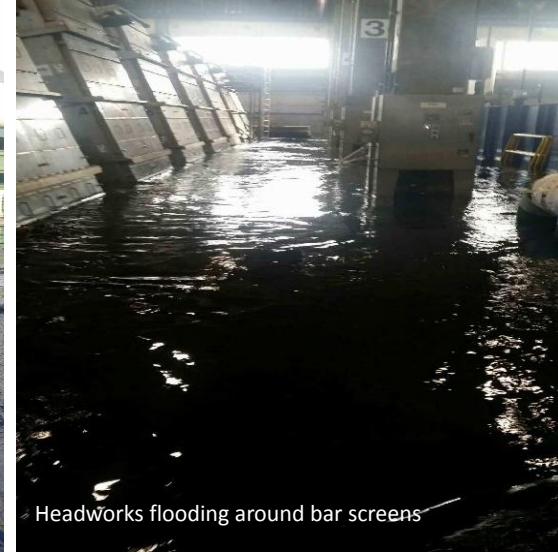
Inside of bar screen



Plant roads flooded



Flooding outside offices

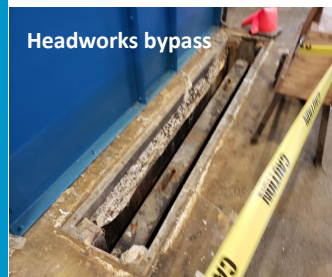
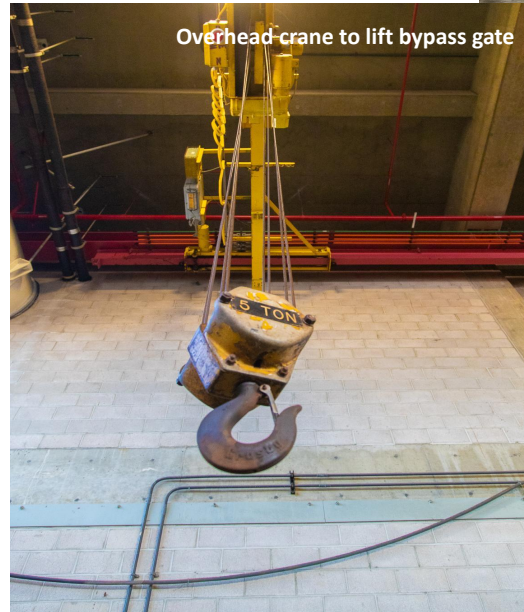


Headworks flooding around bar screens

TIMELINE

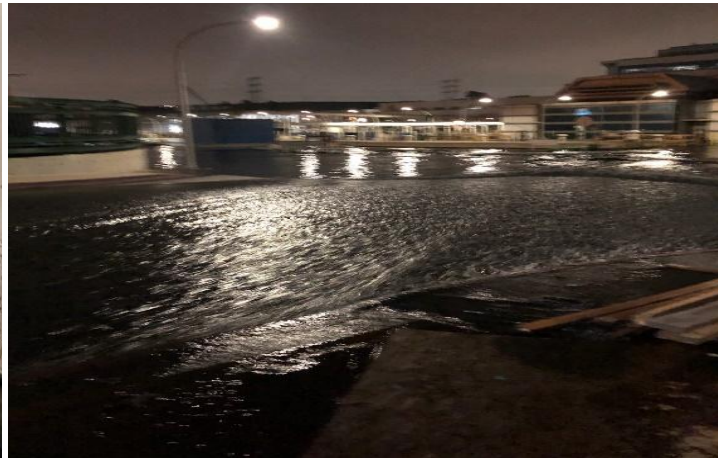
July 12, 2021

- 4:30am - Opened bypass gate to stop overflow of untreated wastewater out of Headworks building
- 8:41am - Overflow of untreated wastewater into 1-mile outfall stopped and recovery efforts began



FLOODING DAMAGE

Plant was flooded with untreated wastewater: damaging equipment and threatening the safety of staff; offices and elevators compromised

