



November 13, 2025  
Jeff Beecher  
San Joaquin Refining Co. Inc.

**Subject: San Joaquin Refining Co. Inc. Fence-line Monitoring Program  
Report Summarizing Periods When Systems Were Inoperative  
Quarter 3 2025**

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Dear Jeff Beecher

Argos Scientific, Inc. is pleased to submit this quarterly report associated with the fence-line air monitoring program at San Joaquin Refining Co. Inc. (SJR). This report has been prepared in accordance with San Joaquin Valley Air Pollution Control District's Rule 4460 and the program's Quality Assurance Project Plan (QAPP) for quarterly reporting.

The fence-line air monitoring data for SJR was made publicly available on August 26, 2025, providing real-time air quality information to the surrounding community. This report covers the time period for August 26, 2025 to September 30, 2025 and includes the details of the time periods when the systems were inoperative.

The monitoring network currently includes three open-path UV DOAS systems, two point monitor systems and one meteorological (MET) station. The systems were installed as outlined in the QAPP around the refinery perimeter and are depicted in Figure 1. Table 1 details the measurements recorded at each monitoring location.

The public-facing community website, where live data and visualizations can be accessed, is available at: <https://sjr.argos-scientific.com/>.

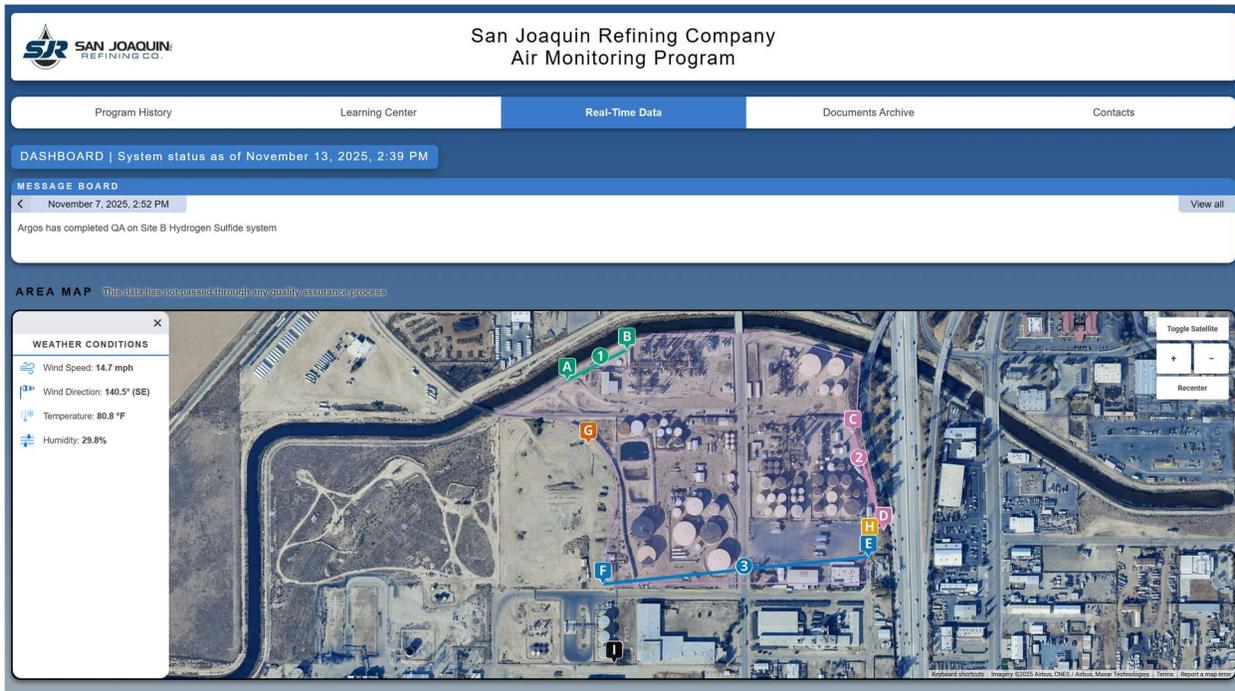


Figure 1: Community Website Landing Page

Table 1: Monitoring Site Locations

Site	Equipment	Measurements
Path 1 (Site A to Site B)	Open-path UV DOAS	Benzene, toluene, ethylbenzene, xylenes, sulfur dioxide, nitrogen dioxide, naphthalene
Site B	H2S point monitor	Hydrogen sulfide
Path 2 (Site C to Site D)	Open-path UV DOAS	Benzene, toluene, ethylbenzene, xylenes, sulfur dioxide, nitrogen dioxide, naphthalene
Path 3 (Site E to Site F)	Open-path UV DOAS	Benzene, toluene, ethylbenzene, xylenes, sulfur dioxide, nitrogen dioxide, naphthalene
Site G	MET Station	Wind speed, wind direction, temperature, humidity
Site H	H2S point monitor	Hydrogen sulfide
Site I*	H2S and SO2 point monitor	Hydrogen sulfide, sulfur dioxide

