



LPR Camera

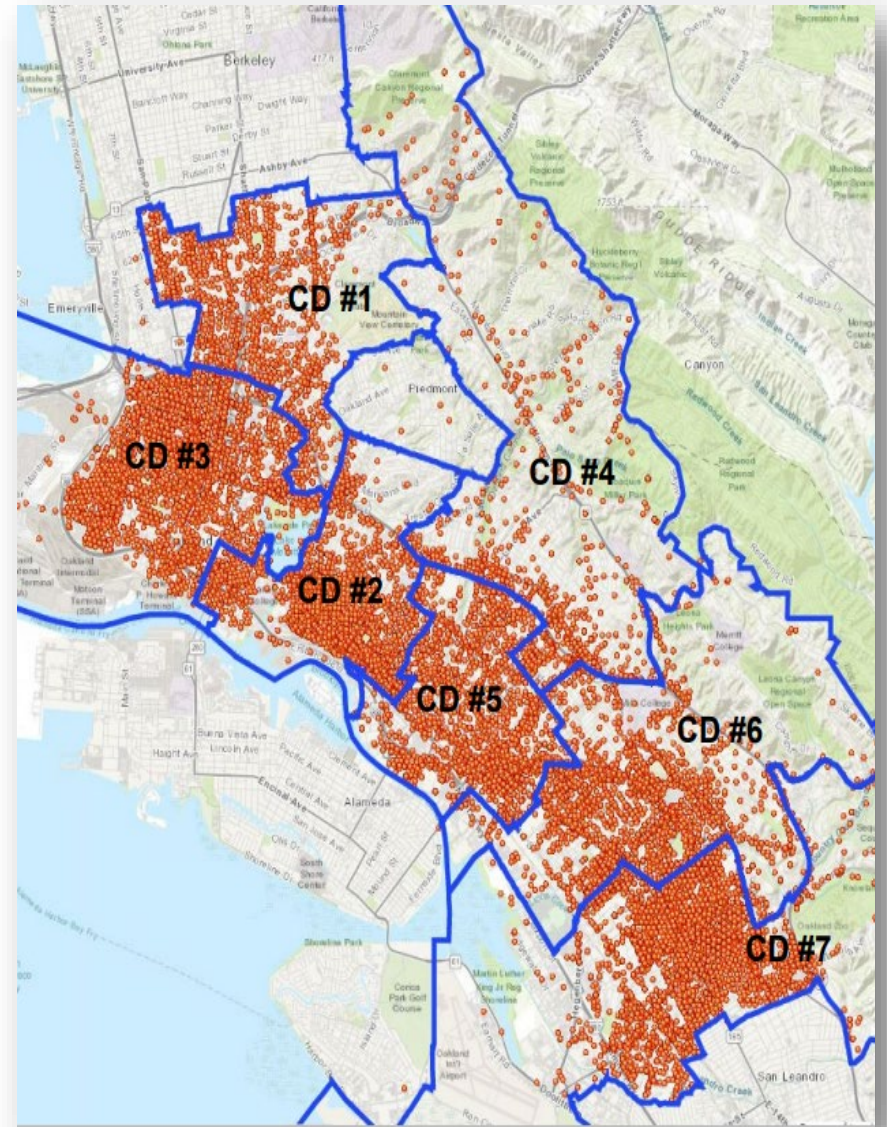


OPW Illegal Dumping Surveillance Camera Program

Amplifying Enforcement Efforts

ILLEGAL DUMPING IN OAKLAND

- Dumping continues to be a growing challenge
- March 2022 – OPW deploys illegal dumping surveillance cameras
- Annual Report for MAR 2022 – FEB 2023; Updated Use Policy



