

**KAIKOURA DISTRICT COUNCIL WORKS AND SERVICES
COMMITTEE MEETING HELD AT 9.00AM ON WEDNESDAY 21
MARCH 2007 IN MEMORIAL HALL SUPPER ROOM,
ESPLANADE, KAIKOURA.**

AGENDA

1. Apologies

2. Matters of Importance to be raised as Urgent Business.

3. Matters Arising from Report of 21/02/2007

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4. Minutes Action and Issues List Update

MEETING	ACTION REQUIRED	BY	DATE ACTIONED
	<i>21 FEBRUARY 2007</i>		
Works & Services	Obtain price from contractor for additional cleaning of West End toilets	Marlene	Refer W&S Report – pg 2

5. Reports:

- **Works and Services Report**
- **Roading Report**
- **Works and Services Budget Report**

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6. Urgent Business

Works & Services Report

WATER SUPPLY

Urban Water

Operations

The problem of chlorination at the Brunnels Rd shed has been temporarily resolved and so far we had no problems with the system.

Water Demand

The average demand for the urban supply for the month of February was 3212m³/day whereas the demand for January 2007 was 3327 m³/day; these figures are recorded from the new source.

The total average flow for February was 3239.5m³/day whereas for January 2007 it was 3338m³/day (this is the average inclusive of flows from the Waimangarara).

Kincaid Water Supply

No major problems were experienced with the Kincaid system during the reporting month.

SEWER SYSTEM

Urban Reticulation

The sewage flow averaged 1493.6m³/day for the Month of February whereas the flow for January 2007 was 1409 m³/day as measured at the Mill Rd pumping station. The average flows at the oxidation pond was 1526 m³/day

The measured dissolved oxygen (DO) averaged 3.0mg/l whereas it measured 3.6mg/l in December. The pond experienced some low DO within the reporting month however no odour complaint was received. It must be known that the lower the temp the more DO is available in the water but the higher the temperature the more bacterial activity (decay of the organic matter) takes place.

STORMWATER

Urban Stormwater

There has been no operational problems with the storm-water system for the reporting month.

PARKS & RESERVES

The operation and maintenance of these assets improved during the reporting month.

PLAYGROUNDS

An audit on the safety of the playground equipment was carried out on February 12th, 2007 by Central Traders. Apart from minor non-compliances which are presently being dealt with, the report identified the following:

- **Bayview Street** - The playground at Bayview Street requires additional play facilities to make this site worthwhile and interesting for kids to play at..

- **Gooches Beach** - “There is quite a bit of work needed to be done to the tyre swing and surrounding fall space, I doubt if it is worth spending more money on this unit. My recommendation would be to remove it and replace it with a new, more interesting and modern unit.”

These items will require further discussion with Council.

