

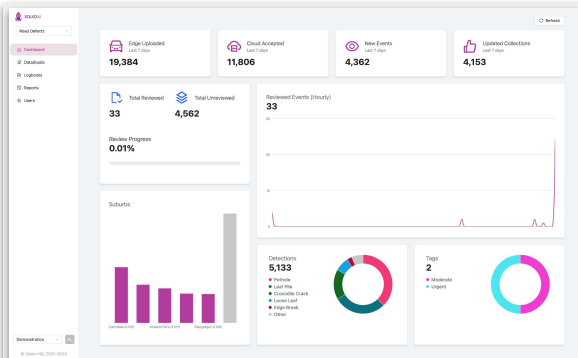
# AI Powered Bin Inspection

FOGO and Recycling waste streams



## Automating Bin inspections

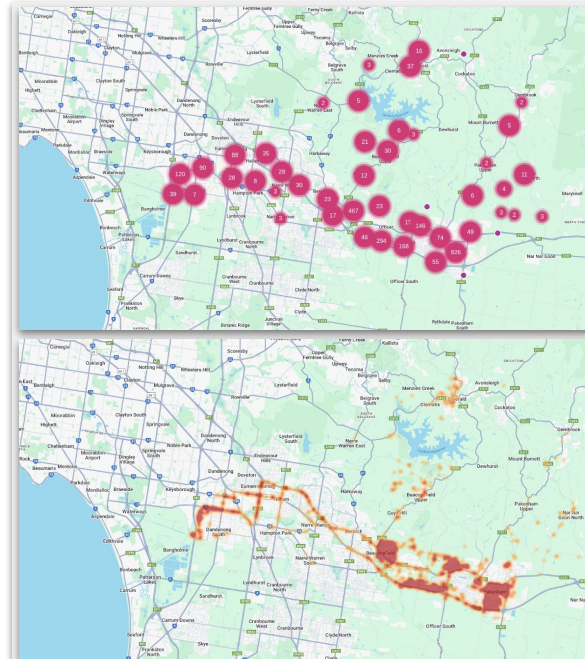
- Bin waste contamination
- FOGO and Recycle waste streams



Collection ID	Latitude	Longitude	Formatted Address
2b2d162b-3507-4521-bbda-8878289d2abd	-27.524450302124000	152.99075317382800	106 Strickland Terrace, Graceville
0bd02d0d-8e12-4c60-8e25-a95693e6edfd	-27.52016262151300	152.98707579262600	122 White St, Graceville
23e59c0f-a841-4e8a-b6a8-33ca44764d35	-27.52544403076170	152.99098205566400	90 Strickland Terrace, Graceville
02621118-7a10-4b28-b572-1b031e633ddb	-27.518605571240200	152.98060096800300	10 Austral Ave, Graceville
2c332482-456a-401d-b80c-1f20df0e79eb	-27.510391235351600	152.97015380859400	2 Laurel Ave, Chelmer QLD
046f00fa-f9dc-4ce9-971b-a884490a70bb	-27.511931922636000	152.9719943809320	115 Honour Ave, Chelmer QLD
245dc1e2-2d6b-40f1-a595-1c063714d758	-27.50248908996580	152.97518920898400	Station Rd near Coonan St, Chelmer QLD
0b81cae8-4a3b-4d73-9498-5c80ceced69a	-27.501325607299800	152.96900039941400	49 Finney Rd, Indooroopilly QLD
1c2c5b39-c1f2-4217-94ca-0c40d295b24c	-27.597225189209000	152.98280334472700	44 State Route 30, Inala QLD
26f8b647-ed55-4062-9647-163013500246	-27.511775982566200	152.97868341207500	107 Queenscroft St, Chelmer QLD
1cb000cc-d0eb-45ad-b58a-edf04676e232	-27.515499140135900	152.98046104610000	9 Scout Ln, Chelmer QLD

