Intelligent Data Collection Limited
Tolworth

Client:	Kingston
Project Number:	ID-0924-0001
Date of Survey:	15.10.2024
Survey Type:	ANPR Sample Rate Report

Quality Assurance and Issue Record

Quality Assurance

Revision	Rev A			
Date	24.10.2024			
Prepared by	███████			
Signature				
Checked by	███████			
Signature				
Project Director	█████			
Signature				
Project Number	ID-0924-0001			
File Ref	ID-0924-0001 Tolworth - ANPR Sample Rate Report - 15_10_2024.xlsx			

Issue Sheet

	Date			
Issued to	24.10.2024			
███████	Email			

Copy of ID-0924-0001 Tolworth - ANPR Sample Rate Report RESTRICTED 2024

Contents Page

Intelligent Data Collection Limited

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Client: Kingston
Project Number: ID-0924-0001
Date of Survey: 15.10.2024
Survey Type: ANPR Sample Rate Report

Coordinates	Google Maps Link
51.37420, -0.29757	Click Here

Location Plan

ANPR Terminology

ANPR sites are either assumed to be 'External' or 'Internal'. This affects the way in which the OD matching process works in relation to each site. The differences between the two types are as follows:

External (shown in blue coloured tabs) - these are sites which are assumed to be on the periphery of the study area and hence vehicles passing through these sites will be starting or ending their trip. Directions at these sites are set to Inbound and Outbound, and for sites that have vehicles travelling into the study area (i.e. they are not purely a one-way Outbound site) a ANPR Inbound Match Rate statistic is presented in addition to the capture rates for each direction.

Internal (shown in pink coloured tabs) - these are sites that are considered to be possible through movement sites for longer distance OD movements - i.e. they may be an intermediate capture point for vehicles seen entering and exiting the study area elsewhere. In this instance, the OD movement is assigned to the initial and final capture locations. Internal sites can be the origin of a trip (if it is not captured elsewhere before) or the destination of a trip (if it is not captured again after). However, as the majority of vehicles passing these locations will have both the origin and destination assigned elsewhere, match rates are not presented for these points. Directions at these sites will be given as N and S (effectively meaning NB and SB), for example, as opposed to Inbound and Outbound.

Match rates will often be lower than capture rates at External sites; there are three key reasons for this. Firstly for a vehicle to be successfully matched it has to be captured at both the inbound site and also a subsequent site (either internal or outbound at an external site). Therefore, depending on the capture rate success at the subsequent site, the probability of being captured at both sites may be lower. Secondly, any trips that either start or end their trips within the study area may only be captured once, either entering or exiting the cordon, and hence it will not be matched against a previous/subsequent capture. Finally, study areas that are not fully covered on each entry/exit into the cordon will allow vehicles to enter or leave the study area without being captured and will again result in unmatched trips.

Additional Notes (Factors which may impact on survey results such as accidents, roadworks, special events)

Intelligent Data Collection Limited

Client: Kingston
Project Number: ID-0924-0001
Date of Survey: 15.10.2024
Survey Type: ANPR Sample Rate Report

Capture / Matching Overview

Site	Overall Sample Rates			Inbound Sample Rates			Outbound Sample Rates			Inbound Match Rates		
	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Sample Rate	MCC	Matched Plates	Match Rate
1	4680	4616	99%	3509	3466	99%	1171	1150	98%	3509	1580	45%
2	4105	4012	98%	1917	1848	96%	2188	2164	99%	1917	381	20%
3	3070	3030	99%	1416	1406	99%	1654	1624	98%	1416	240	17%
4	2087	2025	97%	374	363	97%	1713	1662	97%	374	67	18%
Total	**13942**	**13683**	**98%**	**7216**	**7083**	**98%**	**6726**	**6600**	**98%**	**7216**	**2268**	**31%**

