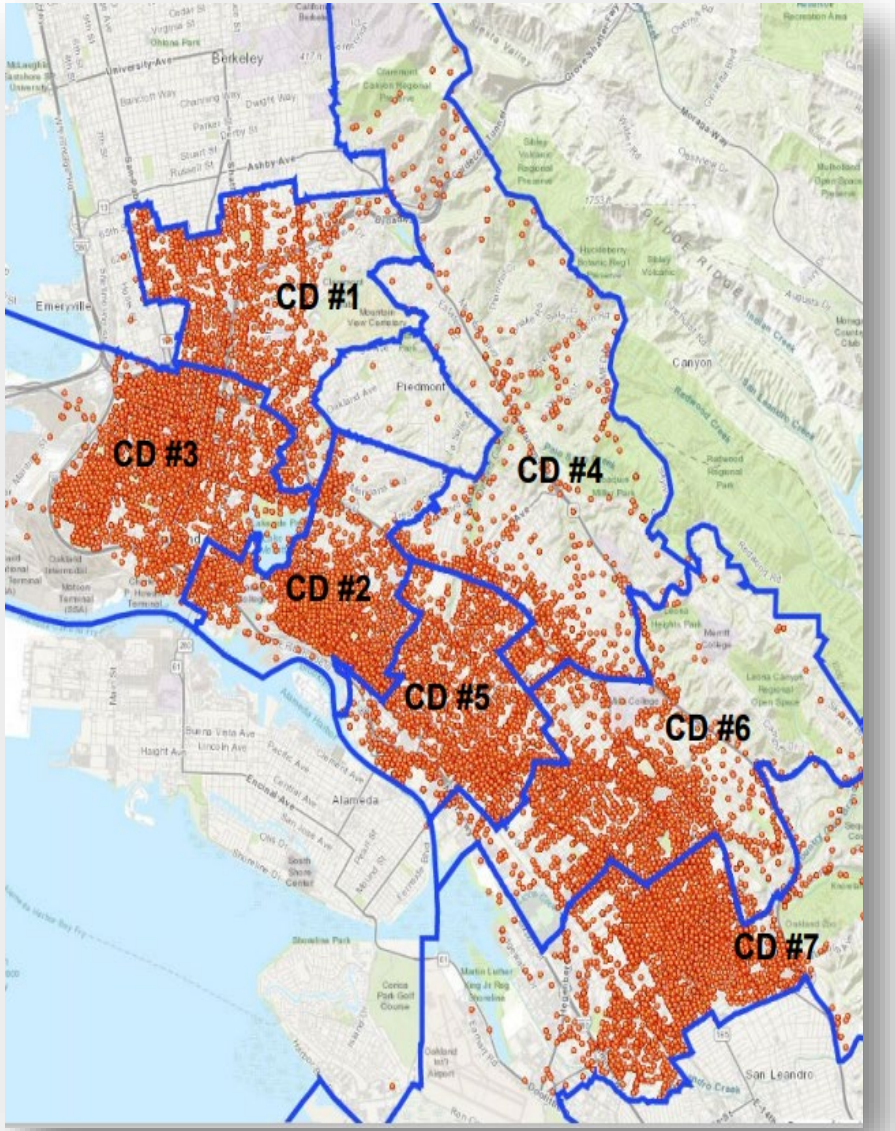
OPW Illegal Dumping Surveillance Camera Program