FY2021-22 Illegal Dumping Work Orders Completed by KOCB

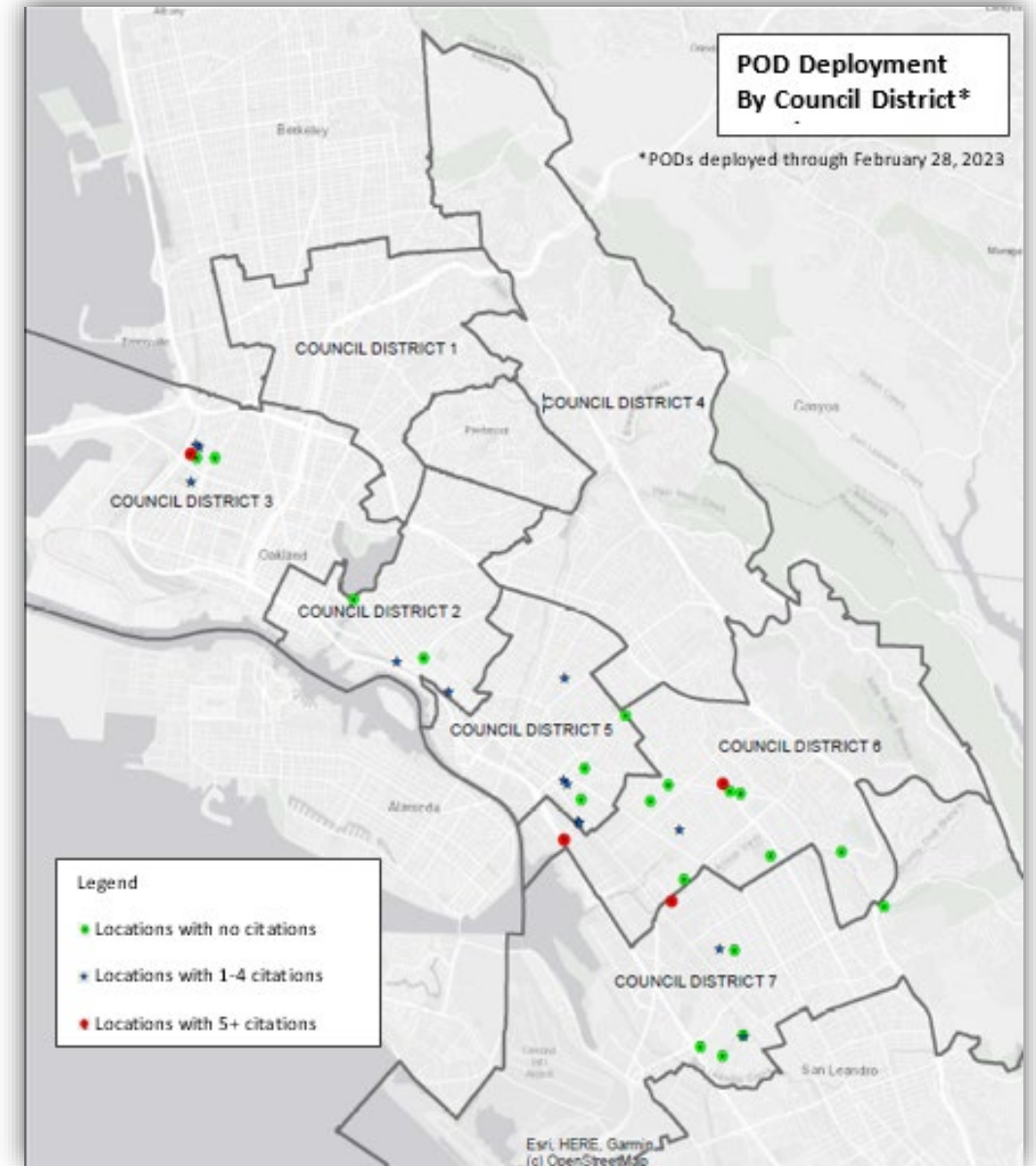
PORTABLE OBSERVATION DEVICE (POD)

- All-in-one, portable surveillance system in tamper-resistant, metal housing
- Four (4) cameras – one stationary; three pan/tilt/zoom (PTZ) cameras
- Includes digital video recorder, cellular router, wifi transmitter
- Uncomplicated technology – “No bells and whistles”
 - Not cloud-based
 - Onsite video storage
 - Easy to install
 - Photocell adapter to access power