External Site
Internal Site

*Inbound match rates are only shown for the external sites that have traffic inbound to the study area
*For internal sites, the MCC and capture data will relate to EB and WB or NB and SB as opposed to Inbound and Outbound
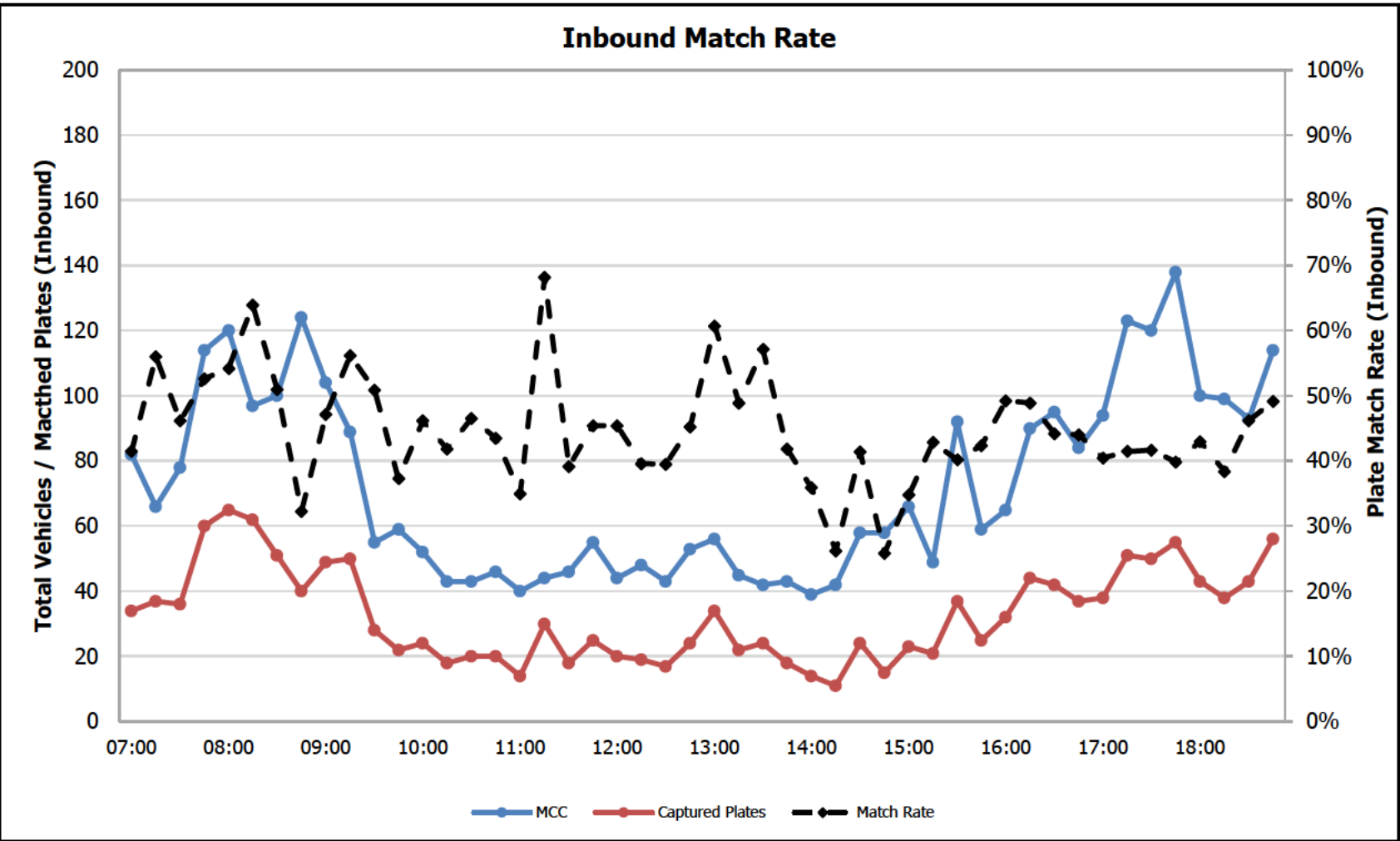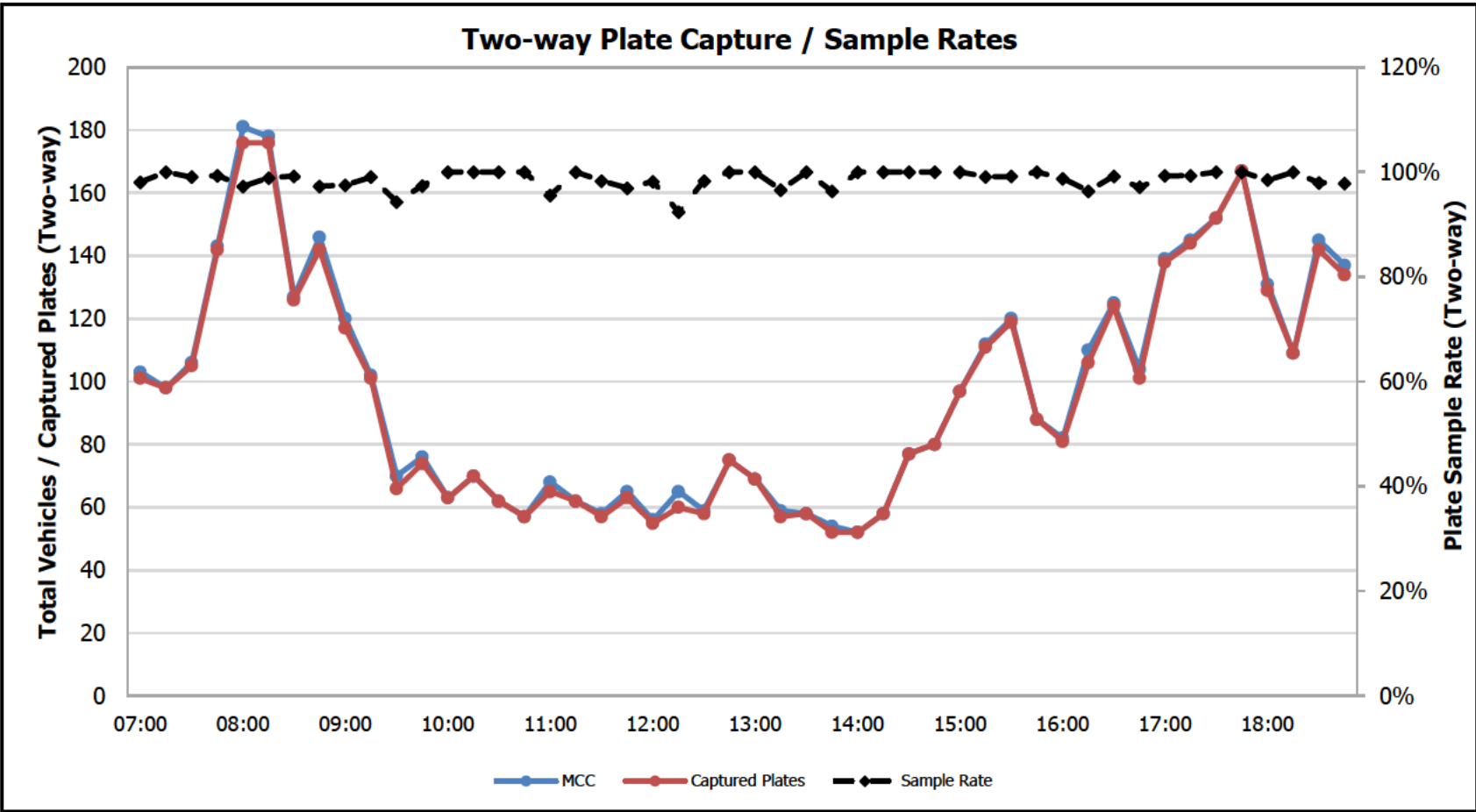
Intelligent Data Collection Limited

