Expected Value

81

77

-

85

90

90

90

83

70

85

80

77

78

DATABASE HEALTH INDEX - DASHBOARD

WELLINGTON

12/12/2013

KEY:

One grade, or between 0 and 15 below captured value Greater than one grade, or 15 below captured value

69

Grade 1

no.

no.

Grade 2

-

-

138.9%

236

57

Performance

On or exceeding target

Area: Date:

Carriageway Asset Inventory

Collected Data

-Carriageway Asset Inventory

Signs

Signs per km v Regional Average

ITS VMS

Large Signs >4.0m² (see attached report for quantity by type)

| | Category | Measures | Result | Measure | Expected Value | Category |
|---------|---------------------------|--|---------------------|---------------|-------------------|----------|
| | Capital Draigata | Major capital projects completed v RAMM (in last 6 -30 months) | see a | attached repo | ort | |
| | Capital Projects | Minor capital or safety improvement projects v RAMM (in last 6 -30 months) | see a | attached repo | ort | - |
| | | % of Network surfaced in RAMM over previous 4 – 15 months | 2.8% | Grade 3 | Grade 1 | |
| | | % Surfaces at least 50% older than expected age | 11.2% | Grade 3 | Grade 2 | |
| | | % of Network with no surfacing | 2.3% | Grade 1 | Grade 1 | 71 |
| L A | | Illogical Records inc. % (SAC with chipseal, Low and high widths, Alignment of traffic volumes v pavement use) | 2.2% | Grade 1 | Grade 1 | |
| ento | | Proportion of Network with layer Information | 52.9% | Grade 3 | Grade 3 | |
| | Pavement Layer | New layer length in previous 6 – 30 months | 1.6% | Grade 3 | Grade 2 | 59 |
| 155G | | Illogical records (Pavement Layers v Incorrect Surfacing) | 3.9% | Grade 1 | Grade 1 | |
| vay / | Road Marking | Breakdown of road markings by type | see a | attached repo | ort | - |
| agev | | Proportion of very short (< 20m) TLs | 0.1% | Grade 1 | Grade 1 | |
| arri | Treatment Length | Proportion of very long (> 2000m) TLs | 0.0% | Grade 1 | Grade 1 | 88 |
| נ | rieatment Length | Proportion of TLs with < 80% coverage of major surfacing | 14.3% | Grade 2 | Grade 1 | 00 |
| | | % updated in last 5 years | 82.2% | Grade 2 | Grade 2 | |
| | | Date FWP last updated | 14/11/2013 | - | - | |
| | Forward Works | Proportion of network identified for treatment in next ten years (from FWP) | 103.4% | Grade 1 | Grade 2 | 00 |
| | Programme | FWP v surfacings (% surfacings in last year conflicting with first 2 years of FWP excluding 2nd coats) | 0.0% | Grade 1 | Grade 1 | 90 |
| | | Evidence of active MIS strategy, reasons for treatments listed and detailed | 70.0% | Grade 3 | Grade 1 | |
| | Carriageway Rating | Percentage rated in last year | 96.8% | Grade 1 | Grade 1 | 97 |
| | High Speed Data | % network meeting standards for roughness, rutting and texture (Roads surveyed in last year) | 74.8% | Grade 2 | Grade 1 | |
| | | % network meeting standards for FWD (Roads surveyed in last 5years) | 63.2% | Grade 3 | Grade 1 | 71 |
| | | % network meeting standards for SCRIM (Roads surveyed in last year) | 74.8% | Grade 2 | Grade 1 | |
| | | Items per km for PA and SU cost groups in previous 4 – 15 months v Regional Average | 150.0% | Grade 1 | Grade 2 | |
| ala | Maintenance Activity | Spread of location in previous 4 - 15 months (proportion located at carriageway start) | 0.7% | Grade 1 | Grade 2 | 98 |
| ם פמ | | Distribution of maintenance patch sizes by Hierarchy | see a | attached repo | ort | |
| licel | | Breakdown of Maintenance Cost Activities | see attached report | | | |
| 5 | | % of Maintenance Activity where fault type is "Unknown" | 0.7% | Grade 1 | Grade 1 | |
| | Missellenseus | No. of test pits with layer data recorded | 41 | no. | - | |
| | Miscellaneous | No. of LTPP sites recorded in RAMM | 2 | no. | - | - |
| | | Latest ADT Counts | 31/12/2012 | - | - | |
| | Traffic Count | Latest ADT Estimates | 11/12/2013 | - | - | 99 |
| | | % loading estimate (i.e. not default) | 99.1% | Grade 1 | Grade 2 | |
| | | No. of Pavement Type "Bridge" v No. of Bridges > 50m in length in BDS | 60.0% | Grade 3 | Grade 1 | |
| | | No. Large Culverts v No. BDS | 7.5% | Grade 5 | Grade 2 | |
| | Structures | Retaining Walls | 245 | no. | - | 24 |
| | Structures | Gantries (see attached report for locations) | 44 | no. | - | 34 |
| | | Barriers in RAMM (m) | 168696 | m | - | |
| | | End Treatments in RAMM | see a | attached repo | ort | |
| | | Culverts per km v Regional Average (Rural) | 84.0% | Grade 2 | Grade 2 | |
| | | Catchpits per km v Regional Average (Urban) | 123.8% | Grade 1 | Grade 2 | |
| | Drainage | Manholes per km v Regional Average (Urban) | 128.6% | Grade 1 | Grade 2 | 76 |
| | | Subsoil Drains per km v Regional Average (Rural) | 90.7% | Grade 1 | Grade 2 | |
| > | | % of Drainage (Construction Date in previous 4 – 15 months) | 0.1% | Grade 4 | Grade 2 | |
| 5 | | Surfaced SWC per km v Regional Average (Urban) | 98.8% | Grade 1 | Grade 2 | |
| a luve | Surface Water Channels | Earth SWC per km v Regional Average (Rural) | 77.1% | Grade 2 | Grade 2 | 72 |
| lass | S. Idiniolo | Sealed SWC renewal activity (Construction Date in previous 4 – 27 months) | 1.7% | Grade 3 | Grade 2 | |
| P01 | | | | | | |

