

DATABASE HEALTH INDEX - DASHBOARD

Area: NELSON
Date: 4/12/2013

KEY: On or exceeding target
One grade, or between 0 and 15 below captured value
Greater than one grade, or 15 below captured value

		Performance						
Category	Measures	Result	Measure	Expected Value	Category	Expected Value		
Carriageway Asset Inventory	Capital Projects	Major capital projects completed v RAMM (in last 6 -30 months)			see attached report		-	-
		Minor capital or safety improvement projects v RAMM (in last 6 -30 months)			see attached report		-	-
	Surfacing	% of Network surfaced in RAMM over previous 4 – 15 months		9.7%	Grade 1	Grade 1	86	81
		% Surfaces at least 50% older than expected age		10.9%	Grade 3	Grade 2		
		% of Network with no surfacing		0.0%	Grade 1	Grade 1		
		Illogical Records inc. % (SAC with chipseal, Low and high widths, Alignment of traffic volumes v pavement use)		1.0%	Grade 1	Grade 1		
	Pavement Layer	Proportion of Network with layer Information		100.0%	Grade 1	Grade 3	68	77
		New layer length in previous 6 – 30 months		0.2%	Grade 4	Grade 2		
		Illogical records (Pavement Layers v Incorrect Surfacing)		0.8%	Grade 1	Grade 1		
	Road Marking	Breakdown of road markings by type		see attached report			-	-
Treatment Length	Proportion of very short (< 20m) TLs		0.4%	Grade 1	Grade 1	95	85	
	Proportion of very long (> 2000m) TLs		0.6%	Grade 1	Grade 1			
	Proportion of TLs with < 80% coverage of major surfacing		9.8%	Grade 2	Grade 1			
	% updated in last 5 years		100.0%	Grade 1	Grade 2			
Forward Works Programme	Date FWP last updated		21/11/2013	-	-	97	90	
	Proportion of network identified for treatment in next ten years (from FWP)		91.5%	Grade 1	Grade 2			
	FWP v surfacings (% surfacings in last year conflicting with first 2 years of FWP excluding 2nd coats)		0.0%	Grade 1	Grade 1			
	Evidence of active MIS strategy, reasons for treatments listed and detailed		100.0%	Grade 1	Grade 1			
Carriageway Rating	Percentage rated in last year		98.4%	Grade 1	Grade 1	98	90	
High Speed Data	% network meeting standards for roughness, rutting and texture (Roads surveyed in last year)		100.0%	Grade 1	Grade 1	83	90	
	% network meeting standards for FWD (Roads surveyed in last 5years)		49.8%	Grade 3	Grade 1			
	% network meeting standards for SCRIM (Roads surveyed in last year)		100.0%	Grade 1	Grade 1			
Maintenance Activity	Items per km for PA and SU cost groups in previous 4 – 15 months v Regional Average		200.0%	Grade 1	Grade 2	95	83	
	Spread of location in previous 4 - 15 months (proportion located at carriageway start)		4.8%	Grade 1	Grade 2			
	Distribution of maintenance patch sizes by Hierarchy		see attached report					
	Breakdown of Maintenance Cost Activities		see attached report					
	% of Maintenance Activity where fault type is "Unknown"		2.2%	Grade 1	Grade 1			
Miscellaneous	No. of test pits with layer data recorded		96	no.	-	-	-	
	No. of LTPP sites recorded in RAMM		3	no.	-	-	-	
Traffic Count	Latest ADT Counts		31/12/2012	-	-	100	70	
	Latest ADT Estimates		2/12/2013	-	-			
	% loading estimate (i.e. not default)		99.6%	Grade 1	Grade 2			
Structures	No. of Pavement Type "Bridge" v No. of Bridges > 50m in length in BDS		90.0%	Grade 1	Grade 1	45	85	
	No. Large Culverts v No. BDS		0.0%	Grade 5	Grade 2			
	Retaining Walls		125	no.	-			
	Gantries (see attached report for locations)		4	no.	-			
	Barriers in RAMM (m)		55607	m	-			
	End Treatments in RAMM		see attached report					
Drainage	Culverts per km v Regional Average (Rural)		128.6%	Grade 1	Grade 2	84	80	
	Catchpits per km v Regional Average (Urban)		142.9%	Grade 1	Grade 2			
	Manholes per km v Regional Average (Urban)		100.0%	Grade 1	Grade 2			
	Subsoil Drains per km v Regional Average (Rural)		265.8%	Grade 1	Grade 2			
	% of Drainage (Construction Date in previous 4 – 15 months)		0.5%	Grade 4	Grade 2			
Surface Water Channels	Surfaced SWC per km v Regional Average (Urban)		110.8%	Grade 1	Grade 2	62	77	
	Earth SWC per km v Regional Average (Rural)		85.2%	Grade 2	Grade 2			
	Sealed SWC renewal activity (Construction Date in previous 4 – 27 months)		0.0%	Grade 4	Grade 2			
Signs	Signs per km v Regional Average		110.5%	Grade 1	Grade 2	53	78	
	Large Signs >4.0m ² (see attached report for quantity by type)		93	no.	-			
	ITS VMS		4	no.	-			
	% of Signs with renewal date in last 4 - 15 months		0.4%	Grade 4	Grade 2			
	No. Frangible bases in RAMM (no posts in RAMM)		0	no.	-			
Streetlights	Streetlights per km v Regional Average		200.0%	Grade 1	Grade 2	67	82	
	Frangible Base type no.		0	no.	-			
	Shear Base type no.		188	no.	-			
	% 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 attached report			-	-	
Signal Controlled Intersections	Signal Controlled Intersections (see attached report for locations)		2	no.	-	-	-	
Rest Areas	Number of rest areas		16	no.	-	-	-	
Weigh Stations	Number of Weigh Stations (see attached report for locations)		7	no.	-	-	-	

