

# LUDLOW PARK RESIDENTS ASSOCIATION MEETING

YONKERS JOINT WRRF  
THURSDAY SEPTEMBER 28, 2017

A presentation by the Department of  
Environmental Facilities



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**Robert P. Astorino**  
Westchester County Executive



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Westchester County Executive



**County Executive Robert P. Astorino  
uses three guideposts (The Three P's)  
to manage Westchester County:**

- Protect Taxpayers
- Preserve Essential Services
- Promote Economic Growth

# Yonkers Joint O&M Management Team

- Jeff Bryant
  - Plant Superintendent
  - 231-2847
- 
- John Lennon
  - Supervisor of Plant Operations
  - 231-2852
- Erwin Vazquez
  - Supervisor of Maintenance
  - 231- 2850

# Odor Remediation Project – SY009

- Phase I, \$9.6 Million – Screen & Grit Bldg HVAC and Odor Control including Ludlow St PS Odor Control
  - 99% Complete
  - In closeout
- Phase II, \$9.8 Million – HVAC System Upgrades to Blower, Admin Bldgs. & New boilers
  - 99% Complete
- Phase III, \$7.3 Million – Odor Control for Primary Access Bldg & South Pumping Station, HVAC systems in several other area's and buildings
  - Scheduled Completion May 2018
  - 21% Complete



# Odor Remediation Project – SY009

- Phase IV \$ 5.0 Million

Secondary Sludge  
Thickening Bldg. HVAC  
Upgrades

- Phase V  
Consultant Odor Study

- Request Construction  
Bonding 3<sup>rd</sup> Quarter  
2017
- Ongoing

# Other Construction Projects

- Emergency Generator Replacement

New Electrical Switchgear and new Emergency Generator

- 99% complete

- Anaerobic Digester Gas Fueled Generator

New ADG Fueled Generator to Generate Electricity for Plant Use

- 99% Complete
- Engine is running supplying electricity

# Other Construction Projects

- Sandy Repair Phase I

Replacement of motors, wiring and control panels for process pumps located in the basement.

- Sandy Repair Phase II-2

Repair and rewire site lighting

Replace motors and wiring for tank collection systems

- 100% Complete

- Construction Started Approximately 7% complete



# Other Construction Projects

- Sandy Repair Phase II-3

Replace and rewire interior lighting. Install new Potassium Permanganate system

- Sandy Repair Phase III

New motors, wiring, and controls for Basement Sump system and Primary Digester Process

- Construction started  
Approximately 13% complete

- Construction started  
Approximately 30% complete

# Other Construction Projects

- DAF Upgrade

Replacement of DAF Thickeners with new Gravity Belt Thickeners and Related Equipment

- Engine Replacement Project

Multi Phase Project to Replace Engine driven Blowers with Turbo Blowers and ADG Engines and various other upgrades to Secondary System

- Construction contract awarded awaiting kickoff meeting
- Phase II design at 100%
- Phase III design at 100%
- Phase IV design at 30%

# Other Construction Projects

- Grit System Upgrade

Refurbishment of Grit Removal System With Redundancy Additions

- Sluice Gate Project

Replacement of Sluice Gates in Secondary System

- Secondary Treatment Area Upgrades

Refurbishment of Various Small Systems in Secondary Area

- Design Complete

- Design 90% Complete

- Design 90% complete. Water Audit scheduled for Fall 2017

# Other Construction Projects

- Vulnerability Work  
Design Improvements  
for Storm Resiliency
- Protect the WRRF for  
FEMA 500 Year  
Return Storm
- Future Projects
- Air Treatment Study (Starting 9/6/17)
- Electrical and Lighting Upgrade