## Data at your fingertips

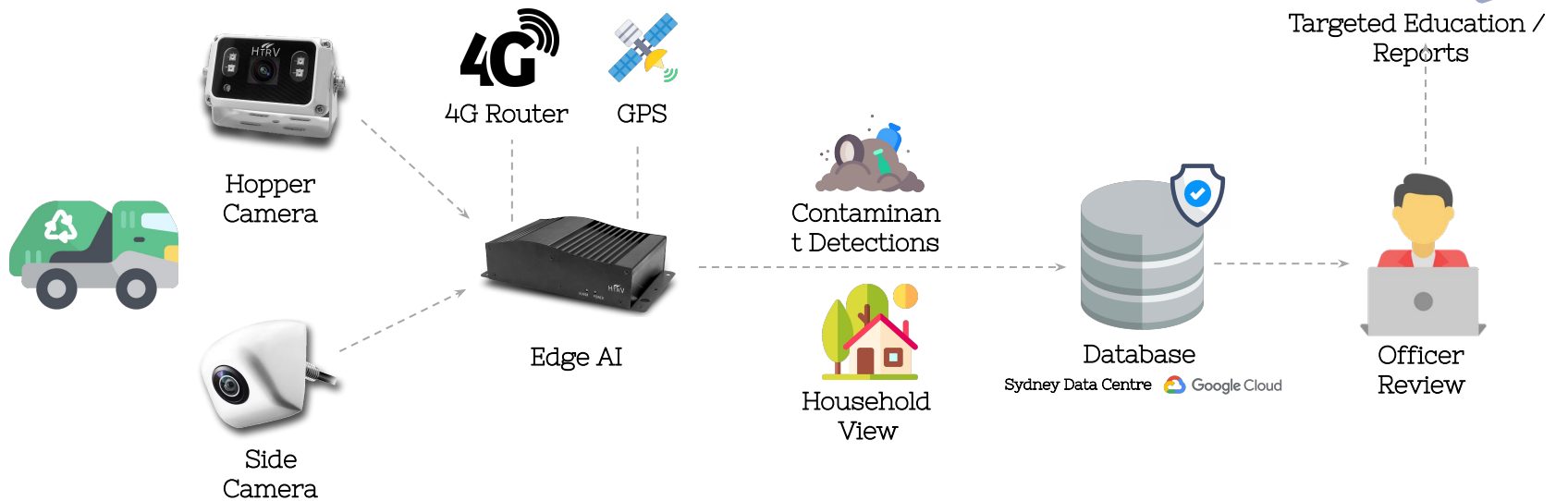
- Insightful dashboard statistics
- Export tabular data for analysis



## Contamination heatmaps

- Overview of state of contamination
- Targeted education for residential bins

# Solution Architecture



## The Hardware



### Hopper Camera

- Contamination detections



### Side Camera

- For household matching



### Edge Computer and 4G Router

- All housed in protective casing



# Categories Detectable

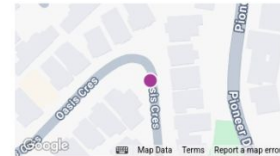
Waste stream	Class	Examples
Recycle / Green	Bag	Plastic bags, soft plastic film
Green	Bottle	Drink bottles
	Jug	Milk jugs, water jugs, chemical containers
	Can	Soda cans, aerosol cans
	Cup	Drinking cups, buckets
	Cardboard	Natural cardboard
	Box	Printed boxes, tubs
	Paper Bag	Recyclable grocery bags
	Molded Pulp	Compostable food containers, egg cartons
	Paper Printed	Newspaper, flyers, gift bags
Recycle	Log	Large tree stumps, branches
	Palm	Palm tree sheaths





Recyclable Waste Stream

### "Nearby Address"



Download



Share



Open Map



Street View

### Controls

Drawing

☒ Borders

☒ Labels

☒ Dimensions

Labels (1)

☒ All selected

☒ Bag

## Supporting Image



Timeline 2025-01-10 — 2025-01-10



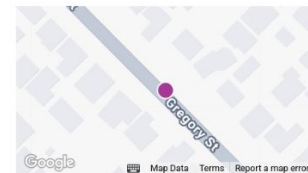
Jan 10, 2025

No more data in the selected range.



FOGO Waste Stream

### "Nearby Address"



Download



Share



Open Map



Street View

### Controls

Drawing

☒ Borders

☒ Labels

☒ Dimensions

Labels (1)