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Date: **4/12/2013**

In RAMM (Y/N/P)	Project Name	SH	RS	Dir	RP		Comments	Year
Y	Collins Valley No 10 616T	6	73	Both	2140	2299		30/01/2011
Y	Collins Valley No 10 616T	6	73	Both	2160	2000	Fence	30/01/2011
Y	Emergency Works - Whangamoa Under-slip 619T	6	80	Both	13417	13493	Data already in RAMM	30/08/2011
Y	Whangamoa Rest Area AWPT 616T	6	80	Both	17260	17800	Please check OGEM Reseal 18/3/2011 and 1st coat BBM 21/3/2011	30/04/2011
N	Emergency Works - SH6 - Rocks Road	6	116	Both	2210	2500		30/06/2013
N	Rocks Road Cliff Stabilisation 627T	6	116	Both	2210	2500		30/06/2013
P	SH6- Three Brother Corner 610T	6	116	Both	14360	14557	Data already in RAMM	30/06/2011
							0-20 Stab agent needs to be added to pavement layer. Historical surfacings need removed date. Channels no construction date, street lights have no installed dates.	
Y	SH6- Three Brother Corner 610T	6	131	Both	0	265	Data already in RAMM	30/06/2011
Y	Emergency Works - Hope Saddle Under-slip 619T	6	184	Both	10880	10983	Data already in RAMM	30/08/2011
Y	Kawatiri Under-slip 620T	6	209	Both	4536	4550	Data already in RAMM	30/06/2011
N	Claybank Guardrail 614T	6	225	Both	4850	5350	Drainage no construction date	30/06/2012
Y	SH6- Three Brother Corner 610T	60	0	Both	0	60	Data already in RAMM	30/06/2011
Y	Johnstone Loop Intersection 451T	60	15	Both	8450	9010		30/12/2010
N	Moana Road Intersection 451T	60	15	Both	11800	20000	12.0	28/02/2011
N	Eden Road Intersection 451T	60	15	Both	11800	20000	10.7	28/02/2011
N	Birds Hill Under-slip	60	89	Both	7555	7900	This data not yet in RAMM, as the project is not yet finished	TBA
Y	Ruby Bay Bypass 26PT/451T	60	0/15	Both	13000	RS15/8640	Data already in RAMM	30/06/2011
N	Emergency Works - SH65 - Maruia Erosion	65	0	Both	8850	9060	Data not yet provided by Aurecon	30/06/2013
N	Emergency Works - SH65 Blacksmith Under-slip 620T	65	17	Both	11425	11464	Data already in RAMM	30/06/2011
N	Emergency Works - SH65 - Shenandoah	65	17	Both	12700			30/06/2013
N	Nelson Tasman Safety Improvements 2012/13 631T	6,60,63	Various	Both			This data not yet in RAMM, as we have not received from the Contractor	30/06/2012