| Non-Ca | | % of Signs with renewal date in last 4 - 15 months | 2.5% | Grade 3 | Grade 2 | | |
|--------|------------------------------------|---|--------|---------------|---------|----|----|
| Ñ | | No. Frangible bases in RAMM (no posts in RAMM) | 252 | no. | - | | |
| | | Streetlights per km v Regional Average | 161.1% | Grade 1 | Grade 2 | | |
| | | Frangible Base type no. | 26 | no. | - | | |
| | Streetlights | Shear Base type no. | 995 | no. | - | 67 | 82 |
| | | % of Streetlight Poles with renewal date in last 4 – 15 months | 0.0% | Grade 4 | Grade 2 | | |
| | | Duplicates or near duplicates plus poles with no light or bracket | 0.0% | Grade 1 | Grade 1 | | |
| | Footpaths & Cycleways | Total length of Footpath and Cycleways (see attached tables for listings) | see a | attached repo | ort | - | - |
| | Signal Controlled Intersections | Signal Controlled Intersections (see attached report for locations) | 13 | no. | - | - | - |
| | Rest Areas | Number of rest areas | 7 | no. | - | - | - |
| | Weigh Stations | Number of Weigh Stations (see attached report for locations) | 9 | no. | - | - | - |





DATABASE HEALTH INDEX DASHBOARD - PROJECTS

Area: WELLINGTON Date: 12/12/2013

Major capital projects completed v RAMM (in last 6 -30 months)

| in RAMM (Y/N/P) | Project Name | ѕн | RS | Dir | RP | Comments | Year |
|--------------------|---------------------------------|-----|-----------|-----|-----------|---|-------|
| Y | Muldoons Re-alignment | 2 | 931 | 1 | 0.2-1.4 | | 12/13 |
| N | Memorial Park Underpass Phase 1 | 01N | 1075 | D | 0.9-1.3 | | 12/13 |
| Y | Waterfall Rd Median Barrier | 01N | 1023 | I&D | 5.2-5.4 | Barrier construction date "25/12/2010" | 11/12 |
| | | | | | | 0-215 4 lanes No Pavement structure or surfacing details, | |
| N | Ngauranga 4 Laning | 01N | 1068 | 1 | 0-0.6 | construction dates missing in drainage, markings etc | 11/12 |
| N/A | Terrace Tunnel | 01N | 1068 | | 5.7-6.1 | M&E Not Recorded in RAMM | 11/12 |
| Y | P2P Clearway | 01N | 1035 | | 13.0-15.0 | | 11/12 |
| Р | River Road | 2 | 946 | I&D | 9.3-12.8 | 9220-12865 D Missing surface and pavement structure details Start Name missing in Carriageway table (end name from | 10/11 |
| Y | Horokiwi Median | 2 | 962/12.86 | D | 12.7 | previous section 002-0962-D Missing) | 10/11 |

Minor safety works v RAMM (in last 6 -30 months)