POD DEPLOYMENT

- Data-driven deployment
- Strategy: Deploy cameras using Cityworks data, cross-referenced by Environmental Enforcement field intel
- Most hotspots in Council Districts 3, 5, 6, and 7

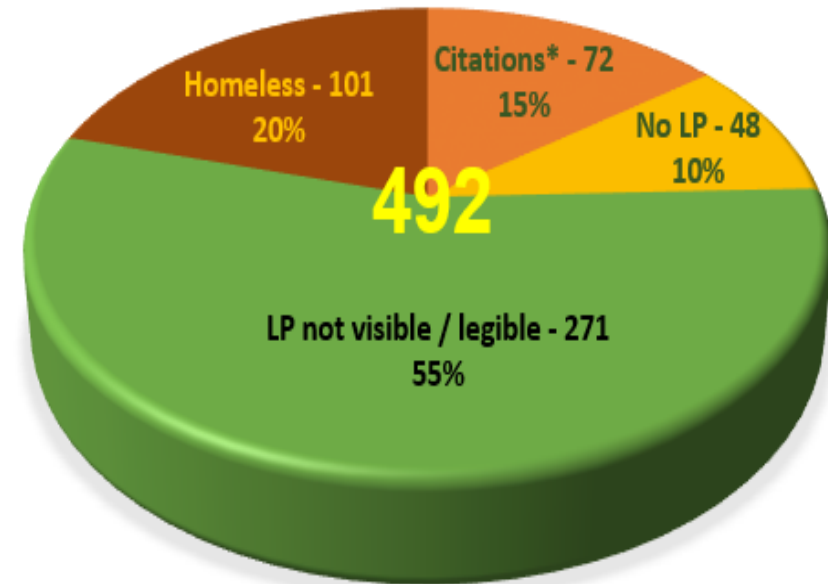


SURVEILLANCE CAMERA EFFICACY

Table 1: DUMPING CAUGHT ON CAMERA
March 2022 - February 2023

	TOTAL	Percentage
Citations (Mar 1 - Nov 14 2022)	72	15%
No License Plate (LP)	48	10%
LP not visible / legible	271	55%
Homeless	101	20%
<i>Source: EEU Log</i>	TOTAL	492