Amplifying Enforcement Efforts

CITY OF OAKLAND
PUBLIC WORKS

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



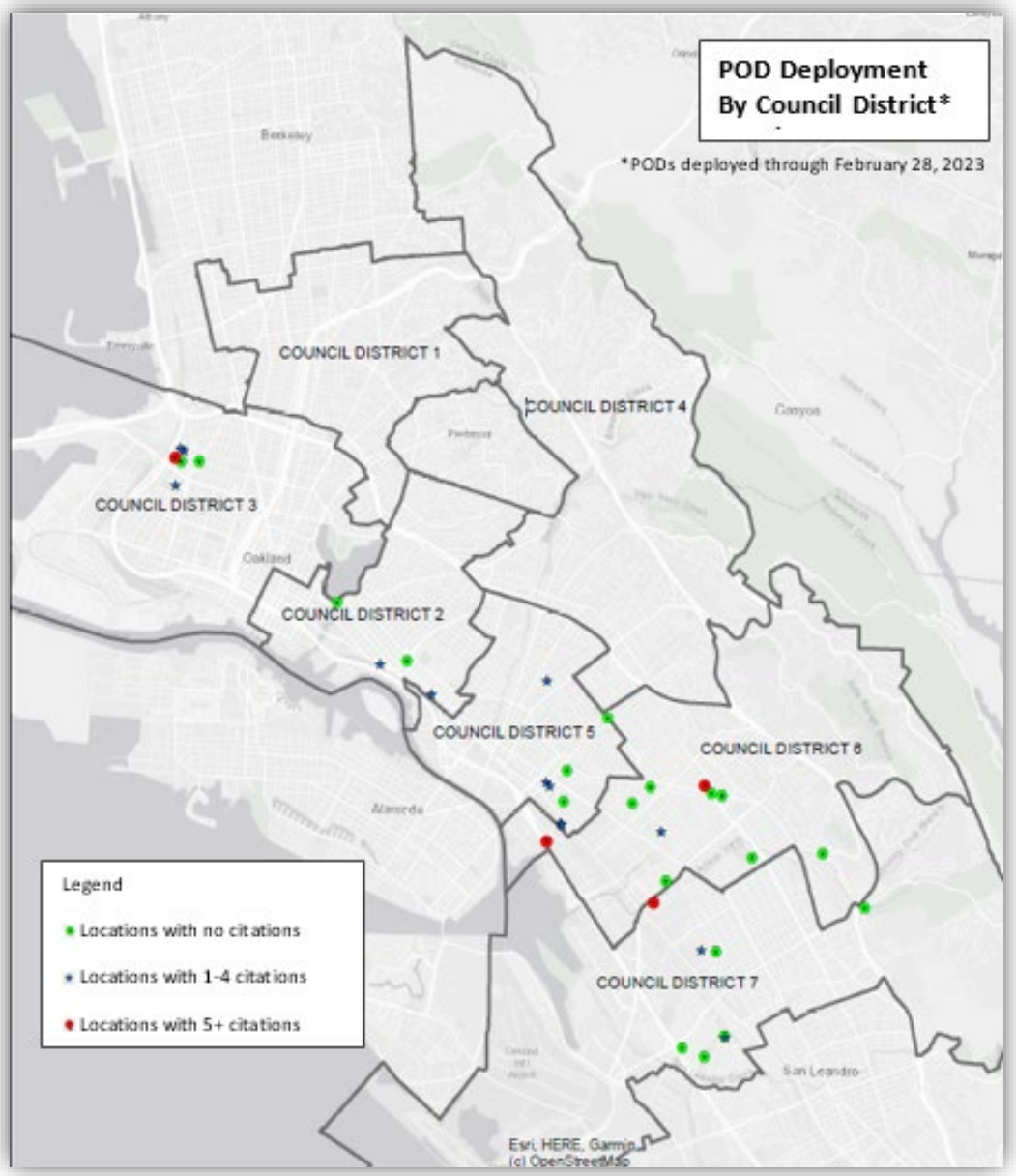
FY2021-22 Illegal Dumping Work Orders Completed by KOCB

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

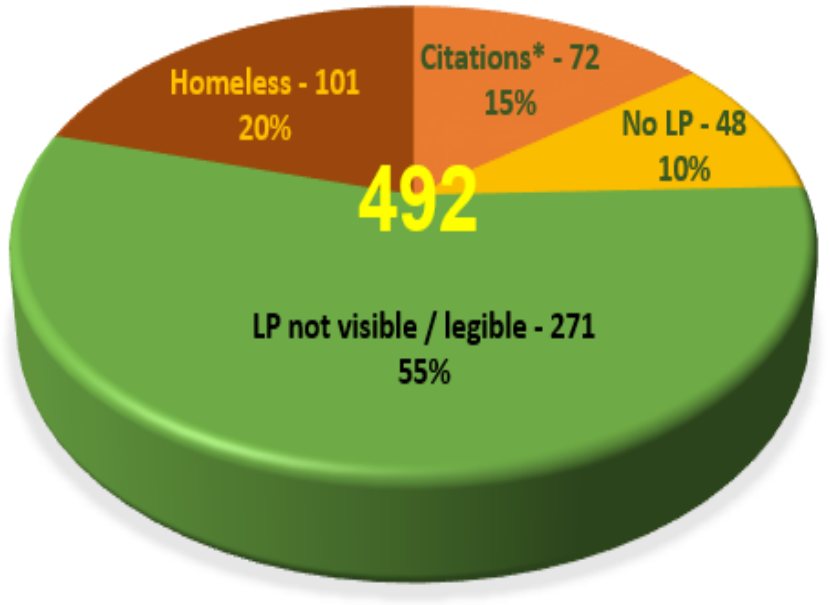
- Data-driven deployment
- Strategy: Deploy cameras using Cityworks data, cross-referenced by Environmental Enforcement field intel
- Most hotspots in Council Districts 3, 5, 6, and 7