Client: Kingston
Project Number: ID-0924-0001
Date of Survey: 15.10.2024
Project Name: Tolworth
Road Name: Fullers Way North
Site Number: 1

Prepared by: ▮
Checked by: ▮

Site Sample and Match Rates

Time Period	Overall Sample Rates			Inbound Sample Rates			Outbound Sample Rates			Inbound Match Rates		
	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Match Rate
07:00	103	101	98%	82	80	98%	21	21	100%	82	34	41%
07:15	98	98	100%	66	66	100%	32	32	100%	66	37	56%
07:30	106	105	99%	78	78	100%	28	27	96%	78	36	46%
07:45	143	142	99%	114	114	100%	29	28	97%	114	60	53%
08:00	181	176	97%	120	115	96%	61	61	100%	120	65	54%
08:15	178	176	99%	97	96	99%	81	80	99%	97	62	64%
08:30	127	126	99%	100	100	100%	27	26	96%	100	51	51%
08:45	146	142	97%	124	120	97%	22	22	100%	124	40	32%
09:00	120	117	98%	104	102	98%	16	15	94%	104	49	47%
09:15	102	101	99%	89	88	99%	13	13	100%	89	50	56%
09:30	70	66	94%	55	53	96%	15	13	87%	55	28	51%
09:45	76	74	97%	59	57	97%	17	17	100%	59	22	37%
10:00	63	63	100%	52	52	100%	11	11	100%	52	24	46%
10:15	70	70	100%	43	43	100%	27	27	100%	43	18	42%
10:30	62	62	100%	43	43	100%	19	19	100%	43	20	47%
10:45	57	57	100%	46	46	100%	11	11	100%	46	20	43%
11:00	68	65	96%	40	37	93%	28	28	100%	40	14	35%
11:15	62	62	100%	44	44	100%	18	18	100%	44	30	68%
11:30	58	57	98%	46	45	98%	12	12	100%	46	18	39%
11:45	65	63	97%	55	54	98%	10	9	90%	55	25	45%
12:00	56	55	98%	44	44	100%	12	11	92%	44	20	45%
12:15	65	60	92%	48	43	90%	17	17	100%	48	19	40%
12:30	59	58	98%	43	42	98%	16	16	100%	43	17	40%
12:45	75	75	100%	53	53	100%	22	22	100%	53	24	45%
13:00	69	69	100%	56	56	100%	13	13	100%	56	34	61%
13:15	59	57	97%	45	43	96%	14	14	100%	45	22	49%
13:30	58	58	100%	42	42	100%	16	16	100%	42	24	57%
13:45	54	52	96%	43	42	98%	11	10	91%	43	18	42%
14:00	52	52	100%	39	39	100%	13	13	100%	39	14	36%
14:15	58	58	100%	42	42	100%	16	16	100%	42	11	26%
14:30	77	77	100%	58	58	100%	19	19	100%	58	24	41%
14:45	80	80	100%	58	58	100%	22	22	100%	58	15	26%
15:00	97	97	100%	66	66	100%	31	31	100%	66	23	35%
15:15	112	111	99%	49	49	100%	63	62	98%	49	21	43%
15:30	120	119	99%	92	92	100%	28	27	96%	92	37	40%
15:45	88	88	100%	59	59	100%	29	29	100%	59	25	42%
16:00	82	81	99%	65	65	100%	17	16	94%	65	32	49%
16:15	110	106	96%	90	88	98%	20	18	90%	90	44	49%
16:30	125	124	99%	95	95	100%	30	29	97%	95	42	44%
16:45	104	101	97%	84	82	98%	20	19	95%	84	37	44%
17:00	139	138	99%	94	94	100%	45	44	98%	94	38	40%
17:15	145	144	99%	123	122	99%	22	22	100%	123	51	41%
17:30	152	152	100%	120	120	100%	32	32	100%	120	50	42%
17:45	167	167	100%	138	138	100%	29	29	100%	138	55	40%
18:00	131	129	98%	100	98	98%	31	31	100%	100	43	43%
18:15	109	109	100%	99	99	100%	10	10	100%	99	38	38%
18:30	145	142	98%	93	93	100%	52	49	94%	93	43	46%
18:45	137	134	98%	114	111	97%	23	23	100%	114	56	49%
Total	**4680**	**4616**	**99%**	**3509**	**3466**	**99%**	**1171**	**1150**	**98%**	**3509**	**1580**	**45%**