| In RAMM (Y/N/P) | Project Name | ѕн | RS | Dir | RP | Comments | Year |
|--------------------|---|-----|-------------|-----|-------------|---|-------|
| N | Mikimiki Barrier | 002 | 0858 | В | 11424 | | 12/13 |
| Y | Opaki | 002 | 0873 | L | 8255 | "No Engine Braking" | 12/13 |
| N | Renal St RAB Upgrade | 002 | 0883 | В | 1412-1440 | | 12/13 |
| Y | Whakatiki St | 002 | 0946/07.69 | I | 7870 | Speed Limit Sign | 12/13 |
| Y | Rimutaka Barriers installation | 002 | 0921 & 0931 | В | | | 12/13 |
| Y | Petone Bowl Entrance Barrier | 002 | 962 | I | 11753-11877 | | 12/13 |
| Y | АТР | 002 | | | | | 12/13 |
| Y | Transpower Barriers | 058 | 0000 | В | 1016-1300 | Installed Jan 2013 | 12/13 |
| Y | Drop out temp speed limit | 058 | 0000/02.80 | В | 10250-13445 | Speed Limit Signs | 12/13 |
| Y | Barriers | 058 | 0000 | | | | 12/13 |
| Y | Ngaio Rd | 01N | 1012 | В | 4455 | Give Way x2 keep left | 12/13 |
| Y | Beach Rd Paekakariki Int | 01N | 1023/08.22 | В | 10623-10721 | | 12/13 |
| Y | Pukerua Bay 'Toilet Signs' | 01N | 1035 | | | | 12/13 |
| | Misc Sign Upgrades | 01N | | | | To be completed | 12/13 |
| Y | ATP | 01N | | | | | 12/13 |
| Y | Norfolk Rd "Give Way" x2 | 002 | 0883 | R | 6705-6710 | | 11/12 |
| | Whakatiki St dura-post installation | 002 | 0946 | I&D | | Not Recorded in RAMM | 11/12 |
| Y | Sign Upgrades | 058 | 0000 | В | | Various new signs June 2012 | 11/12 |
| Y | SH1 P2P Clearways | 01N | 1035 | | | | 11/12 |
| Y | Newlands Rd Off Ramp Signs and Markings | 01N | 1066 | | R1 & R5 | Signs and edgeline | 11/12 |
| Y | Otaki Puffin Crossing | 01N | 0995 | В | 5425 | | 11/12 |
| Y | SH Off ramp 'wrong way' signage | | | | | 12 signs installed 12 Off Ramps | 11/12 |
| Y | Wairarapa crossing points (Carterton) | 002 | 905 | В | 4045-4225 | New signs installed | 10/11 |
| Y | Cashmere Oaks Streetlighting | 002 | 0873 | R | 8734-8934 | | 10/11 |
| | | | | | 12303-12820 | | |
| Y | Waihakeke/Hughes Line | 002 | 0883 | N | 19442-19634 | Markings No Painted Date | 10/11 |
| Y | Masterton Cycle Marking | 002 | 0883 | L&R | 5435-5709 | | 10/11 |
| Y | Wiltons Rd | 002 | 0883 | | 8398-8733 | Markings No Painted Date | 10/11 |
| Y | Wairarapa crossing points (Greytown) | 002 | 0883/05.78 | В | 15982-16127 | New signs installed | 10/11 |
| Y | Rimutaka Barriers | 002 | 0931 | В | 1107-3338 | | 10/11 |
| Y | Akatarawa Intersection Improvements | 002 | 0946 | В | 2600-3200 | Markings, Catchipit. Channels No constructed date | 10/11 |
| N | Moonshine curve alignment | 002 | 0946 | | | Decreasing side has no surface data | 10/11 |
| Y | Dowse-Petone Speed Limit Change | 002 | 0962 | I&D | 11312-12228 | | 10/11 |
| Y | Horokiwi Road Intersection | 002 | 0962 | Dir | 12580-12845 | No pavement layer details for entire RS I&D | 10/11 |
| Y | Petone VMS | 002 | 0962 | | | HOROKIWI_CYCLE PETONE_CYCLE_SIGN | 10/11 |
| Y | Belmont School Barrier | 002 | 0962-1 | I | 5111-5284 | | 10/11 |
| Y | Petone Off Ramp Cycle signs | 002 | 0974-R1 | L&R | 60 | | 10/11 |
| Y | Grounsell HSRS | 002 | 962 | I | 5750-5830 | HSRS PSKID | 10/11 |
| Y | Petone HSRS | 002 | 962 | I | 11950-12055 | HSRS PSKID | 10/11 |
| | | | | | | Bridge Railing with missing construction date SACWC | |
| Y | Tauherenikau Bridge Barrier & SACWS | 053 | 0000 | В | 4354-4427 | installation dates missing | 10/11 |
| Y | Haywords Hill widening/dish channel | 058 | 0000/02.80 | В | 13310-13482 | | 10/11 |
| Y | Postgate Drive RAB | 058 | 0000/02.80 | В | 13495-13662 | | 10/11 |
| Y | Waikanae Wide centreline trial | 01N | 1012 | В | 3816-4416 | Painted Date Missing | 10/11 |
| Y | Raumati Rd PW Signs | 01N | 1023 | R | 440 | PW Sign x1 Road Narrows | 10/11 |
| Y | Sang Sue Streetlighing | 01N | 1023 | | | Streetlighting ? Has been updated 03/2012 | 10/11 |
| Y | Raumati Rd LTB Remarking | 01N | 1023 | В | | Markings No Painted Date | 10/11 |
| Y | Kaiwharawhara Barrier | 01N | 1068 | I&D | 2005-2236 | | 10/11 |
| Ρ? | Forest Lakes | 01N | 0995 | В | 986-1400? | | 10/11 |
| Y | Takapu Rd Visibility Improvements | 01N | 1050/0630 | I&D | | Markings updated | 10/11 |
| Y | Calabar Road Separation Kerb | 01N | 1076/02.08 | I&D | 3045-3223 | | 10/11 |



DATABASE HEALTH INDEX - REGIONAL AVERAGES

WELLINGTON Area: 12/12/2013

Date:

Regional Averages

| | | | | Hierarchy | | | |
|-------------------------------------|------------------------------------|-------------|--------------------|--------------------|-----------------------|-------------------------|------------------|
| Asset | Region | High Volume | National Strategic | Regional Strategic | Regional Connector | Regional Distributor | Regional Average |
| ASSet | Regional Average for route type | 3 | 1 | 3 | 2 | 3 | |
| | Wellington | 4 | 1 | 5 | - | 5 | - |
| Maintenance Costs | Hawkes Bay | 4 | 2 | 4 | | 4 | - |
| (no. of pavement and | Taranaki M&O | | - | 5 | 6 | 2 | - 2 |
| surfacing faults per km) | Gisborne | - | - | | 5 | 9 | - |
| | Manawatu Whanganui M&O | 0 | - 1 | 1 | <u>5</u> | 2 | - |
| | Regional Average for route type | 3 | 6 | 8 | 7 | 8 | |
| | | 3 | 2 | 8 | | 8 | - |
| Culverte (Dural) | Wellington Hawkes Bay | 4 | 7 | 9 | - | 7 | - |
| Culverts (Rural) (no. per km) | Taranaki M&O | 4 | - | 9 7 | - 8 | 9 | - 7 |
| | Gisborne | - | - | 8 | <u> </u> | 9 | _ |
| | | - | 6 | 8 7 | | 9 7 | _ |
| | Manawatu Whanganui M&O | 4 | | | 5 | | |
| | Regional Average for route type | 13 | 11 | 9 | 13 | 9 | - |
| | Wellington | 14 | 13 | 10 | - | 15 | _ |
| Catchpit (Urban) | Hawkes Bay | 11 | 12 | 11 | - | 9 | - 11 |
| (no. per km) | Taranaki M&O | - | - | 9 | 4 | 13 | - |
| | Gisborne | - | - | 0 | 6 | 5 | _ |
| | Manawatu Whanganui M&O | 0 | 10 | 11 | 16 | 11 | |
| | Regional Average for route type | 4 | 1 | 1 | 2 | 1 | - 1 |
| | Wellington | 5 | 0 | 4 | - | 0 | |
| Manholes (urban) | Hawkes Bay | 1 | 0 | 2 | - | 1 | |
| (no. per km) | Taranaki M&O | - | - | 1 | 2 | 1 | |
| | Gisborne | - | - | 0 | 1 | 0 | |
| | Manawatu Whanganui M&O | 0 | 2 | 1 | 1 | 0 | |
| | Regional Average for route type | 25 | 65 | 150 | 49 | 60 | _ |
| | Wellington | 22 | 6 | 43 | - | 201 | |
| Subsoil Drain (Rural) (m per km) | Hawkes Bay | 107 | 34 | 224 | - | 15 | - 84 |
| | Taranaki M&O | - | - | 138 | 14 | 16 | 04 |
| | Gisborne | - | - | 151 | 93 | 148 | |
| | Manawatu Whanganui M&O | 0 | 82 | 110 | 14 | 72 | |
| | Regional Average for route type | 1529 | 1570 | 1592 | 1223 | 1401 | |
| | Wellington | 1546 | 1561 | 1697 | - | 1215 | |
| Surfaced SWC (Urban) | Hawkes Bay | 1723 | 1447 | 1815 | - | 1623 | 1516 |
| (m per km) | Taranaki M&O | - | - | 1458 | 1755 | 1733 | - 1516 |
| | Gisborne | - | - | 0 | 426 | 784 | _ |
| | Manawatu Whanganui M&O | 0 | 1606 | 1652 | 1377 | 1772 | |
| | Regional Average for route type | 488 | 944 | 933 | 1471 | 1151 | |
| | Wellington | 467 | 75 | 1178 | - | 992 | |
| Earth SWC (Rural) | Hawkes Bay | 313 | 522 | 448 | - | 734 | 400.4 |
| (m per km) | Taranaki M&O | - | - | 1214 | 1606 | 1239 | - 1034 |
| | Gisborne | - | - | 1087 | 1403 | 1328 | |
| | Manawatu Whanganui M&O | 869 | 1171 | 1160 | 941 | 1109 | |
| | Regional Average for route type | 23 | 16 | 16 | 15 | 17 | |
| | Wellington | 23 | 19 | 28 | - | 30 | 1 |
| Signs | Hawkes Bay | 28 | 14 | 16 | - | 14 | 1 |
| (no. per km) | Taranaki M&O | - | - | 10 | 12 | 21 | - 17 |
| x - p | Gisborne | - | - | 19 | 20 | 15 | -1 |
| | Manawatu Whanganui M&O | 27 | 17 | 19 | 14 | 14 | -1 |
| | Regional Average for route type | 13 | 2 | 2 | 1 | 1 | |
| | Wellington | 13 | 8 | 6 | - | 2 | - |
| Straatlighta | Hawkes Bay | 19 | 2 | 0 | | 2 | - |
| Streetlights (no. per km) | Taranaki M&O | | | 1 | - | | 2 |
| | | - | - | • | 0 | 0 | - |
| | Gisborne Manawatu Whanganui M&O | - | - 1 | 0 | 1 | 2 | - |
| | Manawatu Whanganui M&O | 5 | 1 | 1 | 1 | 0 | |



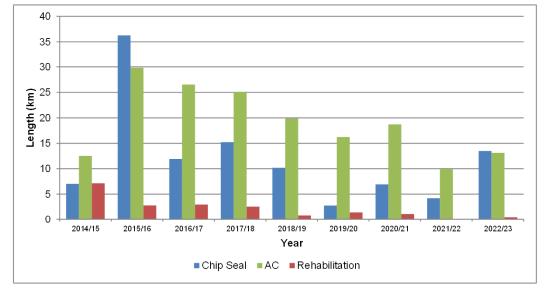


DATABASE HEALTH INDEX DASHBOARD - REPORTS

Area: WELLINGTON

Date: 12/12/2013

Breakdown of 10 Year FWP by Treatment Type

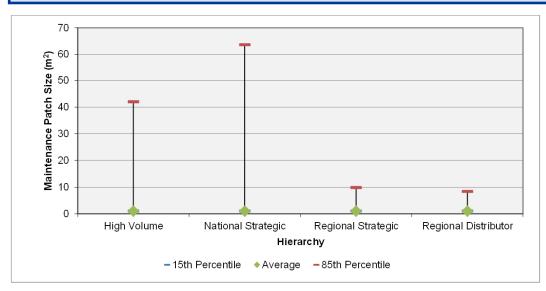


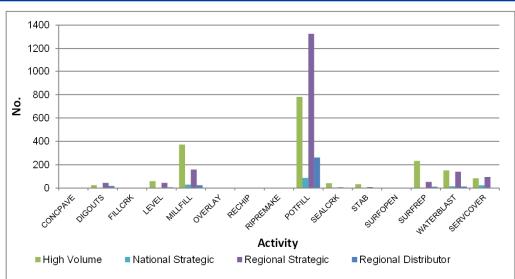
Signalised Intersections in RAMM

| Road Name | No. |
|------------------|-----|
| 01N-1075/00.13-D | 2 |
| 002-0946/13.01-I | 2 |
| 002-0948-R1 | 1 |
| 002-0948-R2 | 1 |
| 01N-1035/13.37 | 2 |
| 01N-1035/08.69-I | 1 |
| 002-0959-R2 | 2 |
| 002-0959-R1 | 1 |
| 01N-1052-R2 | 1 |
| Total | 13 |