SURVEILLANCE CAMERA EFFICACY

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

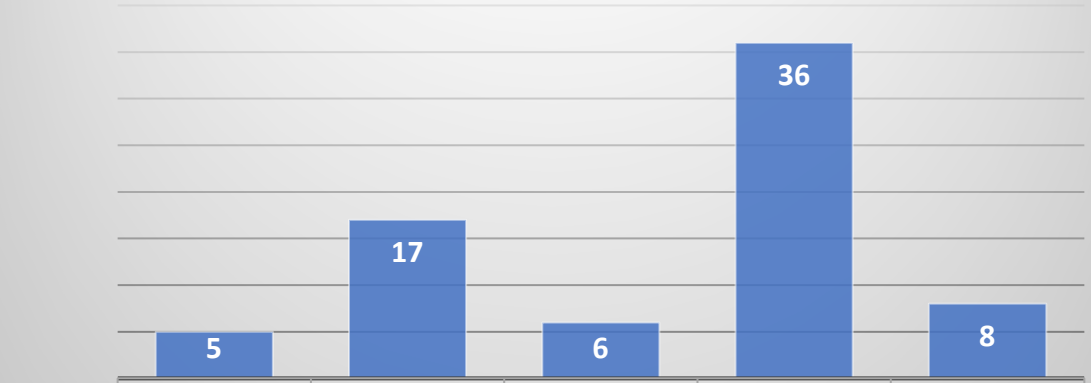
	TOTAL	Percentage
Citations (Mar 1 - Nov 14 2022)	72	15%
No License Plate (LP)	48	10%
LP not visible / legible	271	55%
Homeless	101	20%
Source: EEU Log TOTAL	492	100%



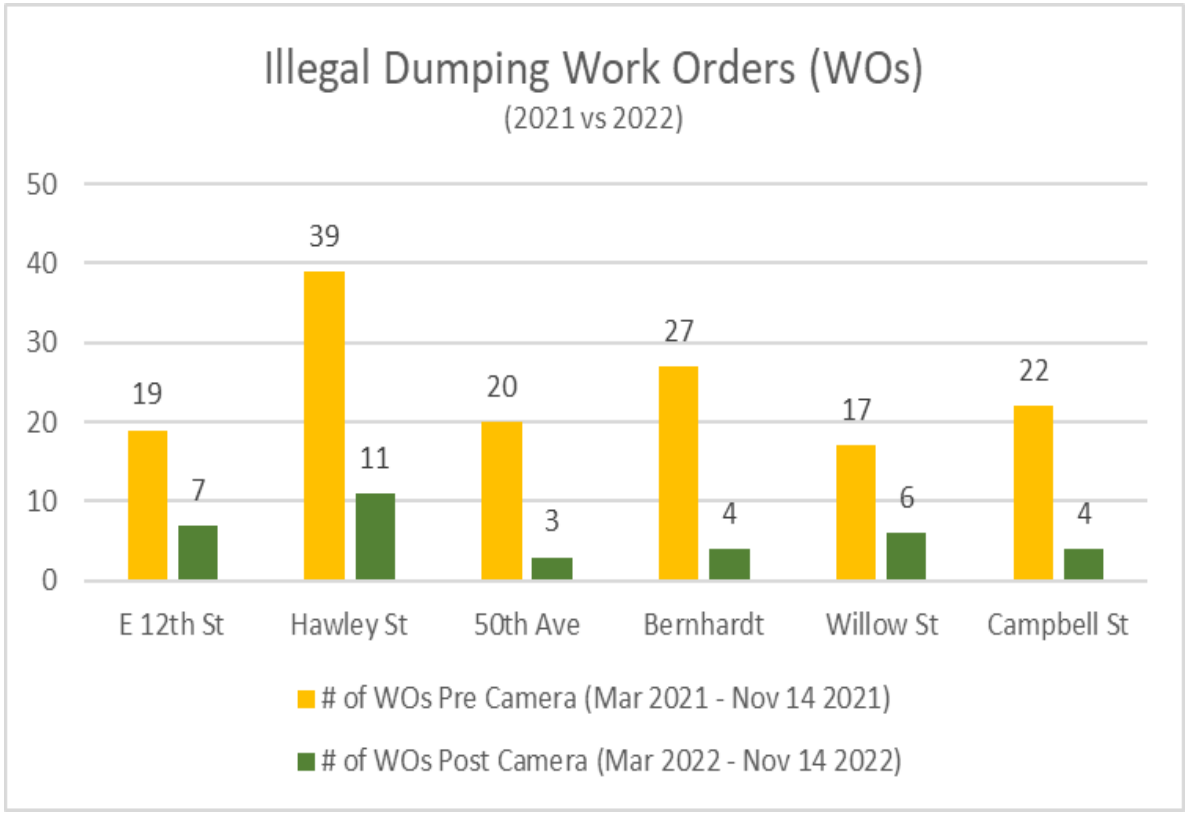
*Citation data: Mar 1 – Nov 14, 2022 only

