

Agenda

**Notice is hereby given of
a District Infrastructure Committee Meeting**

Tuesday 28 July 2020

To follow the Environmental Services and Finance
Committee Meeting

Council Chamber
Waimate District Council
125 Queen Street
Waimate

www.waimatedc.govt.nz

Notice is hereby given that a meeting of the District Infrastructure Committee will be held in the Council Chamber, Waimate District Council, 125 Queen Street, Waimate, on Tuesday 28 July 2020, to follow the Environmental Services and Finance Committee Meeting.

Committee Membership

Miriam Morton	Chairperson
Sheila Paul	Deputy Chairperson
Craig Rowley	Mayor
Sharyn Cain	Deputy Mayor
Fabia Fox	Councillor
Sandy McAlwee	Councillor
Tom O'Connor	Councillor
David Owen	Councillor
Colin Pankhurst	Councillor

Quorum – no less than five members

Significance Consideration

Evaluation: Council officers, in preparing these reports have had regard to Council's Significance and Engagement Policy. Council and Committee members will make the final assessment on whether the subject under consideration is to be regarded as being significant or not. Unless Council or Committee explicitly determines that the subject under consideration is to be deemed significant then the subject will be deemed as not being significant.

Decision Making

The Council, in considering each matter, must be:

- i. Satisfied that it has sufficient information about the practicable options and their benefits, costs and impacts, bearing in mind the significance of the decision;
- ii. Satisfied that it knows enough about and will give adequate consideration to the views and preferences of affected and interested parties bearing in mind the significance of the decisions to be made.

Stuart Duncan
Chief Executive

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OPENING**1 PUBLIC FORUM**

Nil

2 APOLOGIES**3 VISITORS**

11.30am – Road Safety Presentation

4 CONFLICTS OF INTEREST

As per the Local Authorities (Members' Interests) Act 1968 (as below), the Chair will enquire if there are any Conflicts of Interest to be declared on any item on the agenda, and if so, for any member to declare this interest.

Local Authorities (Members' Interests) Act 1968

Councillors are reminded that if they have a pecuniary interest in any item on the agenda, then they must declare this interest and refrain from discussing or voting on this item and are advised to withdraw from the meeting table.

5 IDENTIFICATION OF MAJOR (URGENT) OR MINOR ITEMS NOT ON THE AGENDA

1. The Chair will call for any major (urgent business) or minor items not on the agenda to be raised according to Standing Orders, as below:

a. Standing Orders 3.7.5 – Major Items

An item not on the agenda for a meeting may be dealt with at the meeting if the local authority by resolution so decides, and the presiding member explains at the meeting at a time when it is open to the public –

- i. The reason why the item was not listed on the agenda; and
- ii. The reason why discussion of the item cannot be delayed until a subsequent meeting.

b. Standing Orders 3.7.6 – Minor Items

An item not on the agenda for a meeting may be dealt with at the meeting if –

- i. That item is a minor matter relating to the general business of the local authority; and
- ii. The presiding member explains at the beginning of the meeting, at a time when it is open to the public, that the item will be discussed at the meeting; but
- iii. No resolution, decision, or recommendation may be made in respect of that item except to refer that item to a subsequent meeting of the local authority for further discussion.

MINUTES**6 CONFIRMATION OF MINUTES****6.1 MINUTES OF THE DISTRICT INFRASTRUCTURE COMMITTEE MEETING HELD ON 10 MARCH 2020**

Author: Karalyn Reid, Committee Secretary and PA to the Mayor

Authoriser: Dan Mitchell, Asset Group Manager

Attachments: 1. Minutes of the District Infrastructure Committee Meeting held on 10 March 2020

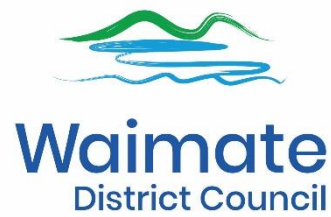
PURPOSE

For the unconfirmed Minutes of the District Infrastructure Committee meeting held on 10 March 2020 be presented for confirmation.

Please note the scheduled meeting on 28 April 2020 to confirm the Minutes was not held due to COVID-19 lockdown.

RECOMMENDATION

That the Minutes of the District Infrastructure Committee Meeting held on 10 March 2020 be adopted as a true and correct record.



MINUTES

District Infrastructure Committee Meeting

10 March 2020

**MINUTES OF WAIMATE DISTRICT COUNCIL
DISTRICT INFRASTRUCTURE COMMITTEE MEETING
HELD AT THE COUNCIL CHAMBER, WAIMATE DISTRICT COUNCIL, 125 QUEEN STREET,
WAIMATE ON TUESDAY 10 MARCH 2020, COMMENCING AT 11.00AM**

PRESENT: Cr Miriam Morton, Cr Sheila Paul, Mayor Craig Rowley, Deputy Mayor Sharyn Cain, Cr Fabia Fox, Cr Sandy McAlwee, Cr Tom O'Connor, Cr David Owen

APOLOGIES: Cr Colin Pankhurst

IN ATTENDANCE: Stuart Duncan (Chief Executive), Carolyn Johns (Community and Strategy Group Manager), Michelle Jones (Executive Support Manager), Dan Mitchell (Asset Group Manager), Tina Stevenson (Corporate Services Group Manager), Karalyn Reid (Committee Secretary)

PARTIAL ATTENDANCE: Rob Moffat (Roading Manager), Paul Roberts (Water and Waste Manager), Graeme Watts (Parks and Reserves Manager)

OPENING

1 PUBLIC FORUM

There was no Public Forum held at this meeting.

2 APOLOGIES

APOLOGY

COMMITTEE RESOLUTION 2020/9

Moved: Cr Fabia Fox

Seconded: Cr Tom O'Connor

That the apology received from Cr Colin Pankhurst be accepted.

CARRIED

3 VISITORS

Nil

4 CONFLICTS OF INTEREST

The Chair asked for any Conflicts to Interest. There were no Conflicts of Interest declared.

5 IDENTIFICATION OF MAJOR (URGENT) OR MINOR ITEMS NOT ON THE AGENDA

Nil

MINUTES**6 CONFIRMATION OF MINUTES****6.1 MINUTES OF THE DISTRICT INFRASTRUCTURE COMMITTEE MEETING HELD ON 28 JANUARY 2020****COMMITTEE RESOLUTION 2020/10**

Moved: Deputy Mayor Sharyn Cain

Seconded: Mayor Craig Rowley

That the Minutes of the District Infrastructure Committee Meeting held on 28 January 2020 be adopted as a true and correct record.

CARRIED**7 RECEIPT OF MINUTES****7.1 MINUTES OF THE OTAIO–MAKIKIHI RURAL WATER COMMITTEE MEETING HELD ON 25 NOVEMBER 2019****COMMITTEE RESOLUTION 2020/11**

Moved: Deputy Mayor Sharyn Cain

Seconded: Cr Fabia Fox

That the unconfirmed Minutes of the Otaio–Makikihi Rural Water Committee Meeting held on 25 November 2019 be received.

CARRIED**7.2 MINUTES OF THE DOWNLANDS JOINT STANDING COMMITTEE MEETING HELD ON 2 DECEMBER 2019****COMMITTEE RESOLUTION 2020/12**

Moved: Deputy Mayor Sharyn Cain

Seconded: Cr Sheila Paul

That the confirmed Minutes of the Downlands Joint Standing Committee Meeting held on 2 December 2019 be received.

CARRIED**Note:**

Discussions are ongoing on the ownership of the Downlands Joint Standing Committee.

REPORTS

8 ASSET GROUP REPORT

8.1 MANAGEMENT REPORT - PARKS & RESERVES

COMMITTEE RESOLUTION 2020/13

Moved: Mayor Craig Rowley

Seconded: Cr Tom O'Connor

That the Management Report – Parks and Reserves is accepted.

CARRIED

Note:

Staff were asked to investigate the possibility of allowing dogs into Norman Kirk Swimming Pool after the pool is closed for the season for a one-day event.

8.2 MANAGEMENT REPORT - ROADING

COMMITTEE RESOLUTION 2020/14

Moved: Cr David Owen

Seconded: Cr Fabia Fox

That the Management Report – Roothing is accepted.

CARRIED

Note:

The Roothing Manager reported the expenditure of the roading maintenance budget is currently sitting at 68%.