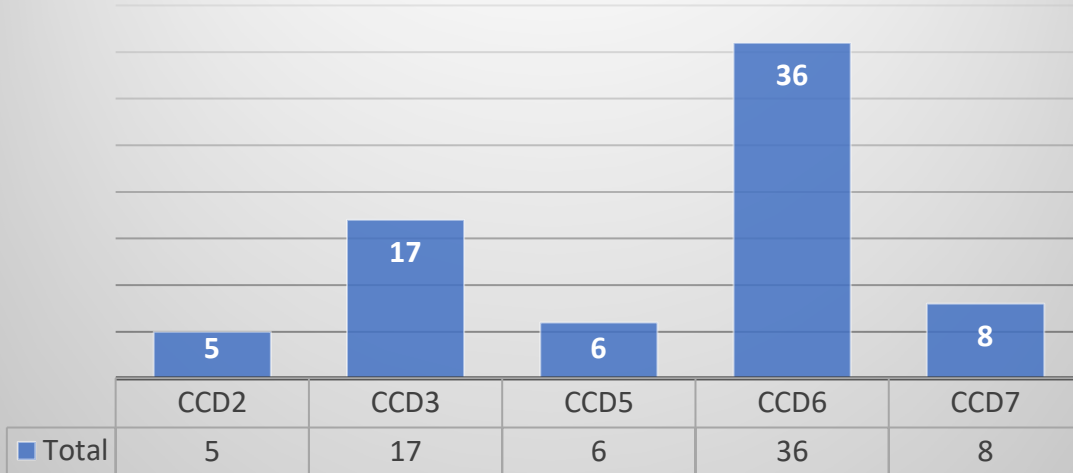
DUMPING CAUGHT ON CAMERA
MARCH 2022 - FEBRUARY 2023



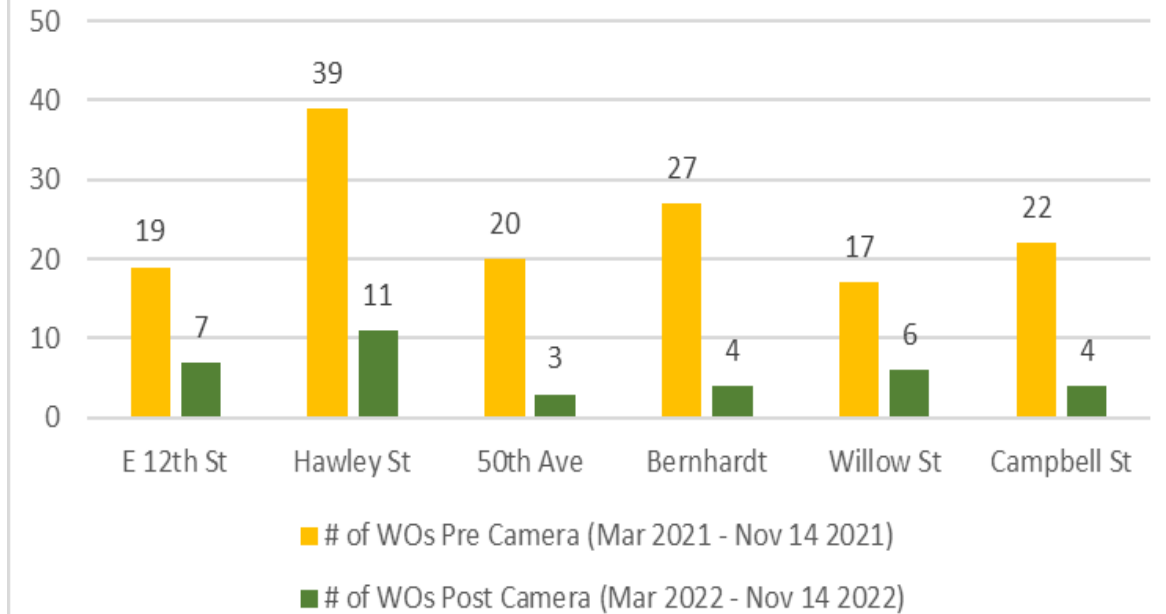
*Citation data: Mar 1 – Nov 14, 2022 only

SURVEILLANCE CAMERA EFFICACY

CITATIONS BY COUNCIL DISTRICT March 1, 2022 - November 14, 2022



Illegal Dumping Work Orders (WOs) (2021 vs 2022)