SURVEILLANCE CAMERA EFFICACY

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



	CCD2	CCD3	CCD5	CCD6	CCD7
Total	5	17	6	36	8



USE POLICY - PROPOSED AMENDMENTS

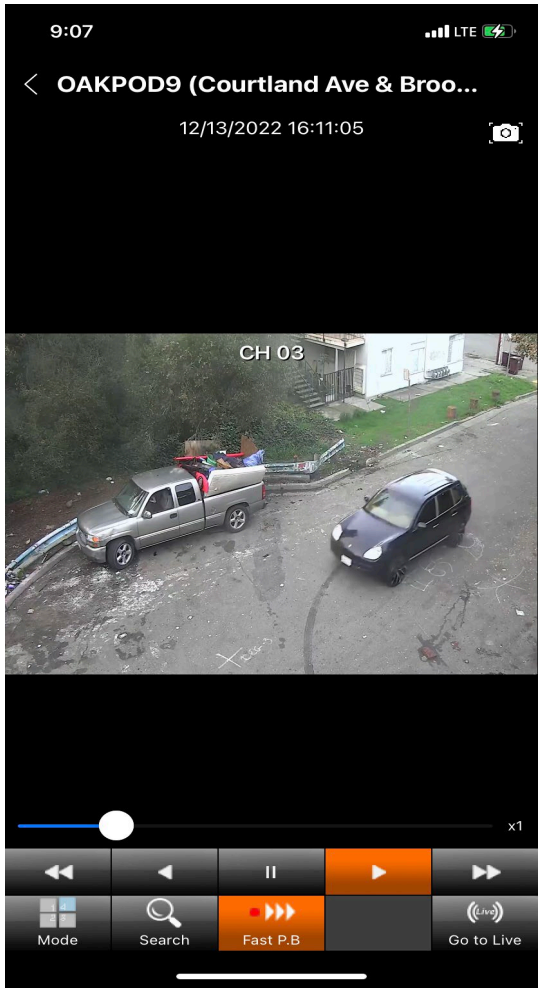
- Add Satellite PODs and License Plate Reader (LPR) Cameras to the POD Surveillance System
- Modify provision for sharing and preserving video data with City Attorney's Office (OCA) in *Section H. Third Party Data Sharing*