Two-way Plate Capture / Sample Rates

Inbound Match Rate
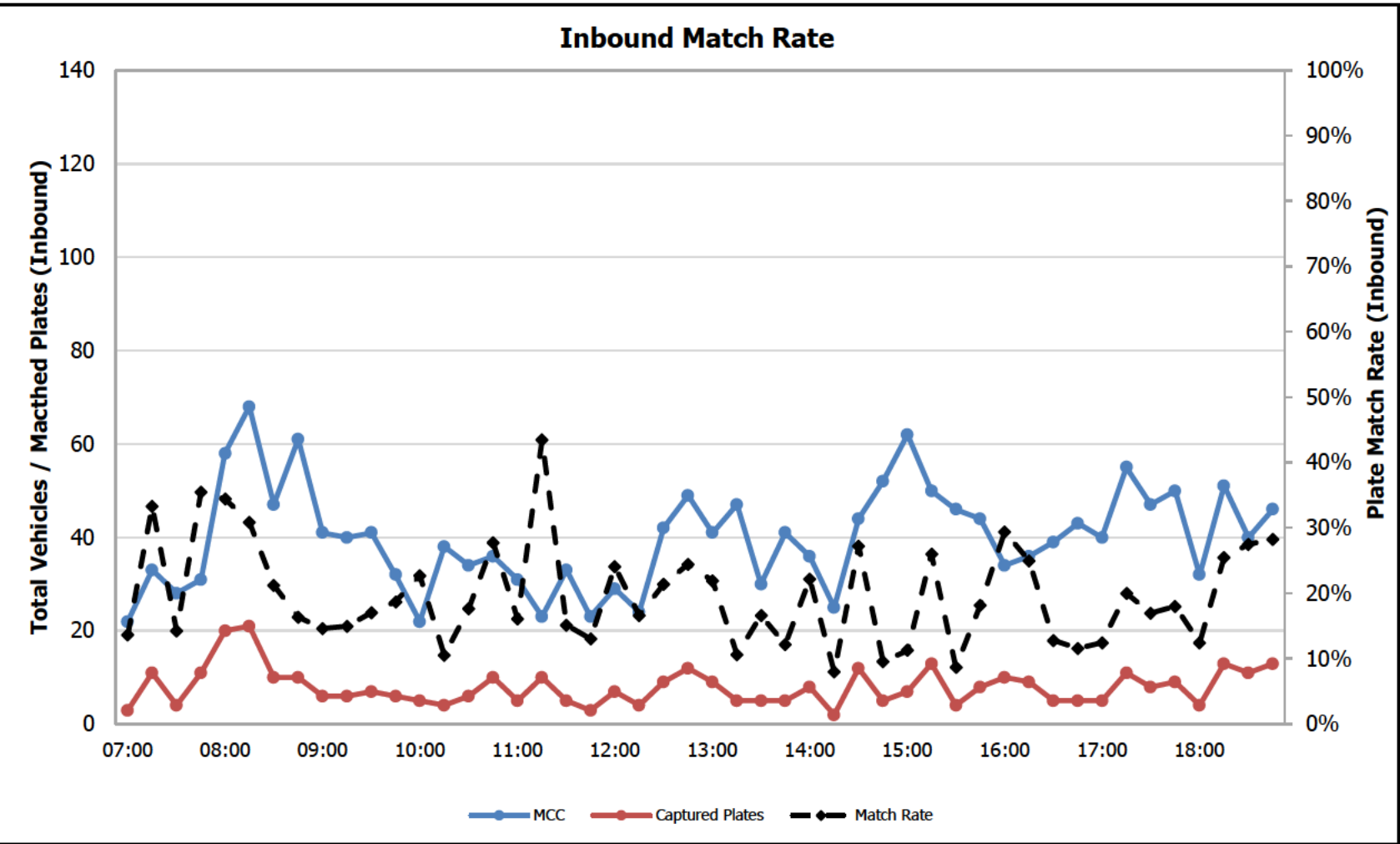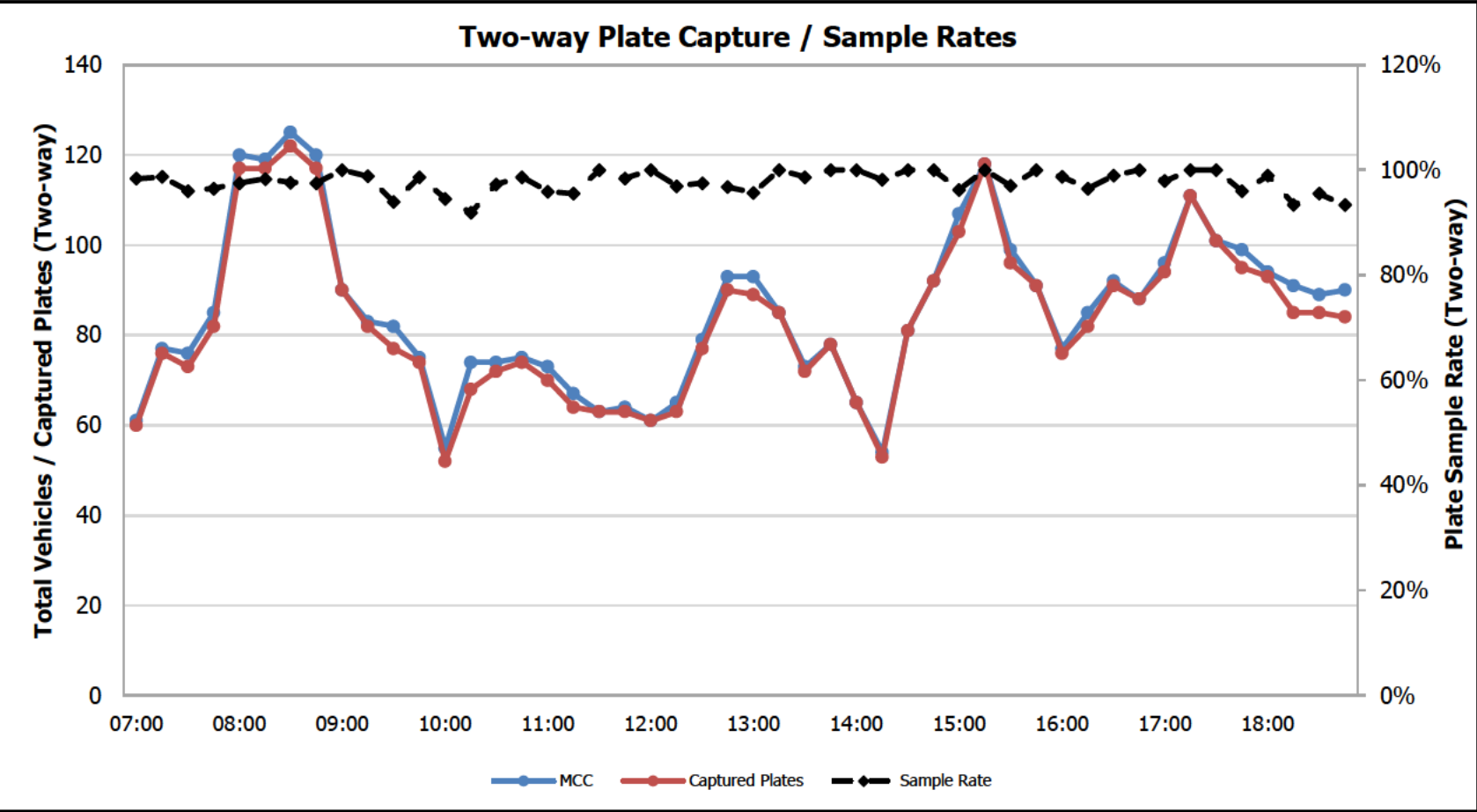
Intelligent Data Collection Limited