The Mayor noted that he understood NZTA's road safety budget was underspent, and asked the Roothing Manager to investigate options with the South Canterbury Road Safety Coordinator on utilising some of this spend.

Sign damage is currently an issue, especially at Otaio and Holme Station. Surveillance cameras are being trialled with the police.

There was a discussion on members of the public reporting any minor problems such as street lighting faults directly to staff to be resolved. This request could be communicated through Council's website, as well as promoting the snap-send-solve mobile phone app and Council's after-hours phone number.

8.3 MANAGEMENT REPORT - 3 WATERS AND SOLID WASTE

COMMITTEE RESOLUTION 2020/15

Moved: Mayor Craig Rowley

Seconded: Cr Fabia Fox

That the Management Report – 3 Waters and Solid Waste is accepted.

CARRIED

Note:

Paragraph 11: The Committee noted that it may be useful to hold conversations with other organisations such as Meridian and Environment Canterbury and land owners/users for loss of land by erosion.

The Committee discussed concerns of potential risks of water take at the Lower Waihao in light of recent Rangitata river flooding, and what is being done to mitigate any problems. Staff have undertaken investigations.

MEETING CLOSURE

There being no further business, the Chair closed the meeting at 11.54am.

The Minutes of this meeting were to be confirmed at the District Infrastructure Committee Meeting scheduled for 28 April 2020; however that was not held due to COVID-19 lockdown.

.....
CHAIRPERSON

REPORTS

7 ASSET GROUP REPORT

7.1 MANAGEMENT REPORT - PARKS & RESERVES

Author: Graeme Watts, Parks and Reserves Manager

Authoriser: Dan Mitchell, Asset Group Manager

Attachments: 1. Capital and Project Report - Parks and Reserves Q4 2019-20 [↓](#) 

PURPOSE

1. To provide the District Infrastructure Committee with an update on Parks and Reserves activities.

VICTORIA PARK

2. Staff have been busy undertaking maintenance at the park which had suffered due to the Covid-19 Lockdown.
3. Mowing and weeding was the main priority task to be undertaken and this took a number of weeks to get back to the usual high standard.
4. All the main garden displays in Victoria Park and Town Reserves have been replanted with a mixed varieties of pansies, polyanthus and wallflowers.
5. The rhododendron area at Victoria Park has been cleaned up and the front area soiled, levelled and re-sown with grass seed.
6. Hedges and shrubs within the park have had their winter trim.



Photograph 1: New planting at Victoria Park



Photograph 2: Rhododendron Area

7. Sealing around the playground shelter building and the pathway to the Scout Den has been completed.
8. Picnic tables and bench seats have been fitted within the shelter building. This area is being well utilised by many groups of visitors especially over the weekends.

KNOTTINGLEY PARK AND ARBORETUM

9. General maintenance through the formal area has been the main priority, with weed removal, and shrub and tree pruning. This work has been part of the Friends of Knottingley Park working bees which have been a great help to restore the area after the Covid-19 Lockdown.
10. Friends of Knottingley Park have been working on a project which was to install signage naming each area throughout the park, e.g. Murray Field & Bell Field.
11. A pamphlet is being produced for a tree trail which will name a number of selected specimen trees. These trees will have a number placed on each of them. This will add interest for people to learn the names and where the trees originate from.
12. Preparation for resealing the main roadway through the formal area of the park has been completed. Some areas of the roadway have been widened and car parking has been added. Sealing has been planned to take place in the spring and summer period. Covid-19 and weather conditions delayed this project.



Photograph 3: Area Signage at Knottingley Park



Photograph 4: Resealing at Knottingley Park

WAIMATE DISTRICT COUNCIL QUEEN STREET BUILDING GROUNDS

13. Hedging at the Queen Street Building Grounds has overgrown onto Victoria Terrace between the Town and Country Club and the bus stop shelter. If the hedge is untouched the footpath tar seal will continue to be damaged as the root system continues to grow. If it is cut back to the path edge, it will result in partial or full die back to the plants that remain.
14. Options are to remove and replant, or remove and sow the area into grass. Leaving the area open would give the community a chance to enjoy this area. The installation of a picnic table and seating would also enhance the area and encourage use. Council staff will still maintain privacy and security while working as there is existing native hedging for that purpose.



Photograph 5: Hedging on Victoria Terrace



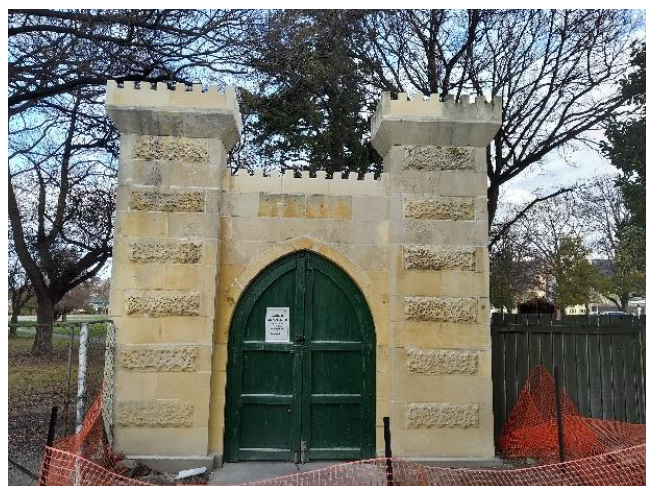
Photograph 6: Lawn Area behind Hedging

URBAN RESERVES

15. Seddon Square: Soil and grass seed has been added around the concrete pad where the Christmas tree is placed. A park seat has been sited here to fill the void until the Christmas tree is erected again.
16. Seddon Square: Repair work on the limestone archway entrance to the tennis courts has been completed. The top of the arch way stonework was vandalised and broken. Some new blocks have been added and plasterwork repaired.

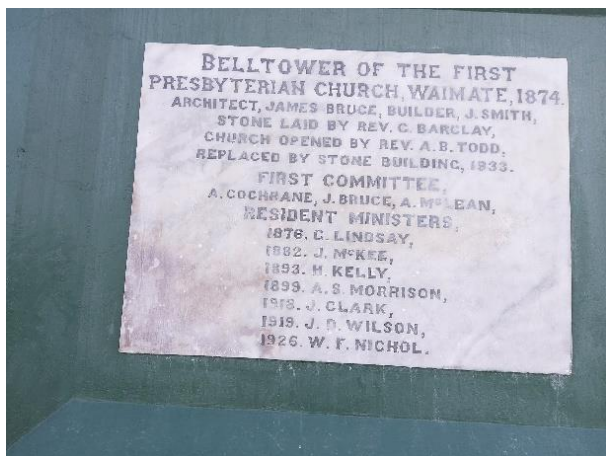


Photograph 7: Christmas tree concrete pad



Photograph 8: Repair to archway complete

17. Replacement and repairs to the lead lettering on the Belt Street Memorial Tower has been completed.



Photograph 9: Lettering on Belt Street Memorial Tower

18. Belt Street reserve landscaping is to commence at the end of July.
19. Hanging baskets in the main street have been removed. Preparation for the next planting will start at the end of August – ordering plants, preparing baskets with new soil and liners.

