

Victor Valley Wastewater Reclamation Authority



Operations and Maintenance Report

4th Quarter 2025

**Victor Valley Wastewater Reclamation Authority
Operations and Maintenance Report**

TO: Board of Commissioners

FROM: Kody Tompkins- Director of O&M

SUBJECT: Operations & Maintenance Report

DATE: Jan 21st, 2026

The following information details the operation of the Victor Valley Wastewater Reclamation Authority for the fourth quarter of 2024. Included in this report is pertinent information regarding flows, process control information, process sampling, permit requirements, operations activities, and facility maintenance activities.

Pertinent Flow / Receiving Data

Month	Oct	Nov	Dec	Quarterly Total
Total Flow Influent Flow	346.42 MG	346.01 MG	371.44 MG	1,063.87 MG
Total Flow to Mojave	304.79 MG	247.51 MG	250.35 MG	802.65 MG
Total Flow to Perc Ponds	74.56 MG	115.74 MG	139.89 MG	330.19 MG
Total 3W Flow to American Organics	1.37 MG	0.5 MG	0.71 MG	2.58 MG
Total 3W Flow to Victorville	0.0 MG	0.0 MG	0.0 MG	0.0 MG
Total Hesperia Influent Flow	13.20 MG	17.12 MG	18.08 MG	48.40 MG
Total 3W Flow to Hesperia	5.68 MG	12.59 MG	15.62 MG	33.89 MG
Total Apple Valley Influent Flow	22.06 MG	19.72 MG	21.07 MG	62.85 MG
Total 3W Flow to Apple Valley	4.66 MG	3.59 MG	5.93 MG	14.18 MG
Total Septage Received	0.48 MG	0.35 MG	0.5 MG	1.33 MG
Total ADM/FOG Received	2.01 MG	1.63 MG	1.53 MG	5.17 MG
Total Digester Gas Production	28.9 MSCF	22.2 MSCF	22.8 MSCF	73.9 MSCF

Work Order Activity

KPI	Count				Percent			
Month	Oct	Nov	Dec	Total	Oct	Nov	Dec	Total
Planned Work Total	179	196	180	555				
Planned Work Completed	171	190	178	539	95%	96%	98%	97%
Planned Work Completed On-Time	160	180	162	502	89%	91%	90%	90%
Planned Work Incomplete	8	6	2	16	4%	3%	1%	2%
Planned Work Completed Late	11	10	16	37	6%	5%	8%	6%
Reactive Work Completed	164	70	129	363	48%	32%	46%	43%
PM Work Completed	175	145	148	468	52%	68%	54%	57%
Total Work Completed	339	215	277	831				

VVWRA RWWTP Activities

- **Permit Continuous Monitoring Requirements**
 - Permit required monitoring equipment was on-line and working properly.
 - PH and conductivity probes cleaned and calibrated.
 - TSS and Turbidity probes were cleaned and calibrated.
 - UVT probe cleaned and calibrated.
 - Intensity probe verifications completed monthly.
- **Permit Violations**
 - There were no permit violations.
- **Sampling**
 - All permit required samples were collected and processed.
- **Safety**
 - Vehicle safety inspections completed monthly.
 - Gas Monitor inspections completed monthly.
 - Eyewash safety showers inspected monthly.
 - SCBA inspections completed monthly.
 - Hazardous storage area inspection completed.
 - Spill kit inspections completed.
- **Backup Generator Tests**
 - Routine testing of the backup generators completed monthly.
- **Essential Equipment Maintenance**
 - Aqua guard pre-treatment screen inspected and serviced, as necessary.
 - Headwork's conveyor belt lubed and inspected.
 - Grit classifier PMs completed.
 - Monthly daft lube PMs completed.
 - Primary clarifier shear pins replaced as needed.
 - Primary sludge pump PMs completed.
 - Pillar blower inspections completed.
 - Service air compressors inspected and serviced, as necessary.
 - Waukesha engine inspections completed.
 - Turblex blowers inspected and serviced, as necessary.
 - Monthly tertiary filters platform PMs completed.
 - Monthly tertiary filter cleaning PMs completed.
 - Monthly tertiary filter festoon inspections completed.
 - UV System cleaning PMs completed.
 - DAFT Air Compressor PMs completed.
 - DAFT monthly PMs completed.
 - Monthly UREA refills on CHPs completed.
 - CHP exhaust differential pressure readings taken.
 - CHP gas differential pressure readings taken.

Operations Activities

- **BNR Process**
 - Maintained permit compliance throughout BNR process.
- **ADM/FOG Receiving**
 - Receiving 90 trucks on average weekly.
- **CoDigestion**
 - Four digesters are online and operating.
- **UV Disinfection**
 - UV channels cleaned each month.