# Annual Performance Report 2017

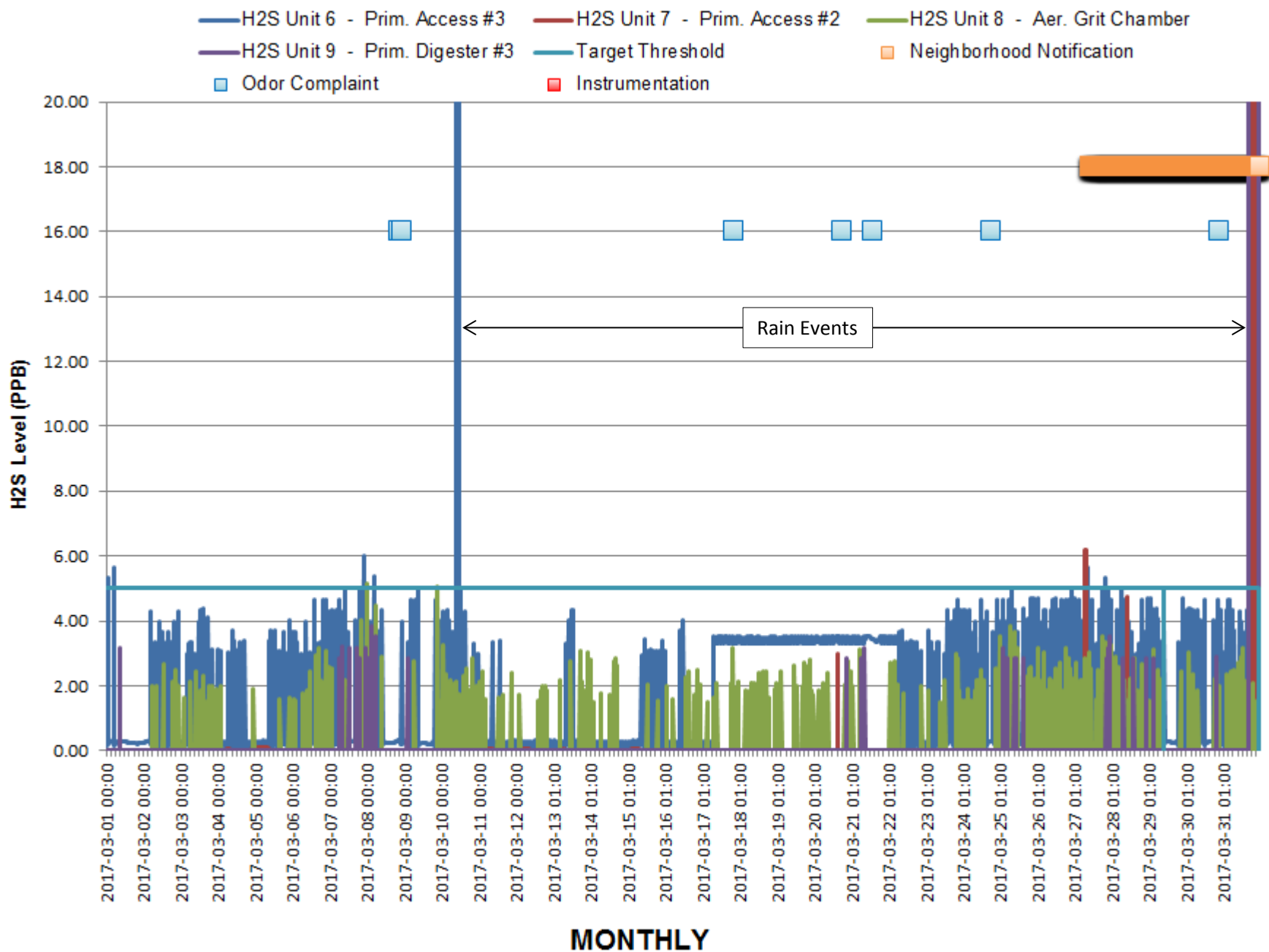
YONKERS JOINT WASTEWATER TREATMENT PLANT

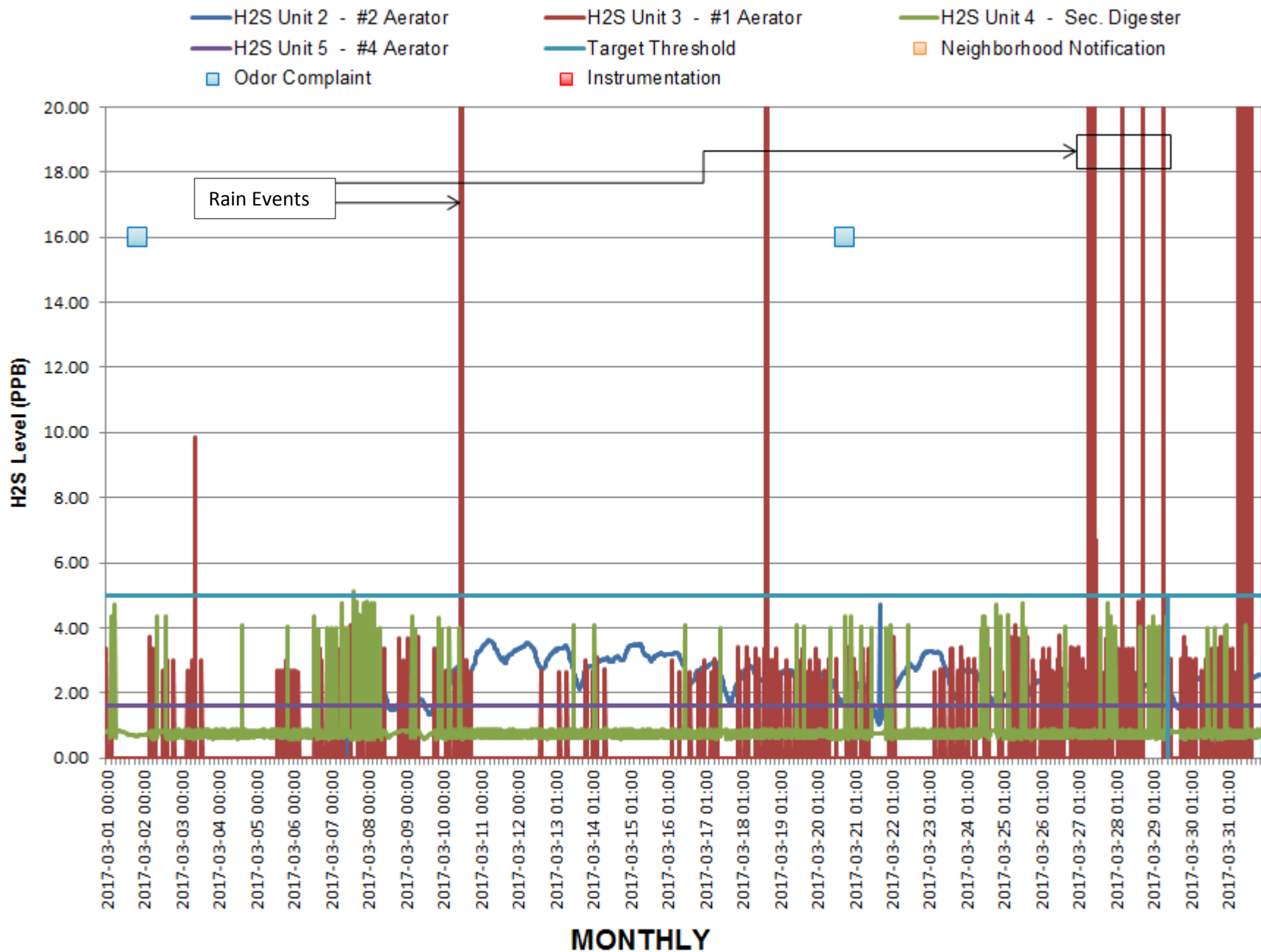
YEARLY PERFORMANCE REPORT

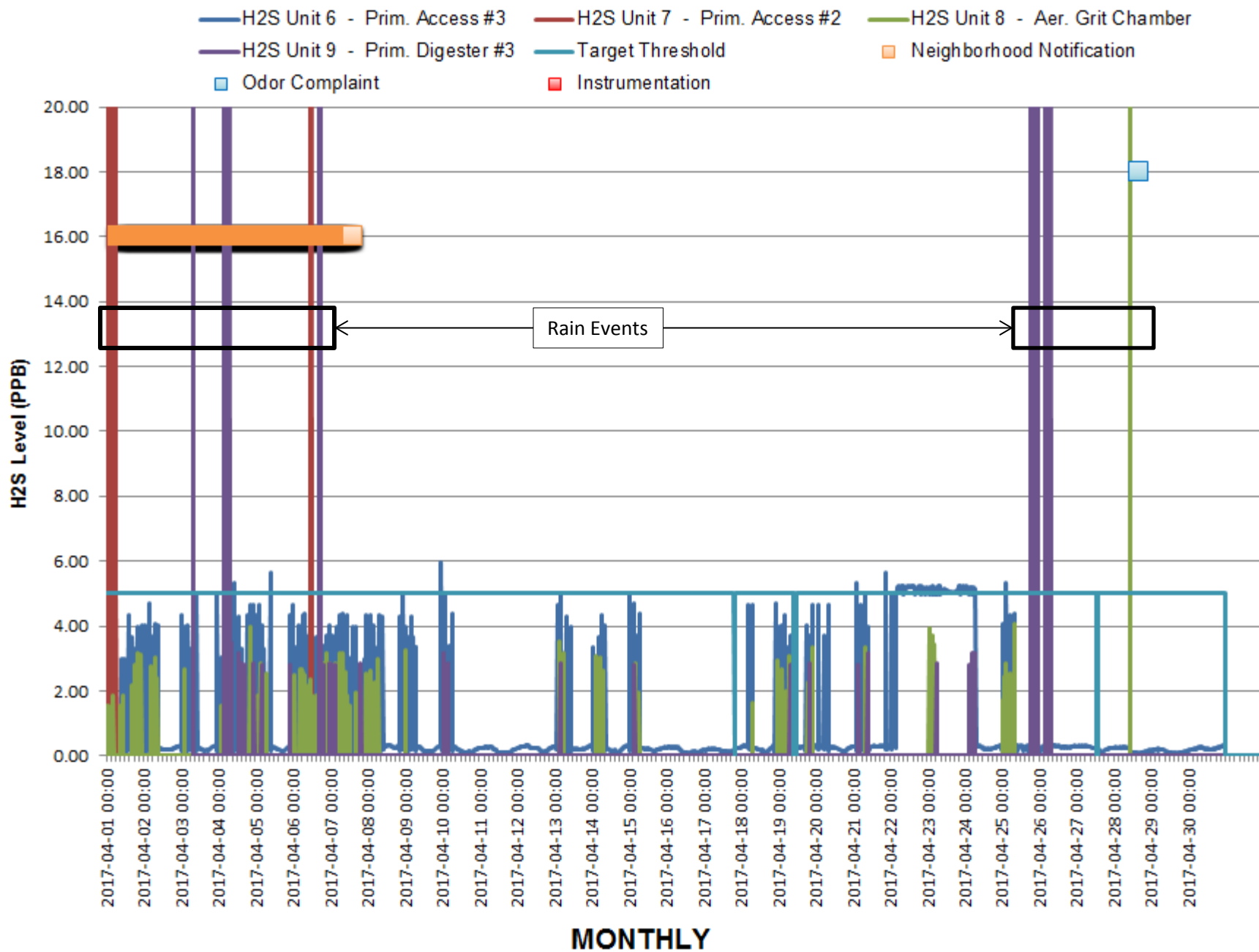
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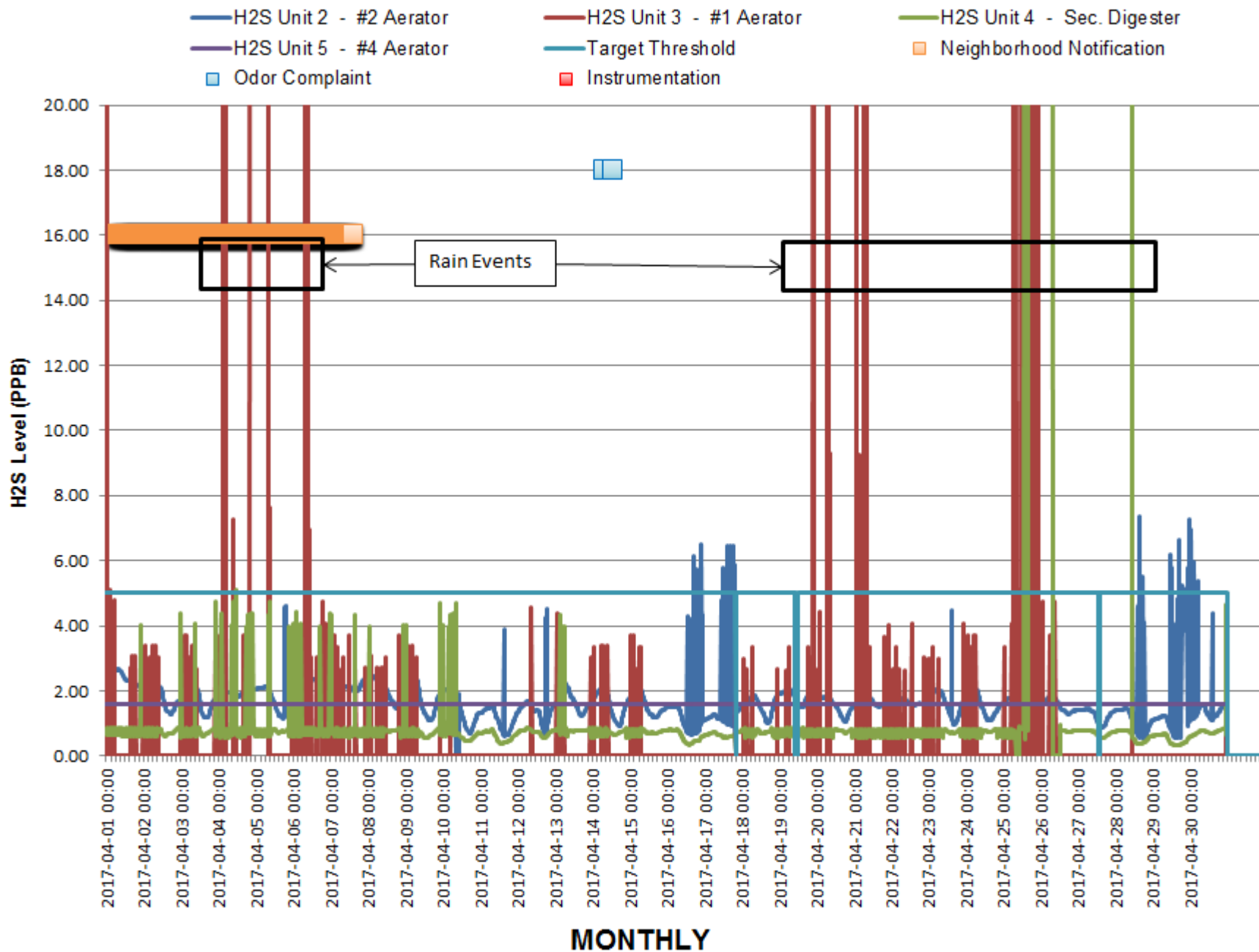
MONTH	FLOW THROUGH PLANT ( mgd )	Suspended Solids			Biochemical Oxygen Demand			SLUDGE CAKE REMOVED			SEWAGE	
		Inf Mg/L	Eff Mg/L	PLANT % Rem	Inf Mg/L	Eff Mg/L	PLANT % Rem	WET TONS	PERCENT SOLIDS	DRY M-TONS	SCREENINGS LBS	GRIT CU.YDS.
Jan '17	85	144	12	92	116	10	91	2,481	26.7	603	44,000	100
Feb '17	77	149	16	89	122	13	89	2,011	27.4	501	32,000	120
Mar '17	82	143	15	89	133	14	89	2,224	28.8	582	50,000	80
Apr '17	106	131	17	87	98	14	86	2,037	29.0	537	44,000	160
May '17	91	145	12	92	105	10	90	2,906	27.0	713	58,000	200
Jun '17	73	180	10	94	126	7	94	2,737	27.3	747	96,000	160
Jul '17	68	171	8	96	127	7	95	2,346	27.4	585	48,000	100
Aug '17	63	178	18	90	124	12	91	2,616	28.0	667	48,000	140
Sep '17	54							121				
Oct '17												
Nov '17												
Dec '17												
<b>Ave</b>	78	155	14	91	119	11	91		27.7			
<b>Max</b>	106											
<b>Total</b>	700							19,478		4,935	420,000	1,060