PUBLIC TOILETS

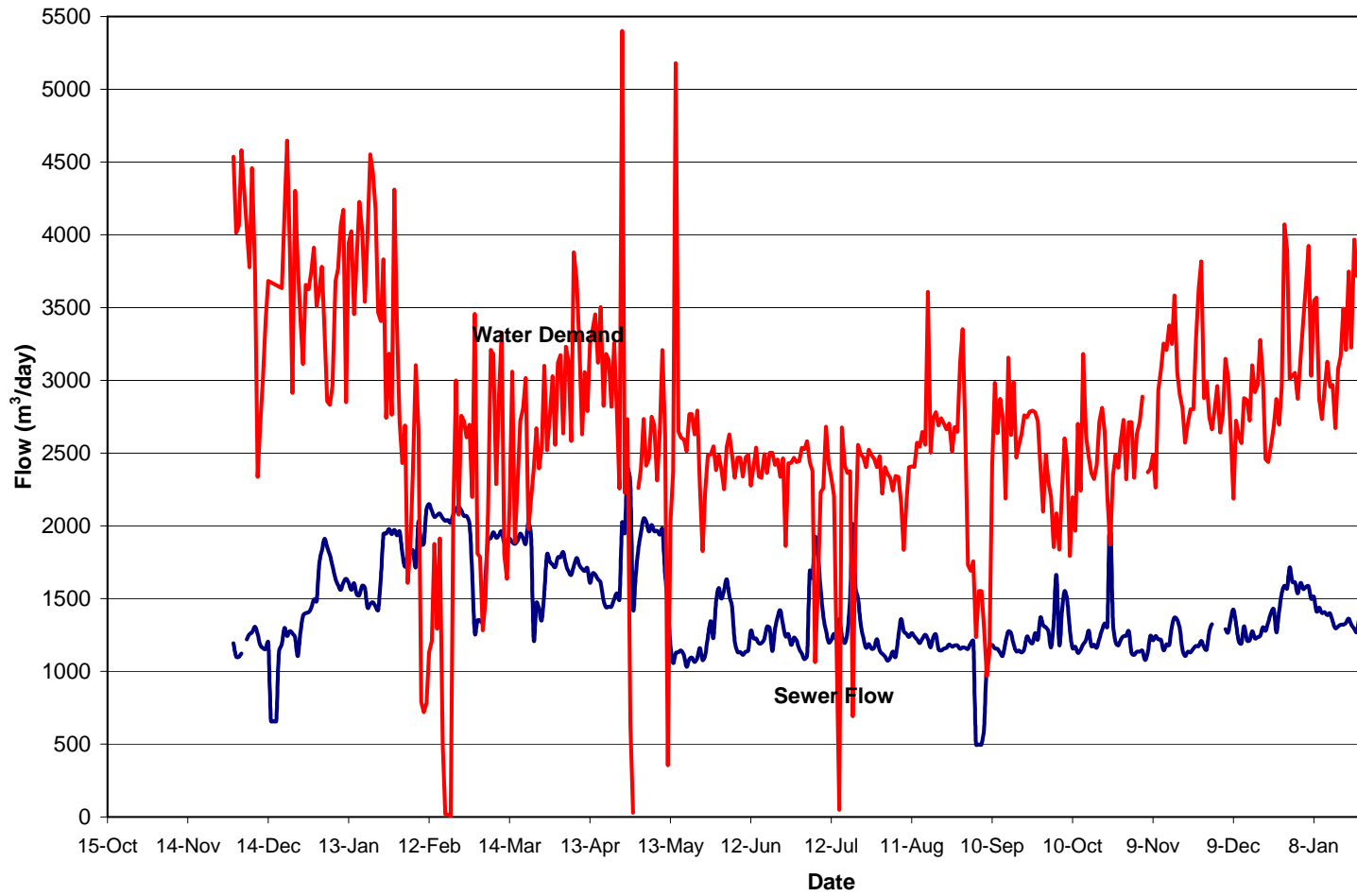
A routine inspection was carried out on March 7th, 2007 with the cleaner of the facilities. Council’s only concern at the time of the visit was the lack of or no toilet paper in some of the toilets however, this was communicated to the Contractor who later (same day) informed Council that the pallets of tissue were sitting with the delivery company in Kaikoura. The facilities were later equipped with tissue.

At the last Council meeting Council requested that the cost for an additional clean at the toilet facilities (specifically West End Toilet) be investigated. In response to this the contractor submitted a price of \$54.05 per additional clean for the West End toilet and \$ 224.31 for all the facilities (West End, Gooches Beach, Jimmy Armers, Southbay and Northern Entrance).