CEMETERY

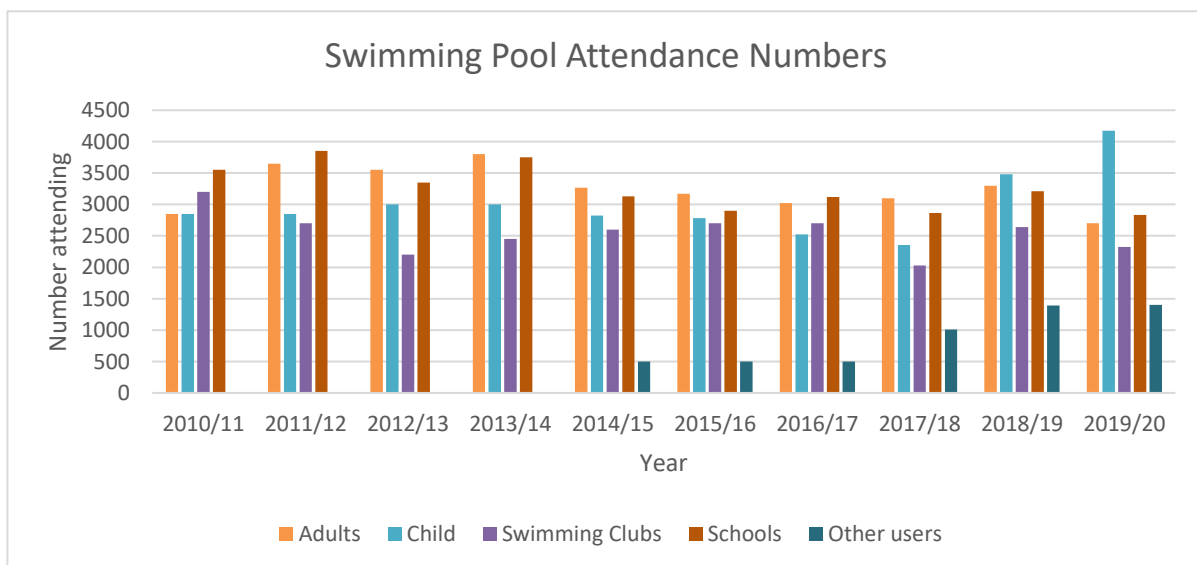
20. During Covid-19 Lockdown, only interments for burials were carried out as per the requirements of Level 4 and 3 Lockdown.
21. Since Covid-19 Level 1 staff have been busy topping up graves with soil and sowing grass seed.
22. Staff have also been busy moving lawns and trimming hedges.
23. Internal Affairs, through the RSA, have installed a new sign to mark the RSA section. There is a second sign still to come.



Photograph 11: New RSA Signage

NORMAN KIRK MEMORIAL SWIMMING POOL

24. Pool attendance numbers were slightly down compared to last season's attendance. This was due to Covid-19.
25. Interior walls of the female changing room are being painted, along with maintenance to the showers and seating.
26. Removal of many layers of old paint on the paddling pool floor and top edges on the main pool is being done. These areas will be repainted in September when the weather is warmer. The main entrance of the swimming pool will also be resurfaced with a non-slip floor covering.



Graph 1: Swimming Pool Attendance Numbers

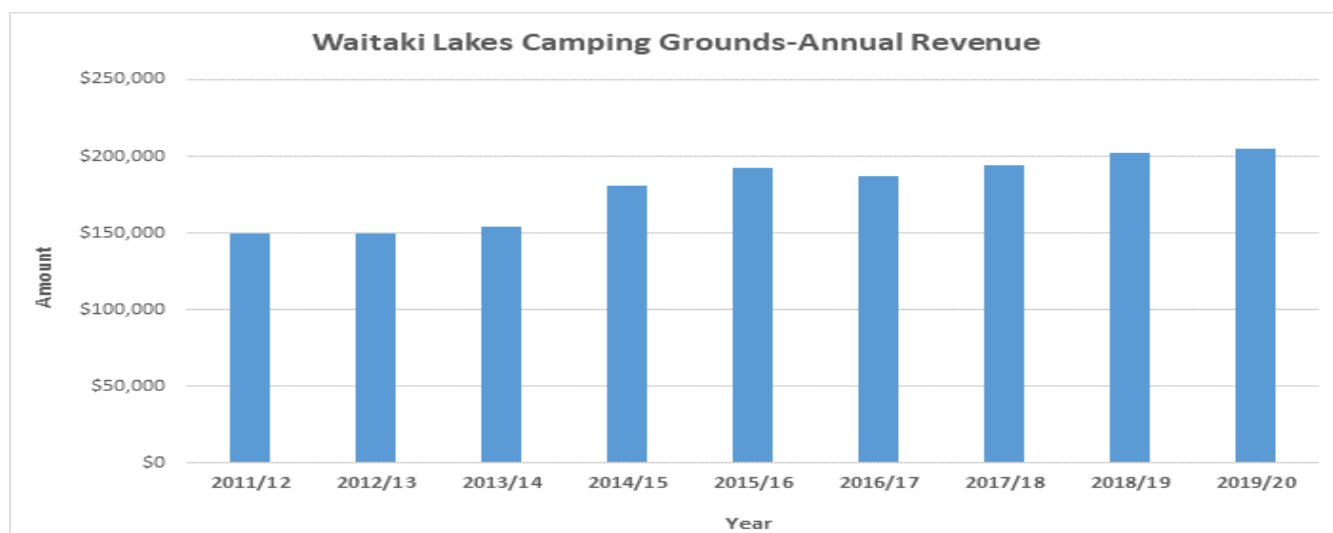
	2010/1 1	2011/1 2	2012/1 3	2013/1 4	2014/1 5	2015/1 6	2016/1 7	2017/1 8	2018/1 9	2019/2 0
Adult	2850	3650	3550	3800	3265	3171	3023	3096	3296	2703
Child	2850	2850	3000	3000	2823	2784	2523	2356	3480	4174
Swimming Clubs	3200	2700	2200	2450	2600	2700	2700	2026	2641	2324
Schools	3550	3850	3350	3750	3130	2900	3120	2863	3212	2834
Other users					500	500	500	1009	1393	1401
Total	12450	13050	12100	13000	12318	12055	11866	11350	14022	13436

Table 1: Swimming Pool Attendance Numbers

WAITAKI LAKES

27. All Lakes Camping facilities closed on 23 March 2020 due to Covid-19 Lockdown. The supervisor stayed on site to supervise the remaining caravans left on site (over 200 caravans).

28. Income was slightly up compared to last season as the camp was closed six weeks early (including Easter).



Graph 2: Waitaki Lakes Camping Grounds – Annual Revenue

Year	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
Annual Revenue	\$150,000	\$150,000	\$154,500	\$180,783	\$192,464	\$187,393	\$193,875	\$202,093	\$204,600

Table 2: Waitaki Lakes Camping Grounds – Annual Revenue

29. New water taps and piping along with chlorine dosing set up has been completed at the Waitangi Reserve Camp.
30. Te Akatarawa Reserve will have a chlorine dosing set up in operation by the opening of the 2020/21 season with only minor works yet to be completed.
31. Prices for new fencing for Waitangi Reserve and Te Akatarawa Reserve camps are being called for, along with flooring covering for the toilet facilities. This will make for more hygienic and easier cleaning of the floor surface.
32. New concrete pads will be laid for the recycling and waste enclosures.

RECOMMENDATION

That the Management Report – Parks and Reserves is accepted.

Quarterly Projects Report
1 April 2020 to 30 June 2020

Parks and Reserves

Financial Year	Project	Project Description	Budget	Spend to Date	% Complete	Status		Comments / Issues / Risks / Reasons
						Time	Budget	
2015/16 (carry forward)	Cemetery - replace workshop/office/toilet	Build new workshop and small office plus new unisex toilet in the new part of the Waimate cemetery	\$50,000	\$39,531	85%			Workshop and office complete. Remaining budget may restrict the construction of a public toilet. Plans are being developed in conjunction with the Utilities unit to allow for a wastewater connection.
2019/20	Cemetery - Concrete storage large bins	Bins for storing topsoil and shingle	\$10,000	\$0	2%			New plans and prices still to be finalised.
2019/20	Swimming pool - Heating channel in main pool		\$30,000	\$16,138	55%			The main channel has been completed but minor works (re-sealing the outside edge of the pool) is still to be completed by the start of the 2020/21 swimming season.
2017/18 (carry forward)	Waitaki Lakes - new signs	New camping ground signage at each camp ground	\$4,000	\$0	0%			To be completed in conjunction with economic development feedback. Signs to be uniform across the district.
2019/20	Waitaki Lakes Pipe Renewal	Programmed water reticulation renewal (for campers water supply)	\$10,000	\$2,000	20%			New piping and taps installed with more to be added before the camping season 2020/21.
2019/20	Waitaki Lakes - Chlorine Dosing UV	Increase water quality standard at Te Aka and Waitangi camps.	\$79,000	\$48,340	62%			<i>Te Akatarawa Reserve will have a chlorine dosing set up in operation by the opening of the 2020/21 season with only minor works yet to be completed.</i>
2018/19 (carry forward)	Victoria Park Camp - Driveway Reseal	Programmed maintenance - preparation work	\$8,000	\$0	5%			Working on project with Council Roding Group, Preparations for sealing are planned for the summer period.
2018/19 (carry forward)	Victoria Park Camp - Driveway Reseal	Programmed maintenance - reseal work	\$25,000	\$0	5%			Working on project with Council Roding Group, resealing will be carried out in the summer months.
2019/20	Victoria Park - Pavilion Upgrade	Demolition of old pavilion and building of new covered area	\$130,000	\$131,147	95%			Demolition complete as at 8/11/19. New structure will be completed by mid January 2020. Seating and sealing have installed.
2019/20	Victoria Park - Picnic Tables		\$5,000	\$5,580	100%			Picnic tables have been installed May 2020
2019/20	Victoria Park - Bench Seats		\$10,000	\$10,200	100%			Bench seating have been installed May 2020
2019/20	Victoria Park - Small tilt trailer		\$10,000	\$0	0%			New plans and prices are still to be finalised.
2018/19 (carry forward)	Knottingley Park - Driveway Reseal	Programmed maintenance	\$25,000	\$0	5%			Working on project with Council Roding Group, preparations was completed June 2020, awaiting sealing in the summer months.
2019/20	Knottingley Park - Geogrid Matting	Matting to assist with drainage at parking locations near the cricket grounds	\$30,000	\$0	0%			Due to Covid-19 this project was delayed, this will commence in the summer months.
2019/20	Knottingley Park - Picnic Tables and Rubbish Bins	Tables and rubbishs Bins for a variety of locations throughout the park	\$5,000	\$2,585	95%			3 Tilt rubbish bins have been purchased. Friends of Knottingley Park have installed Picnic tables and It is planned to install seating throughout the park.