Client: Kingston
Project Number: ID-0924-0001
Date of Survey: 15.10.2024
Project Name: Tolworth
Road Name: Red Lion Road
Site Number: 2

Prepared by: ▮▮▮▮▮
Checked by: ▮▮▮▮▮

Site Sample and Match Rates

Time Period	Overall Sample Rates			Inbound Sample Rates			Outbound Sample Rates			Inbound Match Rates		
	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Match Rate
07:00	61	60	98%	22	21	95%	39	39	100%	22	3	14%
07:15	77	76	99%	33	32	97%	44	44	100%	33	11	33%
07:30	76	73	96%	28	26	93%	48	47	98%	28	4	14%
07:45	85	82	96%	31	31	100%	54	51	94%	31	11	35%
08:00	120	117	98%	58	55	95%	62	62	100%	58	20	34%
08:15	119	117	98%	68	66	97%	51	51	100%	68	21	31%
08:30	125	122	98%	47	47	100%	78	75	96%	47	10	21%
08:45	120	117	98%	61	58	95%	59	59	100%	61	10	16%
09:00	90	90	100%	41	41	100%	49	49	100%	41	6	15%
09:15	83	82	99%	40	39	98%	43	43	100%	40	6	15%
09:30	82	77	94%	41	36	88%	41	41	100%	41	7	17%
09:45	75	74	99%	32	31	97%	43	43	100%	32	6	19%
10:00	55	52	95%	22	20	91%	33	32	97%	22	5	23%
10:15	74	68	92%	38	32	84%	36	36	100%	38	4	11%
10:30	74	72	97%	34	32	94%	40	40	100%	34	6	18%
10:45	75	74	99%	36	36	100%	39	38	97%	36	10	28%
11:00	73	70	96%	31	28	90%	42	42	100%	31	5	16%
11:15	67	64	96%	23	23	100%	44	41	93%	23	10	43%
11:30	63	63	100%	33	33	100%	30	30	100%	33	5	15%
11:45	64	63	98%	23	22	96%	41	41	100%	23	3	13%
12:00	61	61	100%	29	29	100%	32	32	100%	29	7	24%
12:15	65	63	97%	24	22	92%	41	41	100%	24	4	17%
12:30	79	77	97%	42	42	100%	37	35	95%	42	9	21%
12:45	93	90	97%	49	47	96%	44	43	98%	49	12	24%
13:00	93	89	96%	41	38	93%	52	51	98%	41	9	22%
13:15	85	85	100%	47	47	100%	38	38	100%	47	5	11%
13:30	73	72	99%	30	29	97%	43	43	100%	30	5	17%
13:45	78	78	100%	41	41	100%	37	37	100%	41	5	12%
14:00	65	65	100%	36	36	100%	29	29	100%	36	8	22%
14:15	54	53	98%	25	24	96%	29	29	100%	25	2	8%
14:30	81	81	100%	44	44	100%	37	37	100%	44	12	27%
14:45	92	92	100%	52	52	100%	40	40	100%	52	5	10%
15:00	107	103	96%	62	58	94%	45	45	100%	62	7	11%
15:15	118	118	100%	50	50	100%	68	68	100%	50	13	26%
15:30	99	96	97%	46	43	93%	53	53	100%	46	4	9%
15:45	91	91	100%	44	44	100%	47	47	100%	44	8	18%
16:00	77	76	99%	34	33	97%	43	43	100%	34	10	29%
16:15	85	82	96%	36	33	92%	49	49	100%	36	9	25%
16:30	92	91	99%	39	38	97%	53	53	100%	39	5	13%
16:45	88	88	100%	43	43	100%	45	45	100%	43	5	12%
17:00	96	94	98%	40	38	95%	56	56	100%	40	5	13%
17:15	111	111	100%	55	55	100%	56	56	100%	55	11	20%
17:30	101	101	100%	47	47	100%	54	54	100%	47	8	17%
17:45	99	95	96%	50	47	94%	49	48	98%	50	9	18%
18:00	94	93	99%	32	31	97%	62	62	100%	32	4	13%
18:15	91	85	93%	51	47	92%	40	38	95%	51	13	25%
18:30	89	85	96%	40	39	98%	49	46	94%	40	11	28%
18:45	90	84	93%	46	42	91%	44	42	95%	46	13	28%
Total	**4105**	**4012**	**98%**	**1917**	**1848**	**96%**	**2188**	**2164**	**99%**	**1917**	**381**	**20%**