☒ All selected

Timeline 2025-02-14 — 2025-02-14



Feb 14, 2025

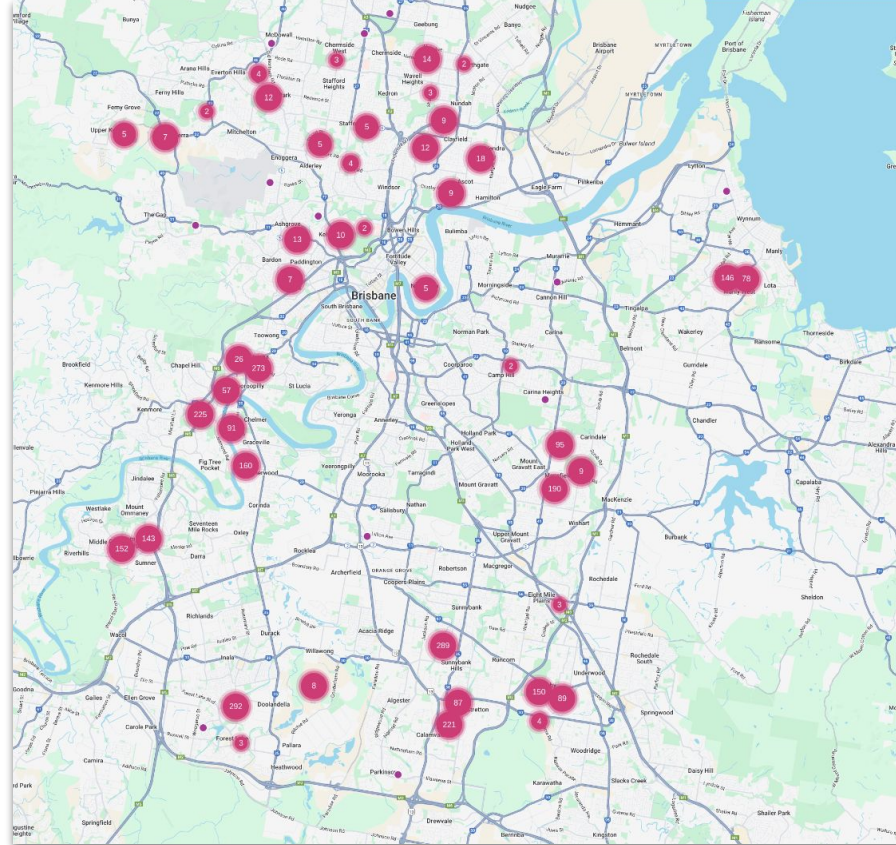
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### Supporting Image