Financial Year	Project	Project Description	Budget	Spend to Date	% Complete	Status		Comments / Issues / Risks / Reasons
						Time	Budget	
Planning								
2016/17 (carry forward)	Develop a renewal programme for AMPs		\$8,000	\$0	25%			Asset Management data and plans currently being updated through internal resources
2016/17 (carry forward)	Critical asset study for AMPs		\$3,000	\$0	10%			
2016/17 (carry forward)	Reserve Management Plans		\$3,000	\$13,600	95%			General Reserve Management Policies and Knottingley Park & Arboretum Reserve Management Plans adopted by Council, pending the implementation of adopted adjustments/modifications.
External projects to Council								
2016/17 (carry forward)	Morven Hall painting		\$20,000	\$0	0%			External projects to Council: Domain Board Committee are to make decisions on whether they will continue with the three projects.
2016/17 (carry forward)	Morven Hall rewiring		\$10,000	\$0	0%			
2016/17 (carry forward)	Morven Domain replacement trees		\$20,000	\$0	0%			
2017/18 (carry forward)	Morven Domain - electrical points		\$4,000	\$0	0%			

Status Key:

On track with time/budget for completion within the plan year

High risk (budget and/or timeframe)

Some risk (budget and/or timeframe) - highlight issues in comments

Not started/external to Council

7.2 MANAGEMENT REPORT - ROADING**Author:** Rob Moffat, Roding Manager**Authoriser:** Dan Mitchell, Asset Group Manager**Attachments:** 1. Projects Report June 2020 Roding and Footpaths [↓](#) **PURPOSE**

- To update the District Infrastructure Committee on roding activities.

DRAINAGE MAINTENANCE

- Drainage maintenance has been undertaken on the following roads completed January to June 2020

Road/Month	Culvert 225 mm	Culvert 300 mm	Culvert 375 mm	Culvert 600 mm	New Soak Pit	Side Drain Cleaning	Surface Water Channel Cleaning	Surface Water Channel Construct ion
BUSSELLS ROAD								
Mar	6							
CENTREWOOD PARK ROAD								
Jun			14.4					
ENGELBRECHTS ROAD								
Feb								88
FISHERIES ROAD								
Jan					2			
HANNATON ROAD								
Jan								1800
LOWS ROAD								
Jan						555		2200
MAIROS ROAD								
Mar							2344	
MCLEAYS ROAD								
Mar		2.4					3200	
MORRIS ROAD								
Feb							2446	
Mar							4124	
PARKERS BUSH ROAD								
Jun			12					2624
POINT BUSH ROAD								
May		12						
RYANS ROAD								
Mar							6348	
SHERWOOD ROAD								
Jan							4364	
Feb							3095	
SPRINGBANK ROAD								
Feb							600	260
Apr								0
May	6		12	2.4				856
TRIANGLE ROAD								
Feb							2032	
WILLOWBRIDGE ROAD								
May								2566
Total	12	14.4	38.4	2.4	2	555	28553	10394

SEALED PAVEMENT MAINTENANCE

3. The following seal road repairs have been completed January to June 2020

Road /Month	Digouts m ²	Stabilisation m ²	Seal m ²	Edge Break m	Rip and Remake m ²
ANDREWS ROAD					
Mar			275		
ARCHIBALDS ROAD					
Jun				2	
BACKLINE ROAD					
Jan				28	
BAKERS ROAD					
May		37			
BARNETTS ROAD					
Mar		140			
BATHGATE ROAD					
Jan		75		55	136
BLUE CLIFFS ROAD					
Jan		123			
Mar		15	259		
Jun				4	
CRAIGMORE VALLEY ROAD					
May				12	
CROWES ROAD					
Jun		18			
ELEPHANT HILL ROAD					
Jan	18	145		33	18
FISHERIES ROAD					
Jan		17		16	
GLENNAVY-TAWAI ROAD					
Feb			27		
GRAYS CROSSING ROAD					
Feb		67			
Mar			101		
GUM TREE FLAT ROAD					
Mar		84	41		
HAKATARAMEA VALLEY ROAD					
Jan				204	
HAYMANS ROAD					
Jun	68	138			
HOLME STATION ROAD					
Jan		12		8	
HOWELLS ROAD					
Jan				13	
IKAWAI MIDDLE ROAD					
Feb		50			
Apr				2	
JOHN STREET					
Jun		26			

Road /Month	Digouts m ²	Stabilisation m ²	Seal m ²	Edge Break m	Rip and Remake m ²
LIMESTONE ROAD				2	
Jan				2	
LINDSAYS ROAD					
Mar	22	152			
May		39			
LOWER HOOK ROAD					
Feb		119			
Mar				28	
MANCHESTERS ROAD					
May		17			32
Jun				3	
MAORI ROAD					
Jan				1	
Feb			341		
MCNAMARAS ROAD					
Apr				5	
MIDDLE YARDS ROAD				2	
May				2	
MILL ROAD					
Jun		86			
MOLLOYS ROAD					
Jun	10	19			
MORVEN BEACH ROAD				1	
Feb				1	
MORVEN GLENNAVY ROAD					
Feb			476	1	
Mar		23	64		
Jun		37			
MOTUKAIKA ROAD					
Jan		108		6	
Feb					75
OLD FERRY ROAD					
Jan		41		73	14
Feb		33	61		
OLD STATION ROAD					
Mar			257		
PAKIHI ROAD					
Jun		69			
PAREORA GORGE ROAD					
Jan		30			113
Feb				12	
PAREORA RIVER ROAD					
Jan				45	
PAUL STREET					
May		99			
POINT BUSH ROAD					

Road /Month	Digouts m ²	Stabilisation m ²	Seal m ²	Edge Break m	Rip and Remake m ²
May		150	5		
RAILWAY TERRACE					
Feb			87		
RUANE STREET					
Feb			15		
SETTLEMENT ROAD				6	
Jun				6	
SHERWOOD ROAD					
Jun		242	8		
SPRINGBANK ROAD					
Feb	58				
STONE CREEK ROAD					
Feb				2	
TARA HILL ROAD					
Jan		49		27	80
TAVISTOCK ROAD					
Jun				5	
TAYLORS ROAD					
May		42			
TESCHEMAKER VALLEY RD					
Jun	19	154			
UPPER HOOK ROAD					
Feb		16			
WAIHAORUNGA BACK ROAD					
Jan		300		13	
WAIMATE HUNTER ROAD					
Feb				1	
Jun		95			
Totals	195	2865	2017	618	468