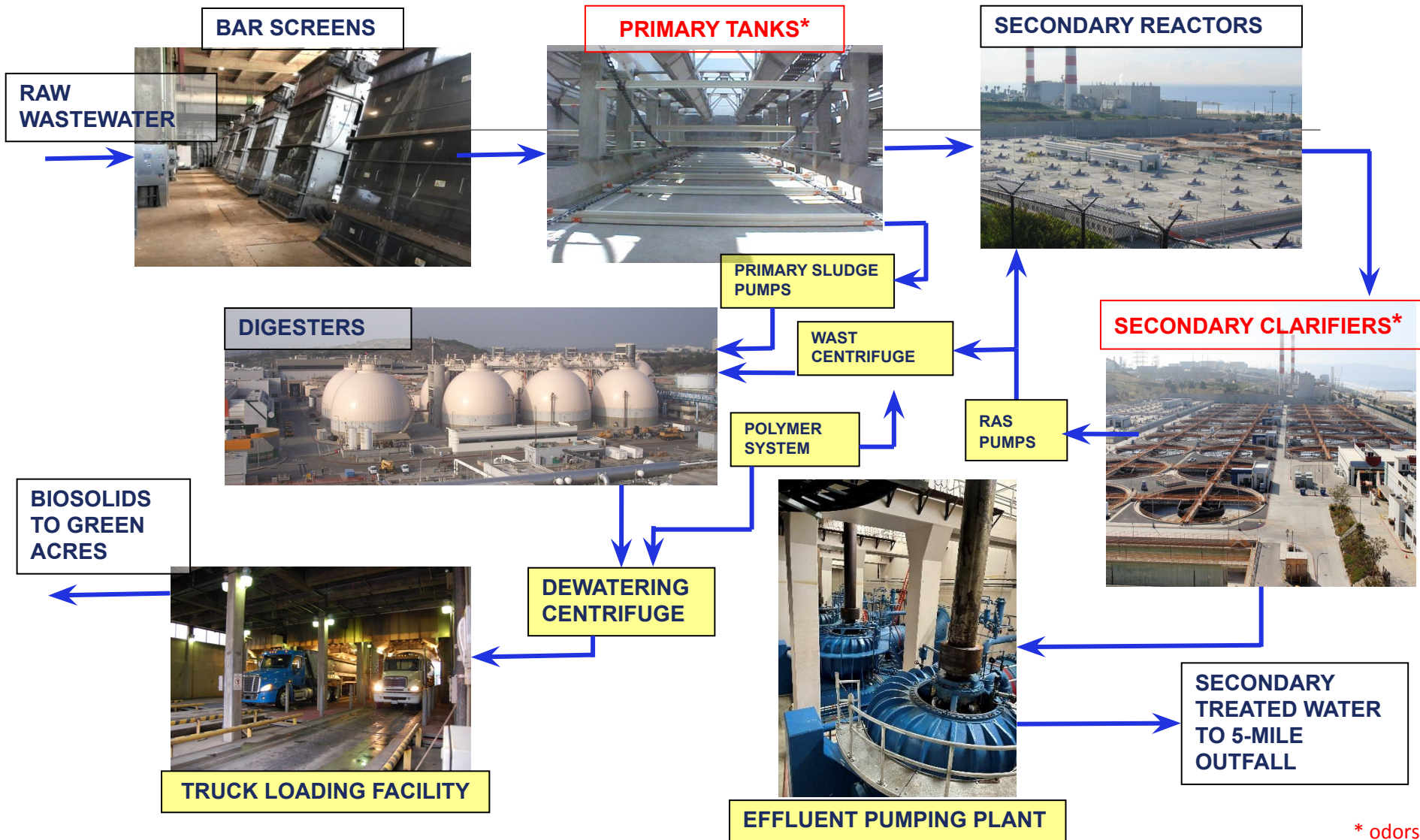


FLOODING DAMAGE

Advanced Water Purification Facility construction site flooded

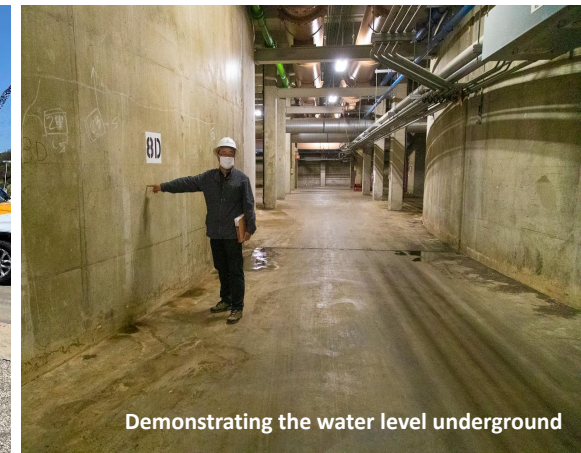
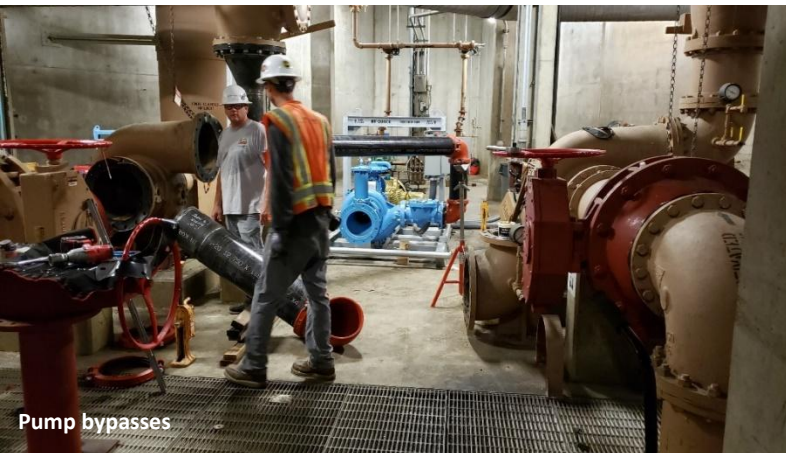