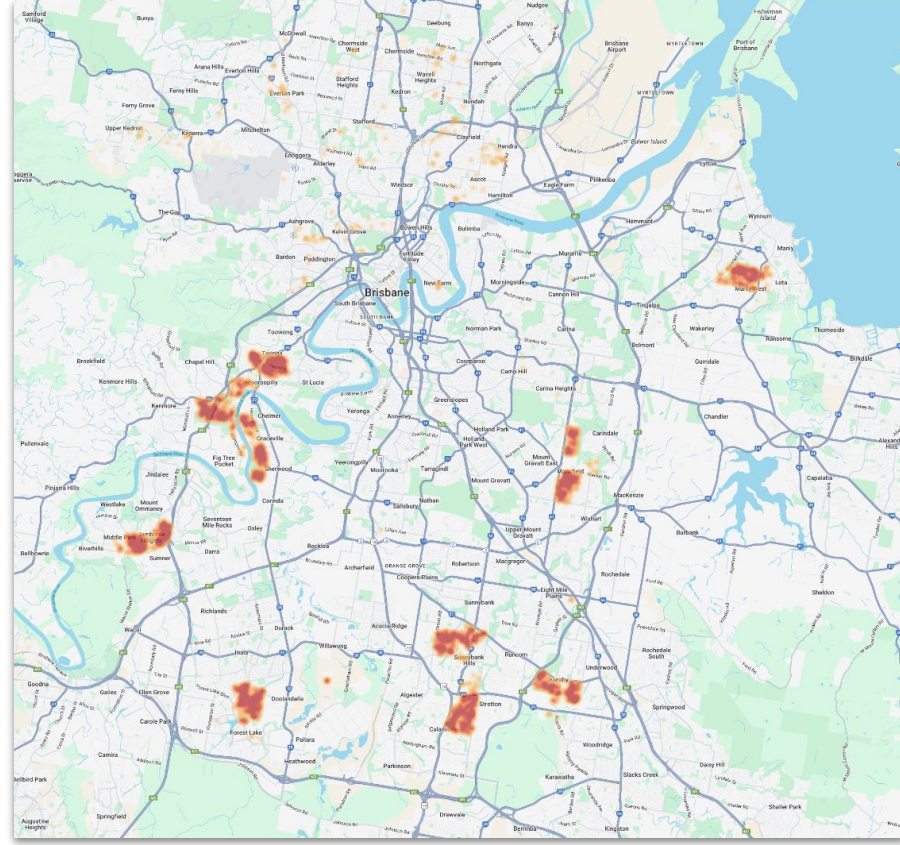




## Contamination data map points



## Contamination heat map





Example Exportable Data

Collection ID	Latitude	Longitude	Formatted Address	Local Government Area	Route	State	Suburb	Created At	Last Detected At	URL
2b2d162b-3507-4521-b8da-8876289d2abd	-27.524450302124000	152.99075317382800	Strickland Terrace, Graceville QLD 4075, Australia	Brisbane City	Strickland Terrace	Queensland	Graceville   4075	2023-07-11T02:59:54+00:00	2023-07-10T23:03:14+00:00	https://squid.visionhq.io/admin/v
0bd02d0d-8e12-dc60-8e25-a956936edfd	-27.52016262151300	152.98707579262600	White St, Graceville QLD 4075, Australia	Brisbane City	White Street	Queensland	Graceville   4075	2023-07-11T03:00:15+00:00	2023-07-10T22:55:56+00:00	https://squid.visionhq.io/admin/v
23a5e90c-a4b1-4e8a-b5a8-33ca447643d3	-27.52544403076170	152.99098205566400	Strickland Terrace, Graceville QLD 4075, Australia	Brisbane City	Strickland Terrace	Queensland	Graceville   4075	2023-07-11T03:00:22+00:00	2023-07-10T23:03:55+00:00	https://squid.visionhq.io/admin/v
02621118-7a10-4b28-b572-1b031e6330db	-27.518605517240200	152.98060096800300	Austral Ave, Graceville QLD 4075, Australia	Brisbane City	Austral Avenue	Queensland	Graceville   4075	2023-07-11T03:00:06+00:00	2023-07-10T22:51:59+00:00	https://squid.visionhq.io/admin/v
2c332482-456a-40f1-d1b0c-1f20d0f79eb	-27.510391235351600	152.97015380895800	Laurel Ave, Chelmer QLD 4068, Australia	Brisbane City	Laurel Avenue	Queensland	Chelmer   4068	2023-07-11T03:04:47+00:00	2023-07-10T23:49:13+00:00	https://squid.visionhq.io/admin/v
046f00da-f9dc-971b-a884490a70bb	-27.51193192263600	152.97199438093200	Honour Ave, Chelmer QLD 4068, Australia	Brisbane City	Honour Avenue	Queensland	Chelmer   4068	2023-07-11T03:05:03+00:00	2023-07-11T00:10:28+00:00	https://squid.visionhq.io/admin/v
245dc1e2-2d6b-40f1-a595-1c063714d758	-27.502489898996580	152.97518920898400	Don Rd near Conan St, stop 23, Indooroopilly QLD 4068, Australia	Brisbane City		Queensland	Indooroopilly   4068	2023-07-11T03:07:45+00:00	2023-07-11T00:33:57+00:00	https://squid.visionhq.io/admin/v
0b81cae8-4a3b-44d7-7433-9498-5c80ceced69a	-27.501325607299800	152.96900399941400	Finney Rd, Indooroopilly QLD 4068, Australia	Brisbane City	Finney Road	Queensland	Indooroopilly   4068	2023-07-11T03:08:14+00:00	2023-07-11T00:35:42+00:00	https://squid.visionhq.io/admin/v
1c2c5b39-c1f2-4217-94ca-0c40d295b24c	-27.597225189209000	152.98280334727200	State Route 30, Inala QLD 4077, Australia	Brisbane City	State Route 30	Queensland	Inala   4077	2023-07-11T03:10:46+00:00	2023-07-11T00:49:36+00:00	https://squid.visionhq.io/admin/v
26f8b647-9bdc-4062-9647-163013500246	-27.511775982566200	152.97868341207500	Queenscroft St, Chelmer QLD 4068, Australia	Brisbane City	Queenscroft Street	Queensland	Chelmer   4068	2023-07-11T02:44:14+00:00	2023-07-10T21:06:02+00:00	https://squid.visionhq.io/admin/v