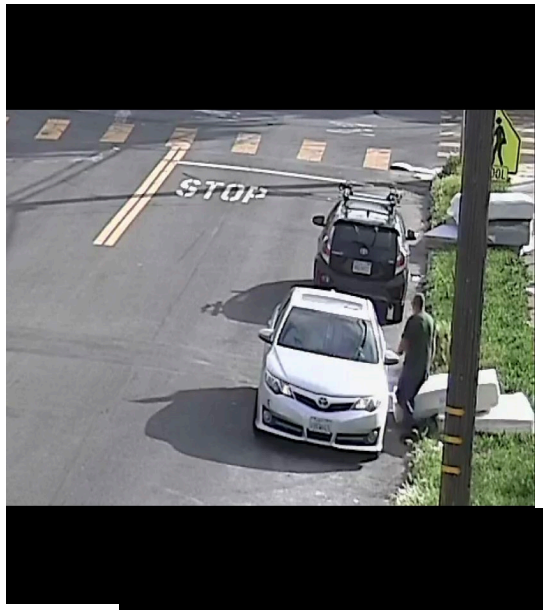
USE POLICY - PROPOSED AMENDMENTS

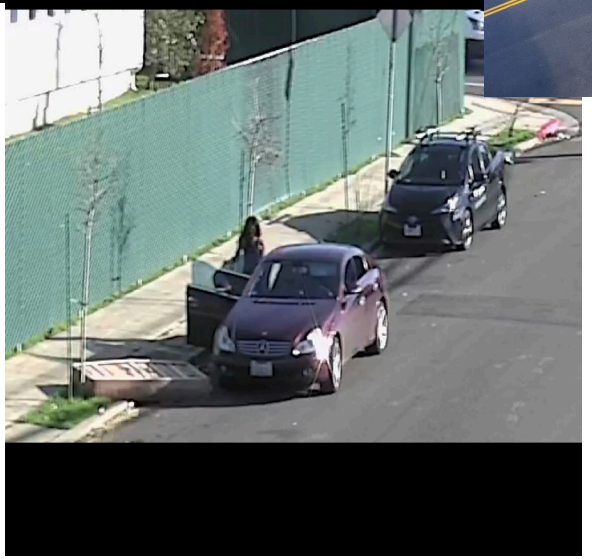
Satellite PODs –

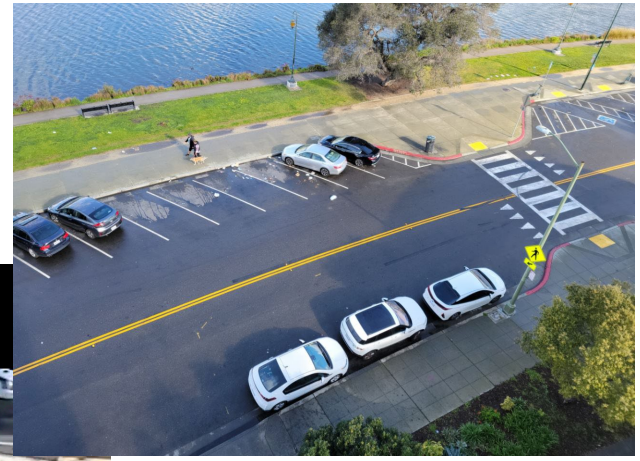
- Secondary PODs
- Increase viewable angles and wider viewable area
- Locations with multiple ingress and egress points & long or wide areas
- Connects wirelessly to main POD
- LPR cameras deployed as Satellite PODs

SAMPLE SCREENSHOTS

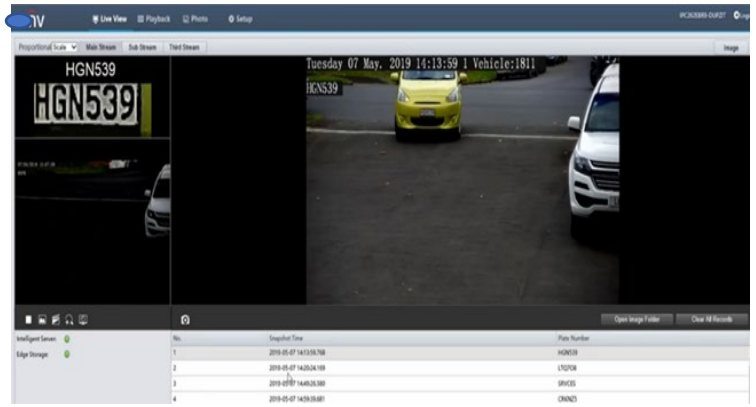


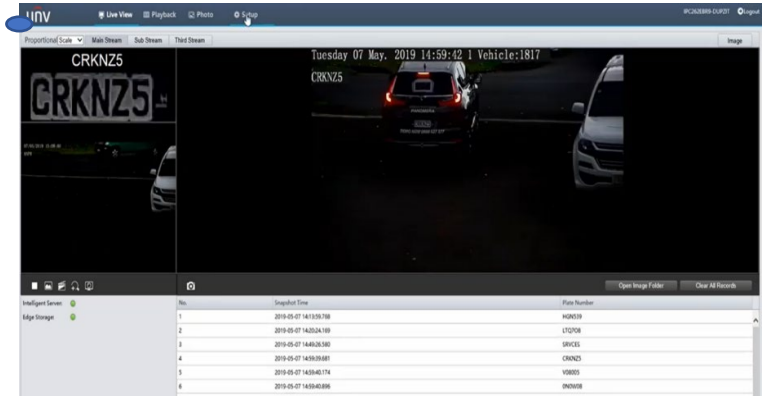






USE POLICY - PROPOSED AMENDMENTS





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

CITY OF OAKLAND
PUBLIC WORKS