Breakdown of Maintenance Cost Activities last 3 years







Large Signs >4.0m²

| Sign Type | | No. |
|---|-------|----------|
| Advance direction (Map) - "T" or cross roads | | 11 |
| Advance direction (Stack) - "T" intersection | | 3 |
| Feature ""m ON left/right | | 1 |
| Feature TURN left/right ""m | | 2 |
| Two services TURN left/right " "m | | 2 |
| Advance Exit | | 20 |
| Advance Exit (Overhead) | | 24 |
| Advance direction (Map) - Roundabout | | 29 |
| Advance direction (Stack) - Cross roads | | 14 |
| Advance direction (Stack) - Skew intersection | | 2 |
| Advanced lane direction [Arrow] | | 17 |
| Advanced lane direction [Message] | | 13 |
| Confirmation Destination | | 27 |
| Exit Direction | | 7 |
| Exit Direction (Overhead) | | 3 |
| Information (Miscellaneous Sign) - User Defined | | 1 |
| Intersection Direction | | 1 |
| Intersection Direction - Urban | | 1 |
| Intersection Direction - with route marker | | 1 |
| Intersection Direction [Arrow] | | 1 |
| ROAD INFORMATION | | 1 |
| Slippery Surface (never erected separately) | | 1 |
| Speed Limit 50km/h | | 1 |
| Threshold Sign - Place Name + Speed Limit | | 50 |
| Warning (Miscellaneous Sign) - User defined | | 2 |
| Warning (Miscellaneous Sign) - User defined | Total | 1 236 |

End Treatments in RAMM

| End Treatment Type | | No. |
|----------------------------------|-------|-----|
| Armorflex X 350 | | 59 |
| Breakaway Cable Terminal Unit | | 72 |
| Bridge Plate/Bridge Connector | | 116 |
| Brifen Terminal | 14 | |
| Buried in Back Slope | 69 | |
| ET2000 | 41 | |
| Fishtail/Butterfly end | 20 | |
| Fleat 350 | | 56 |
| Steel Wire Rope End Anchor Block | 27 | |
| Unknown | | 9 |
| | Total | 483 |





DATABASE HEALTH INDEX DASHBOARD - REPORTS

Area: WELLINGTON

Date: 12/12/2013

Breakdown of road markings by type

Weigh Stations

Please note that NZTA does not require recording of standard centerline and edgeline lengths and therefore these quantities may not include some or all of these items

| Marking Material | length (m) |
|---------------------------------------|------------|
| Cold Applied Plastic | 301330 |
| Epoxy resin (for coloured surfacings) | 1867 |
| Paint | 120798 |
| Raised Pavement Marker | 439646 |
| Reflectorised Paint | 629398 |
| Thermoplastic - cold | 73634 |
| Thermoplastic - hot | 587 |
| Thermoplastic Audible | 18875 |
| Unknown | 314 |

| Road Name | | Location | Side |
|------------------|-------|----------|-------|
| 002-0858 | | 6660 | Right |
| 002-0883/05.78 | | 6960 | Right |
| 002-0946/07.69-1 | | 8153 | Left |
| 002-0946/07.69-1 | | 8217 | Left |
| 002-0962-D | | 650 | Right |
| 002-0962-I | | 3413 | Left |
| 002-0962/12.86-D | | 14742 | Right |
| 01N-1035/08.69-D | | 12180 | Right |
| 01N-1035/08.69-I | | 12098 | Left |
| | Total | 9 | |

| ootpath and | CycleWays |
|-------------|-----------|
|-------------|-----------|

None

IF

| Road Name | Location |
|------------------|----------|
| 002-0946/13.02-D | 13462 |
| 002-0946/13.02-D | 14252 |
| 002-0962-D | 10017 |
| 002-0962-I | 9587 |
| 002-0962-I | 11735 |
| 002-0962-I | 11928 |
| 002-0962/12.85-I | 14791 |
| 002-0962/12.85-I | 16582 |
| 002-0972-R1 | 195 |
| 01N-1035/08.69-D | 12957 |
| 01N-1035/13.37 | 13429 |
| 01N-1035/13.37 | 14056 |
| 01N-1035/13.37 | 14361 |
| 01N-1035/13.37 | 14632 |
| 01N-1035/13.37 | 14837 |
| 01N-1035/15.12-I | 15116 |
| 01N-1035/15.12-I | 15580 |
| 01N-1050-D | 2494 |
| 01N-1050-I | 2528 |
| 01N-1050-I | 3180 |
| 01N-1050/06.30-I | 9006 |
| 01N-1060-D | 5979 |
| 01N-1060-D | 6517 |
| 01N-1060-I | 4065 |
| 01N-1060-I | 4315 |
| 01N-1060-I | 5005 |
| 01N-1060-I | 5500 |
| 01N-1060-I | 6250 |
| 01N-1060-I | 6951 |
| 01N-1060-I | 7315 |
| 01N-1068-D | 15 |
| 01N-1068-D | 201 |
| 01N-1068-D | 2140 |
| 01N-1068-D | 3656 |
| 01N-1068-D | 5544 |
| 01N-1068-I | 803 |
| 01N-1068-I | 1547 |
| 01N-1068-I | 2154 |
| 01N 1068 1 | 2506 |

| 01N-1068-I | | 2506 |
|------------|-------|------|
| 01N-1068-I | | 2901 |
| 01N-1068-I | | 3393 |
| 01N-1068-I | | 3651 |
| 01N-1068-I | 3766 | |
| 01N-1068-I | | 4700 |
| | Total | 44 |