1c6c00cc-d0eb-45ad-b58a-edf0a4767e232	-27.515499140135900	152.98046104610000	Scott Ln, Chelmer QLD 4068, Australia	Brisbane City	Scott Lane	Queensland	Chelmer   4068	2023-07-11T02:46:11+00:00	2023-07-10T21:15:42+00:00	https://squid.visionhq.io/admin/v
1f89a33c-2cf2-4547-8a16-192a88488a25	-27.52066993713380	152.97845458984400	Adcock Road, Graceville QLD 4075, Australia	Brisbane City	Adcock Road	Queensland	Graceville   4075	2023-07-11T03:30:46+00:00	2023-07-10T20:07:32+00:00	https://squid.visionhq.io/admin/v
1fca9619-059a-45d1-98cc-c361c310e235	-27.51205892767760	152.97861730679900	Campsey St, Chelmer QLD 4068, Australia	Brisbane City	Campsey Street	Queensland	Chelmer   4068	2023-07-11T02:44:13+00:00	2023-07-10T21:05:57+00:00	https://squid.visionhq.io/admin/v
03f3ad04-daa7-474c-82a6-8fa8c1afe0f7	-27.515794769680800	152.98002619296300	Laybourne St, Chelmer QLD 4068, Australia	Brisbane City	Laybourne Street	Queensland	Chelmer   4068	2023-07-11T03:38:40+00:00	2023-07-10T21:39:09+00:00	https://squid.visionhq.io/admin/v
013a5089-d14c-4b55-bad3-25a8e77746f0	-27.51258089672770	152.97785947099300	Greenwood St, Chelmer QLD 4068, Australia	Brisbane City	Greenwood Street	Queensland	Chelmer   4068	2023-07-11T02:43:50+00:00	2023-07-10T20:56:07+00:00	https://squid.visionhq.io/admin/v
2795af0c-27f1-414b-b5a7-571c9536ed1a	-27.51527024832160	152.9836251875400	Hargreaves Ave, Chelmer QLD 4068, Australia	Brisbane City	Hargreaves Avenue	Queensland	Chelmer   4068	2023-07-11T02:51:44+00:00	2023-07-10T21:53:32+00:00	https://squid.visionhq.io/admin/v
1e952d41-03b2-4cfd-bb03-3186d552e1b	-27.5150146484375	152.9815216084450	Harte St, Chelmer QLD 4068, Australia	Brisbane City	Harte Street	Queensland	Chelmer   4068	2023-07-11T03:42:38+00:00	2023-07-10T21:15:03+00:00	https://squid.visionhq.io/admin/v
098d27-0a4c-41d0-b84f-1ab7b3a9a43c	-27.513690948486300	152.97650146484400	Rd at Millers, stop 51, Chelmer QLD 4068, Australia	Brisbane City		Queensland	Chelmer   4068	2023-07-11T03:46:07+00:00	2023-07-10T23:43:37+00:00	https://squid.visionhq.io/admin/v
1610c4f7-9783-430b-8af1-5577de58379e	-27.509580612182600	152.97254943847700	Honour Ave, Chelmer QLD 4068, Australia	Brisbane City		Queensland	Chelmer   4068	2023-07-11T03:46:07+00:00	2023-07-10T23:43:37+00:00	https://squid.visionhq.io/admin/v
0678039-422b-4902-8ec8-907971736032	-27.509038570337000	152.97081292234400	Farlan St, Chelmer QLD 4068, Australia	Brisbane City		Queensland	Chelmer   4068	2023-07-11T03:46:07+00:00	2023-07-10T23:43:37+00:00	https://squid.visionhq.io/admin/v
02b01c91-9c93-4b55-b6b5-9ce3-2be6c0f0a47	-27.516220092773400	152.98426818467700	Hargreaves Ave, Chelmer QLD 4068, Australia	Brisbane City	Hargreaves Avenue	Queensland	Chelmer   4068	2023-07-11T04:06:14+00:00	2023-07-10T21:53:51+00:00	https://squid.visionhq.io/admin/v
0b06a0c7-8f6c-4a52-855b-105d21f41f1a	-27.510445522077900	152.97129920965700	Victoria Ave, Chelmer QLD 4068, Australia	Brisbane City	Victoria Avenue	Queensland	Chelmer   4068	2023-07-11T03:05:11+00:00	2023-07-11T00:05:12+00:00	https://squid.visionhq.io/admin/v
