AVC Accuracy Reconciliation Report

Operating Period (2026/03/01 - 2026/03/31)Plaza(s) (Trichardt),Lifted Axles

All operating day(s) in selected period are closed

Control Centre : Trichardt Control

Plaza Name : Trichardt

Lane Direction : East

Lane Type : Mixed

Lane 01ME	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	380841	418998	38158	0	0	0	28	37	1058741	1096839	38099	6

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	38158	38093	65	501	4	99.83	0.042	99.87	99.90	Failed
Class 1	26177	26122	55	114		99.56	0.019	99.58	99.60	Failed
Class 2	2484	2482	2	209		91.58	0.285	91.86	95.00	Failed
Class 3	1750	1749	1	123	2	92.85	0.332	93.18	96.00	Failed
Class 4	7747	7740	7	55	2	99.26	0.086	99.35	99.00	Pass

Lane 02ME	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	1171282	1202078	30797	0	0	0	190	20	2144014	2174600	30587	0

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	30797	30587	210	292		99.32	0.046	99.37	99.90	Failed
Class 1	25956	25747	209	106		99.59	0.019	99.61	99.60	Pass
Class 2	1470	1470	0	85		94.22	0.285	94.50	95.00	Failed

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Class 3	565	565	0	71			87.43	0.332	87.76	96.00	Failed
Class 4	2806	2805	1	30			98.93	0.086	99.02	99.00	Pass

Lane 03ME	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	2068242	2095683	27442	0	0	0	22	5	2066902	2094321	27420	5

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count		Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	27442	27415	27	156	2		99.90	0.049	99.95	99.90	Pass
Class 1	25549	25522	27	15			99.94	0.019	99.96	99.60	Pass
Class 2	724	724	0	113			84.39	0.285	84.67	95.00	Failed
Class 3	235	235	0	27	1		88.09	0.332	88.42	96.00	Failed
Class 4	934	934	0	1	1		99.79	0.086	99.88	99.00	Pass

Lane 04ME	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	4775	4786	12	0	0	0	0	1	4790	4801	12	1

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count		Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	12	11	1	0			91.67	0.078	91.75	99.90	Failed
Class 1	10	9	1	0			100.00	0.019	100.00	99.60	Pass
Class 2	1	1	0	0			100.00	0.285	100.00	95.00	Pass
Class 3	1	1	0	0			100.00	0.332	100.00	96.00	Pass

Lane 05ME	Start Trx #	End Trx #	Expected Count	Missing Trx	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	Start AVC Trx #	End AVC Trx #	Expected AVC Count	Count Missing AVC Seq#
	2462467	2503248	40782	0	0	0	7	0	2555364	2596138	40775	0

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Miss Classed Count	Lifted Axles Count		Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	40782	40775	7	165	1		99.98	0.04	100.00	99.90	Pass
Class 1	39133	39126	7	67			99.83	0.019	99.85	99.60	Pass
Class 2	751	751	0	63			91.61	0.285	91.89	95.00	Failed

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Class 3	193	193	0	31		83.94	0.332	84.27	96.00	Failed
Class 4	705	705	0	4	1	99.29	0.086	99.38	99.00	Pass

Totals for Lane Type : Mixed	*Trx Count*	*Missing Trx Count*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*No Class Count*	*AVC Trx Count*	*Count Missing AVC Seq#*
	137191	*0*	*0*	*0*	*247*	*63*	*136893*	*12*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Missed Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*
Overall Count	137191	136881	310	1114	7	99.77	0.022	99.79	99.90	Failed
Class 1	116825	116526	299	302		99.74	0.036	99.78	99.60	Pass
Class 2	5430	5428	2	470		91.34	0.580	91.92	95.00	Failed
Class 3	2744	2743	1	252	3	90.82	0.733	91.55	96.00	Failed
Class 4	12192	12184	8	90	4	99.26	0.177	99.44	99.00	Pass