USE POLICY - PROPOSED AMENDMENTS

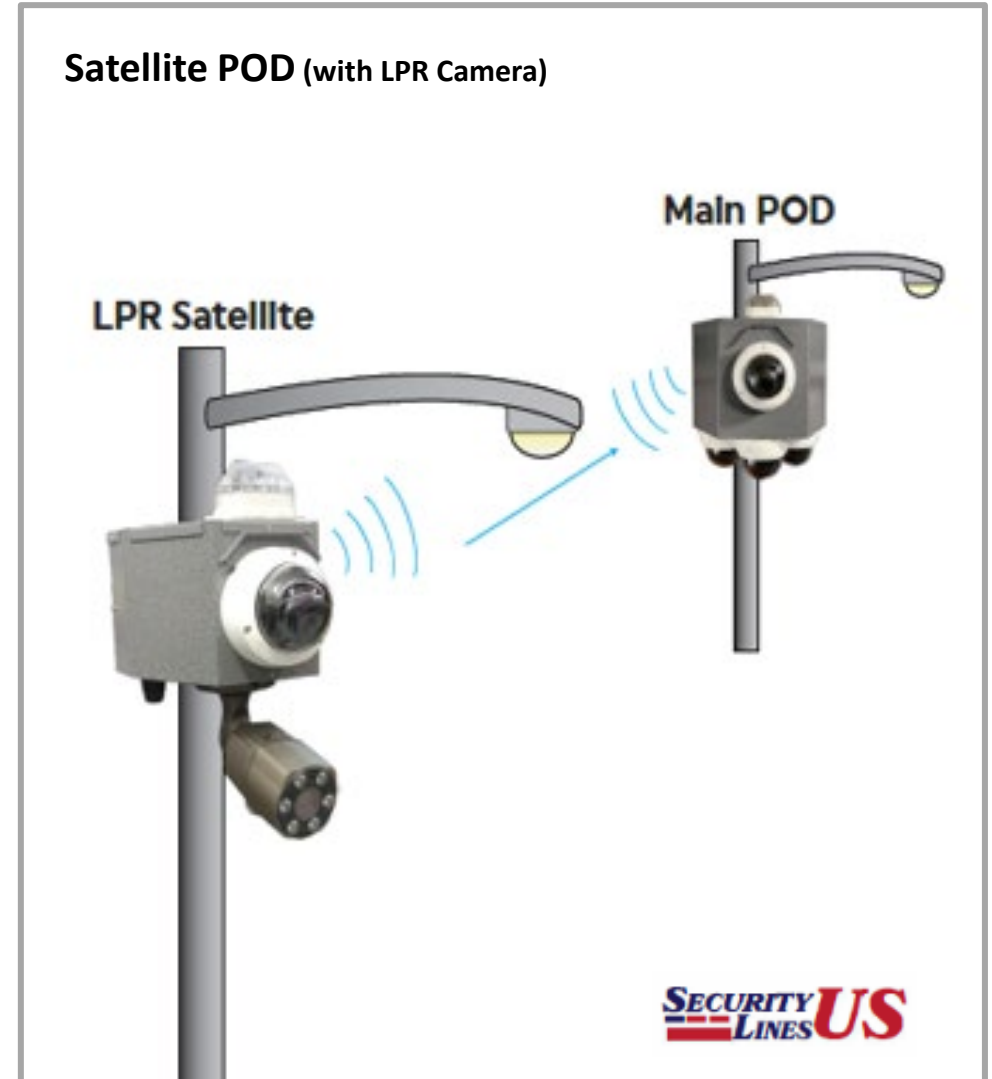
- Add Satellite PODs and License Plate Reader (LPR) Cameras to the POD Surveillance System
- Modify provision for sharing and preserving video data with City Attorney's Office (OCA) in *Section H. Third Party Data Sharing*