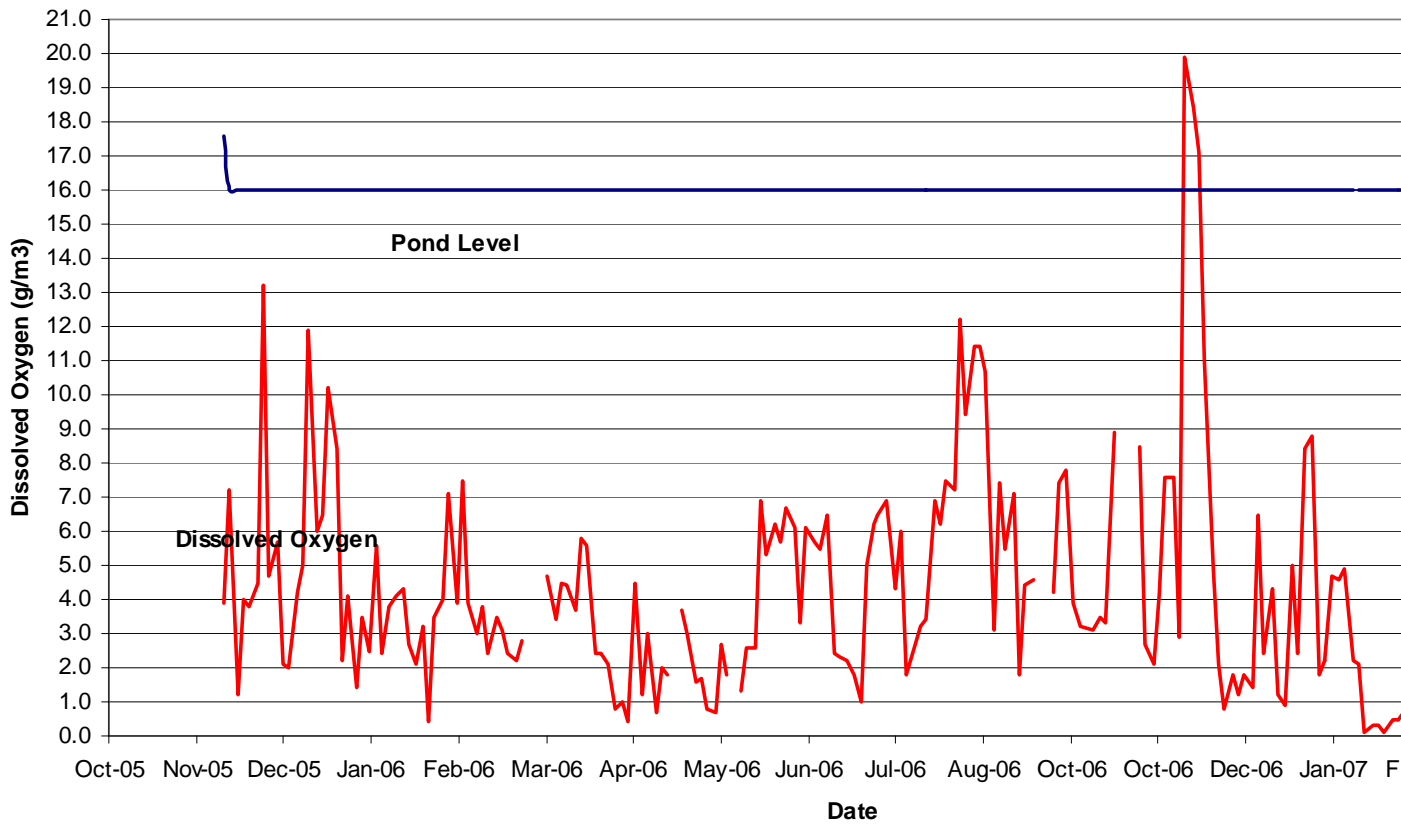
Capital Works

Item	Project	Awarded	Contractor	Start Date	Comments	Completed
1	Ludstone Rd Pumping Station and Rising Main to Hawthorne Rd	Yes	Ching Contracting Ltd	24 October 2006	On Schedule	completed within Budget
2	Moa Point Seawall	No		?	Still awaiting ECAN’s consent.	

**Water Demands & Sewer Flows
(Dec 2005 -February 2007)**



**Kaikoura Oxidation Pond
DO & Water Levels
(Dec 2005 to Feb 2007)**



Roading Report

CAPITAL PROJECTS

Item	Project	Awarded	Contractor	Start Date	Completed
1	Resealing Contract	YES	T.C. Nicholas	February 2007	completed

BRIDGE MAINTENANCE PROGRAM

Work is progressing on the maintenance/repair work identified as priority A, the only outstanding items on the approved priority lists are:

- Linton Bridge: Replace faded RG-20
- Greenburn Bridge: Level approach
- Greenburn Bridge: BEM

RAMM SYSTEM UPGRADE

The RAMM data is being updated by Connell Wagner to take into account all the new roads and roading facilities that KDC have owned as a result of subdivisions over the past few years.

STOCK EFFLUENT ON COUNCIL ROADS

Discussions are underway with two farmers who may be interested in utilizing Cow-Trax Road Guard Mats.

MAINTAINANCE GRAVELING 2006/2007

The following roads have been considered and approved for the 2006/2007 maintenance gravelling program.

Priority	Road	Road	Material	Length	Average	Recom	Quantity	Source
	No.	Name	Type	(m)	Width	Depth	(m ³)	Of
					(m)	(m)		Supply
A	143	Scotts Road	Gravel	2439	3.1	0.050	378.045	Kahutara
B	104	Blunts Road	Gravel	2094	3.9	0.050	408.33	Kowhai
A	123	Kiwa Road	Gravel	1800	5	0.130	1170	Hapuku
A	124	Kowhai Ford Road	Gravel	1289	5	0.050	322.25	Kowhai
A	150	Waipapa Road	Limestone	350	4	0.100	140	Miltons
A	108	Clarence Valley Road	Limestone	1779	3	0.050	266.85	Kinder's
A	144	Silver Springs Road	Limestone	2034	2.6	0.100	528.84	Kinder's

The gravelling program will commence sometime in May 2007

SUMMARY OF COMPLETED WORK FOR FEBRUARY 2007

Road ID	Road Name	Potholes Digouts (m2)	Edge Break (m)	Other Sealing (m2)	Emergency Work	Grading	Surface Debris	Markerposts	Signs	Sight Rails	Other Signage	Vegetation	Various
101	Beach Rd	7				1							
103	Blue Duck Valley Rd				Drop out								
104	Blunts Rd					1							
157	Burrels Lane					1							
107	Chapmans Rd					1							
8	Davidson Tce				Oil Spill								
109	Dairy Farm Rd					1							
12	Esplanade								2				
117	Green Lane					1							
159	Harris Rd					1							
118	Inland Rd									1		mowing	
22	Killarney St	2											
123	Kiwa Rd					1							
25	Kotare Pl	8											
124	Kowhai Ford Rd					1							
125	Ludstone Rd	10											
29	Maui St					1			1				
129	Mt Fyffe Rd	15				1							
133	Poles Rd					1							
134	Postmans Rd				Flooding x 2	1							
136	Puhi Puhi Valley Rd				Slips								
140	Red Swamp Rd	10											
33	Scarborough St	4										mowing	
143	Scotts Rd					1							
	South Bay Parade	8											
146	Top Line Rd					1							
37	Torquay St	4											