HYPERION WATER RECLAMATION PLANT PROCESS RECOVERY EFFORTS



HYPERION PROCESS RECOVERY EFFORTS

All critical process equipment back online



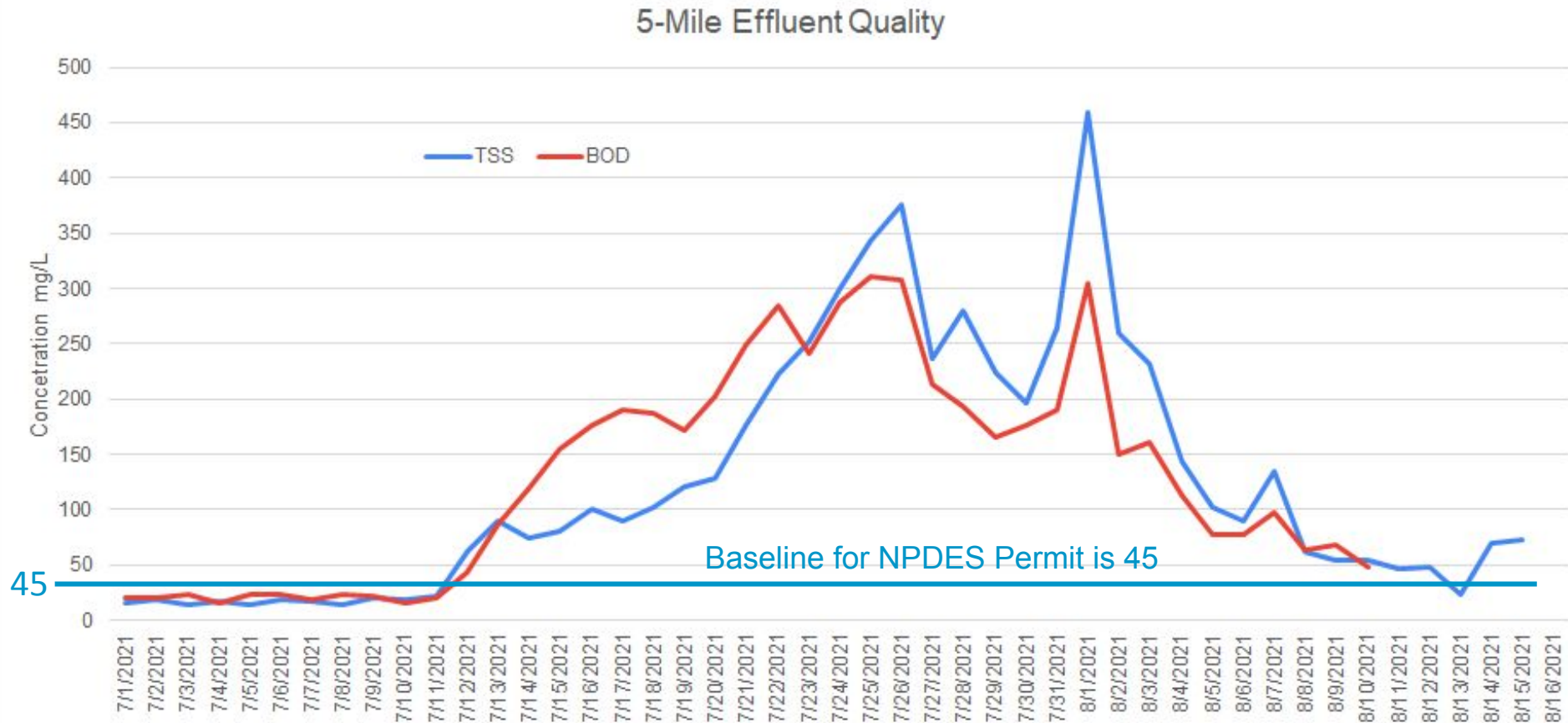
Status and Immediate Next Steps

- Water Quality
- Air Quality
- Initial Investigation of Cause
- Regulatory Oversight/Review
 - 5-day report & 30-day report to RWQCB
 - RWQCB Conveyance System Inspection
 - LA County report
- Third Party Review
- Short-term improvements now... long-term improvements decided after investigations are complete