17667bef-caa0-48fd-9c57-767fe49c35d0	-27.513612747192400	152.969238281250	Chelmer St W, Chelmer QLD 4068, Australia	Brisbane City	Chelmer Street West	Queensland	Chelmer   4068	2023-07-11T04:08:14+00:00	2023-07-10T23:52:29+00:00	https://squid.visionhq.io/admin/v
2cd7aaad-addd-4540-8af4-a6f97da9cfc36	-27.50171283725650	152.971473634243	Finney Rd, Indooroopilly QLD 4068, Australia	Brisbane City	Finney Road	Queensland	Indooroopilly   4068	2023-07-11T03:07:55+00:00	2023-07-11T00:35:16+00:00	https://squid.visionhq.io/admin/v
0a47d7b1-371a-4b9e-8899-4368f2a52aed	-27.520818524062600	152.98712155781700	Seng St, Graceville QLD 4075, Australia	Brisbane City	Seng Street	Queensland	Graceville   4075	2023-07-11T02:55:23+00:00	2023-07-10T22:09:41+00:00	https://squid.visionhq.io/admin/v
04400f73-7b69-4017-9778-4ba6c2de7135	-27.509212036966300	152.97113317181200	Victoria Ave, Chelmer QLD 4068, Australia	Brisbane City	Victoria Avenue	Queensland	Chelmer   4068	2023-07-11T03:05:58+00:00	2023-07-11T00:12:55+00:00	https://squid.visionhq.io/admin/v
1c2e2d21-024c-41d0-8b02-e930246edf339	-27.514642730690300	152.98239517219100	Hargreaves Ave, Chelmer QLD 4068, Australia	Brisbane City	Hargreaves Avenue	Queensland	Chelmer   4068	2023-07-11T02:50:25+00:00	2023-07-10T21:42:32+00:00	https://squid.visionhq.io/admin/v
01a3b3ce-c391-432b-bf96-a18cd9a3fe5c	-27.518184701912100	152.98377986066000	Waratah Ave, Graceville QLD 4075, Australia	Brisbane City	Waratah Avenue	Queensland	Graceville   4075	2023-07-11T03:01:03+00:00	2023-07-10T22:54:01+00:00	https://squid.visionhq.io/admin/v
09b035e-27fd-4361-b474-670cc2bce6b8	-27.512264270335400	152.97248834744100	Honour Ave, Chelmer QLD 4068, Australia	Brisbane City	Honour Avenue	Queensland	Chelmer   4068	2023-07-11T04:07:00+00:00	2023-07-11T00:10:13+00:00	https://squid.visionhq.io/admin/v
1c8ab2b5-76c3-435c-ba2a-27cb982f907d	-27.55304530961440	152.97962294315600	Lynton St, Middle Park QLD 4074, Australia	Brisbane City		Queensland	Middle Park   4074	2023-07-11T21:02:41+00:00	2023-07-11T21:02:20+00:00	https://squid.visionhq.io/admin/v
297f71d7-41af-4602-4538-3175372e365a	-27.553478255868000	152.92004386894400	Sumac St, Middle Park QLD 4074, Australia	Brisbane City		Queensland	Middle Park   4074	2023-07-11T21:16:09+00:00	2023-07-11T21:15:44+00:00	https://squid.visionhq.io/admin/v
0c084af7-7b3a-44b4-b388-afc0648ede04	-27.55691923629100	152.91879822004700	Winda St, Middle Park QLD 4074, Australia	Brisbane City	Winda Street	Queensland	Middle Park   4074	2023-07-11T21:18:28+00:00	2023-07-11T21:18:21+00:00	https://squid.visionhq.io/admin/v
13853735-13ca-444c-b7e7-4d9998f7600	-27.55487442947920	152.91941069997800	Sumac St, Middle Park QLD 4074, Australia	Brisbane City	Sumac Street	Queensland	Middle Park   4074	2023-07-11T21:33:28+00:00	2023-07-11T21:33:12+00:00	https://squid.visionhq.io/admin/v
0166806c-30f5-469b-9a33-11e3766a4a1d	-27.54750539548700	152.97186189191000	Barbel Cl, Westlake QLD 4074, Australia	Brisbane City	Barbel Close	Queensland	Westlake   4074	2023-07-11T21:59:14+00:00	2023-07-11T21:59:00+00:00	https://squid.visionhq.io/admin/v