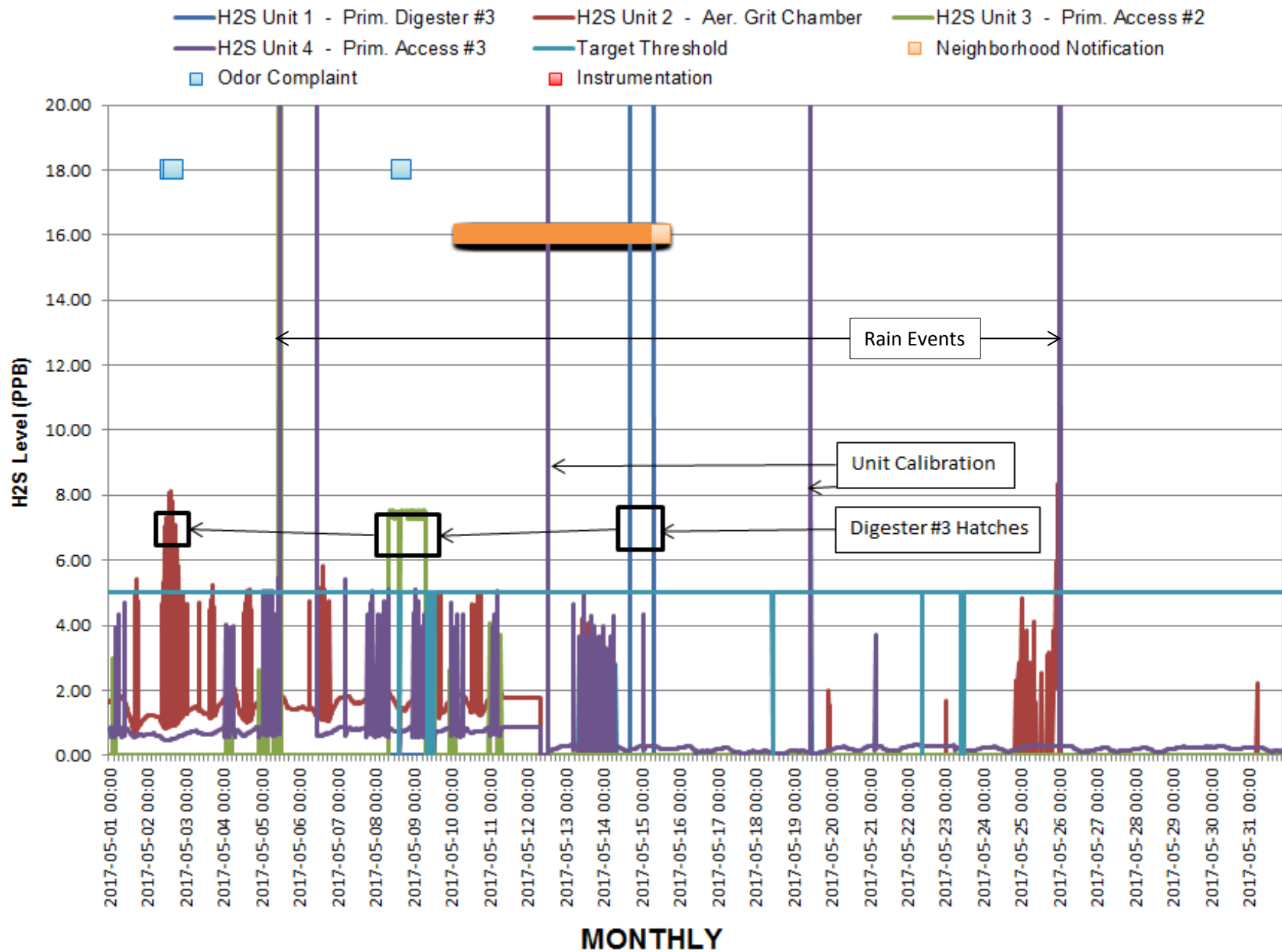




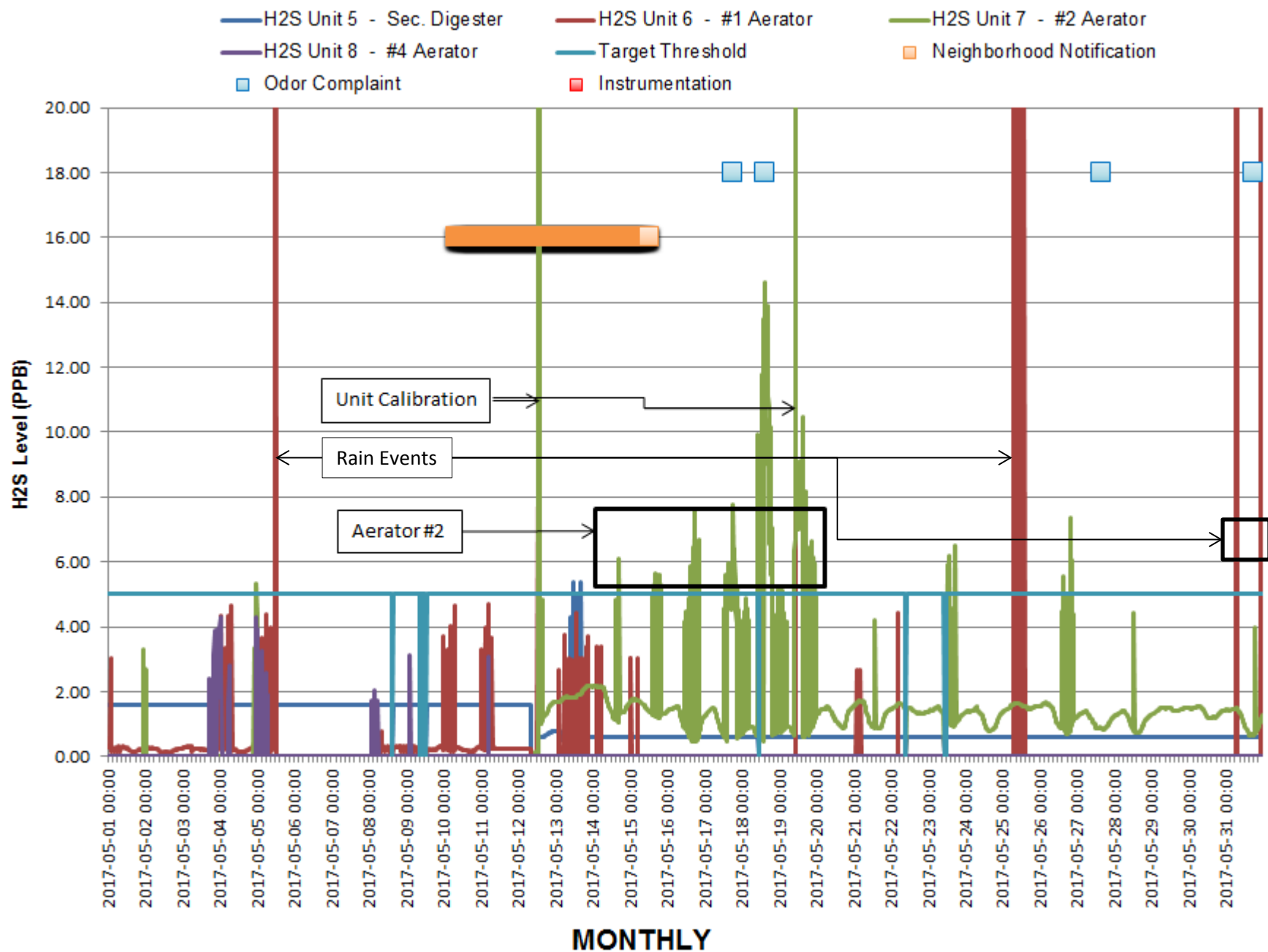