Two-way Plate Capture / Sample Rates

Inbound Match Rate
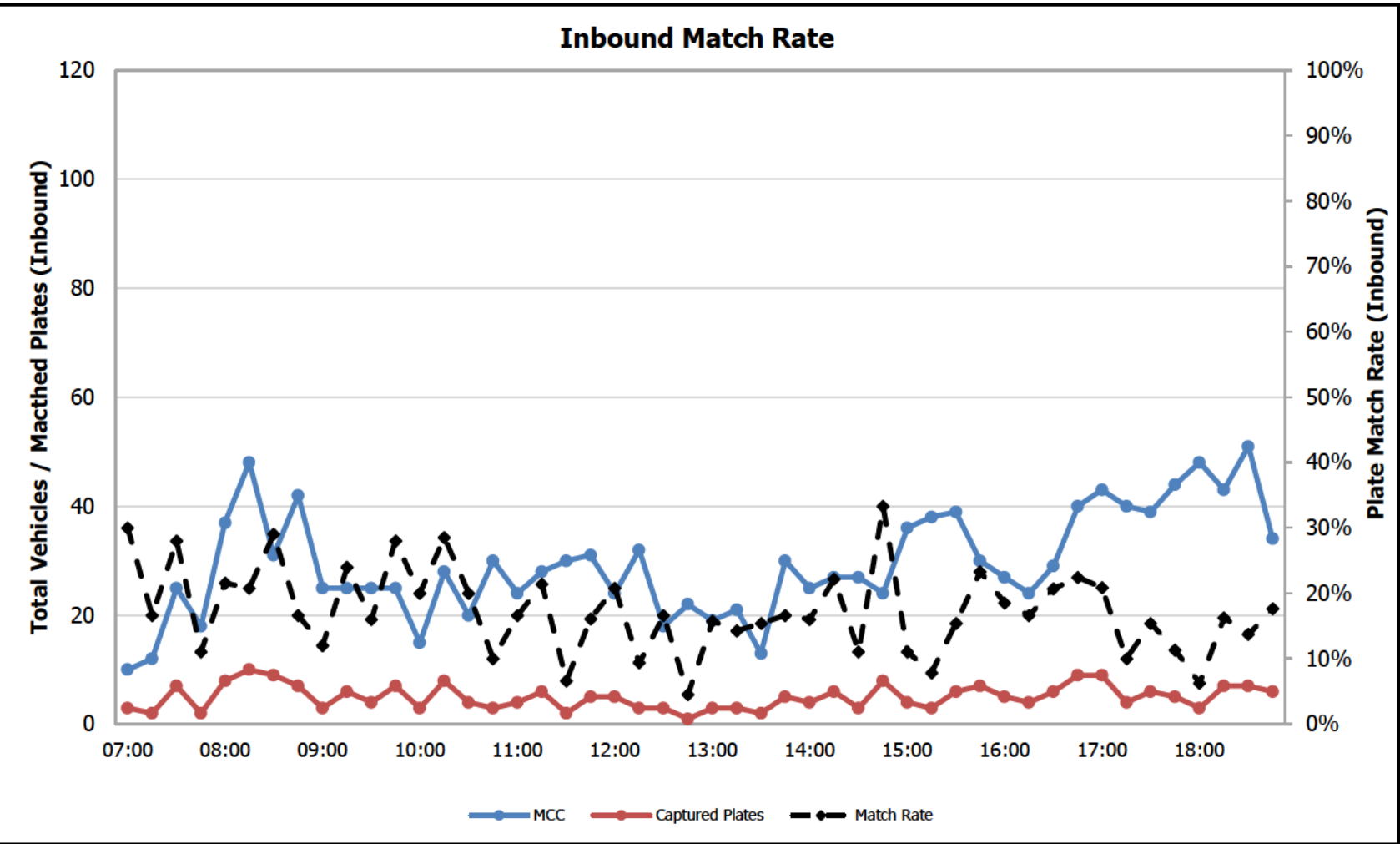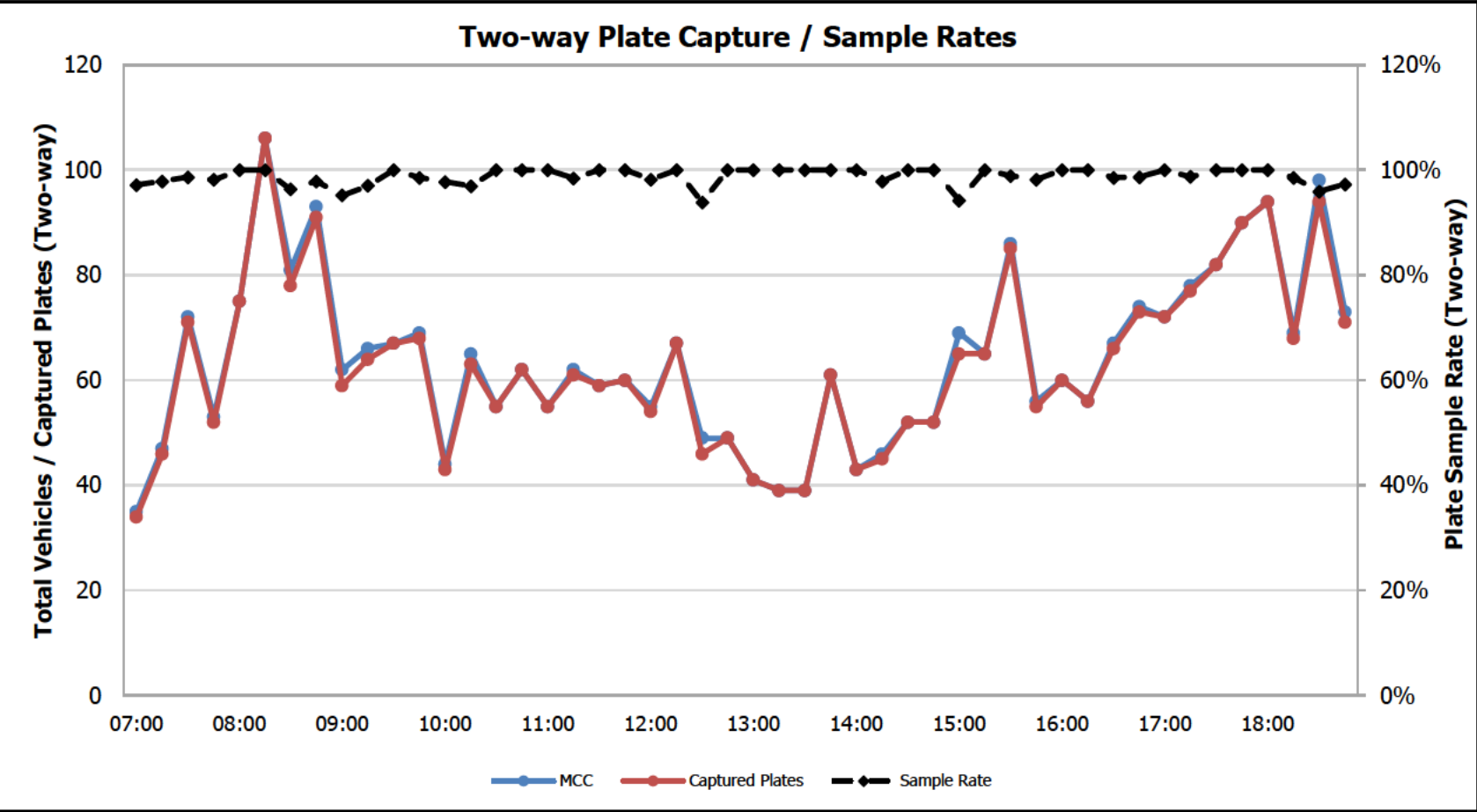
Intelligent Data Collection Limited