Totals for Lane Direction : East	*Trx Count*	*Missing Trx Count*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*No Class Count*	*AVC Trx Count*	*Count Missing AVC Seq#*
	137191	*0*	*0*	*0*	*247*	*63*	*136893*	*12*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Missed Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*
Overall Count	137191	136881	310	1114	7	99.77	0.022	99.79	99.90	Failed
Class 1	116825	116526	299	302		99.74	0.036	99.78	99.60	Pass
Class 2	5430	5428	2	470		91.34	0.580	91.92	95.00	Failed
Class 3	2744	2743	1	252	3	90.82	0.733	91.55	96.00	Failed
Class 4	12192	12184	8	90	4	99.26	0.177	99.44	99.00	Pass

Lane Direction : West

Lane Type : Mixed

Lane 06MW	*Start Trx #*	*End Trx #*	*Expected Count*	*Missing Trx*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*No Class Count*	*Start AVC Trx #*	*End AVC Trx #*	*Expected AVC Count*	*Count Missing AVC Seq#*
	1840164	*1895684*	*55521*	*0*	*0*	*0*	*16*	*1*	*1845314*	*1900817*	*55504*	*0*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Miss Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*

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Overall Count	55521	55504	17	287			99.97	0.035	100.00	99.90	Pass
Class 1	53269	53252	17	174			99.67	0.019	99.69	99.60	Pass
Class 2	1164	1164	0	79			93.21	0.285	93.49	95.00	Failed
Class 3	254	254	0	21			91.73	0.332	92.06	96.00	Failed
Class 4	834	834	0	13			98.44	0.086	98.53	99.00	Failed

Lane 07MW	*Start Trx #*	*End Trx #*	*Expected Count*	*Missing Trx*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*No Class Count*	*Start AVC Trx #*	*End AVC Trx #*	*Expected AVC Count*	*Count Missing AVC Seq#*
	673727	*673822*	*96*	*0*	*0*	*0*	*0*	*2*	*1746797*	*1746891*	*95*	*1*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Miss Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*
Overall Count	96	94	2	0		97.92	0.078	98.00	99.90	Failed
Class 1	92	90	2	0		100.00	0.019	100.00	99.60	Pass
Class 2	2	2	0	0		100.00	0.285	100.00	95.00	Pass
Class 4	2	2	0	0		100.00	0.086	100.00	99.00	Pass

Lane 08MW	*Start Trx #*	*End Trx #*	*Expected Count*	*Missing Trx*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*No Class Count*	*Start AVC Trx #*	*End AVC Trx #*	*Expected AVC Count*	*Count Missing AVC Seq#*
	352025	*384528*	*32504*	*0*	*0*	*0*	*48*	*2*	*2336961*	*2369416*	*32456*	*2*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Miss Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*
Overall Count	32504	32454	50	184	1	99.85	0.045	99.89	99.90	Failed
Class 1	28263	28213	50	26		99.91	0.019	99.93	99.60	Pass
Class 2	1514	1514	0	91		93.99	0.285	94.27	95.00	Failed
Class 3	499	499	0	61		87.78	0.332	88.11	96.00	Failed
Class 4	2228	2228	0	6	1	99.69	0.086	99.78	99.00	Pass

Lane 09MW	*Start Trx #*	*End Trx #*	*Expected Count*	*Missing Trx*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*No Class Count*	*Start AVC Trx #*	*End AVC Trx #*	*Expected AVC Count*	*Count Missing AVC Seq#*
	1794610	*1842107*	*47498*	*4*	*4*	*0*	*43*	*6*	*1866843*	*1914297*	*47455*	*6*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Miss Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*

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Overall Count	47502	47449	53	458	20	99.89	0.037	99.93	99.90	Pass
Class 1	34532	34483	49	72		99.79	0.019	99.81	99.60	Pass
Class 2	2763	2763	0	184		93.34	0.285	93.62	95.00	Failed
Class 3	1887	1887	0	149	10	91.57	0.332	91.90	96.00	Failed
Class 4	8320	8316	4	53	10	99.24	0.086	99.33	99.00	Pass

