

CASE STUDY

ENVIRONMENTAL MONITORING & RESPONSE

50% DECREASE IN ILLEGAL DUMPING INCIDENTS THROUGH REMOTE SOLAR-POWERED MVR MONITORING

By using remote MVR units, automated alerts, and plate capture, the county was able to monitor illegal dumping in real time and issue citations based on the system's incident data, event clips, and license plate information.



AT A GLANCE



50%
DECREASE IN
ILLEGAL DUMPING
INCIDENTS



REMOTE SOLAR-POWERED
MVR MONITORING
24/7 COVERAGE



LICENSE PLATE
RECOGNITION CAPTURES
VEHICLE INFORMATION



COUNTY ABLE TO ISSUE
CITATIONS BASED ON
SYSTEM DATA



CLEANER COMMUNITIES.
STRONGER DETERRENCE.
BETTER OUTCOMES.



THE CHALLENGE

- Illegal dumping in remote and hard-to-monitor areas
- Limited visibility leads to repeat offenses and environmental harm
- Manual patrols are time-consuming and resource intensive
- Lack of evidence makes it difficult to hold violators accountable



THE OBJECTIVE

- ✓ Monitor remote dumping hotspots 24/7
- ✓ Detect and alert in real time
- ✓ Capture clear event clips and license plate data
- ✓ Reduce illegal dumping and environmental impact
- ✓ Provide actionable evidence for enforcement and citations



THE VIDEOGUARD SOLUTION

The county deployed VideoGuard solar-powered MVR units in high-risk dumping areas.

AI-powered analytics detect dumping events and notify authorities in real time.

The system captures high-definition event clips and license plate information—giving the county the evidence needed to issue citations and prosecute offenders.

TECHNOLOGY USED



AI-POWERED ANALYTICS
Detects illegal dumping activity and suspicious behavior.



REAL-TIME ALERTS
Instant notifications to authorities with event details.



HD VIDEO & EVENT CLIPS
High-definition video captures clear evidence of incidents.



LICENSE PLATE RECOGNITION
Captures plate numbers and vehicle information.



SOLAR-POWERED MVR
Self-sustaining remote units for 24/7 monitoring anywhere.

HOW IT WAS USED



DUMPING HOTSPOTS
MVR units placed in known illegal dumping areas.



REAL-TIME DETECTION
AI detects dumping events and vehicles in real time.



PLATE CAPTURE
License plates captured automatically for every incident.



ALERTS & REVIEW
Alerts sent to county staff with event clips and plate details.



CITATIONS ISSUED
County uses evidence to issue citations and prosecute offenders.

THE OUTCOME

50% DECREASE IN
ILLEGAL DUMPING
INCIDENTS



CLEANER ENVIRONMENT
Significant reduction in illegal dumping and environmental damage.



CITATIONS ISSUED
County able to issue citations based on event clips and license plate information.



STRONGER DETERRENCE
Visible monitoring and enforcement deter repeat offenders.



COST EFFECTIVE
Remote solar-powered units reduce fuel, labor, and operational costs.



SAFER COMMUNITIES
Cleaner, safer areas for residents and future generations.

“ The VideoGuard MVR system has been a game changer for our county. We can now monitor remote areas 24/7, capture clear evidence, and issue citations that hold violators accountable. The results speak for themselves—our communities are cleaner and our environment is better protected.

— County Administrator