DATABASE HEALTH INDEX - PARAMETERS

| | Measures | Description | Data Source | Grading | Greater than | Less than | NZTA Target Grade |
|-----------------------|--|--|--|--------------------|--------------|------------|----------------------|
| Pavement Inventor | ry | | | | | | |
| Capital Projects | Major capital projects completed v RAMM (in last 6 -30 months) | Proportion of major capital projects completed within in 6 - 30 months that have been catpured in RAMM | NZTA Regional Office, RAMM | N/A | N/A | N/A | N/A |
| | Minor capital or safety improvement projects v RAMM (in last 6 -30 months) | Proportion of minor capital or safety improvement projects completed within in 6 - 30 months that have been catpured in RAMM | NZTA Regional Office, RAMM | N/A | N/A | N/A | N/A |
| | | Total length of Network with surface date | | Grade 1 | 8% | 00/ | |
| | % of Network surfaced in RAMM over previous 4 – 15 months | between 4-15 months old / total length of | RAMM surface_structure, carr_way, treatment length | Grade 2 Grade 3 | 5% 2% | 8% 5% | Grade 1 |
| | · | network | _ 3 | Grade 4 | | 2% | |
| | % Surfaces 50% older than | Total length of Network with surface date > | | Grade 1 Grade 2 | 3% | 3% 7% | |
| | expected age | 50% older than expected age / total length of network | RAMM surface_structure, carr_way | Grade 3 | 7% | 15% | Grade 2 |
| Surfacing | | | | Grade 4 Grade 1 | 15% | 5% | |
| | % of Network with no surfacing | Total length of Network with no surface | RAMM treatment_length, carr_way | Grade 2 | 5% | 15% | Grade 1 |
| | , , , , , , , , , , , , , , , , , , , | material / total length of network | | Grade 3 Grade 4 | 15% 40% | 40% | |
| | Illogical records (SAC with chipseal, | | | Grade 1 | | 5% | |
| | Low and high widths, Alignment of | No. Records with inconsistencies / No carriageway sections | RAMM carr_way, c_surface, traffic loading, traffic loading dtl | Grade 2 Grade 3 | 5% 15% | 15% 40% | Grade 1 |
| | traffic volumes v pavement use) | | | Grade 4 | 40% | | |
| | | | | Grade 1 Grade 2 | 90% 70% | 90% | |
| | Proportion with layer information | Total length of Network with layer material / total length of network | RAMM treatment_length, carr_way | Grade 3 | 40% | 70% | Grade 3 |
| | | | | Grade 4 | 20% | 40% | |
| | | | | Grade 5 Grade 1 | 5% | 20% | |
| Pavement Layer | New Layer length in 6 – 30 months | Total length of Network with layer date between 6-30 months old / total length of | RAMM pave_structure, carr_way, | Grade 2 | 3% | 5% | Grade 2 |
| | | network | treatment_length | Grade 3 Grade 4 | 1% | 3% 1% | |
| | Illogical records (Pavement layers v | Total No. illogical Records / total No | | Grade 1 Grade 2 | 5% | 5% 15% | |
| | Incorrect Surfacing) | treatment lengths | RAMM carr_way, treatment_length | Grade 2 Grade 3 | 5% 15% | 40% | Grade 1 |
| | | | | Grade 4 | 40% | | |
| Road Marking | Breakdown of road markings by type | Total road marking length by type | RAMM carr_way, markings | N/A | N/A | N/A | N/A |
| | | Total length of Network with length < 20m / | | Grade 1 Grade 2 | 5% | 5% 15% | |
| | Proportion of very short < 20m TLs | total length of network | RAMM carr_way, treatment_length | Grade 3 | 15% | 40% | Grade 1 |
| | | | | Grade 4 Grade 1 | 40% | 5% | |
| | Proportion of very long > 2000m $\overline{}$ | Total length of Network with length > 2000m / | RAMM carr_way, treatment_length | Grade 2 | 5% | 15% | Grade 1 |
| | TLs | total length of network | | Grade 3 Grade 4 | 15% 40% | 40% | |
| Treatment Length | Proportion of TLs with < 80% coverage of major surfacing | Total length of Network with < 80% coverage of major surfacings / total length of network | RAMM carr_way, treatment_length | Grade 1 | 50/ | 5% 15% | |
| | | | | Grade 2 Grade 3 | 5% 15% | 40% | Grade 1 |
| | | | | Grade 4 Grade 1 | 40% 90% | | - |
| | % updated in last 5 years | Total No treatment lengths updated in last 5 years / total No TL's | RAMM carr_way, treatment_length | Grade 2 | 70% | 90% | |
| | | | | Grade 3 Grade 4 | 40% 20% | 70% 40% | Grade 2 |
| | | | | Grade 5 | | 20% | |
| | Date FWP Last Updated | Date FWP last updated | RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment | N/A | N/A | N/A | N/A |
| | Proportion of network identified for | | RAMM treatment_length, | Grade 1 Grade 2 | 90% 70% | 90% | |
| | treatment in next ten years (date last | Length of network identified for treatment in the 10 year FWP / total network length | fw_cell_treatment, fw_programme_cell, | Grade 3 | 40% | 70% | Grade 2 |
| Forward Works | updated) | , | fw_programme_hdr, fw_treatment | Grade 4 Grade 5 | 20% | 40% 20% | |
| Programme | FWP v surfacings (% surfacings in | Total length of Network with surfacings with | RAMM treatment_length, | Grade 1 | 20/ | 2% | |
| | last year conflicting with first 2 years of FWP exc 2nd coats) | dates in last year with a treatment scheduled in first 2 years of FWP (excl 2nd coats) / total | fw_cell_treatment, fw_programme_cell, | Grade 2 Grade 3 | 2% 5% | 5% 6% | Grade 1 |
| | OFF WE GAU ZHU CUALS) | length in first 2 years of FWP | fw_programme_hdr, fw_treatment | Grade 4 Grade 1 | 8% 90% | | |
| | Evidence of active MIS strategy, | Total length of Network with MIS strategy | RAMM treatment_length, fw_cell_treatment, | Grade 2 | 70% | 90% | |
| | reasons for treatments listed and detailed | present / Total Network Length | fw_programme_cell, | Grade 3 Grade 4 | 40% 20% | 70% 40% | Grade 1 |
| Collocted Data | | | fw_programme_hdr, fw_treatment | Grade 5 | | 20% | |
| Collected Data | | | | Grade 1 | 90% | | |
| Carriageway Rating | Percentage rated in last year | Total network length rated in the last year / | RAMM carr_way, treatment_length, | Grade 2 Grade 3 | 70% 40% | 90% 70% | Grade 1 |
| | | total network length | rating | Grade 4 | 20% | 40% | |
| | | | | Grade 5 Grade 1 | 90% | 20% | |
| | % network meeting standards for roughness, rutting and texture | Total length of network with roughness, rutting and texture surveyed in the last year / | RAMM carr_way, treatment_length, | Grade 2 Grade 3 | 70% 40% | 90% 70% | Grade 1 |
| | (Roads surveyed in last year) | total network length | hsd_rough, hsd_rutting,hsd_texture | Grade 4 | 40% 20% | 40% | Grade T |
| | | | | Grade 5 Grade 1 | 90% | 20% | |
| | % network meeting standards for | Total length of network with FWD surveyed in | RAMM carr way, | Grade 2 | 70% | 90% | |
| High Speed Data | FWD (Roads surveyed in last 5 years) | the last 5 years / total network length | treatment_length,falling_weight | Grade 3 Grade 4 | 40% 20% | 70% 40% | Grade 1 |
| | | | | Grade 5 | | 20% | |
| | % network meeting standards for | Total length of notwork with SODIM autored | DAMM corr wow | Grade 1 Grade 2 | 90% 70% | 90% | |
| | SCRIM (Roads surveyed in last | Total length of network with SCRIM surveyed | | Grade 3 | 40% | 70% | Grade 1 |
| | year) | in the last year / total network length | treatment_length,skid_resistance | Grade 4 | 20% | 40% | |