Client: Kingston
Project Number: ID-0924-0001
Date of Survey: 15.10.2024
Project Name: Tolworth
Road Name: Thornhill Road
Site Number: 3

Prepared by: ███████
Checked by: ███████

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Site Sample and Match Rates

Time Period	Overall Sample Rates			Inbound Sample Rates			Outbound Sample Rates			Inbound Match Rates		
	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Match Rate
07:00	35	34	97%	10	9	90%	25	25	100%	10	3	30%
07:15	47	46	98%	12	12	100%	35	34	97%	12	2	17%
07:30	72	71	99%	25	25	100%	47	46	98%	25	7	28%
07:45	53	52	98%	18	18	100%	35	34	97%	18	2	11%
08:00	75	75	100%	37	37	100%	38	38	100%	37	8	22%
08:15	106	106	100%	48	48	100%	58	58	100%	48	10	21%
08:30	81	78	96%	31	31	100%	50	47	94%	31	9	29%
08:45	93	91	98%	42	42	100%	51	49	96%	42	7	17%
09:00	62	59	95%	25	25	100%	37	34	92%	25	3	12%
09:15	66	64	97%	25	25	100%	41	39	95%	25	6	24%
09:30	67	67	100%	25	25	100%	42	42	100%	25	4	16%
09:45	69	68	99%	25	25	100%	44	43	98%	25	7	28%
10:00	44	43	98%	15	14	93%	29	29	100%	15	3	20%
10:15	65	63	97%	28	28	100%	37	35	95%	28	8	29%
10:30	55	55	100%	20	20	100%	35	35	100%	20	4	20%
10:45	62	62	100%	30	30	100%	32	32	100%	30	3	10%
11:00	55	55	100%	24	24	100%	31	31	100%	24	4	17%
11:15	62	61	98%	28	27	96%	34	34	100%	28	6	21%
11:30	59	59	100%	30	30	100%	29	29	100%	30	2	7%
11:45	60	60	100%	31	31	100%	29	29	100%	31	5	16%
12:00	55	54	98%	24	23	96%	31	31	100%	24	5	21%
12:15	67	67	100%	32	32	100%	35	35	100%	32	3	9%
12:30	49	46	94%	18	15	83%	31	31	100%	18	3	17%
12:45	49	49	100%	22	22	100%	27	27	100%	22	1	5%
13:00	41	41	100%	19	19	100%	22	22	100%	19	3	16%
13:15	39	39	100%	21	21	100%	18	18	100%	21	3	14%
13:30	39	39	100%	13	13	100%	26	26	100%	13	2	15%
13:45	61	61	100%	30	30	100%	31	31	100%	30	5	17%
14:00	43	43	100%	25	25	100%	18	18	100%	25	4	16%
14:15	46	45	98%	27	27	100%	19	18	95%	27	6	22%
14:30	52	52	100%	27	27	100%	25	25	100%	27	3	11%
14:45	52	52	100%	24	24	100%	28	28	100%	24	8	33%
15:00	69	65	94%	36	36	100%	33	29	88%	36	4	11%
15:15	65	65	100%	38	38	100%	27	27	100%	38	3	8%
15:30	86	85	99%	39	39	100%	47	46	98%	39	6	15%
15:45	56	55	98%	30	30	100%	26	25	96%	30	7	23%
16:00	60	60	100%	27	27	100%	33	33	100%	27	5	19%
16:15	56	56	100%	24	24	100%	32	32	100%	24	4	17%
16:30	67	66	99%	29	29	100%	38	37	97%	29	6	21%
16:45	74	73	99%	40	39	98%	34	34	100%	40	9	23%
17:00	72	72	100%	43	43	100%	29	29	100%	43	9	21%
17:15	78	77	99%	40	40	100%	38	37	97%	40	4	10%
17:30	82	82	100%	39	39	100%	43	43	100%	39	6	15%
17:45	90	90	100%	44	44	100%	46	46	100%	44	5	11%
18:00	94	94	100%	48	48	100%	46	46	100%	48	3	6%
18:15	69	68	99%	43	43	100%	26	25	96%	43	7	16%
18:30	98	94	96%	51	50	98%	47	44	94%	51	7	14%
18:45	73	71	97%	34	33	97%	39	38	97%	34	6	18%
Total	**3070**	**3030**	**99%**	**1416**	**1406**	**99%**	**1654**	**1624**	**98%**	**1416**	**240**	**17%**