DATABASE HEALTH INDEX - REGIONAL AVERAGES

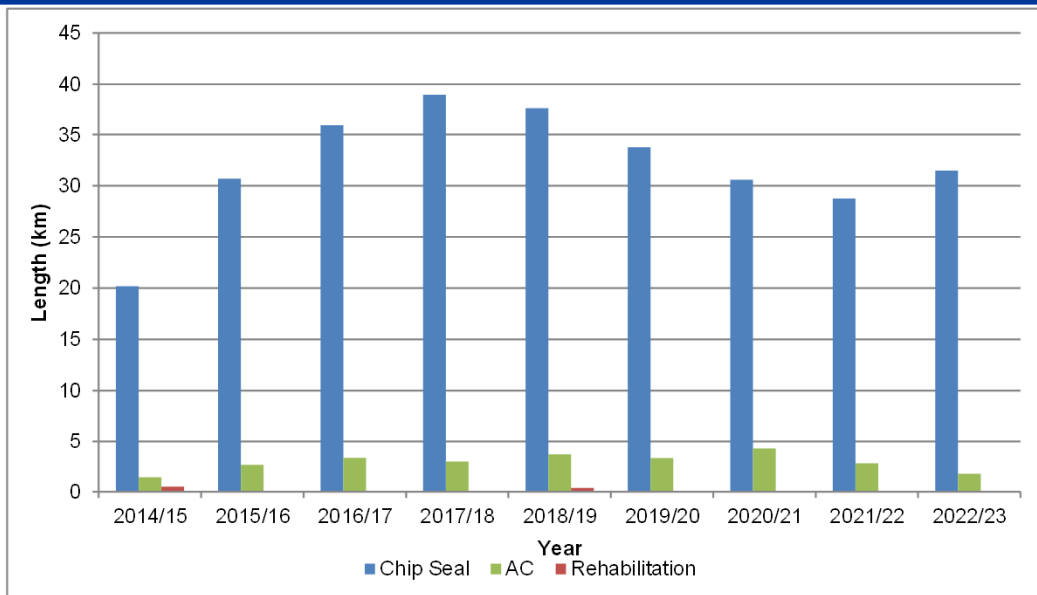
Area: NELSON
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Regional Averages							
Asset	Region	Hierarchy					Regional Average
		High Volume	National Strategic	Regional Strategic	Regional Connector	Regional Distributor	
Maintenance Costs (no. of pavement and surfacing faults per km)	Regional Average for route type	-	2	3	2	2	2
	Sth Canterbury	-	2	-	1	1	
	Nth Canterbury	-	3	2	2	2	
	Nelson	-	-	6	5	3	
	Marlborough	-	3	1	-	2	
Culverts (Rural) (no. per km)	Regional Average for route type	-	4	5	5	4	4
	Sth Canterbury	-	4	-	4	4	
	Nth Canterbury	-	4	3	5	4	
	Nelson	-	-	8	5	5	
	Marlborough	-	4	4	-	3	
Catchpit (Urban) (no. per km)	Regional Average for route type	-	9	8	12	8	9
	Sth Canterbury	-	10	-	8	9	
	Nth Canterbury	-	6	4	4	4	
	Nelson	-	-	14	15	11	
	Marlborough	-	6	4	-	0	
Manholes (urban) (no. per km)	Regional Average for route type	-	0	0	0	0	0
	Sth Canterbury	-	0	-	0	0	
	Nth Canterbury	-	0	0	0	0	
	Nelson	-	-	0	0	0	
	Marlborough	-	0	0	-	0	
Subsoil Drain (Rural) (m per km)	Regional Average for route type	-	45	67	37	10	34
	Sth Canterbury	-	37	-	7	2	
	Nth Canterbury	-	40	0	0	21	
	Nelson	-	-	201	92	10	
	Marlborough	-	103	29	-	3	
Surfaced SWC (Urban) (m per km)	Regional Average for route type	-	1254	1062	1475	1138	1270
	Sth Canterbury	-	1603	-	1469	1562	
	Nth Canterbury	-	1277	527	705	488	
	Nelson	-	-	1366	1465	1240	
	Marlborough	-	1164	1463	-	0	
Earth SWC (Rural) (m per km)	Regional Average for route type	-	1045	882	753	1088	952
	Sth Canterbury	-	1642	-	644	1470	
	Nth Canterbury	-	805	1142	959	1002	
	Nelson	-	-	528	788	1004	
	Marlborough	-	747	783	-	636	
Signs (no. per km)	Regional Average for route type	-	14	15	12	11	13
	Sth Canterbury	-	15	-	8	10	
	Nth Canterbury	-	10	13	16	14	
	Nelson	-	-	19	13	10	
	Marlborough	-	15	13	-	7	
Streetlights (no. per km)	Regional Average for route type	-	1	1	1	1	1
	Sth Canterbury	-	4	-	1	1	
	Nth Canterbury	-	0	0	0	0	
	Nelson	-	-	4	1	1	
	Marlborough	-	0	0	-	0	