DATABASE HEALTH INDEX - PARAMETERS

| | Measures | Description | Data Source | Grading | Greater than | Less than | NZTA Target Grade |
|---------------------------|--|--|---|---|--------------------------|--------------------------|----------------------|
| | | | | Grade 1 | 90% | 0001 | |
| | Items per km for PA and SU cost groups in previous 4 – 15 months vs Regional Average | Total number of pavement and surfacing activity in last 4-15 months/Total Carriageway Length vs Regional Average | RAMM carr_way, mc_cost | Grade 2 Grade 3 Grade 4 Grade 5 | 70% 40% 20% | 90% 70% 40% 20% | Grade 2 |
| | Spread of location in providuo 4 15 | Total number of never and ourfacing | | Grade 1 | | 5% | |
| | Spread of location in previous 4 - 15 months (proportion located at carriageway start) | Total number of pavement and surfacing activity in last 4-15 months at carriageway start / Total pavement and surfacing activity | RAMM carr_way, mc_cost | Grade 2 Grade 3 Grade 4 | 5% 15% 40% | 15% 40% | Grade 2 |
| Maintenance Costs | Distribution of maintenance patch sizes by Hierarchy | Distribution of maintenance patch sizes by State Highway Classification | RAMM carr_way, mc_cost | N/A | N/A | N/A | N/A |
| | Breakdown of Maintenance Cost Activities | Breakdown of maintenance cost actvities by type for the last 3 years by State Highway Classification | RAMM carr_way, mc_cost | N/A | N/A | N/A | N/A |
| | % of Maintenance Activity where fault type is "Unknown" | Percentage of maintenance cost activity recorded as unknown for the last 3 years. | RAMM carr_way, mc_cost | Grade 1 Grade 2 Grade 3 Grade 4 | 5% 15% 40% | 5% 15% 40% | Grade 1 |
| | No. Test Pits with layer data recorded | Total number of test pit records | RAMM carr_way, pave_test_pit_hdr | N/A | N/A | N/A | N/A |
| Miscellaneous | No. of LTPP Sites recorded in RAMM | Total number of LTPP Sites | RAMM carr_way, ud_ltpp | N/A | N/A | N/A | N/A |
| | Latest ADT Counts | Latest date of counts | RAMM traffic_loading | N/A | N/A | N/A | N/A |
| Traffic Count | Latest ADT Estimates | Latest date of Estimates | RAMM traffic_loading | N/A | N/A | N/A | N/A |
| | % loading estimate (i.e. not default) | Total no. loading estimates in last year / total no carriageway sections | RAMM carriageway, traffic_loading, carr_way, traffic_loading_dtl | Grade 1 Grade 2 Grade 3 Grade 4 | 90% 70% 40% 20% | 90% 70% 40% | Grade 2 |
| Non-Carriageway | Asset Inventory | | | Grade 5 | | 20% | |
| NON-Carriageway | No. Pavement Type "Bridge" v No. Bridges > 50m in length in BDS | Total No. Bridge pavement type in RAMM vs Total No. Bridges >50m in length in BDS that carry the State Highway | RAMM carr_way, BDS | Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 | 90% 70% 40% 20% | 90% 70% 40% 20% | Grade 1 |
| | No. Large Culverts v No. BDS | Total No. Culverts with an area >= 3.4m ² vs Total No. culverts in BDS | RAMM carr_way, drainage, BDS | Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 | 90% 70% 40% 20% | 90% 70% 40% 20% | Grade 2 |
| Structures | Retaining Walls | Total No. Retaining Walls | RAMM carr_way, retaining_wall | N/A | N/A | N/A | N/A |
| | Gantries | Total No. Gantries | RAMM carr_way, minor_structure | N/A | N/A | N/A | N/A |
| | Barriers in RAMM(m) | Total Length Barriers (excludes SR, HR, OTHER, GREAT) | RAMM carr_way, railings | N/A | N/A | N/A | N/A |
| | Culverts per km v Regional Average (Rural) | Total No. of culverts per km Rural (Includes CUL, SDCUL, OFCUL) vs regional average per km | RAMM carr_way, drainage | Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 | 90% 70% 40% 20% | 90% 70% 40% 20% | Grade 2 |
| | Catchpits per km v Regional Average (Urban) | Total No. of catchpits per kmUrban (includes CP1,CP2,CP3,SUMP,GRID, SP) vs regional average per km | RAMM carr_way, drainage | Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 | 90% 70% 40% 20% | 90% 70% 40% 20% | Grade 2 |
| Drainage | Manholes per km v Regional Average (Urban) | Total No. of manholes per km Urban (includes MHOLE, DCHM) vs regional average per km | RAMM carr_way, drainage | Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 | 90% 70% 40% 20% | 90% 70% 40% 20% | Grade 2 |
| | Subsoil Drains per km v benchmark Regional Average (Rural) | Length of subsoil drains per km Rural vs regional average per km | RAMM carr_way, drainage | Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 | 90% 70% 40% 20% | 90% 70% 40% 20% | Grade 2 |
| | % of Drainage (Construction Date in previous 4 – 15 months) | Total No. of drainage structures renewed or replaced in last 4-15 months / total no. of drainage structures | RAMM carr_way, drainage | Grade 1 Grade 2 Grade 3 Grade 4 | 4% 2% 1% | 4% 2% 1% | Grade 2 |
| Surface Water Channels | Surfaced SWC per km v Regional Average (Urban) | Length of surfaced SWC per km Urban vs regional average per km | RAMM carr_way, sw_channel | Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 | 90% 70% 40% 20% | 90% 70% 40% 20% | Grade 2 |
| | Earth SWC per km v Regional Average (Rural) | Length of Earth SWC per kmRural vs regional average per km | RAMM carr_way, sw_channel | Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 | 90% 70% 40% 20% | 90% 70% 40% 20% | Grade 2 |
| | Sealed SWC Renewal Activity (Construction Date in previous 4 – | Length of surfaced SWC renewed or replaced in last 4-15 months / total length of surfaced | RAMM carr_way, sw_channel | Grade 1 Grade 2 Grade 3 | 4% 2% 1% | 4% 2% | Grade 2 |