Two-way Plate Capture / Sample Rates

Inbound Match Rate

Intelligent Data Collection Limited

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Client: Kingston
Project Number: ID-0924-0001
Date of Survey: 15.10.2024
Project Name: Tolworth
Road Name: Tolworth Road
Site Number: 4

Prepared by: ▮
Checked by: ▮

Site Sample and Match Rates

Time Period	Overall Sample Rates			Inbound Sample Rates			Outbound Sample Rates			Inbound Match Rates		
	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Sample Rate	MCC	Captured Plates	Match Rate
07:00	36	35	97%	2	2	100%	34	33	97%	2	1	50%
07:15	41	38	93%	7	7	100%	34	31	91%	7	2	29%
07:30	40	38	95%	3	3	100%	37	35	95%	3	1	33%
07:45	58	58	100%	4	4	100%	54	54	100%	4	2	50%
08:00	48	47	98%	9	8	89%	39	39	100%	9	2	22%
08:15	52	52	100%	6	6	100%	46	46	100%	6	3	50%
08:30	63	61	97%	6	5	83%	57	56	98%	6	3	50%
08:45	43	38	88%	10	10	100%	33	28	85%	10	0	0%
09:00	47	46	98%	4	4	100%	43	42	98%	4	2	50%
09:15	48	47	98%	6	6	100%	42	41	98%	6	0	0%
09:30	29	29	100%	8	8	100%	21	21	100%	8	1	13%
09:45	28	27	96%	4	4	100%	24	23	96%	4	1	25%
10:00	28	27	96%	8	8	100%	20	19	95%	8	2	25%
10:15	42	32	76%	5	5	100%	37	27	73%	5	2	40%
10:30	46	39	85%	14	14	100%	32	25	78%	14	2	14%
10:45	37	33	89%	6	6	100%	31	27	87%	6	0	0%
11:00	36	34	94%	8	7	88%	28	27	96%	8	2	25%
11:15	32	31	97%	8	7	88%	24	24	100%	8	1	13%
11:30	33	32	97%	10	9	90%	23	23	100%	10	1	10%
11:45	30	30	100%	4	4	100%	26	26	100%	4	0	0%
12:00	27	25	93%	4	4	100%	23	21	91%	4	0	0%
12:15	32	30	94%	10	10	100%	22	20	91%	10	1	10%
12:30	27	26	96%	8	8	100%	19	18	95%	8	2	25%
12:45	36	35	97%	10	10	100%	26	25	96%	10	1	10%
13:00	44	44	100%	7	7	100%	37	37	100%	7	2	29%
13:15	31	31	100%	10	10	100%	21	21	100%	10	2	20%
13:30	39	39	100%	10	10	100%	29	29	100%	10	4	40%
13:45	31	29	94%	7	7	100%	24	22	92%	7	0	0%
14:00	35	35	100%	9	9	100%	26	26	100%	9	0	0%
14:15	31	31	100%	11	11	100%	20	20	100%	11	2	18%
14:30	33	32	97%	10	9	90%	23	23	100%	10	2	20%
14:45	38	38	100%	11	11	100%	27	27	100%	11	1	9%
15:00	38	38	100%	8	8	100%	30	30	100%	8	2	25%
15:15	57	57	100%	12	12	100%	45	45	100%	12	6	50%
15:30	61	57	93%	8	8	100%	53	49	92%	8	0	0%
15:45	42	42	100%	6	6	100%	36	36	100%	6	0	0%
16:00	40	40	100%	4	4	100%	36	36	100%	4	0	0%
16:15	39	38	97%	7	6	86%	32	32	100%	7	1	14%
16:30	51	51	100%	8	8	100%	43	43	100%	8	0	0%
16:45	58	58	100%	11	11	100%	47	47	100%	11	1	9%
17:00	70	69	99%	12	11	92%	58	58	100%	12	4	33%
17:15	59	58	98%	10	9	90%	49	49	100%	10	1	10%
17:30	62	62	100%	3	3	100%	59	59	100%	3	0	0%
17:45	57	57	100%	7	7	100%	50	50	100%	7	0	0%
18:00	60	60	100%	5	5	100%	55	55	100%	5	0	0%
18:15	58	57	98%	14	13	93%	44	44	100%	14	2	14%
18:30	59	58	98%	12	12	100%	47	46	98%	12	3	25%
18:45	55	54	98%	8	7	88%	47	47	100%	8	2	25%
Total	**2087**	**2025**	**97%**	**374**	**363**	**97%**	**1713**	**1662**	**97%**	**374**	**67**	**18%**

Two-way Plate Capture / Sample Rates

Inbound Match Rate

TfL RESTRICTED