Traffic Count

Traffic Count for the month of February included the following roads

Bay Paddock Road – 130 Vehciles per day (vpd)

Old Beach Road – Kaikoura End – 390 vpd

Old Beach Road Hapuku End - 80

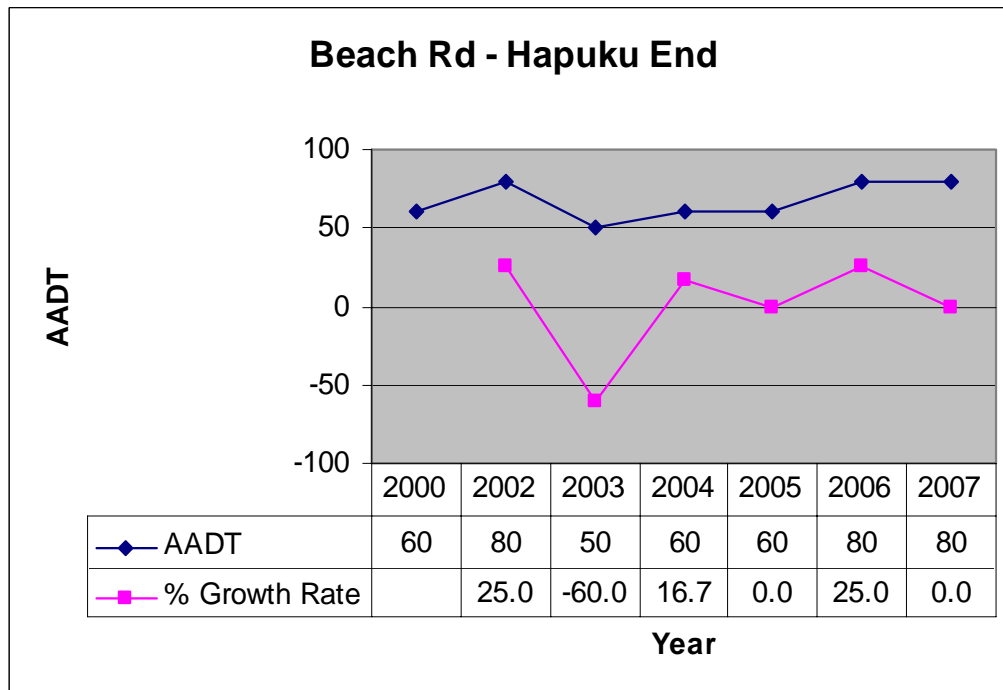
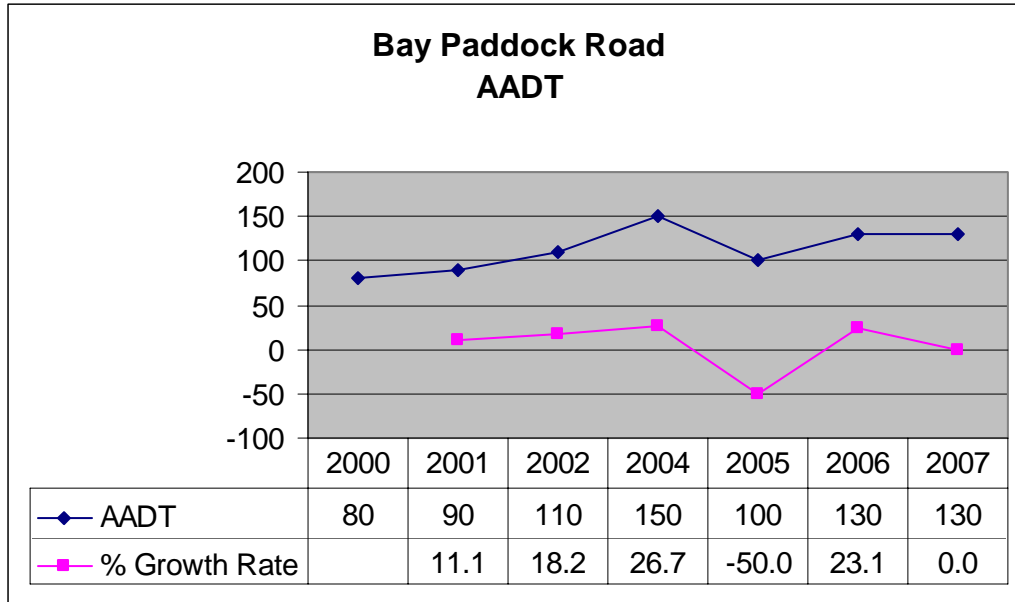
The average daily count for Bay Paddock Rd for 2007 has not increased since last year, and the overall growth rate for traffic is only 3% since 2000. 11% of vehicles were recorded as travelling at more than 100 kph with one vehicle recorded at over 150 kph.