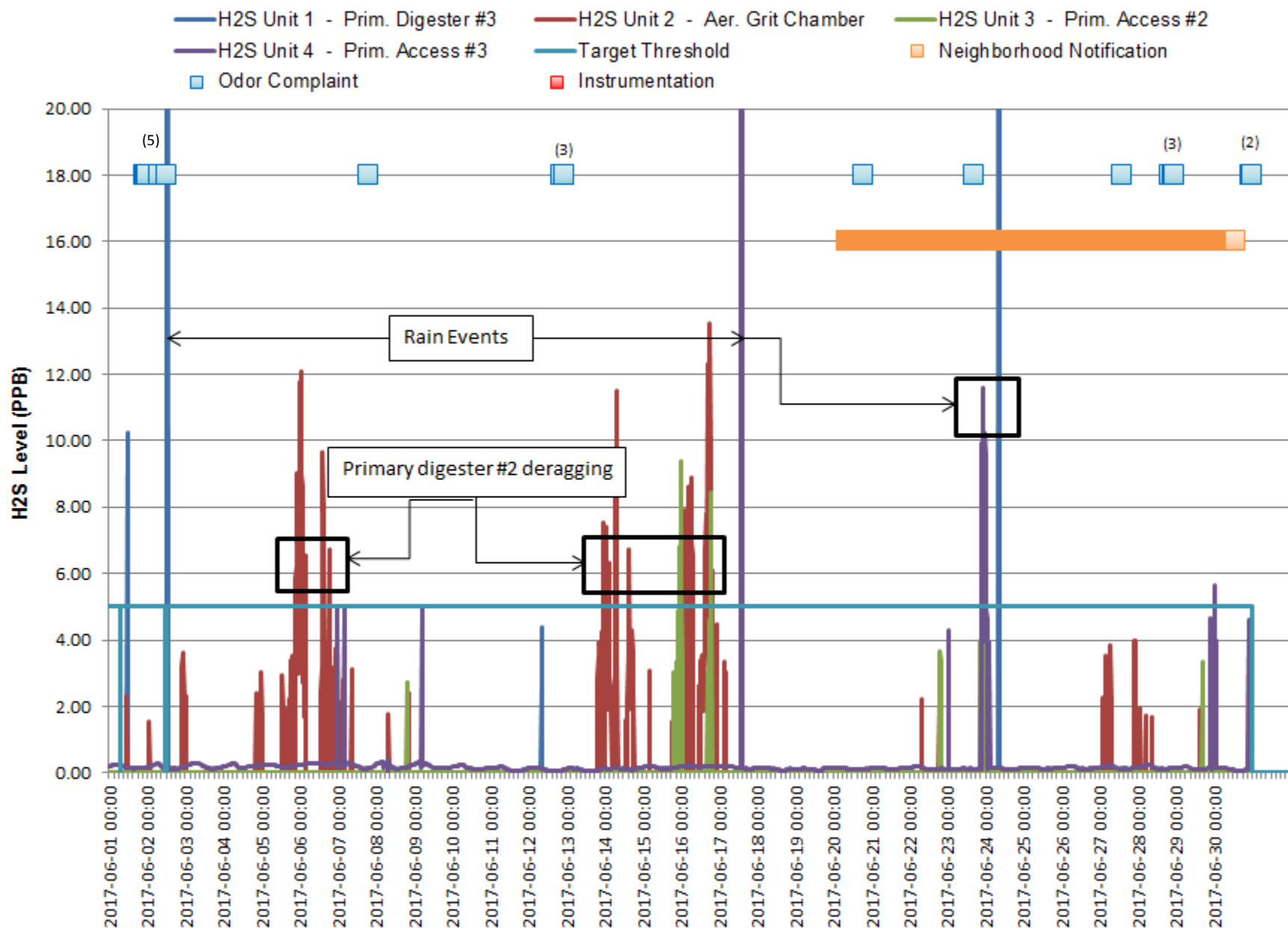


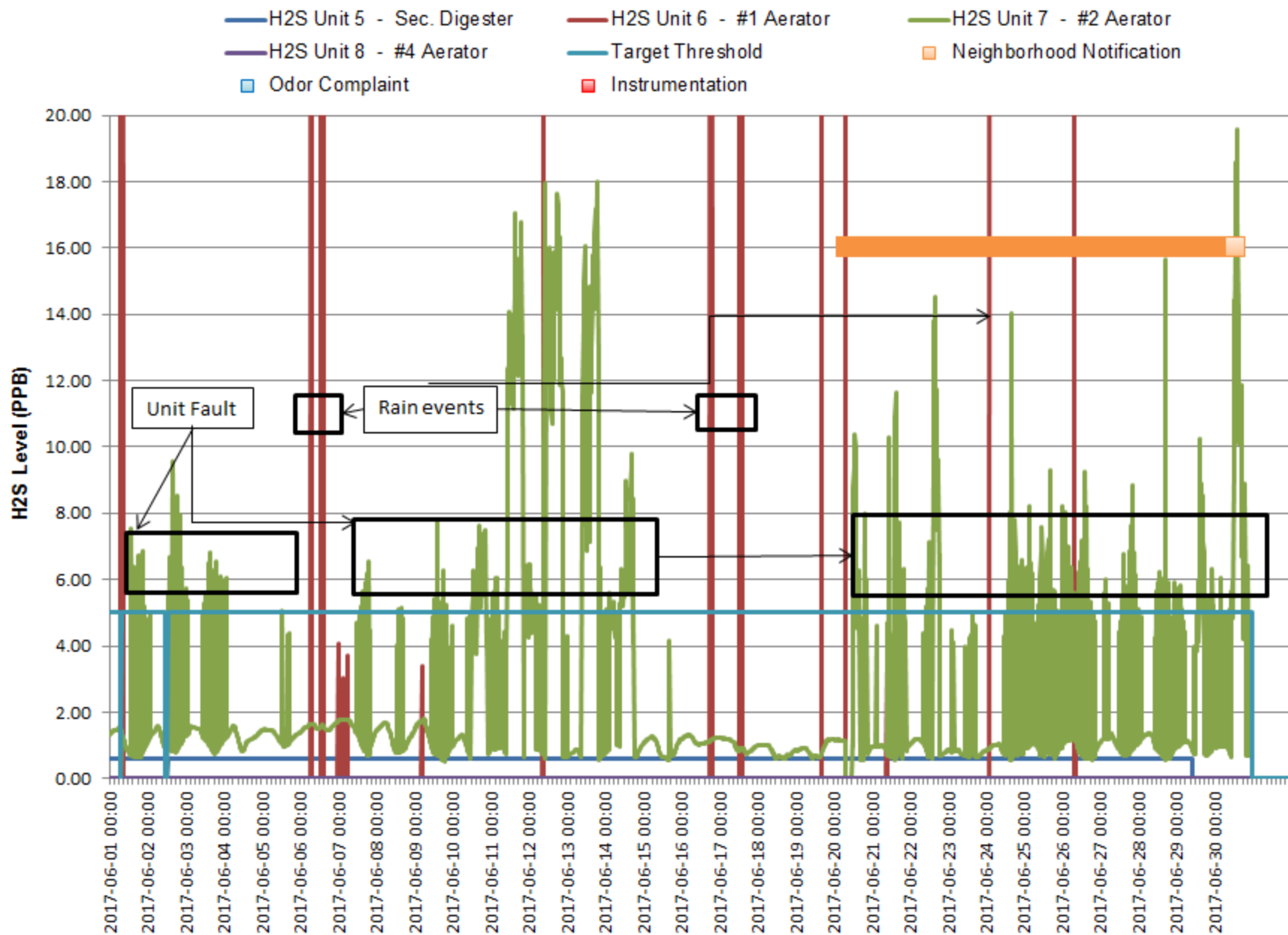


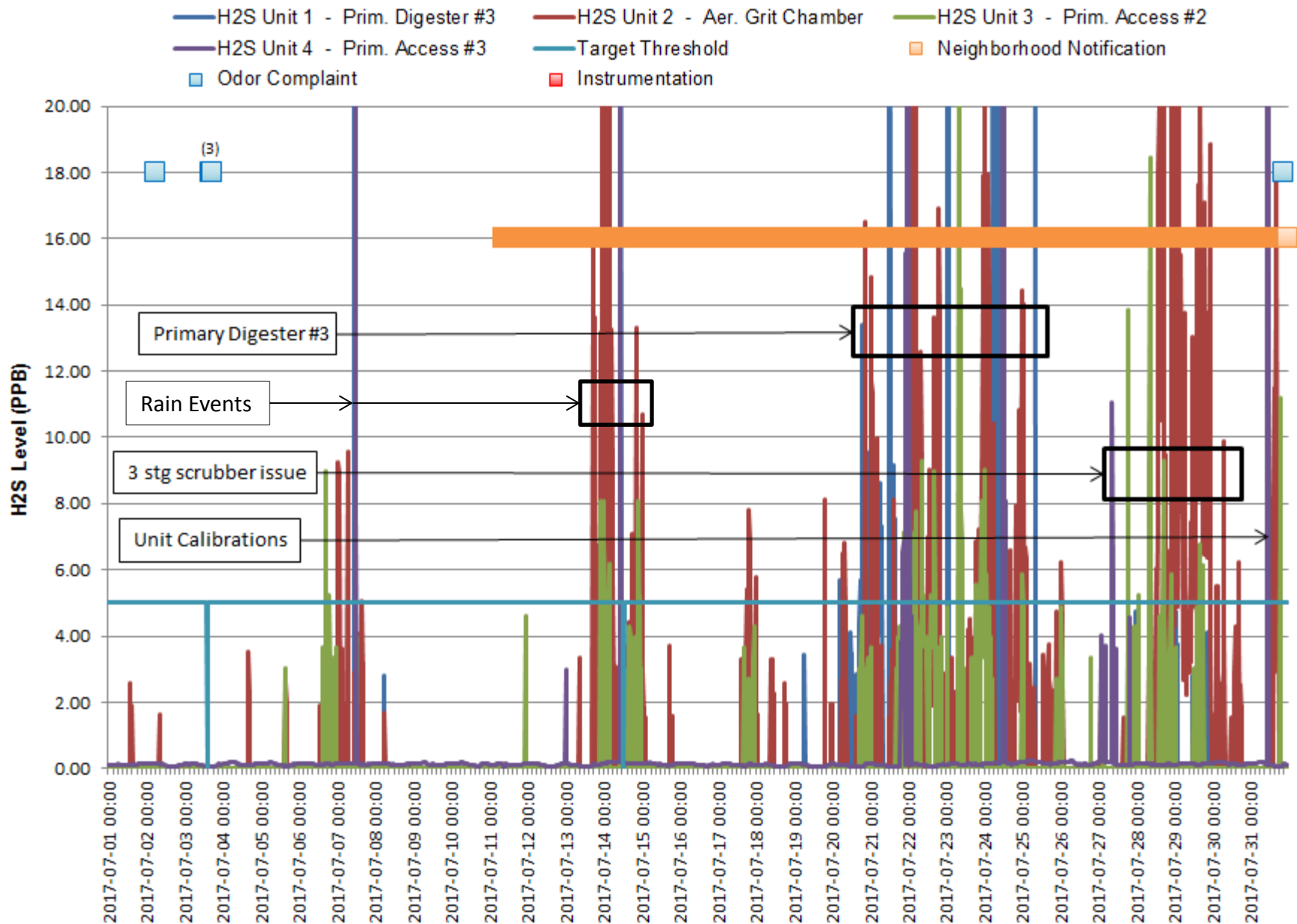