SEALED PAVEMENT RENEWAL

4. A 200 metre section of Springbank Road has be reconstructed



Photograph 1: Overlay Completed Springbank Road Otaio

SEALED WIDENING

5. Seal widening has be completed on section of Point Bush Road between Point Bush Bridge and Garlands Road.



Photograph 2: Seal Widening Point Bush Road

METALLING

6. Extensive Metalling has been undertaken in May and June following Level 4 lockdown as seal repairs had been difficult to complete due to weather conditions.
7. Major build of the metal depth has been completed on sections of Hillboro and Corrighalls Roads.
8. Metalling has been undertaken on the following roads January to June 2020:

Road	Start Name	End Name	m ³	Length km
ANDERSONS ROAD	CAIRD ROAD	DAVISON'S ROAD	34	part
ARCHIBALDS ROAD	COONEYS ROAD	MORVEN GLENNAVY ROAD	80	1.8
ARMSTRONGS ROAD	SERPENTINE VALLEY ROAD	WAIHAORUNGA ROAD	30	part
BACKLINE ROAD	MIDDLE YARDS ROAD	GOVERNMENT TRACK	68	part
BACKLINE ROAD	SODWALL ROAD	END OF SEAL	204	4.8
BELLS ROAD	WILKINS ROAD	HOOK SCHOOL ROAD	125	2.3
BROWNLEAS ROAD	WAIMATE HUNTER ROAD	GUNNS ROAD	85	2.1
BUSSELLS ROAD	PAKIHI ROAD	MAKIKIHI HUNTER ROAD	131	3.0
CARROLLS ROAD	SH 1	START OF SEAL	51	1.2
CENTRE STREET	SHORT STREET	WALES STREET	12	0.2
CENTREWOOD PARK ROAD	PARKERS BUSH ROAD		51	part
CLARKESFIELD ROAD	ELEPHANT HILL ROAD	GRASSY HILLS ROAD	96	part
COCK AND HEN ROAD	IKAWAI MIDDLE ROAD	TAWAI-IKAWAI ROAD	68	1.5
Include build up section	END OF SEAL	HOMESTEAD ROAD	474	6.4
CORRIGANS ROAD	DEEP CREEK ROAD	ADAMSONS ROAD	80	2.0
D'AUVERGNES ROAD	HIGHWAY ROAD	HOOK SCHOOL ROAD	85	1.4
DEEP CREEK ROAD	SH 82	CORRIGANS ROAD	34	0.5
DOG KENNEL ROAD	END OF SEAL	PIKES POINT ROAD	48	part
DUNBARS ROAD	SH 82	MOLLOYS ROAD	64	1.6
ELEPHANT HILL BACK RD	ELEPHANT HILL ROAD	SERPENTINE VALLEY ROAD	202	4.7
ELEPHANT HILL ROAD	REDCLIFF BACK ROAD	CLARKESFIELD ROAD	237	4.8
ESK VALLEY ROAD	END OF SEAL	HENDRYS ROAD	119	1.0
FARM ROAD	END OF SEAL	UNKNOWN	119	2.2
FERRY ROAD	GLENNAVY-TAWAI ROAD	ROSS ROAD	102	1.5
FITZMAURICE ROAD	HUNTS ROAD	COURTS ROAD	31	0.6
FITZMAURICE ROAD	COURTS ROAD	WHITNEYS ROAD	54	1.1
FLEMINGS ROAD	END OF SEAL	PIKES POINT ROAD	32	0.7
GARLANDS ROAD	MILL ROAD	END OF SEAL	47	0.9
GORMANS ROAD	HAKATARAMEA PASS ROAD	HIGHLAND FARM SETTLEMENT	290	3.7
GORMANS ROAD	CATTLESTOP	YARDS	16	part
GUNNS BUSH ROAD	UPPER HOOK ROAD	CAMP	42	0.5
GUNNS ROAD	WAIMATE HUNTER ROAD	AKATERE ROAD	69	1.1
GUNNS ROAD	AKATERE ROAD	BROWNLEAS ROAD	84	1.3
HAKATARAMEA PASS ROAD	GORMANS ROAD	HAKA PASS	1117	24.1
HAKATARAMEA VALLEY ROAD	SCOTTS BRIDGE ROAD	GORMANS ROAD	267	2.7
HALF CHAIN ROAD	SH 1	HANNATON ROAD	85	1.8
HANNATON ROAD	POINGDESTRES ROAD	END OF MAINTENANCE	56	1.0
HENDRYS ROAD	BLUE CLIFFS ROAD	ESK VALLEY ROAD	34	FALSE

Road	Start Name	End Name	m ³	Length km
ANDERSONS ROAD	CAIRD ROAD	DAVISON'S ROAD	34	part
ARCHIBALD'S ROAD	COONEYS ROAD	MORVEN GLENNAVY ROAD	80	1.8
ARMSTRONGS ROAD	SERPENTINE VALLEY ROAD	WAIHAORUNGA ROAD	30	part
BACKLINE ROAD	MIDDLE YARDS ROAD	GOVERNMENT TRACK	68	part
JACKSONS BUSH ROAD	WAIMATE HUNTER ROAD	MILNES ROAD	136	part
KAPUA SCHOOL ROAD	SH 82		51	1.0
HILLBORO Road includes Build up Sections	Otaio River Road	Woolshed Valley Road	861	4.4
KINGSBURY ROAD	SH 1	LOWER HOOK ROAD	34	part
LINNFIELD ROAD	UPPER HOOK ROAD	DAIRY FARM ENTRANCE	85	0.3
LYALL ROAD	LYALLDALE MIDDLE ROAD	SH 1	32	part
MAIROS ROAD	COONEYS ROAD	MORVEN GLENNAVY ROAD	68	1.2
MAIROS ROAD	MORVEN GLENNAVY ROAD	BEND IN ROAD	34	part
MCALWEES CROSSING	GORDONS ROAD	BLUE CLIFFS ROAD	51	1.2
MCHENRYS ROAD	END OF SEAL	START OF SEAL	288	3.7
MCHENRYS ROAD	MEYERS PASS ROAD HAKATARAMEA VALLEY ROAD	END OF MAINTENANCE	136	1.7
MCKAYS ROAD			68	1.7
MCLEAYS ROAD	SH 1	CROWES ROAD	64	1.6
MCNAUGHTONS ROAD	SH 1	START OF SEAL	34	0.5
MCNAUGHTONS ROAD	END OF SEAL	PIKES POINT ROAD	85	1.9
MENZIES ROAD	SCOTTS BRIDGE ROAD	COCHRANES ROAD	144	2.5
MEYERS PASS ROAD	PENTLAND HILLS ROAD	POWELLS ROAD	14	part
MEYERS PASS ROAD	HURSTLEA ROAD	MCHENRYS ROAD	142	3.2
MOORLAND FARM SETTLEMENT	HAKA DOWNS RD	END	160	3.2
MORRIS ROAD	MORVEN GLENNAVY ROAD	BLAIR ROAD	137	2.9
MORRIS ROAD	BLAIR ROAD	END OF MAINTENANCE	50	1.1
MT HARRIS RD			208	4.4
MT STUDHOLME ROAD	UPPER HOOK ROAD	GATE	14	part
NOLANS ROAD	END OF SEAL	SHERWOOD ROAD	85	2.7
O'BRIENS ROAD	LYALL ROAD	TALBOTS RD	128	3.0
OLD SLIP ROAD	END OF SEAL	GATE	67	0.7
PATERSONS ROAD	MIDDLE YARDS ROAD	COLLIERS ROAD	16	part
PENTLAND HILLS ROAD			112	2.3
PIKES POINT ROAD	END OF SEAL	OLD FERRY	666	13.8
QUAMBYS ROAD	WAIHAORUNGA ROAD	ALLANHOLME ROAD	40	part
RATTRAYS ROAD	LOWER HOOK ROAD	ADAMSONS ROAD	214	2.6
REGENT STREET	END OF SEAL	CARLISLE STREET	18	0.1
RODGERS ROAD	SH 1	SHERWOOD ROAD	80	2.0
RYANS ROAD	END OF SEAL HAKATARAMEA VALLEY ROAD	DAIRY SHED ENTRANCE MOORLAND SETTLEMENT ROAD	209	2.7
SCOTTS BRIDGE ROAD			40	0.9
SHERWOOD ROAD	END OF SEAL	GIBSON ROAD	37.34	1.0
SHERWOOD ROAD	GIBSON ROAD	NOLANS ROAD	37.33	0.5
SHERWOOD ROAD	NOLANS ROAD	WAIMATE HUNTER	173.33	2.9
SHORT STREET	HUNTS ROAD	CENTRE STREET	6	0.1
SLAUGHTERYARD ROAD	MCNAMARAS ROAD	MANCHESTERS ROAD	49	1.0
SPRINGBANK ROAD	END OF SEAL	HILLBORO ROAD	6	part