Vehicle movements for Old Beach Rd – Hapuku end have remained steady over the past two years. from 2020 in 2006 to 2100 for 2007. The majority of vehicles on this road are travelling between 30 kph and 70 kph. One resident has suggested that the positioning of the counter does not accurately reflect vehicle

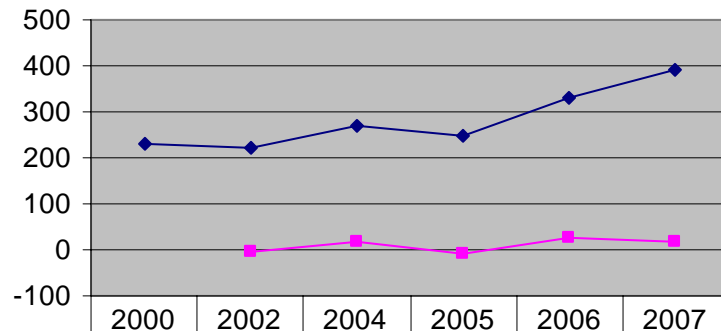
usage as it is closer to the river side of the settlement and does not capture all resident movements. Future placement shall be at the Kaikoura end of the settlement and if there is a suitable gap in the Traffic Count Programme one would be conducted this year.

The Kaikoura end of Old Beach Rd has seen an increase of 15% in traffic volume since 2006 and a growth rate of 5% since 2000. Less than 10% of vehicles were recorded at speeds over 100 kph, however 169 of these (representing two thirds of vehicles travelling at more than 100kph) were recorded as Class 3 (two axle truck or bus).

The figures below show the Annual Average Daily Traffic Trend from 2001 to 2006



Beach Road - Kaikoura End



	2000	2002	2004	2005	2006	2007
—◆— AADT	230	220	270	250	330	390
—■— % Growth Rate		-4.5	18.5	-8.0	24.2	15.4

We are continuing to provide the police with the traffic count results.

MetroCount Traffic Executive Class Speed Matrix

ClassMatrix-14 -- English (enz)

Datasets:

Site: [10000550] Bay Paddock Road
Direction: 7 - North bound A>B, South bound B>A., **Lane:** 0
Survey Duration: 10:04 Wednesday, 7 February 2007 => 10:43 Wednesday, 14 February 2007
File: R:\13 Roding\13.1 General\13.1.1 Urban\Traffic Count\Traffic
Count\TC2007\KDC_Dat_Files\10000550 - Bay Paddock Rd\1000055014Feb2007.EC0 (Plus)
Identifier: M1211H48 MC56-6 [MC55] (c)Microcom 02/03/01
Algorithm: Factory default
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 10:30 Wednesday, 7 February 2007 => 10:30 Wednesday, 14 February 2007
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Speed range: 10 - 160 km/h.
Direction: North, East, South, West (bound)
Separation: All - (Headway)
Name: Factory default profile
Scheme: Vehicle classification (AustRoads94)
Units: Metric (meter, kilometer, m/s, km/h, kg, tonne)
In profile: Vehicles = 949 / 956 (99.27%)

Class Speed Matrix

ClassMatrix-14

Site: 10000550.0SN
Description: Bay Paddock Road
Filter time: 10:30 Wednesday, 7 February 2007 => 10:30 Wednesday, 14 February 2007
Scheme: Vehicle classification (AustRoads94)
Filter: Cls(1 2 3 4 5 6 7 8 9 10 11 12) Dir(NESW) Sp(10,160) Headway(>0)