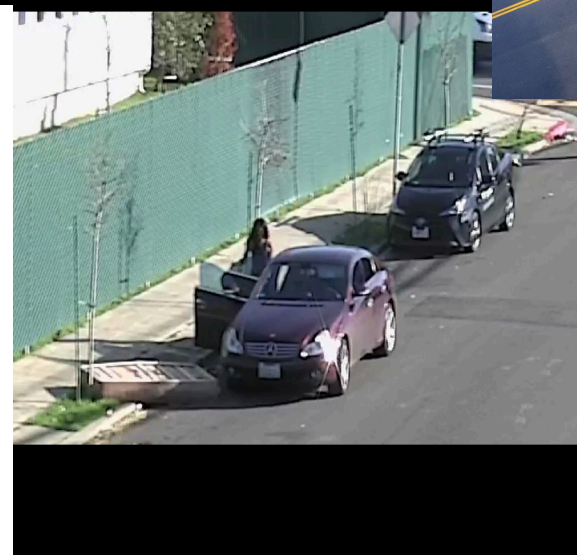
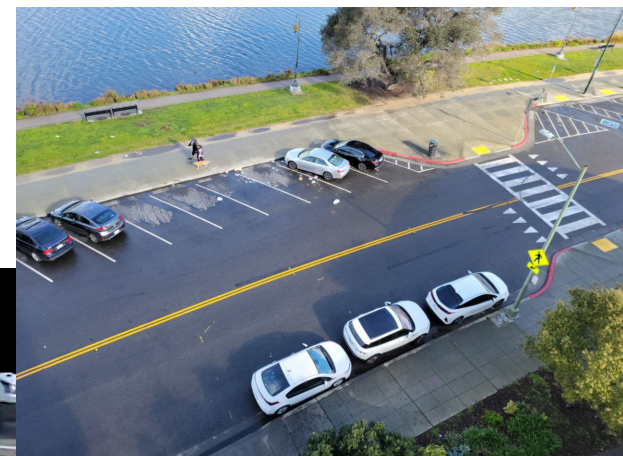
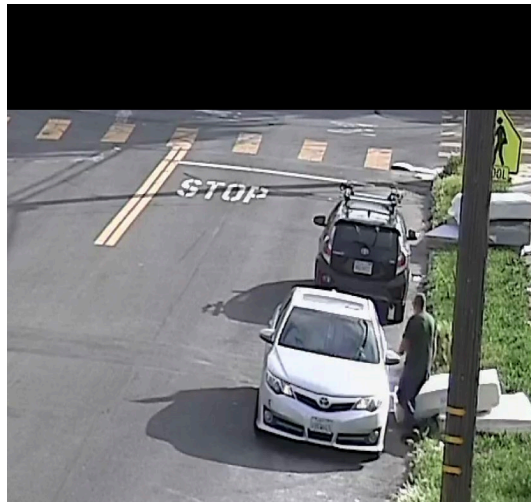
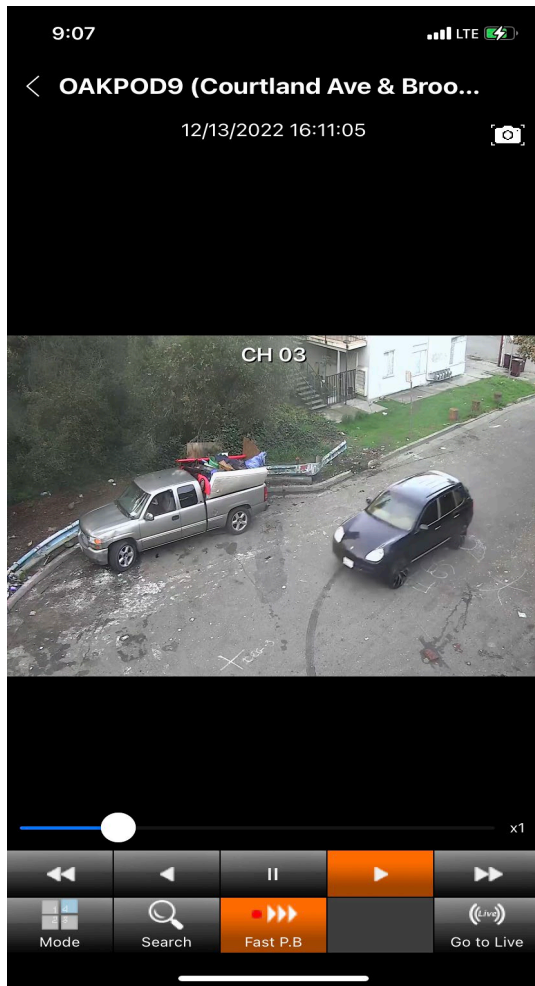
USE POLICY - PROPOSED AMENDMENTS