Road	Start Name	End Name	m ³	Length km
ANDERSONS ROAD	CAIRD ROAD	DAVISON'S ROAD	34	part
ARCHIBALDS ROAD	COONEYS ROAD	MORVEN GLENVAY ROAD	80	1.8
ARMSTRONGS ROAD	SERPENTINE VALLEY ROAD	WAIHAORUNGA ROAD	30	part
BACKLINE ROAD	MIDDLE YARDS ROAD	GOVERNMENT TRACK	68	part
STUDHOLME SET'MENT RD	WAIHAO BACK ROAD	END OF ROAD (GATE)	90	0.9
THORNTONS ROAD	IKAWAI MIDDLE ROAD	TAWAI IKAWAI ROAD	64	1.4
TRIANGLE ROAD	ENGELBRECHTS ROAD	WAIMATE HUNTER ROAD	85	1.9
UPPER HOOK ROAD	END OF SEAL	MT STUDHOLME ROAD	43	1.4
UPPER HOOK ROAD	MT STUDHOLME ROAD	START OF SEAL	43	0.6
URETANE ROAD	WAIHAO BACH ROAD	DICKSON ROAD	64	1.3
URETANE ROAD	DICKSON ROAD	GRAYS ROAD	64	1.8
WAIHAORUNGA ROAD	QUAMBYS ROAD	ARMSTRONGS ROAD	42.5	part
WAIHAORUNGA ROAD	ARMSTRONGS ROAD	SERPENTINE VALLEY ROAD	42.5	part
WAINS CROSSING ROAD	WAIHAO BACK ROAD	PAULS ROAD	34	0.7
WAINS CROSSING ROAD	PAULS ROAD	END OF ROAD	34	0.8
WALES STREET	HUNTS ROAD	CENTRE STREET	6	0.1
WILKINS ROAD	HOOK SCHOOL ROAD	BELLS ROAD	66	1.1
WILLOWBRIDGE ROAD	FAULKNER'S ROAD	CROWES ROAD	102	1.5
WILSONS ROAD	YOUNGS ROAD	LOWER HOOK ROAD	68	1.5
YARDS ROAD	RITCHIES ROAD	GATE	51	0.7
YOUNGS ROAD	HERTSLETS ROAD	LOWER HOOK ROAD	34	0.7
ZIG ZAG ROAD	SERPENTINE VALLEY ROAD	END OF ROAD	187	part
			10823	171.6

CONCRETE FORD REPAIRS

9. The Concrete Ford on Bussells Road has had a 6m section replaced and a new culvert installed.
10. The concrete apron on Grays Crossing ford for has been repaired.

SIGNS

11. Signage in the St Andrews Holme Station Area is still being damaged and vandalised. This included recently installed folding ice warning signs and speed and ford warning signs at Holme Station corner.
12. New folding signs been installed at the Hakataramea Township and Round Hill Station to advise of Hakataramea Pass Route closure.

CONCRETE FORD RENEWAL

13. The damaged Concrete Ford on Back Line Road at the intersection with Daledew Road has been replaced with a new 30m long 6 m wide concrete apron. The ford includes a 1m x 300mm box culvert for low river flows. The culvert has removable lids to allow easily cleaning if blocked with gravel.



Photograph 3: Backline Road concrete ford box culvert.



Photograph 4: Backline Road concrete apron.

BRIDGES

14. Brasells Bridge Pareora River. The seven unpainted steel spans have been cleaned and painted. Handrail and kerbs have also been repaired and cleaned.
15. Frazers Bridge Menzies Road Hakataramea Valley. New Abutments have been constructed and a replacement superstructure installed. The bridge and deck are materials recovered from the SH 82 Waitaki Bridges.



Photograph 5: Frazers Bridge New abutment.



Photograph 6: Frazers Bridge replacement superstructure



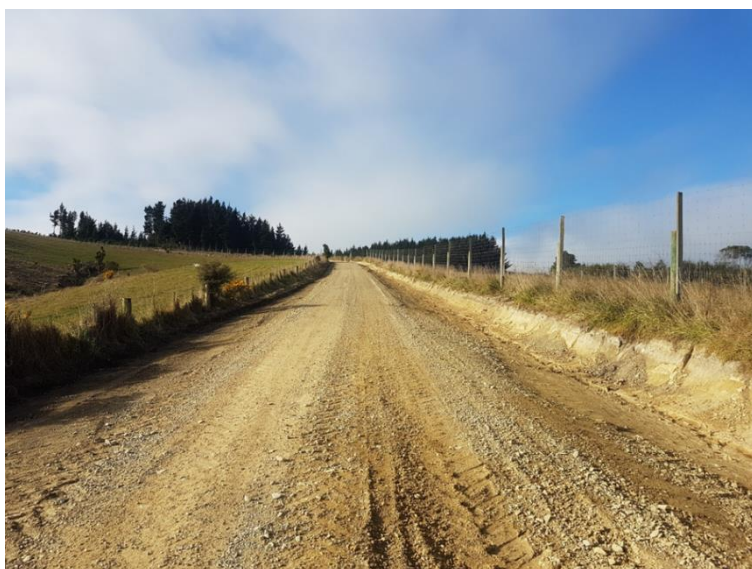
Photograph 7: Brasells Bridge Steel Painting

PARKERS BUSH ROAD/CENTREWOOD PARK ROAD IMPROVEMENT

16. The first 100m of Centrewood Park Road has been regraded and the old cattle stop foundations removed.
17. The left side of the approach to the intersection has been widened and vegetation removed.
18. The traffic priority of the intersection has been changed by installing a give way sign on Parkers Bush Road. This will relieve the issue of vehicles on the steep gradient of Centrewood Park Road having to give way.
19. The hill section (first 600m) of Centrewood Park Road and Parkers has had side drainage improvement and two new culverts installed to prevent scour damage.



Photograph 8: Parkers Bush Centre Wood Park Road Intersection



Photograph 9: Centre Wood Park Road Drainage improvements

RAMM ROUGHNESS SURVEY

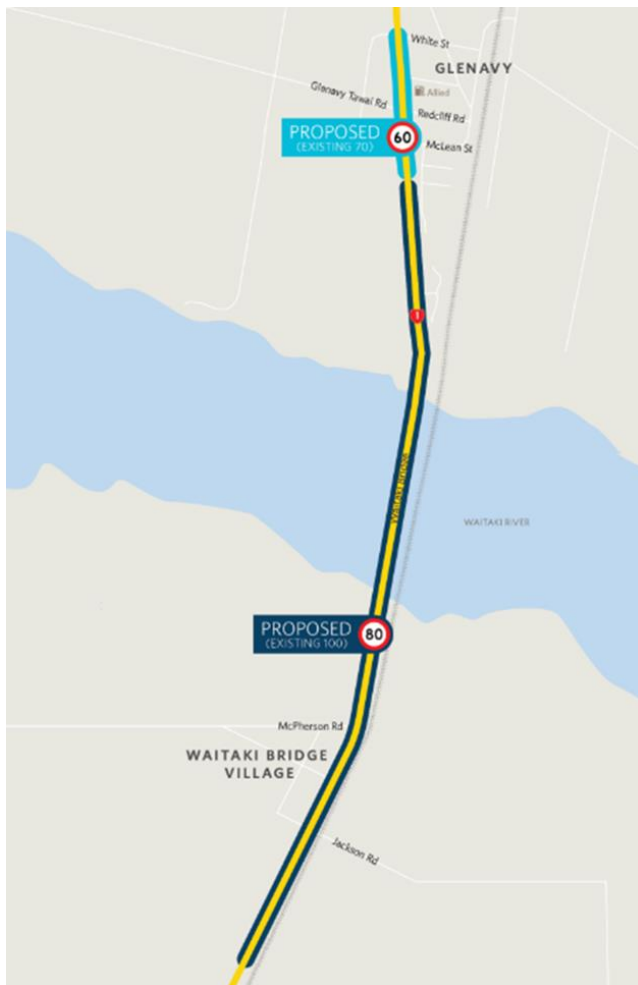
20. The biennial Road Assessment and Maintenance Management (RAMM) roughness survey of sealed roads has been completed by Chris Shaw Consulting Ltd.
21. This information is used to report to NZTA and as a council performance measure.
22. Smooth Travel Exposure is a customer outcome measure indicating 'ride quality'. It is an indication of the percentage of vehicle kilometres travelled on a road network with roughness below a defined upper threshold level. The threshold varies depending on the traffic volume band and urban/rural environment of the road.
23. The results show a small improvement in 'the average ride quality'