Totals for Lane Type : Mixed	Trx Count	Missing Trx Count	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	AVC Trx Count Count	Count Missing AVC Seq#
	135619	4	4	0	107	11	135510	9

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Missed Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	135623	135501	122	929	21	99.91	0.022	99.93	99.90	Pass
Class 1	116156	116038	118	272		99.77	0.036	99.81	99.60	Pass
Class 2	5443	5443		354		93.50	0.579	94.08	95.00	Failed
Class 3	2640	2640		231	10	91.25	0.748	92.00	96.00	Failed
Class 4	11384	11380	4	72	11	99.37	0.183	99.55	99.00	Pass

Totals for Lane Direction : West	Trx Count	Missing Trx Count	Manual Entry Count	Ghost Viol Count	Sim Trx Count	No Class Count	AVC Trx Count	Count Missing AVC Seq#
	135619	4	4	0	107	11	135510	9

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Missed Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome
Overall Count	135623	135501	122	929	21	99.89	0.022	99.91	99.90	Pass
Class 1	116156	116038	118	272		99.77	0.036	99.81	99.60	Pass
Class 2	5443	5443		354		93.50	0.579	94.08	95.00	Failed
Class 3	2640	2640		231	10	91.25	0.748	92.00	96.00	Failed
Class 4	11384	11380	4	72	11	99.37	0.183	99.55	99.00	Pass

Totals for Plaza : Trichardt	Trx Count	Missing Trx Count	Manual Entry Count	Ghost Viol Count	Sim Trx Count	Count No Class	AVC Trx Count	Count Missing AVC Seq#
	272810	4	4	0	354	74	272403	21

Veh. Class	Actual Traffic Count	AVC Correct Traffic Count	No AVC Present Count	Missed Classed Count	Lifted Axles Count	Measured Accuracy (%)	Error Margin (%)	AVC Accuracy (%)	Required Accuracy (%)	Outcome

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Overall Count	272814	272382	432	2043	28	99.83	0.016	99.85	99.90	Failed
Class 1	232981	232564	417	574		99.75	0.026	99.78	99.60	Pass
Class 2	10873	10871	2	824		92.42	0.410	92.83	95.00	Failed
Class 3	5384	5383	1	483	13	89.34	0.523	89.86	96.00	Failed
Class 4	23576	23564	12	162	15	97.57	0.127	97.7	99.00	Failed

Totals for Control Centre : Trichardt Control	*Trx Count*	*Missing Trx Count*	*Manual Entry Count*	*Ghost Viol Count*	*Sim Trx Count*	*Count No Class*	*AVC Trx Count*	*Count Missing AVC Seq#*
	272810	*4*	*4*	*0*	*354*	*74*	*272403*	*21*

Veh. Class	*Actual Traffic Count*	*AVC Correct Traffic Count*	*No AVC Present Count*	*Missed Classed Count*	*Lifted Axles Count*	*Measured Accuracy (%)*	*Error Margin (%)*	*AVC Accuracy (%)*	*Required Accuracy (%)*	*Outcome*
Overall Count	272814	272382	432	2043	28	99.83	0.016	99.85	99.90	Failed
Class 1	232981	232564	417	574		99.75	0.026	99.78	99.60	Pass
Class 2	10873	10871	2	824		92.42	0.410	92.83	95.00	Failed
Class 3	5384	5383	1	483	13	91.03	0.523	91.55	96.00	Failed
Class 4	23576	23564	12	162	15	99.31	0.127	99.44	99.00	Pass

COLUMN DEFINITIONS:

- **General Comment:** Overall Count Accuracy values show whether the AVC correctly detected each vehicle and only true vehicles as per the definition of the Government Gazette. The Classification Accuracy values therefore exclude all missed or over counted vehicle passages.