Satellite PODs –

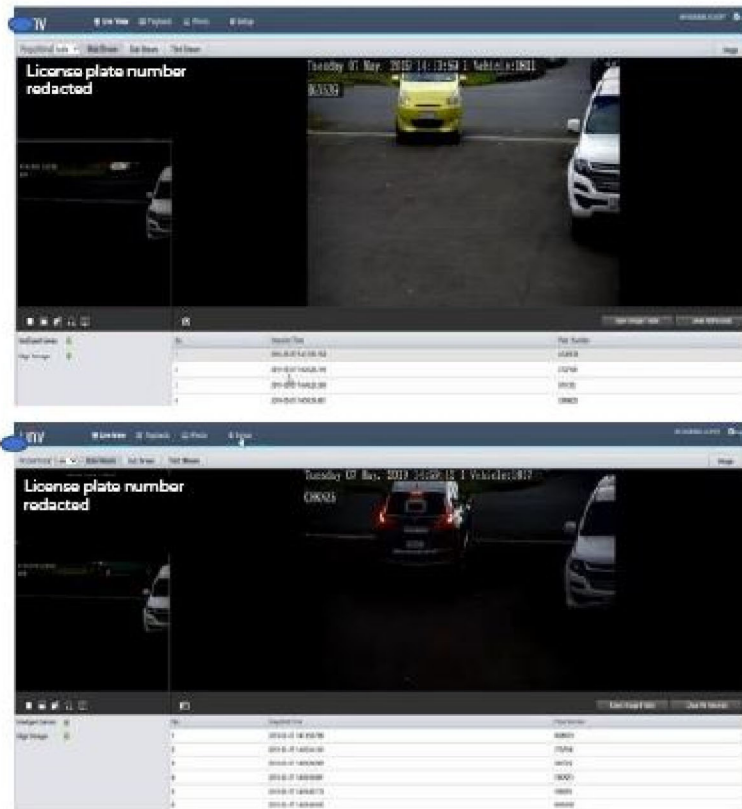
- Secondary PODs
- Increase viewable angles and wider viewable area
- Locations with multiple ingress and egress points & long or wide areas
- Connects wirelessly to main POD
- LPR cameras deployed as Satellite PODs



SAMPLE SCREENSHOTS



USE POLICY - PROPOSED AMENDMENTS



License Plate Reader (LPR) Cameras –

- Infrared lighting & filters to enhance license plate readability
- Captures license plate information more accurately
 - in low lighting
 - from moving vehicles

USE POLICY - PROPOSED AMENDMENTS

- Modify provision in ***Section H. Third Party Sharing:***

Data may only be shared with the following departments or non-city entities in compliance with this policy:

- 1) City Attorney staff handling illegal dumping investigations;*
- 2) City Attorney staff responding to a lawful court order or public record request;*
- 3) Administrative Hearing Officer adjudicating illegal dumping cases;*
- 4) Oakland Police Department and/or Alameda County District Attorney for illegal dumping investigations;*

USE POLICY - PROPOSED AMENDMENTS

- Modify provision in ***Section H. Third Party Sharing*** (cont.):
 - 5) *Vendor, solely to perform its contractual obligations;*
 - 6) *At the discretion of the OPW Director, video data and license plate information may be shared with the City Administrator's Office and City Councilmembers.*

However, prior to the release of any information to a surveillance-related data request, staff will consult with the City Attorney's Office for review and guidance.

PROGRAM RESOURCES NEEDED

Equipment-Related Costs	Quantity	Cost	Ongoing Total	One-Time Total	Notes
New POD Equipment					
LPR cameras	30	2,800.00		84,000.00	Priority purchase; additional funds needed to buy more in FY23-25
Satellite PODs	30	2,495.00		74,850.00	Priority purchase; additional funds needed to buy more in FY23-25
DVR Upgrade	20	660.00		13,200.00	
Existing POD Equipment					
Additional PODs	4	10,000.00		40,000.00	Purchase of 4 PODs will bring total POD count to 20 Units
Cellular Boosters	18	1,000.00		18,000.00	Priority purchase; additional funds needed to buy more in FY23-25
Miscellaneous Replacement Parts			5,000.00		
Monthly Technical Support	12	3,500.00	42,000.00		Priority professional services contract until Info Systems Specialist hire; 10 hrs/mo tech support
Contingencies (8%)				18,404.00	
TOTAL			47,000.00	248,454.00	



LPR Camera



QUESTIONS

Victoria Chak

Oakland Public Works – Bureau of Environment