DATABASE HEALTH INDEX DASHBOARD - REPORTS

Area: NELSON
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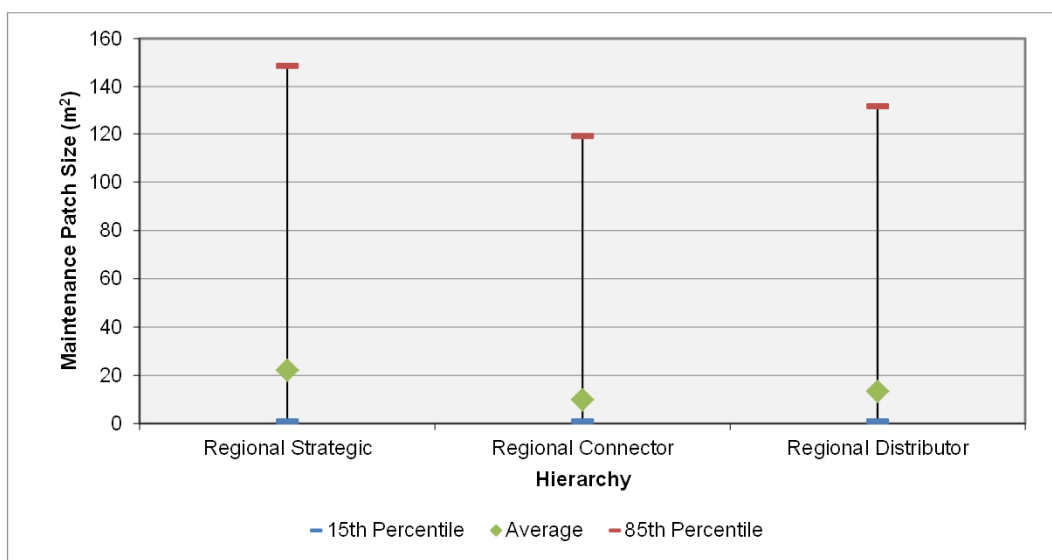
Breakdown of 10 Year FWP by Treatment Type



