AVC Accuracy Reconciliation Report

Operating Period (2026/01/01 - 2026/01/31)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#
	359796	362151	2356	4	4	0	4	2	1037710	1040062	2353	3

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	2360	2350	10	36		99.58	0.078	99.66	99.90	Failed
Class 1	1653	1647	6	7		99.57	0.019	99.59	99.60	Failed
Class 2	133	133	0	9		93.23	0.285	93.51	95.00	Failed
Class 3	115	115	0	11		90.43	0.332	90.76	96.00	Failed
Class 4	459	455	4	9		98.02	0.086	98.11	99.00	Failed

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#
	1079507	1136548	57042	1	1	0	63	0	2052409	2109387	56979	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	57043	56979	64	475	6	99.89	0.034	99.92	99.90	Pass
Class 1	43891	43828	63	61		99.86	0.019	99.88	99.60	Pass
Class 2	2806	2805	1	197		92.98	0.285	93.26	95.00	Failed

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Class 3	1709	1709	0	182			89.35	0.332	89.68	96.00	Failed
Class 4	8637	8637	0	35	6		99.53	0.086	99.62	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#
	2046652	2047882	1231	0	0	0	3	0	2045331	2046558	1228	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	1231	1228	3	17	1	99.76	0.078	99.84	99.90	Failed
Class 1	1005	1002	3	1		99.90	0.019	99.92	99.60	Pass
Class 2	72	72	0	9		87.50	0.285	87.78	95.00	Failed
Class 3	43	43	0	6	1	83.72	0.332	84.05	96.00	Failed
Class 4	111	111	0	1		99.10	0.086	99.19	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#
	4760	4771	12	0	0	0	0	2	4775	4786	12	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	12	10	2	0		83.33	0.078	83.41	99.90	Failed
Class 1	12	10	2	0		100.00	0.019	100.00	99.60	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#
	2351584	2415555	63972	1	0	0	10	1	2444504	2508466	63963	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	63973	63962	11	263	2	99.98	0.032	100.00	99.90	Pass
Class 1	59816	59805	11	60		99.90	0.019	99.92	99.60	Pass
Class 2	1571	1571	0	127		91.92	0.285	92.20	95.00	Failed
Class 3	565	565	0	67	1	87.96	0.332	88.29	96.00	Failed
Class 4	2021	2021	0	9	1	99.51	0.086	99.60	99.00	Pass

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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#
	124613	6	5	0	80	5	124535	6

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	124619	124529	90	791	9	99.93	0.023	99.95	99.90	Pass
Class 1	106377	106292	85	129		99.88	0.038	99.92	99.60	Pass
Class 2	4582	4581	1	342		92.54	0.631	93.17	95.00	Failed
Class 3	2432	2432		266	2	89.06	0.779	89.84	96.00	Failed
Class 4	11228	11224	4	54	7	99.52	0.184	99.7	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#
	124613	6	5	0	80	5	124535	6

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	124619	124529	90	791	9	99.92	0.023	99.94	99.90	Pass
Class 1	106377	106292	85	129		99.88	0.038	99.92	99.60	Pass
Class 2	4582	4581	1	342		92.54	0.631	93.17	95.00	Failed
Class 3	2432	2432		266	2	89.06	0.779	89.84	96.00	Failed
Class 4	11228	11224	4	54	7	99.52	0.184	99.7	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#
	1798190	1803838	5649	1	1	0	2	0	1803351	1808997	5647	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	5650	5647	3	7	2	99.95	0.078	100.00	99.90	Pass
Class 1	5506	5503	3	2		99.96	0.019	99.98	99.60	Pass

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Class 2	62	62	0	5		91.94	0.285	92.22	95.00	Failed
Class 3	27	27	0	0		100.00	0.332	100.00	96.00	Pass
Class 4	55	55	0	0	2	96.36	0.086	96.45	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#*
	673643	*673679*	*37*	*0*	*0*	*0*	*0*	*0*	*1746713*	*1746749*	*37*	*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	37	37	0	0		100.00	0.078	100.00	99.90	Pass
Class 1	35	35	0	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

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#*
	249705	*314758*	*65054*	*0*	*0*	*0*	*20*	*0*	*2234698*	*2299731*	*65034*	*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	65054	65034	20	187	1	99.97	0.032	100.00	99.90	Pass
Class 1	61665	61645	20	47		99.92	0.019	99.94	99.60	Pass
Class 2	1417	1417	0	98		93.08	0.285	93.36	95.00	Failed
Class 3	412	412	0	31	1	92.23	0.332	92.56	96.00	Failed
Class 4	1560	1560	0	11		99.29	0.086	99.38	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#*
	1685234	*1749553*	*64320*	*1*	*1*	*0*	*51*	*6*	*1757566*	*1821834*	*64269*	*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	64321	64263	58	533	20	99.91	0.032	99.94	99.90	Pass
Class 1	50553	50495	58	91		99.82	0.019	99.84	99.60	Pass
Class 2	3175	3175	0	236		92.57	0.285	92.85	95.00	Failed

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Class 3	1930	1930	0	176	10	90.36	0.332	90.69	96.00	Failed
Class 4	8663	8663	0	30	10	99.54	0.086	99.63	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#
	135060	2	2	0	73	6	134987	6

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	135062	134981	81	727	23	99.94	0.022	99.96	99.90	Pass
Class 1	117759	117678	81	140		99.88	0.036	99.92	99.60	Pass
Class 2	4656	4656		339		92.72	0.626	93.35	95.00	Failed
Class 3	2369	2369		207	11	91.26	0.789	92.05	96.00	Failed
Class 4	10278	10278		41	12	99.60	0.192	99.79	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#
	135060	2	2	0	73	6	134987	6

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	135062	134981	81	727	23	99.92	0.022	99.94	99.90	Pass
Class 1	117759	117678	81	140		99.88	0.036	99.92	99.60	Pass
Class 2	4656	4656		339		92.72	0.626	93.35	95.00	Failed
Class 3	2369	2369		207	11	91.26	0.789	92.05	96.00	Failed
Class 4	10278	10278		41	12	99.60	0.192	99.79	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#
	259673	8	7	0	153	11	259522	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	259681	259510	171	1518	32	99.92	0.016	99.94	99.90	Pass
Class 1	224136	223970	166	269		99.88	0.026	99.91	99.60	Pass
Class 2	9238	9237	1	681		92.63	0.444	93.07	95.00	Failed

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Class 3	4801	4801		473	13	94.40	0.554	94.95	96.00	Failed
Class 4	21506	21502	4	95	19	98.75	0.133	98.88	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#*
	259673	*8*	*7*	*0*	*153*	*11*	*259522*	*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	259681	259510	171	1518	32	99.92	0.016	99.94	99.90	Pass
Class 1	224136	223970	166	269		99.88	0.026	99.91	99.60	Pass
Class 2	9238	9237	1	681		92.63	0.444	93.07	95.00	Failed
Class 3	4801	4801		473	13	90.15	0.554	90.7	96.00	Failed
Class 4	21506	21502	4	95	19	99.56	0.133	99.69	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
  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.

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- **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.
  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

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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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