Maintenance Activities

- **Process Equipment**
 - 2G CHP service performed.
 - Bar screens serviced.
 - Grit pumps serviced.
 - Headworks conveyors serviced.
 - Waukesha's serviced.
 - Installed new scum collectors wear pads in primary 1-4
 - Bar Screen #2 Chain Replacement
 - Waukesha Engine 4 & 5 Source Tested
 - Sludge Lagoon #2 Cleaned
- **Vactor Cleaning**
 - Septage Receiving Grit Chamber.
 - Septage EQ basin.
 - Storm Drains.
 - Digester 4 & 5 supernate lines jetted.
 - Decant structure lines jetted.
- **Pump services / Replacement.**
 - Percolation pond pumps serviced
 - Service water pumps serviced.
 - Supernate Pump Serviced
 - GBT Transfer pump serviced
 - Two Godwin Portable Pumps Serviced

VVWRA Apple Valley WRP Activities

- **Permit Continuous Monitoring Requirements**
 - Permit required monitoring equipment was on-line and working properly.
 - PH probes cleaned and calibrated.

- Turbidity analyzers were cleaned and calibrated.
- UVT probe cleaned and calibrated.
- Intensity probe verifications completed monthly.
- **Permit Violations**
 - No permit violations.
- **Sampling**
 - All permit required samples were collected and processed.
- **Safety**
 - Gas Monitor inspections completed monthly.
 - Eyewash safety showers inspected monthly.
 - Spill kit inspections completed.
- **Backup Generator Tests**
 - Routine testing of the backup generators completed monthly.
- **Essential Equipment Maintenance**
 - Fine screens inspected and serviced, as necessary.
 - Aerzen process blower inspections completed and serviced, as necessary.
 - Aerzen MBR blower inspections completed and serviced, as necessary.
 - UV System cleaning PMs completed.
 - MBR system PMs completed, as necessary.

Operations Activities

- **MBR Basins**
 - Weekly maintenance cleans performed per manufacturer's recommendation.
- **Recycled Water Operations**
 - Sent water to Irrigation Pond.
- **UV Disinfection**
 - Acid cleans performed.

Maintenance Activities

- **Otoe Lift Station**
 - Regular PM's performed.
 - De-ragged both Hidrostral pumps.
 - Wet well cleaning performed
 - Otoe Twisters serviced
 - Duperon Auger Installed
 - Biofilter Fans Serviced
- **PMs / Inspections**

- Inspection and maintenance of MCCs, and PLC cabinets completed.
- Mechanical equipment PMs and inspections completed.
- **Services / Repair**
 - Regular PM's performed.
 - Make-up Air Blowers Serviced
 - Wet-well cleaning.
 - Permeate pumps serviced
 - Aeration Air Bay #2 Diffusers Replaced

VVWRA Hesperia WRP Activities

- **Permit Continuous Monitoring Requirements**
 - Permit required monitoring equipment was on-line and working properly.
 - PH probes cleaned and calibrated.
 - Turbidity analyzers were cleaned and calibrated.
 - UVT probe cleaned and calibrated.
 - Intensity probe verifications completed monthly.
- **Permit Violations**
 - No permit violations.
- **Sampling**
 - All permit required samples were collected and processed.
- **Safety**
 - Gas Monitor inspections completed monthly.
 - Eyewash safety showers inspected monthly.
 - Spill kit inspections completed.
- **Backup Generator Tests**
 - Routine testing of the backup generators completed monthly.
- **Essential Equipment Maintenance**
 - Fine screens inspected and serviced, as necessary.
 - Aerzen process blower inspections completed and serviced, as necessary.
 - Aerzen MBR blower inspections completed and serviced, as necessary.
 - UV System cleaning PMs completed.
 - MBR system PMs completed, as necessary.

Operations Activities

- **MBR Basins**
 - Weekly maintenance cleans performed per manufacturer's recommendation.
- **Recycled Water Operations**
 - Continued sending water to offsite tank.
- **UV Disinfection**

- Acid cleans performed.

Maintenance Activities

- **Hesperia Lift station**
 - Wizard blowers serviced.
 - Wet-well cleaning.
 - Biofilter Fan #2 Rebuilt and Installed
 - Biofilter Fan Vault Air Exchange Fan Replaced
- **PMs / Inspections**
 - Inspections and maintenance of MCCs, and PLC cabinets completed.
 - Mechanical equipment PMs and inspections completed.
- **Services / Repairs**
 - Regular PM's performed
 - Permeate pumps serviced.
 - Fine Screens Serviced