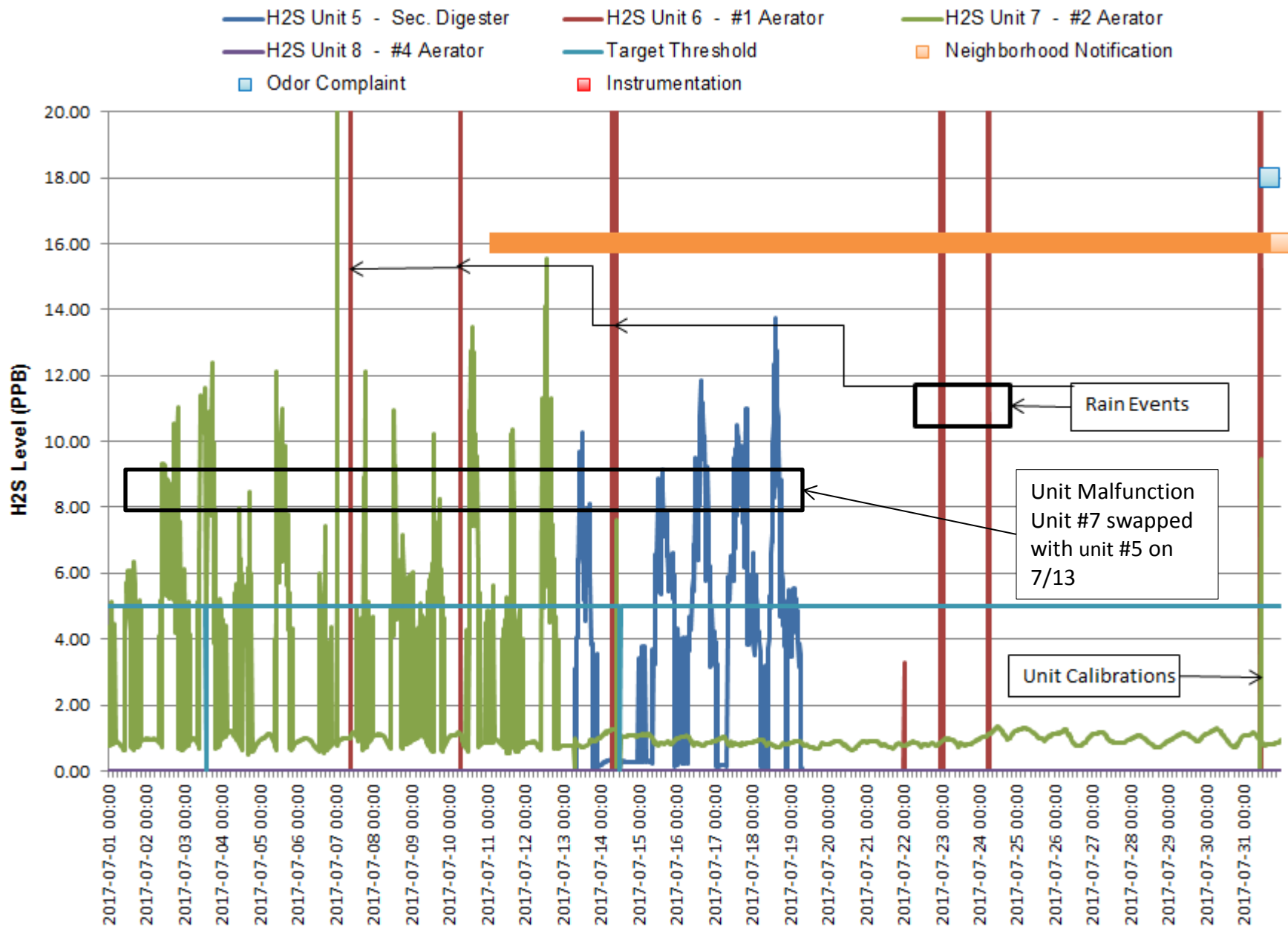




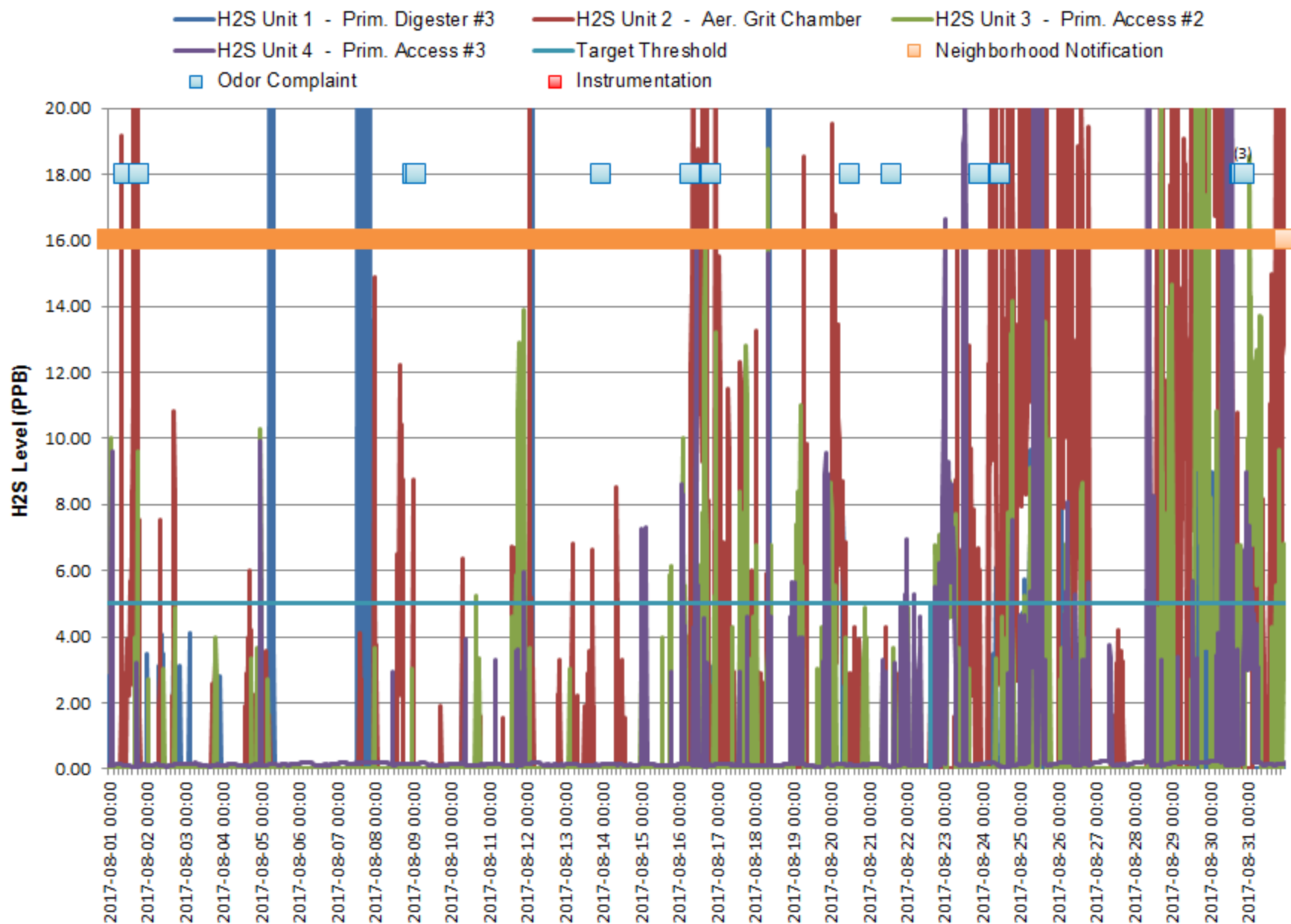












Spikes due to Primary Digester and Primary Thickner operational issues



# Questions

## Thank You