296e1d45-c24c-4aa8-b546-1ca5a58b1034	-27.545890407804600	152.92000573128500	Westlake Dr, Westlake QLD 4074, Australia	Brisbane City	Westlake Drive	Queensland	Westlake   4074	2023-07-11T22:13:37+00:00	2023-07-11T22:12:58+00:00	https://squid.visionhq.io/admin/v
2692eac6-9d58-48a0-9cae-f431b62bc889	-27.54555516136500	152.91845553115	Westlake Dr, Westlake QLD 4074, Australia	Brisbane City	Westlake Drive	Queensland	Westlake   4074	2023-07-11T22:13:54+00:00	2023-07-11T22:13:14+00:00	https://squid.visionhq.io/admin/v
18bb8ae4-55a6-4a39-9922-add215cf55b0	-27.550709419883800	152.91350203904500	Lomatia Cl, Westlake QLD 4074, Australia	Brisbane City	Lomatia Close	Queensland	Westlake   4074	2023-07-11T22:27:52+00:00	2023-07-11T22:27:37+00:00	https://squid.visionhq.io/admin/v
29229010-c63c-4f05-9bab-5b50dcf807fa	-27.547587412409500	152.91622515354600	Penong St, Westlake QLD 4074, Australia	Brisbane City	Penong Street	Queensland	Westlake   4074	2023-07-11T22:48:38+00:00	2023-07-11T22:49:09+00:00	https://squid.visionhq.io/admin/v
1ac46509-1679-4e7b-b420-a4d951e16f65	-27.544491786975400	152.91040032170700	Westlake Dr, Westlake QLD 4074, Australia	Brisbane City	Westlake Drive	Queensland	Westlake   4074	2023-07-11T23:10:26+00:00	2023-07-11T23:09:39+00:00	https://squid.visionhq.io/admin/v
02921441-2bfe-4444-0cd2-ba3c446b3a1f	-27.545734425075400	152.90879820473500	Belfield Pl, Westlake QLD 4074, Australia	Brisbane City	Belfield Place	Queensland	Westlake   4074	2023-07-11T23:21:13+00:00	2023-07-11T23:20:53+00:00	https://squid.visionhq.io/admin/v
2225f720-4c45-4aef-9974-dc5d96a4b15f	-27.54562759399410	152.90559387207000	Mindee Ct, Westlake QLD 4074, Australia	Brisbane City	Mindee Court	Queensland	Westlake   4074	2023-07-11T23:32:14+00:00	2023-07-11T23:31:57+00:00	https://squid.visionhq.io/admin/v
16c4903-3c14-404b-a369-9bb324cfae1d	-27.545927047729500	152.90487670898400	Wendouree Cres, Westlake QLD 4074, Australia	Brisbane City	Wendouree Crescent	Queensland	Westlake   4074	2023-07-11T23:33:45+00:00	2023-07-11T23:32:47+00:00	https://squid.visionhq.io/admin/v
2d2cbadb-6429-4161-880be-cb1409f58ec	-27.54629888071290	152.90621948422200	Westlake Dr, Westlake QLD 4074, Australia	Brisbane City	Westlake Drive	Queensland	Westlake   4074	2023-07-11T23:33:50+00:00	2023-07-11T23:33:26+00:00	https://squid.visionhq.io/admin/v
258a720d-b572-4511-bc73-fc5de87e1a03a	-27.5464833993530300	152.90768432617200	Kaboora Cres, Westlake QLD 4074, Australia	Brisbane City	Kaboora Crescent	Queensland	Westlake   4074	2023-07-11T23:34:41+00:00	2023-07-11T23:34:23+00:00	https://squid.visionhq.io/admin/v
0bdc1ca1-ca18-4107-866a-a247dc9160a6	-27.544599533081100	152.92250061035200	Westlake Dr, Westlake QLD 4074, Australia	Brisbane City	Westlake Drive	Queensland	Westlake   4074	2023-07-12T00:12:52+00:00	2023-07-12T00:12:30+00:00	https://squid.visionhq.io/admin/v