Smooth Travel Exposure Waimate District

Urban/Rural	Vehicles per day	NAASRA Reading	2017-18	2019-20
Urban	VPD<500	(NAASRA<=180)	95%	94%
Urban	VPD 500-3999	(NAASRA<=150)	65%	75%
Urban	All	Smooth Roads	98%	99%
Rural	VPD>=1000	(NAASRA<=130)	98%	97%
Rural	All	Smooth Roads	98%	98%
All Roads	Urban	Smooth Roads	79%	84%
All Roads	Rural	Smooth Roads	98%	98%
All Roads	Both	Smooth Roads	95%	96%

SH1 GLENNAVY / WAITAKI BRIDGE SPEED MANAGEMENT

24. Waka Kotahi NZ Transport Agency have advised that the proposed SH1 Glenavy Speed management changes will proceed and will be gazetted on 18 September 2020. As the physical works to change the speed limit will require road marking the earliest this work could be planned to commence is late August 2020.
25. The existing 70km/h area, from 120m north of White Street to 240m south of Redcliff Road - 0.6km, will be 60km/hr.
26. The existing 100km/hr, south of Glenavy from 240m south of Redcliff Road to 330m south of Jackson Road in the Waitaki District, will be 80km/hr.



SH1 Glenavy Speed management changes

COVID-19

27. The only physical work undertaken during the Level 4 lockdown period 25 March to 27 April was street cleaning, incident response and safety inspections.
28. Physical work recommenced at Level 3 on Springbank Road Overlay, Point Bush Road seal widening, seal repairs and metalling.
29. Roding Unit staff worked from home during Level 4 & 3. Only one staff member was able to complete normal working hours.

ROADING OFFICER

30. Scott Workman has been appointed to the position of Roding Officer, and commenced on 24 June 2020. This fills the vacancy from 12 March 2020 caused by the resignation of incumbent.

ROADING SUBSIDISED EXPENDITURE TO 30 JUNE 2020

WC	Activities/Programmes	FAR	Total cost	NLTA share	Expenditure to date for claim
Emergency works and Preventive Maintenance					
141	Flood November 2018	60	\$38,459	\$23,075	\$38,459
Local road maintenance - Local Roads					
111	Sealed pavement maintenance	60	\$570,810	\$342,486	\$496,867
112	Unsealed pavement maintenance	60	\$310,000	\$186,000	\$342,076
113	Routine drainage maintenance	60	\$350,000	\$210,000	\$357,849
114	Structures maintenance	60	\$150,000	\$90,000	\$141,225
121	Environmental maintenance	60	\$200,000	\$120,000	\$177,825
122	Traffic services maintenance	60	\$145,000	\$87,000	\$140,502
125	Footpath Maintenance	60	\$205,422	\$123,253	\$206,192
131	Level crossing warning devices	60	\$10,000	\$6,000	\$9,970
151	Network and asset management	60	\$460,000	\$276,000	\$420,678
211	Unsealed road metalling	60	\$350,000	\$210,000	\$446,660
212	Sealed road resurfacing	60	\$1,278,000	\$766,800	\$1,235,868
213	Drainage renewals	60	\$480,000	\$288,000	\$386,493
214	Sealed road pavement rehabilitation	60	\$308,000	\$184,800	\$244,300
215	Structures component replacements	60	\$155,000	\$93,000	\$93,339
222	Traffic services renewals	60	\$60,000	\$36,000	\$80,369
Total Maintenance Local Roads			\$5,032,232	\$3,019,339	\$4,780,215
324	Accelerated LED Street Light Renewal-Implementation	85	\$250,750	\$213,138	\$0
341	Minor improvements Local Roads	60	\$839,086	\$503,452	\$161,718
Total Local Roads improvement			\$1,089,836	\$716,589	\$161,718
Total Programme			\$6,160,527	\$3,759,004	\$4,980,393

REQUESTS FOR ACTION

Meeting	Date	Officer	Title	Target
District Infrastructure Committee	13/03/2018	Rob Moffat	Street Lighting Extension: Staff to provide a report on costings of street lighting in the new urban areas of Waimate and Glenavy. In progress	Early 2019
Notes Roading Unit are preparing documents for the LED light renewal and then the Street light extension.				

RECOMMENDATION

That the Management Report – Roading is accepted.

Projects Report

1 April 2020 to 30 June 2020

Roothing and Footpaths

On track with time/budget for completion within the plan year
High risk (budget and/or timeframe)
Some risk (budget and/or timeframe) - highlight issues in comments

Project	Project Description	Budget	Spend to Date	% Complete	Status		Comments / Issues / Risks / Reasons
					Time	% Budget	
Drainage Renewals Subsidised							
Drainage Construction	Construction of new surface drainage asset	\$199,364	\$250,793	40%	<div></div>	126%	
Culvert Renewal	Renewal of installation of culverts	\$108,941	\$75,975	25%	<div></div>	70%	
Kerb & Channel Renewal	Replacement of Kerb & Channel renewal and sumps	\$125,706	\$6,089	5%	<div></div>	5%	
Concrete Ford Renewal	Concrete ford renewal	\$45,990	\$53,606	117%	<div></div>	117%	Backline Road Concrete Ford near Daledew Road replaced
		\$480,001	\$386,463	81%			
Other Capital Projects Subsidised							
Sealed Road Resurfacing	Chip seals have a limited useful life. Resealing is programmed on an as needed basis to arrest and prevent the deterioration of the road surface	\$1,278,000	\$1,235,868	97%	<div></div>	97%	Timaru, Waimate and Mackenzie Road Resurfacing Contract. Programme complete
Pavement Rehabilitation	Replacement / Restoration of strength to pavement	\$308,000	\$244,300	15%	<div></div>	79%	Hakataramea Valley & Pareora River Road and Springbank Road Overlay completed
Structures component replacement	Bridge upgrade, deck, beam replacement etc.	\$155,001	\$93,338	60%	<div></div>	60%	
Sign Renewal	Replace signs and edge markers	\$60,000	\$80,369	134%	<div></div>	134%	ongoing
Footpath Renewal	Replacement of footpath pavements	\$153,300	\$168,775	90%	<div></div>	110%	Footpaths in Glenavy and St Andrews under construction
Low Risk - Low Cost Improvements	Includes seal widening and safety improvements	\$330,000	\$161,718	20%	<div></div>	49%	
Low Risk - Low Cost Improvements	Bridge replacement	\$570,000	\$0	0%	<div></div>	0%	Crouches Bridge Youngs Road in planning
		\$2,854,301	\$1,984,368	70%			
Capital Projects Non Subsidised							
Development	Improvement and upgrade of infrastructure to enhance development	\$161,320	\$14,642	10%	<div></div>	9%	Includes additional street lights
Dust Seal	Council share of dust sealing (Note spend to date includes Owners Share)	\$51,100	\$16,554	0%	<div></div>	32%	advertisement for possible sites all applications completed
Minor Improvements Non subsidy	Improvement upgrade of footpath etc.	\$25,550			<div></div>	0%	
Landscaping Township entrance	Visual enhancement of township roadside entrances	\$12,000	\$2,323		<div></div>	19%	Hakataramea Valley Road, Hakataramea Township
		\$249,970	\$33,519	13%			
Non infrastructure Projects							
Procurement Strategy	The Procurement Strategy outlines the Council's approach to the procurement of goods and services for its delivery functions and is a requirement of the NZ Transport Agency for Council to receive funding				<div></div>		NZTA Approved
Roothing Activity Management Plan Improvement	Improving and updating the AMP to support the 2021-24 Long Term Plan and funding bid to NZTA				<div></div>		Current tasks - Maintenance Contract Strategy, Procurement Strategy, ONRC Performance Measures, Traffic Counting Strategy, RAMM Data Quality
Roothing Network Operations and Maintenance Contract Renewal	Plan for the renewal of the Aoraki Roothing Collaboration (ARC) maintenance contracts which expire 30 November 2019				<div></div>		Working collaboratively with ARC partners in planning the new contract.