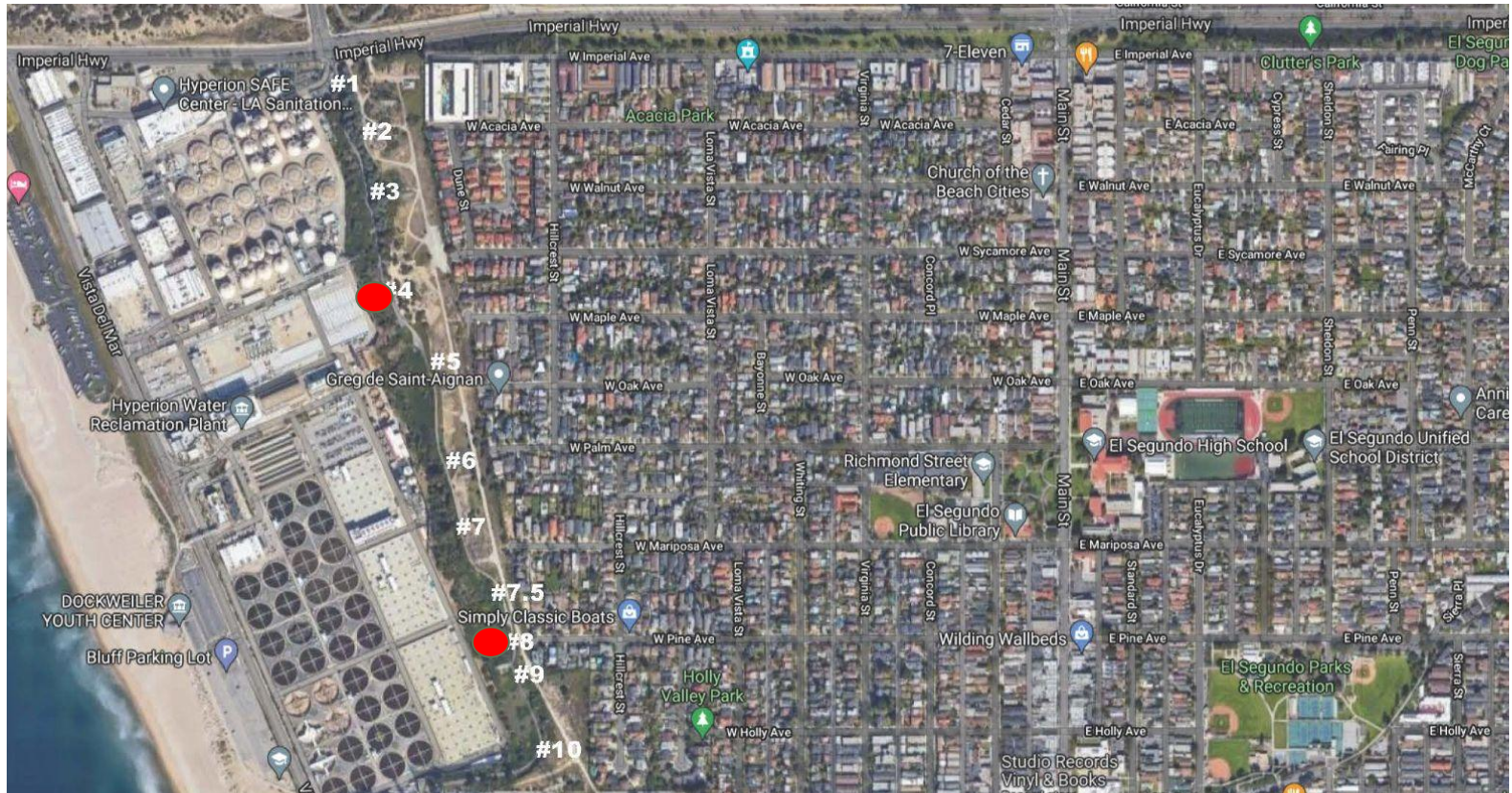
HYPERION WATER RECLAMATION PLANT PROCESS RECOVERY EFFORTS

TSS - total suspended solids / BOD - biochemical oxygen demand

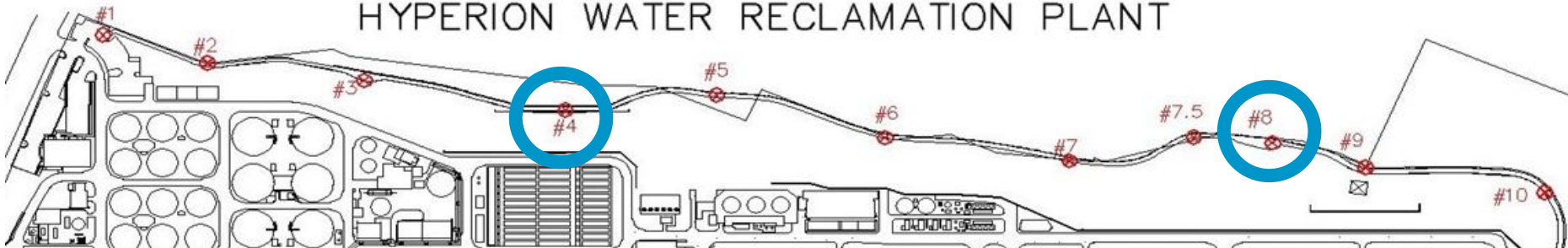


FENCE LINE MONITORING

- Station 4 - Maple / Hillcrest