Speed (km/h)
Speed Totals

		Class									
		1	2	3	4	5	6	7	8	9	10
<u>11</u>	<u>12</u>										
10 - 20	|	2	.	.	.	.	.	.	.	.	.
.	|	2	0.2%								
20 - 30	|	7	1	.	.	.	.	.	1	.	.
.	|	9	0.9%								
30 - 40	|	5	1	5	.	.	.	2	.	.	.
.	|	13	1.4%								
40 - 50	|	24	1	7	1	.	.	.	.	.	.
.	|	33	3.5%								
50 - 60	|	65	8	13	.	4	.	3	.	.	.
.	|	93	9.8%								
60 - 70	|	169	11	16	4	3	1	.	.	1	.
.	|	205	21.6%								
70 - 80	|	175	8	35	.	.	.	1	.	.	.
2	|	221	23.3%								
80 - 90	|	92	3	49	1	.	2	2	.	.	.
4	|	153	16.1%								
90 - 100	|	38	1	61	.	.	1	1	.	.	.
1	|	103	10.9%								
100 - 110	|	15	.	43	.	.	1	.	.	.	.
.	|	59	6.2%								
110 - 120	|	11	1	32	.	.	.	1	.	.	.
.	|	45	4.7%								
120 - 130	|	.	.	5	.	.	.	.	.	.	.
.	|	5	0.5%								
130 - 140	|	.	.	4	.	.	.	.	.	.	.
.	|	4	0.4%								
140 - 150	|	.	.	3	.	.	.	.	.	.	.
.	|	3	0.3%								
150 - 160	|	.	.	1	.	.	.	.	.	.	.
.	|	1	0.1%								
		Class Totals									
7	0	603	35	274	6	7	5	10	1	1	0
0.7%	0.0%	949	63.5%	3.7%	28.9%	0.6%	0.7%	0.5%	1.1%	0.1%	0.0%

MetroCount Traffic Executive Class Speed Matrix

ClassMatrix-25 -- English (enz)

Datasets:

Site: [10108573] Old Beach Road - Hapuka end
Direction: 5 - South bound A>B, North bound B>A., Lane: 0
Survey Duration: 9:36 Wednesday, 21 February 2007 => 10:18 Wednesday, 28 February 2007
File: R:\13 Roding\13.1 General\13.1.1 Urban\Traffic
Count\KDC_Dat_Files\2007\10108573 - Old Beach Road\1010857328Feb2007.EC0 (Plus)
Identifier: M1211H48 MC56-6 [MC55] (c)Microcom 02/03/01
Algorithm: Factory default
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 10:15 Wednesday, 21 February 2007 => 10:15 Wednesday, 28 February 2007
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Speed range: 10 - 160 km/h.
Direction: North, East, South, West (bound)
Separation: All - (Headway)
Name: Factory default profile
Scheme: Vehicle classification (AustRoads94)
Units: Metric (meter, kilometer, m/s, km/h, kg, tonne)
In profile: Vehicles = 639 / 643 (99.38%)

Class Speed Matrix

ClassMatrix-25

Site: 10108573.ONS
Description: Old Beach Road - Hapuka end
Filter time: 10:15 Wednesday, 21 February 2007 => 10:15 Wednesday, 28 February 2007
Scheme: Vehicle classification (AustRoads94)
Filter: Cls(1 2 3 4 5 6 7 8 9 10 11 12) Dir(NESW) Sp(10,160) Headway(>0)

Speed (km/h)
Speed Totals

		Class									
		1	2	3	4	5	6	7	8	9	10
11	12										
10 - 20	|	14	.	1	.	.	.	.	.	.	.
.	|	15	2.3%								
20 - 30	|	42	1	3	1	.	.	.	.	.	.
.	|	47	7.4%								
30 - 40	|	84	2	13	5	.	.	.	.	2	.
.	|	106	16.6%								
40 - 50	|	148	3	14	11	.	.	.	.	.	.
.	|	176	27.5%								
50 - 60	|	114	3	18	8	1	.	.	.	.	.
.	|	144	22.5%								
60 - 70	|	67	4	18	2	.	.	.	.	.	.
.	|	91	14.2%								
70 - 80	|	30	1	13	.	.	.	.	.	.	.
.	|	44	6.9%								
80 - 90	|	5	1	7	.	.	.	.	.	.	.
.	|	13	2.0%								
90 - 100	|	.	.	1	.	.	.	.	.	.	.
.	|	1	0.2%								
100 - 110	|	2	.	.	.	.	.	.	.	.	.
.	|	2	0.3%								
110 - 120	|	.	.	.	.	.	.	.	.	.	.
.	|	0	0.0%								
120 - 130	|	.	.	.	.	.	.	.	.	.	.
.	|	0	0.0%								
130 - 140	|	.	.	.	.	.	.	.	.	.	.
.	|	0	0.0%								
140 - 150	|	.	.	.	.	.	.	.	.	.	.
.	|	0	0.0%								
150 - 160	|	.	.	.	.	.	.	.	.	.	.
.	|	0	0.0%								
		506	15	88	27	1	0	0	0	2	0
0	0|	639									
0.0%	0.0%|	79.2%	2.3%	13.8%	4.2%	0.2%	0.0%	0.0%	0.0%	0.3%	0.0%
Class Totals											

MetroCount Traffic Executive Class Speed Matrix

ClassMatrix-15 -- English (enz)

Datasets:

Site: [10102450] Old Beach Road - Kaikoura end
Direction: 5 - South bound A>B, North bound B>A., **Lane:** 0
Survey Duration: 10:46 Wednesday, 14 February 2007 => 9:33 Wednesday, 21 February 2007
File: R:\13 Roding\13.1 General\13.1.1 Urban\Traffic Count\Traffic
Count\TC2007\KDC_Dat_Files\10102450 - Old Beach Road\1010245021Feb2007.EC0 (Plus)
Identifier: M1211H48 MC56-6 [MC55] (c)Microcom 02/03/01
Algorithm: Factory default
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 11:00 Wednesday, 14 February 2007 => 9:30 Wednesday, 21 February 2007
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Speed range: 10 - 160 km/h.
Direction: North, East, South, West (bound)
Separation: All - (Headway)
Name: Factory default profile
Scheme: Vehicle classification (AustRoads94)
Units: Metric (meter, kilometer, m/s, km/h, kg, tonne)
In profile: Vehicles = 2773 / 2790 (99.39%)

Class Speed Matrix

ClassMatrix-15

Site: 10102450.ONS
Description: Old Beach Road - Kaikoura end
Filter time: 11:00 Wednesday, 14 February 2007 => 9:30 Wednesday, 21 February 2007
Scheme: Vehicle classification (AustRoads94)
Filter: Cls(1 2 3 4 5 6 7 8 9 10 11 12) Dir(NESW) Sp(10,160) Headway(>0)

Speed (km/h)
Speed Totals

		Class									
		1	2	3	4	5	6	7	8	9	10
<u>11</u>	<u>12</u>										
10 - 20	|	16	.	.	.	.	.	.	.	.	.
.	|	16	0.6%								
20 - 30	|	34	.	.	6	.	.	.	.	.	.
.	|	40	1.4%								
30 - 40	|	43	1	4	2	.	.	6	.	.	.
.	|	56	2.0%								
40 - 50	|	156	3	8	1	.	.	1	1	.	.
.	|	170	6.1%								
50 - 60	|	430	15	32	2	.	.	1	.	.	.
.	|	480	17.3%								
60 - 70	|	610	27	42	6	1	1	1	.	.	.
.	|	688	24.8%								
70 - 80	|	405	19	65	8	3	4	3	1	.	.
.	|	508	18.3%								
80 - 90	|	241	1	79	10	7	.	2	.	.	.
.	|	340	12.3%								
90 - 100	|	120	3	72	8	2	4	2	.	.	.
.	|	211	7.6%								
100 - 110	|	46	3	61	1	.	1	.	.	.	.
.	|	112	4.0%								
110 - 120	|	20	.	49	.	.	.	.	.	.	.
.	|	69	2.5%								
120 - 130	|	15	.	32	.	.	.	.	.	.	.
.	|	47	1.7%								
130 - 140	|	6	.	15	.	.	1	1	.	.	.
.	|	23	0.8%								
140 - 150	|	1	.	9	.	.	.	.	.	.	.
.	|	10	0.4%								
150 - 160	|	.	.	3	.	.	.	.	.	.	.
.	|	3	0.1%								
		Class Totals									
0	0	2143	72	471	44	13	11	17	2	0	0
0.0%	0.0%	2773	77.3%	2.6%	17.0%	1.6%	0.5%	0.4%	0.6%	0.1%	0.0%

RECORD OF INSPECTION – 9 February 2007

1. Inland Road

- i) Generally the sealed section of the road is in good condition excepting:
 - Linton Bridge to 1.5km – edge breaks and deformation across width of carriage way.
- ii) Edge markers in general and some of the culvert markers are in pretty poor conditions, some missing, some broken and some are leaning. Many edge markers appear to be broken by recent mowing on road side. These edge/culvert markers need to be replaced/repaired.
- iii) Debris in dish channels along Greenburn and east of Kahutara needs clearing
- iv) Signage to replace – ‘Black Stream’, ‘Slippery Surface’ @ 1650 from Linton Bridge, Curve @ 4287, ‘Scotts Road’ finger board. Other signs inspected should remain and be assessed on next inspection.
- v) Linton River – further clearing of debris from either side of bridge required
- vi) Bridge end marker on Black Stream needs replacing.

2. Scotts Road

- vii) Graded last week. Two potholes on sealed junction with Inland Rd but generally in fair condition.
- viii) Cattle stop requires V’s cut into top of side beams and drainage channels to allow water to flow. Side barriers need to be replaced and painted.
- ix) Need to replace “Children” sign.
- x) Need to replace culvert marker No.2, 10 and 11.

3. Blunts Road

- xi) Recently graded and in fair condition.

4. Red Swamp Road

- xii) No problems noted over sealed section.
- xiii) The unsealed section needs grading and shaping to remove hollows caused by the wheel tracks.

5. Postmans Road / Chapmans Road

- xiv) Unsealed section of roads in poor condition and require grading.