# Education Letter Creation

Case Overview

#HV14FFSS7RE6

Status

Submitted

Occurred at

17/02/25 15:20pm

Created at


18/02/25 10:40am

Reviewed by

Robin Lin

Location

18/11/02/2025 13:20:02 SL098



2km/h

Recent Cases

Modify Address

Consent

I, **Duval Longa**, confirm that;

- ✓ I have reviewed all provided evidence.
- ✓ I have ensured the location is correct.
- ✓ I have checked all details in the letter.

Reject

Approve

Evidence

Location

Letter

History

Page 1 of 1

100%

Green Waste Contamination Notice

Your Logo Here


The Resident


██████████

Dear Resident,

██████████ Recycling & Recovery provides waste collection services to ██████████ Council.

On **17 February, 2025** our green waste collection driver noticed contamination material within your bin.





We seek your cooperation in using your bins correctly to help make an important contribution to our environment and reduce waste to landfill.

Your green waste bin may not be collected in the future if it is known to contain contamination. It will be your responsibility to remove the contamination before the bins are collected. Please avoid this inconvenience and assist us by placing your waste in the correct kerbside bin in the future.

Thank you for your cooperation.

VisionHQ

# Field Validation (~79%)

**Date:** 13 July 2023      **Time:** 12:59 - 13:09  
**Location:** 2-71 Fenwick Crescent, Algester QLD 4115

**42/46** 

Houses had bins out

**12/42** 

Bins had contamination

**38/48** 

Detected contaminated items



# Field Validation (~85%)

**Date:** 9 February 2024 **Time:** 10:13 - 10:43

**Location:** Launceston St - Althea St, Salisbury QLD 4107

110/133 

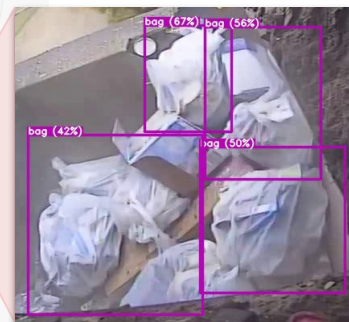
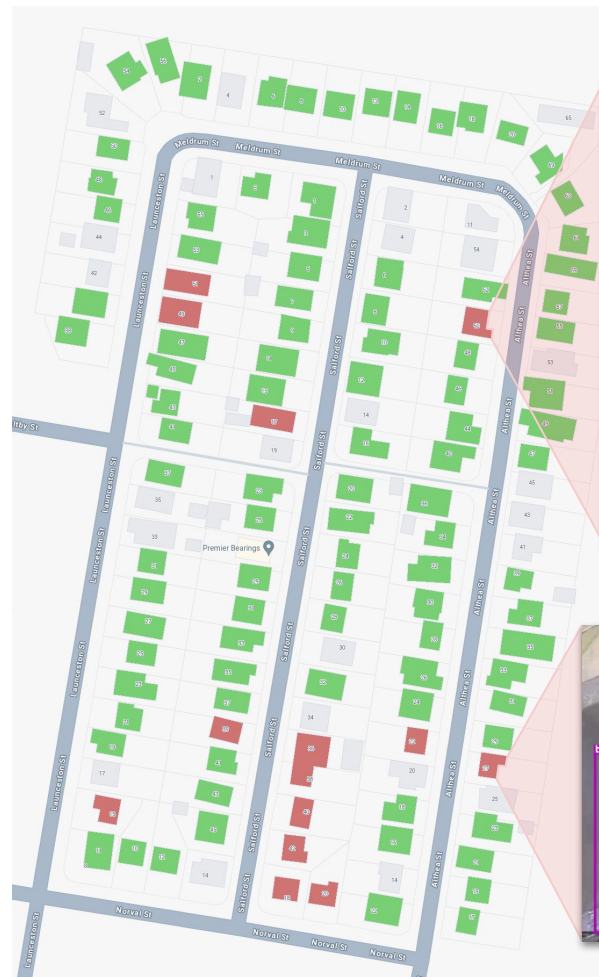
Houses had bins out

13/110 

Bins had contamination

30/35 

Detected contaminated items





## Field Validation (~90%)

**Date:** 25 July 2024      **Time:** 06:28 - 06:53  
**Location:** Dirkala St - Lorinya St, Mansfield QLD 4122

**80/94** 

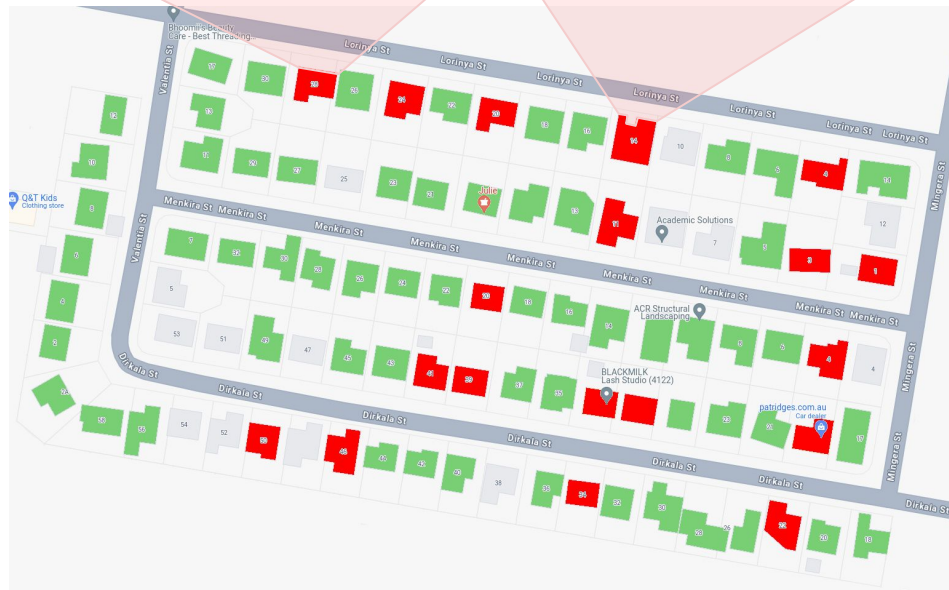
Houses had bins out

**19/80** 

Bins had contamination

**27/30** 

Detected contaminated items



## Field Validation (~90%)

**Date:** 28 April 2025

**Time:** 10:11 - 10:49

**Location:** Martindale St - Roebig St, Aspley QLD 4034

97/111



Houses had bins out

19/97



Bins had contamination

27/30



Detected contaminated items