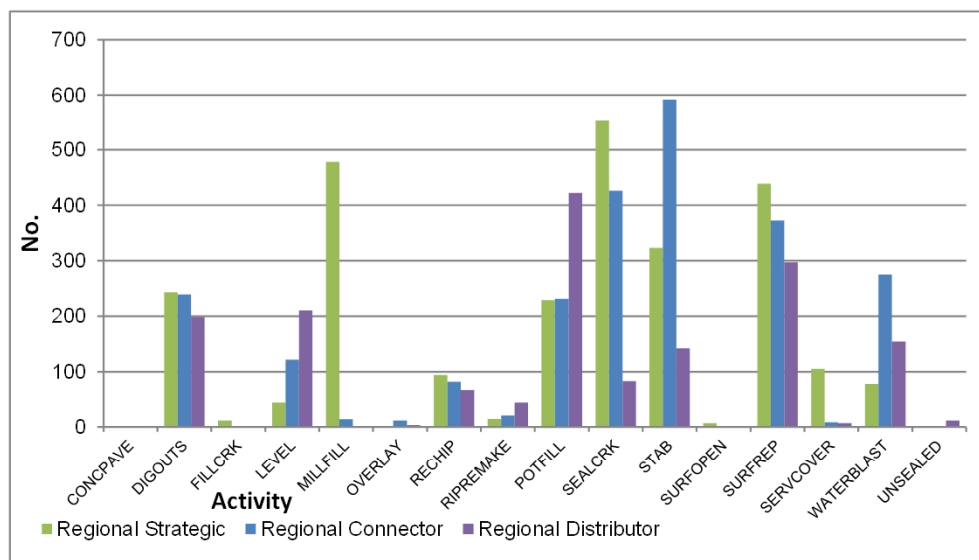
Signalised Intersections in RAMM

Road Name	Location
006-0116/00.74	2
Total	2

Distribution of maintenance patch sizes by Hierarchy



Breakdown of Maintenance Cost Activities last 3 years



Large Signs >4.0m²

Sign Type	No.
Advance direction (Map) - "T" or cross roads	8
Advance direction (Stack) - "T" intersection	4
Winding Road NEXT " " km	3
Advance Direction - Street name sign	1
Advance direction (Map) - Roundabout	23
Advance direction (Stack) - Cross roads	2
Advance direction (Stack) - Skew intersection	4
Advanced lane direction [Message]	2
Chevron Board	1
Chevron Board - T Intersections	4
Confirmation Destination	5
Intersection Direction	1
Position sign - Two line description with chevron	1
ROAD INFORMATION	2
Reverse Curves (less than 1km in extent)	1
STOP	1
Speed Limit 50km/h	2
Threshold Sign - Place Name + Speed Limit	26
Welcome To	2
Total	93

End Treatments in RAMM

End Treatment Type	No.
Armorflex X 350	94
Armorwire Terminal End	18
Breakaway Cable Terminal (Bull Nose)	220
Bridge Plate/Bridge Connector	42
Buried in Back Slope	13
Brakemaster/FastBrake	1
Cable end	42
ET2000	102
Fleat 350	56
M23 Compliant	29
MELT(Similar to BCT)	55
Not Applicable	33
Regent	4
Terminal end	21
Texas Twist	3
Trailing End Anchor Units	2
Unknown	9
Total	744

Breakdown of road markings by type

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)
Long Life Flat	203
Paint	104665
Reflectorised Paint	10875
Unknown	90028

Weigh Stations

Road Name	Location	Side
006-0099	527	Right
006-0131	12917	Right
006-0150	18495	Left
006-0239	2438	Right
060-0000	4628	Right
060-0033	5190	Right
060-0033	5180	Right
Total	7	

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Footpath and CycleWays

Road Name	Start	End
060-0033	2750	3530

Gantries

Road Name	Location
006-0239	5864
006-0239	6741
006-0255	5400
006-0255	6738
Total	4