- **Actual Traffic**

  Overall Count
  This is the actual number of vehicles that passed through the lane/Virtual Plaza or control centre. Based on MIS Data
  Classification Count per class:
  This is the actual number of vehicles (MIS transactions) of a certain class that passed through the lane/Virtual Plaza or control centre based on the corrected/verified vehicle classification. The actual number of vehicles will exclude all vehicles that the AVC failed to detect, as per Kersen Naidoo comments on the 29th July 2010.
  NB. The Actual traffic does not include any of the Class 0 transactions (Class 0 Timeouts and Ghost Violations) Assuming that these are correctly validated by the Operator by means of the VGS.
  This “Actual Traffic” shall also be equal to the total number of physical true vehicle passages through the lane/Virtual Plaza or Control Centre as when verified by means of a manual Video Vehicle count and class verification.
- **AVC Correct Traffic**

  Overall Count

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The number of ACTUAL passages that were detected by the AVC. This count will use the Actual Dataset .

Classification Count

Using the Actual Dataset, this is the number of vehicles that AVC classified correctly.

- **No AVC Present**

  Overall Count

  The number of ACTUAL passages not detected by the AVC or the data was not communicated to the TCC by the AVC thus resulting in no record being sent to the MIS.

  Classification Count

  The number of ACTUAL passages for a specific classification not detected by the AVC or the data was not communicated to the TCC by the AVC thus resulting in no record being sent to the MIS.

- **Misclassified**

  Overall Count

  The number of ACTUAL passages that were classified incorrectly by the AVC. This excludes any passages that were not classified or detected by the AVC.

  Classification Count

  The number of ACTUAL passages for a specific classification that were incorrectly classified by the AVC. This excludes any passages that were not classified or detected by the AVC.

- **NC (No Class)**

  Overall Count

  The number of ACTUAL vehicles that were detected by the AVC but the AVC failed to classify the vehicle.

  Classification Count

  The number of ACTUAL vehicles for a specific classification that were detected by the AVC but the AVC failed to classify the vehicle.

- **Lifted Axles**

  The Number of Vehicles that have axles that are present on a vehicle but are raised off the ground, meaning they are not in contact with the road surface.

- **Simulated Transactions**

  The Number of artificially generated vehicle passages used to test, validate, or monitor AVC systems without real vehicles passing through a tolling or classification point.

- **Measured Accuracy (%)**

  Overall count

  The Actual Traffic less the error count (Vehicles not detected by the AVC plus all ghost violations) as a percentage of the Actual Traffic. Note, the value will never be more than 100%, if it is more than 100% than there is a problem with the counts.

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Classification count

The total number of vehicles classified correctly by the AVC for a specific class as a percentage of the actual number of vehicles for a specific classification. Note, the actual number excludes all passages which the AVC did not detect. This value will never be more than 100%, if it is more than 100% than there is a problem with the counts.

- **Error Margin (%)**

Overall count

n is the actual number of vehicles used in the sample. p and z are given in book 2 volume 4.

Classification count

n is the actual number of vehicles used in the sample for the specific classification, this will exclude any vehicles that the AVC did not detect. p and z are given in book 2 volume 4.

- **AVC Accuracy (%)**

Overall count

The measured accuracy plus d(error margin). This value can exceed 100% and should be displayed as 100% when it exceeds 100%.

Classification count

The measured accuracy for the specific class plus the calculated d(error margin) for the specific class. This value can exceed 100% and should be displayed as 100% when it exceeds 100%.

- **Required Accuracy (%)**

Overall count

This is the expected AVC accuracy which is specified in Book 2 Volume 4.

Classification count

This is the expected AVC accuracy for a specific class which is specified in Book 2 Volume 4.

- **Outcome**

Overall count

If the AVC Accuracy is equal to or exceeds the required AVC accuracy the outcome will be PASSED, if the AVC accuracy is less than the required AVC accuracy the outcome will FAILED.

Classification

If the AVC Accuracy for a specific class is equal to or exceeds the required AVC accuracy for the specific class the outcome will be PASSED, if the AVC accuracy for the specific class is less than the required AVC accuracy for the specific class the outcome will FAILED.

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