\*Site I in the installation and commissioning phase

## Path 1 Open-path UV DOAS Missing Data Points

Start Date/Time	End Date/Time	Number of 5-minute Data Points Missing	Reason for Missing Data Points
8/28/2025 16:20	8/28/2025 16:50	6	Maintenance – System realignment
8/29/2025 3:40	8/29/2025 3:45	1	Maintenance – System power cycle
8/29/2025 14:25	9/9/2025 10:20	3119	Equipment failure – Air conditioning system malfunctioned and instruments were powered off to protect against the heat. Instruments were restored to operation following the air conditioner replacement.
9/12/2025 9:20	9/12/2025 12:50	42	Maintenance – Follow up equipment inspection following the air conditioner replacement
9/14/2025 23:25	9/15/2025 2:00	31	Maintenance – System realignment
9/17/2025 23:35	9/17/2025 23:40	1	Comms issues – Issue was self-resolved
9/18/2025 15:55	9/18/2025 16:50	11	Routine QA
9/18/2025 19:50	9/18/2025 19:55	1	Maintenance – System realignment
9/18/2025 20:15	9/18/2025 20:35	4	Maintenance – System realignment
9/28/2025 14:45	9/28/2025 14:50	1	Systems check
9/29/2025 12:15	9/29/2025 12:25	2	Maintenance – System realignment

## Path 2 Open-path UV DOAS Missing Data Points

Start Date/Time	End Date/Time	Number of 5-minute Data Points Missing	Reason for Missing Data Points
8/27/2025 3:00	8/27/2025 3:05	1	Comms issues – Issue was self-resolved
8/27/2025 14:55	8/27/2025 15:00	1	Systems check
8/27/2025 15:05	8/27/2025 15:10	1	Systems check
9/2/2025 22:00	9/2/2025 22:05	1	Comms issues – Issue was self-resolved
9/11/2025 1:40	9/11/2025 1:45	1	Comms issues – Issue was self-resolved
9/17/2025 13:10	9/17/2025 13:15	1	Comms issues – Issue was self-resolved
9/18/2025 17:00	9/18/2025 17:35	7	Routine QA
9/24/2025 0:20	9/24/2025 0:35	3	Comms issues – Issue was self-resolved

## Path 3 Open-path UV DOAS Missing Data Points

Start Date/Time	End Date/Time	Number of 5-minute Data Points Missing	Reason for Missing Data Points
9/3/2025 11:00	9/3/2025 11:05	1	Systems check
9/3/2025 11:30	9/3/2025 11:35	1	Systems check
9/4/2025 16:15	9/4/2025 16:20	1	Systems check
9/18/2025 17:35	9/18/2025 18:30	11	Routine QA
9/22/2025 6:25	9/22/2025 11:05	56	Maintenance – System realignment
9/23/2025 0:20	9/23/2025 0:25	1	Comms issues – Issue was self-resolved
9/23/2025 0:40	9/23/2025 0:45	1	Maintenance – System realignment
9/23/2025 12:00	9/23/2025 12:50	10	Routine QA
9/24/2025 2:20	9/24/2025 2:30	2	Maintenance – System realignment

## Site B Point Monitor Missing Data Points

Start Date/Time	End Date/Time	Number of 5-minute Data Points Missing	Reason for Missing Data Points
8/29/2025 14:50	9/9/2025 9:20	3102	Equipment failure – Air conditioning system malfunctioned and instruments were powered off to protect against the heat. Instruments were restored to operation following the air conditioner replacement.

## Site H Point Monitor Missing Data Points

No missing data points for Site H point monitor for the time period for August 26, 2025 to September 30, 2025.

## Site G MET Station Missing Data Points

Start Date/Time	End Date/Time	Number of 5-minute Data Points Missing	Reason for Missing Data Points
8/29/2025 4:15	8/29/2025 4:25	2	Comms issues – Issue was self-resolved
9/13/2025 6:05	9/13/2025 6:15	2	Comms issues – Issue was self-resolved
9/13/2025 7:10	9/13/2025 7:15	1	Comms issues – Issue was self-resolved
9/17/2025 22:55	9/17/2025 23:00	1	Comms issues – Issue was self-resolved
9/22/2025 4:25	9/22/2025 4:30	1	Comms issues – Issue was self-resolved
9/25/2025 2:50	9/25/2025 2:55	1	Comms issues – Issue was self-resolved
9/25/2025 5:50	9/25/2025 5:55	1	Comms issues – Issue was self-resolved