6. McInnes Road

- xv) Fair.

7. Mt Fyffe Road

- xvi) Observed Potholes on sealed section of the road needs filling.
- xvii) Unsealed section of the road to Topline Rd junction is in a fairly good condition.

xviii) Above Topline condition is poor. Requires grading.

8. Pooles Road / Topline Road

xix) Road is in a satisfactory condition.

9. Diary Farm Road

xx) Road in fair condition

xxi) Tree lucerne covering bridge end marker needs clearing.

10. Kowhai Fords Road

xxii) Unsealed section is potholed and needs grading

xxiii) Seal – pothole and edge breaks require repair. The last digout done on this road is failing; works will investigate cause and report back.

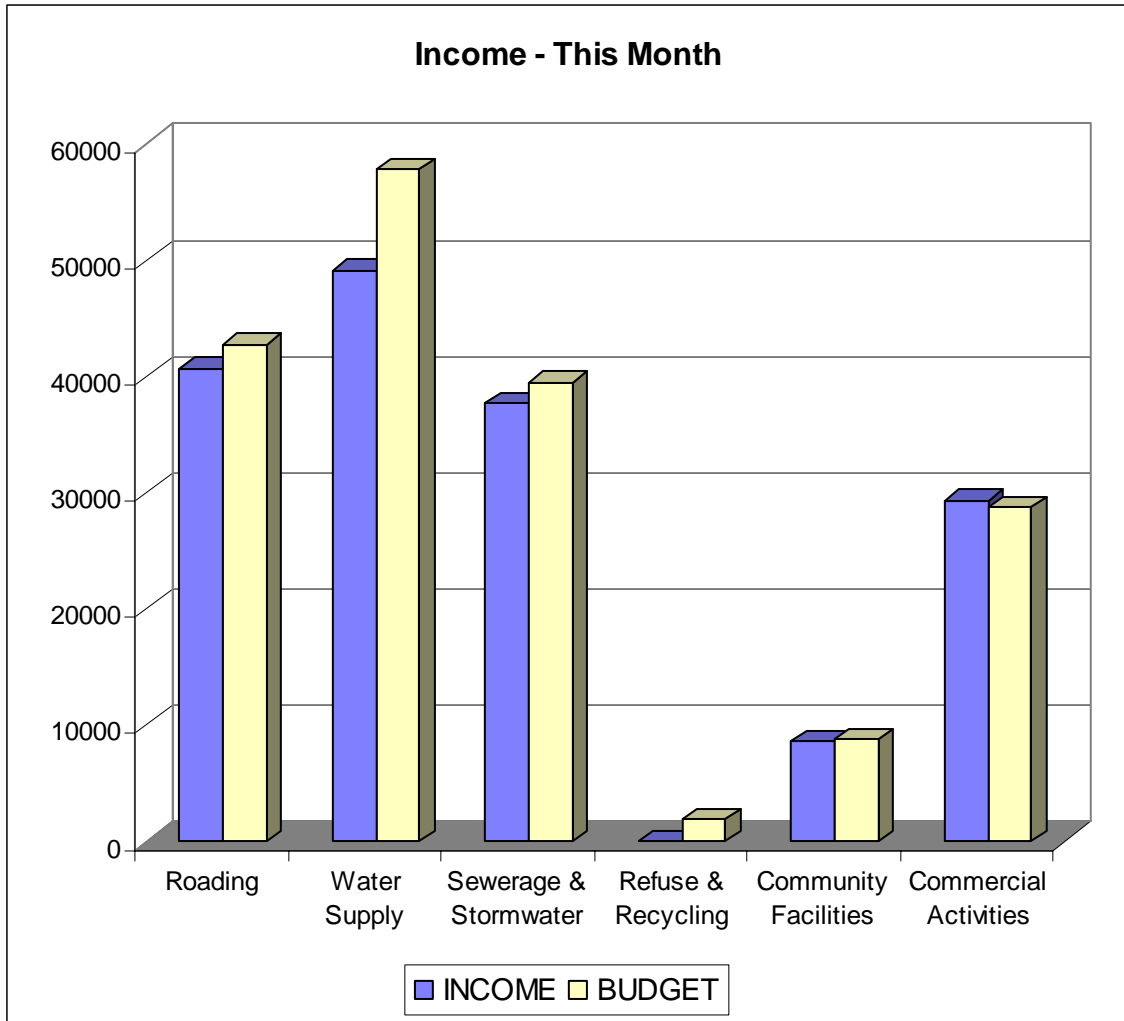
11. Schoolhouse Road

xxiv) The Graveled section is generally in fair condition.

The date of the next road inspection to be confirmed

Network Traffic Flows - No major traffic delays were encountered in the Kaikoura roading network within the February period.

Works & Services Budget Report



Expenditure - This Month