- Station 8 - West Pine / Hillcrest



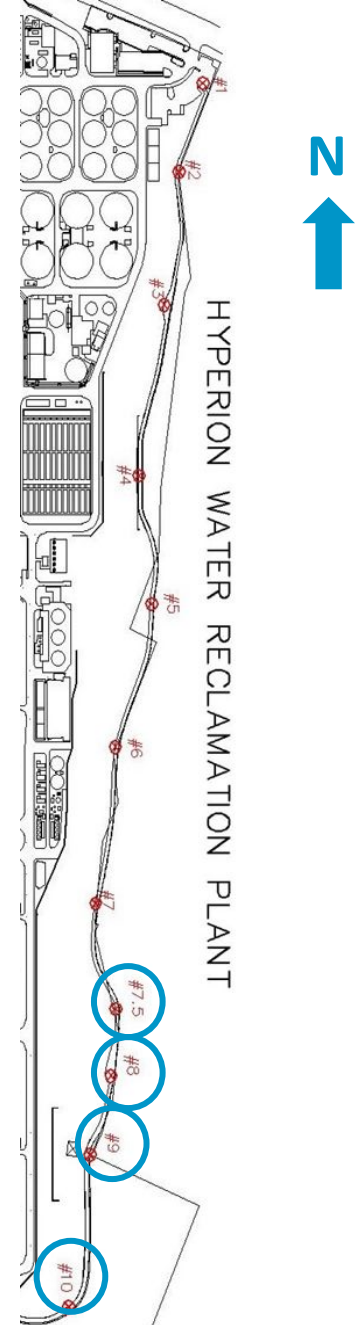
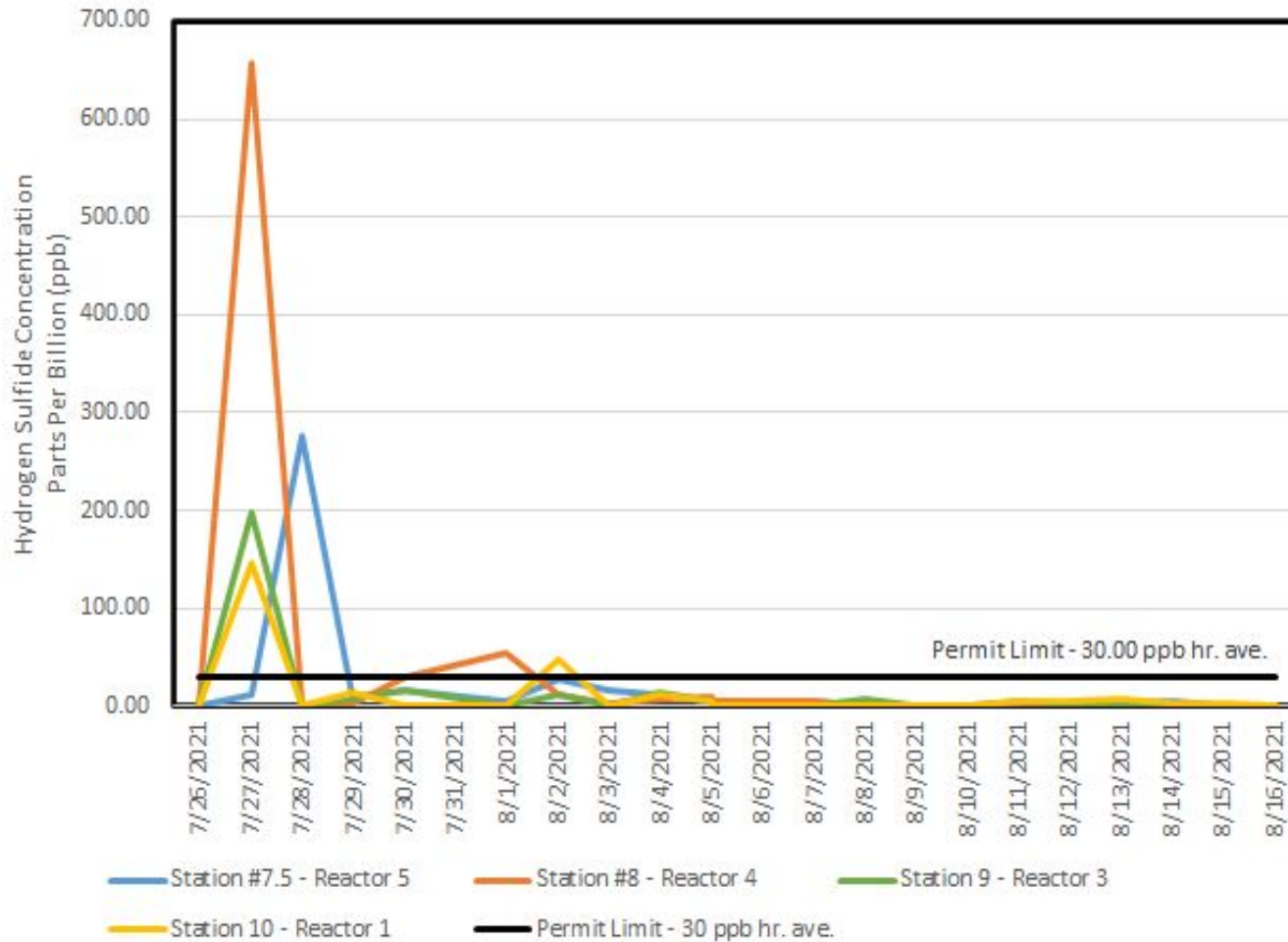
HYPERION WATER RECLAMATION PLANT