DATABASE HEALTH INDEX - PARAMETERS

Measures		Description	Data Source	Grading	Greater than	Less than	NZTA Target Grade
Pavement and Footpath Inventory							
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 captured 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 captured in RAMM	NZTA Regional Office, RAMM	N/A	N/A	N/A	N/A
Surfacing	% of Network surfaced in RAMM over previous 4 – 15 months	Total length of Network with surface date between 4-15 months old / total length of network	RAMM surface_structure, carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	8% 5% 2%	8% 5% 2%	Grade 1
	% Surfaces 50% older than expected age	Total length of Network with surface date > 50% older than expected age / total length of network	RAMM surface_structure, carr_way	Grade 1 Grade 2 Grade 3 Grade 4	3% 7% 15%	3% 7% 15%	Grade 2
	% of Network with no surfacing	Total length of Network with no surface material / total length of network	RAMM treatment_length, carr_way	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	Illogical records (SAC with chipseal, Low and high widths, Alignment of traffic volumes v pavement use)	No. Records with inconsistencies / No carriageway sections	RAMM carr_way, c_surface, traffic_loading, traffic_loading_dtl	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
Pavement Layer	Proportion with layer information	Total length of Network with layer material / total length of network	RAMM treatment_length, carr_way	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 3
	New Layer length in 6 – 30 months	Total length of Network with layer date between 6-30 months old / total length of network	RAMM pave_structure, carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 3% 1%	5% 3% 1%	Grade 2
	Illogical records (Pavement layers v Incorrect Surfacing)	Total No. illogical Records / total No treatment lengths	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
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
Treatment Length	Proportion of very short < 20m TLs	Total length of Network with length < 20m / total length of network	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	Proportion of very long > 2000m TLs	Total length of Network with length > 2000m / total length of network	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	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 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	% updated in last 5 years	Total No treatment lengths updated in last 5 years / total No TL's	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
Forward Works Programme	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 treatment in next ten years (date last updated)	Length of network identified for treatment in the 10 year FWP / total network length	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	FWP v surfacings (% surfacings in last year conflicting with first 2 years of FWP exc 2nd coats)	Total length of Network with surfacings with dates in last year with a treatment scheduled in first 2 years of FWP (excl 2nd coats) / total length in first 2 years of FWP	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	Grade 1 Grade 2 Grade 3 Grade 4	2% 5% 8%	2% 5% 6%	Grade 1
	Evidence of active MIS strategy, reasons for treatments listed and detailed	Total length of Network with MIS strategy present / Total Network Length	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
Collected Data							
Carriageway Rating	Percentage rated in last year	Total network length rated in the last year / total network length	RAMM carr_way, treatment_length, rating	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
High Speed Data	% network meeting standards for roughness, rutting and texture (Roads surveyed in last year)	Total length of network with roughness, rutting and texture surveyed in the last year / total network length	RAMM carr_way, treatment_length, hsd_rough, hsd_rutting, hsd_texture	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
	% network meeting standards for FWD (Roads surveyed in last 5 years)	Total length of network with FWD surveyed in the last 5 years / total network length	RAMM carr_way, treatment_length, falling_weight	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
	% network meeting standards for SCRIM (Roads surveyed in last year)	Total length of network with SCRIM surveyed in the last year / total network length	RAMM carr_way, treatment_length, skid_resistance	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1

DATABASE HEALTH INDEX - PARAMETERS

Measures	Description	Data Source	Grading	Greater than	Less than	NZTA Target Grade	
Maintenance Costs	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 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	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 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 2
	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 activities 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
Miscellaneous	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
	No. of LTPP Sites recorded in RAMM	Total number of LTPP Sites	RAMM carr_way, ud_ltp	N/A	N/A	N/A	N/A
Traffic Count	Latest ADT Counts	Latest date of counts	RAMM traffic_loading	N/A	N/A	N/A	N/A
	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 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
Non-Carriageway Asset Inventory							
Structures	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
	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
Drainage	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 km Urban (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
	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 km Rural 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 – 27 months)	Length of surfaced SWC renewed or replaced in last 4-15 months / total length of surfaced SWC	RAMM carr_way, sw_channel	Grade 1 Grade 2 Grade 3 Grade 4	4% 2% 1%	4% 2% 1%	Grade 2

DATABASE HEALTH INDEX - PARAMETERS

	Measures	Description	Data Source	Grading	Greater than	Less than	NZTA Target Grade
Signs	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
	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