DATABASE HEALTH INDEX - PARAMETERS

| | Measures | Description | Data Source | Grading | Greater than | Less than | NZTA Targ Grade |
|---------------------------------|--|--|---|---|--------------------------|--------------------------|--------------------|
| | Signs per km v Regional Average | Total No. of signs per km vs regional average per km | RAMM carr_way, signs | Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 | 90% 70% 40% 20% | 90% 70% 40% 20% | Grade 2 |
| | Large Signs >4.0m ² | Total No. of large signs with a sign face greater than 4.0m ² | RAMM carr_way, signs | N/A | N/A | N/A | N/A |
| Signs | ITS VMS | Total No. of ITS Assets (3VMS, 3MVMS, 3VMSS, 3VSS) and its_state = "In Service" | RAMM carr_way, ud_its | N/A | N/A | N/A | N/A |
| | % of Signs with renewal date in previous 4 – 15 months | Total No. of signs renewed or replaced in last 4-15 months / total number of signs | RAMM carr_way, signs | Grade 1 Grade 2 Grade 3 Grade 4 | 6% 4% 2% | 6% 4% 2% | Grade 2 |
| | No. Frangible bases in RAMM | Total No of signs with frangible bases, type includes (SJ and BP) | RAMM signs, sign_to_post_join, sign_post | N/A | N/A | N/A | N/A |
| Streetlights | Streetlights per km v benchmark | Total No. of street lights per km vs regional average per km | RAMM carr_way, sl_pole | Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 | 90% 70% 40% 20% | 90% 70% 40% 20% | Grade 2 |
| | Frangible Base type no. | Total No. of street lights with frangible bases | RAMM carr_way, sl_pole | N/A | N/A | N/A | N/A |
| | Shear Base type no. | Total No. of street lights with shear bases | RAMM carr_way, sl_pole | N/A | N/A | N/A | N/A |
| | % of Street lights with renewal date in previous 4 – 15 months | Total No. of street lights renewed or replaced in last 4-15 months / total number of street lights | RAMM carr_way, sl_pole | Grade 1 Grade 2 Grade 3 Grade 4 | 6% 4% 2% | 6% 4% 2% | Grade 2 |
| | Duplicates or near duplicates plus poles with no light or bracket | Total No. Poles with no brackets attached, total No. brackets with no light attached, total No. poles with duplicate road_id, location, offset_side, offset | RAMM carr_way, sl_pole, sl_bracket, sl_light | Grade 1 Grade 2 Grade 3 Grade 4 | 5% 15% 40% | 5% 15% 40% | Grade 1 |
| Footpath & Cycleways | Total Length of footpath and cycleways (see attached tables for listing) | Total length of footpath and cycleways | RAMM carr_way, features | N/A | N/A | N/A | N/A |
| Signal Controlled intersections | No. Signal Controlled Intersections (see attached report for loactions) | Number of signal Controlled Intersections (SIGINT) | RAMM carr_way, features | N/A | N/A | N/A | N/A |
| Rest Areas | Number of rest areas | Total No of rest areas | RAMM carr_way, features | N/A | N/A | N/A | N/A |
| Weigh Station | No. Weigh stations | Number of weighs Stations (WSTAT) | RAMM carr_way, minor_structure | N/A | N/A | N/A | N/A |