FENCE LINE MONITORING

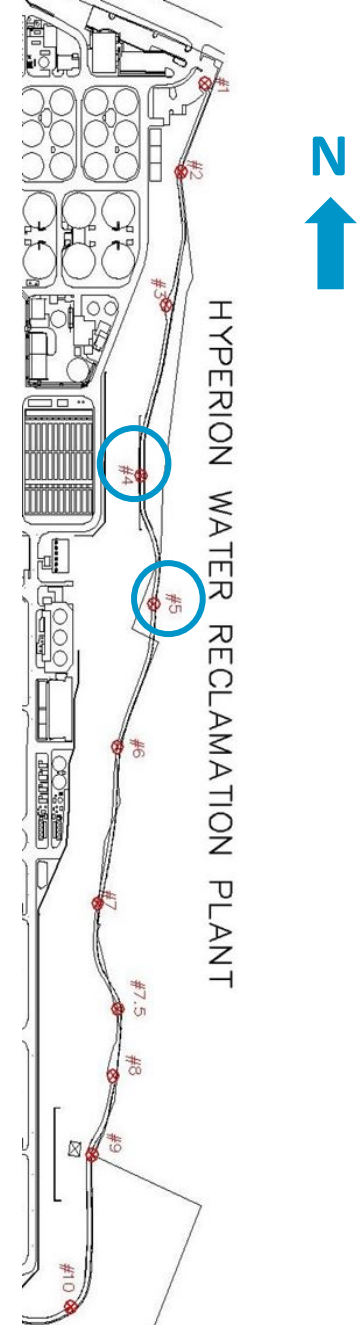
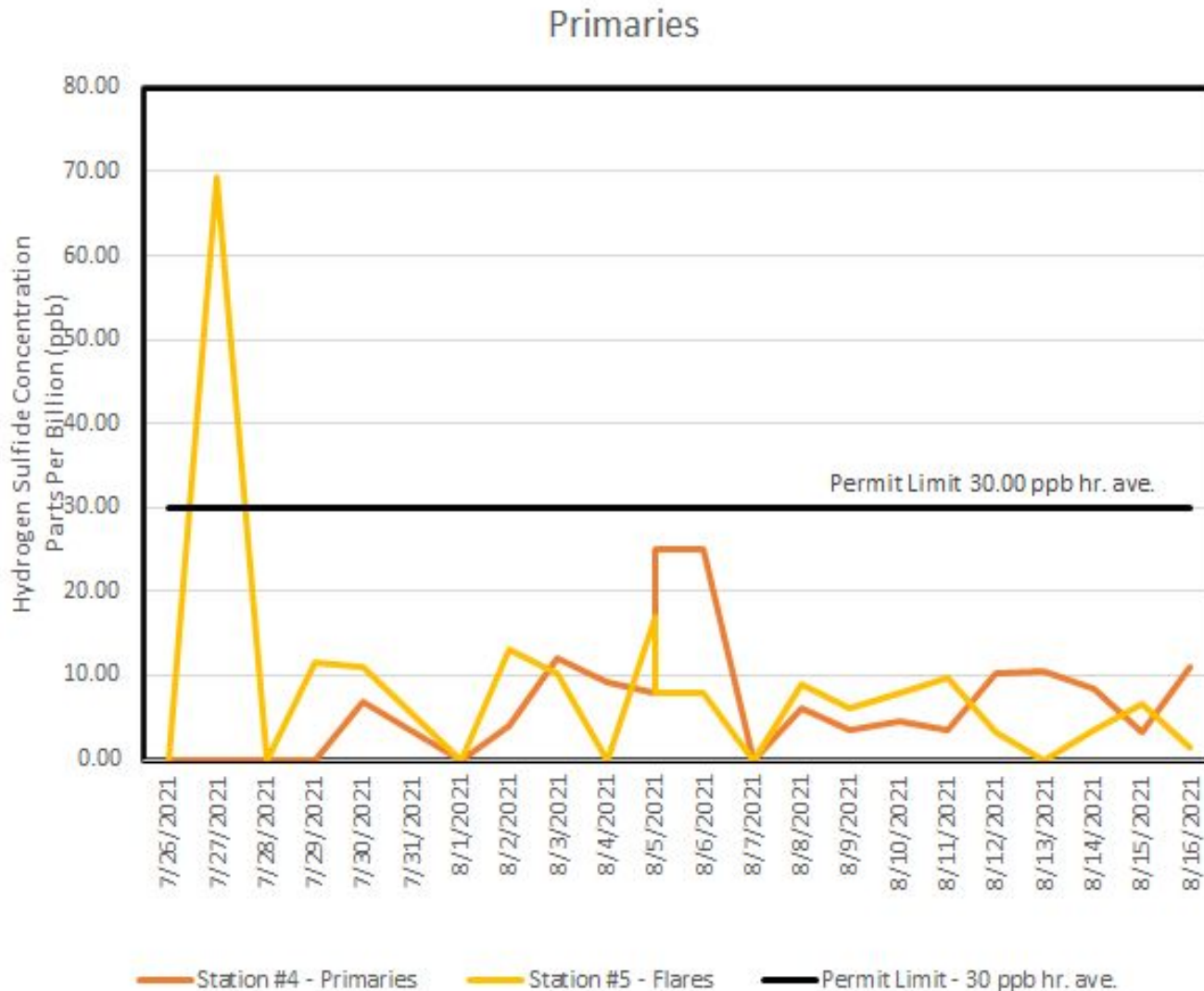
Air quality results

