



A KADANCE TECHNOLOGY

A HIGH-PERFORMANCE
OXYGEN INFUSION TECHNOLOGY

APPLICATION

Sanitary Sewer Collection System
In Flow Sulfide Oxidation

SUMMARY

A southern California city with a population over 100,000 was experiencing high dissolved sulfide levels in its largest sanitary collection system. The collection system averages 3-4 MGD of flow and 6-8 mg/l of dissolved sulfide which created foul odors in the surrounding communities and contribute to accelerated corrosion within the sewage lines infrastructure.

Kadance provided a mobile Nano2 oxygen infusion system at the pump station near the beginning of the collection system. The system provided six proprietary injection nozzles that infused up to 200 pounds of oxygen per day directly into the sewage flow at the pump station without system modifications. Sampling data collected over a period of 4 months, demonstrated a reduction of the 6-8mg/L baseline sulfide levels down to an average of 0.5-1mg/L, providing a more cost effective replacement for chemical treatment.



RESULTS

AVG. FLOW RATE	3-4 MGD
BASELINE	6-8 Mg/L
OXYGEN DELIVERED	150-200 lbs/day
TREATED	0.5-1 Mg/L

BENEFITS

- H₂S Odor reduction
- Cost savings replacing chemical treatment
- Corrosion reduction
- Modular, automated system design
- Flexible delivery with variable dosing
- Low-cost installation

PERFORMANCE DATA