Secondary Clarifiers



FENCE LINE MONITORING

Air quality results



ODOR ABATEMENT/AIR QUALITY

- Odor scrubber facilities in operation year-round
- Bleach used only inside plant buildings, not outside
- Use of deodorizer halted, although AQMD had no concerns after reviewing MSDS (material safety data sheet)
- Continue evaluation of fenceline monitoring
- Continuation of Hyperion odor hotline
(310-640-CITY)
- \$12M BioTrickling Filter for Headworks
- \$8M BioTrickling Filter for Intermediate pump station
- Evaluate further steps to mitigate odor emissions from the Headworks building



Basics: www.lacitysan.org/alerts (updated regularly)

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REIMBURSEMENT PROGRAM

Payment information

- ~1400 reimbursement requests received via secure online form
- Two trial batch runs to test system - now will move faster
- Working closely with Office of Accounting and Controller's Office to ensure that reimbursements are expedited as top priority
- Small, consistent team due to sensitive information
- Processing time is taking longer due to incomplete and duplicate submissions
- Questions may be directed to our 24-hour Customer Care Center at **1-800-773-2489** or **sanhyperion@lacity.org**

Common Issues:

- For hotels, missing names or DOB for occupants
- For AC, can't verify square footage of home
- Full name not typed into last box on application to accept offer
- Emails not opened
- Attachments exceed 30mb
- Name on application and reimbursement form don't match
- W9 uploaded with no receipts/vice-versa
- Duplicate submissions

INFORMATION SHARING

Hyperion 2021 Recovery web page

- All LASAN lab results
- Correspondence with regulatory agencies, including violation notices
- Critical process equipment status

Plant Visits

- Invitations extended to media, elected officials, and NGOs to visit Hyperion
- Facility and equipment photos shared

Media and Regulatory Agencies

- Full cooperation including inspections, investigations, and sharing of data
- Sending frequent statements with updates

Modernized Communications

- Enhanced relationships with stakeholders and neighboring cities
- Expanded El Segundo Citizens' Forum
- More active communications with LA County



NEXT STEPS

Several third party assessments undertaken

- Plant protocols and procedures
- Conveyance system
- Communications: education campaign, notification procedures, enhanced collaboration

Facility and Process Improvements

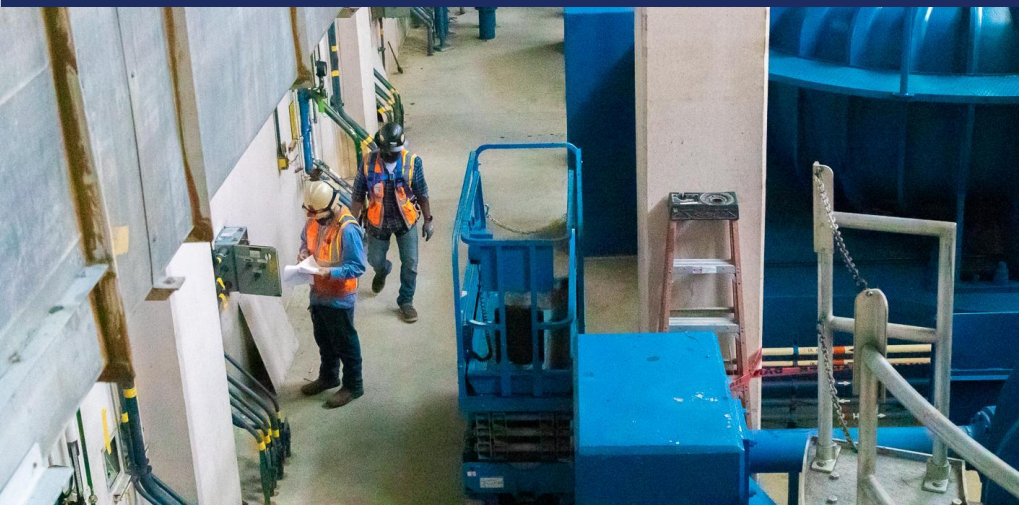
- Implement procedures to open bypass gate at pre-specified water levels
- Seal and waterproof doors to prevent damage to equipment inside plant facilities (46-50 doors)
- Provide multiple connections to reroute flows from the plant storm drain system and minimize overflow of wastewater into Santa Monica Bay in the event of a spill
- Work with AQMD to evaluate and improve air quality monitoring
- Anticipate normal operations resuming end of August

Findings and recommendations





QUESTIONS?



For more information about Hyperion Water Reclamation Plant, this incident, and next steps, please visit our website:

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or call our 24-hour Customer Care Center at 1-800-773-2489