7.3 MANAGEMENT REPORT - 3 WATERS AND SOLID WASTE

Author: Paul Roberts, Water and Waste Manager

Authoriser: Dan Mitchell, Asset Group Manager

Attachments: 1. Project Report - Water Sewerage and Waste  

PURPOSE

1. To update the District Infrastructure Committee on 3 Waters and Solid Waste activities.

COVID-19

2. The 3 Waters and Solid Waste performed well over level 4 and 3 lockdown period.
3. Outside staff in the Utilities Team were well catered for and had good procedures in place, and they performed admirably and professionally under the conditions of lockdown. Staff only kept up regular required maintenance and carried out emergency work.
4. The Utilities Team and contractors worked exceptionally hard the night before Level 4 Lockdown to get the High Street sewer between Rhodes and Harris Street repaired, to avoid issues during lockdown.
5. Metallic Sweeping also provided good service and kept basic disposal services functioning for commercial (i.e. Lister Home, street cleaners) and individuals who did not have kerbside collection. Kerbside recycling was stopped as there were handling and contact concerns for Metallic Sweeping Staff. Kerbside refuse collection continued through, and green waste was temporarily halted, but was restarted as there was no handling and health risk associated with the service.
6. The inside Asset Group staff related to 3 Waters and Solid Waste adapted to working from home quickly. However there were connectivity and speed issues.
7. Water and waste (sewer and solid) are essential services, and for the 3 Waters and Solid Waste teams it was work as usual, but in a different environment.

STORM WATER

8. The upgrade of stormwater infrastructure in Queen Street will shortly be tendered with physical works anticipated in August / September 2020.

Storm Water Consent

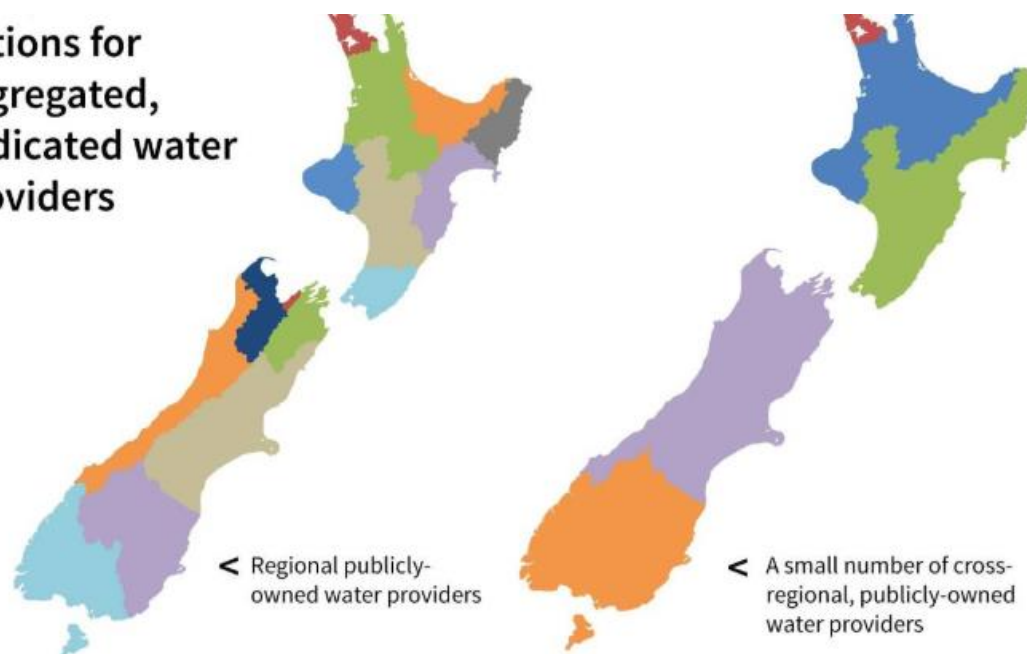
9. A Resource Consent Application to discharge stormwater onto land and into water has been submitted to Environment Canterbury, and acknowledged on 2 July 2020 for consideration of completeness.
10. This application is the continuation of previous work around the Stormwater Management Plan (SMP).
11. The SMP details the options to manage the stormwater discharges under the applied for consent, so that the receiving environment meets objectives and targets.
12. These objectives and targets, will be used as performance measures to indicate compliance and environmental health and protection.

WATER

Government Announcement

13. The Government announced on 8 July 2020 its \$761 million package for upgrading works in the water sector, to help meet the Drinking Water Standards of New Zealand.
14. This package comes with conditions. Councils will only receive monies for upgrading if they agree to the Government's reform plans, which includes that Council water supplies aggregate into larger publicly owned regional entities.

options for aggregated, dedicated water providers



15. Funds will be allocated based on population and area, to those authorities that agree to the Government's plans, with money split equally across the country between urban and rural or provincial communities.
16. Waimate District Council staff have already been involved with investigation into aggregation at a South Canterbury level. However this may not be enough of a scale change for the Government, as they are looking at larger entities as portrayed above.
17. There are pros and cons in aggregation for the Waimate District.
18. Pros will be the resourcing of staff and funding to achieve capital works, renewals and compliance with the Drinking Water Standards of New Zealand.
19. The cons will be the loss of skilled in house staff at the Waimate District Council, and the potential for those staff members to leave the district altogether.
20. Other impacts include the complete review of the internal overhead model. The three waters contribute significantly to this distribution of overhead.
21. There is also a potential for the level of service and quality of maintenance to suffer, if reticulation maintenance is contracted out, or there is not a satellite depot in the Waimate District.
22. Another con is the size of the Waimate District compared to the other parties in the Canterbury and Upper South Island area. This could mean the districts voice being lost when it comes to capital works and development in the area.
23. Staff will continue to work through the aggregation options available for Canterbury, and perhaps north of the Waitaki River. The short term gain associated with co-funding of upgrades should also be viewed with the long term operational costs associated with a larger entity. There is no doubt that the outcome of this work will require significant Council input and decision making between now and the end of the calendar year.

24. However, it needs to be understood that whether there is aggregation or not, the cost of water delivered to the consumer will go up to pay for all required infrastructure, and processes to supply safe and compliant drinking water to any district in New Zealand. This is a requirement under the Drinking Water Standards for New Zealand 2005 (Revised 2018) and the Health and Drinking Water Amendment Act and will be actively policed by the new regulator.

RURAL WATER

Lower Waihao Intake and Waitaki River Bank Erosion

25. Staff have continued to monitor the erosion of the Waitaki River bank 500 metres up from the Lower Waihao Intake Plant.
26. The initial erosion was noted on 20 December 2019, when peak flows reached 1,190 cubic metres per second on 8 December 2019.
27. During Level 4 lockdown the erosion of the river bank has continued taking more land and moving towards Ross Road and east. Photograph 1 shows the extent of the erosion. The photo was taken on the 8 April 2020 from a drone flown by Arjan Van't Klooster.
28. On 3 July 2020, a site meeting was called by Environment Canterbury to assess the damage and discuss stabilisation works and costs.



Photograph 1: Extent of erosion 8 April 2020



Photograph 2: Site visit with Environment Canterbury 3 July 2020

29. At the site meeting the proposed works were discussed. This included strengthening of diversion bars, construction of 8 groynes (300 tonnes of material each) at 30 metres separation along the newly cut river bank, and the eroded bank will be battered.
30. ECan will report back on funding options that will be available. Costs are typically expected to be shared between the adjacent landowners in this circumstance.

WASTE WATER

Contract 19/23 High Street Sewer Renewal

31. Replacement of 122 metres of poor condition 150mm earthenware sewer main, two manholes and 7 laterals were recently tendered. These works are located on High Street between Rhodes and Harris Street intersections where several failures had occurred prior to April 2020. Temporary repairs were completed prior to lockdown.
32. Contract 19/23 High Street Sewer Renewal was awarded to Whitestone Contracting Ltd on 22 May 2020.
33. Physical works for the renewal of the 150mm earthenware waste water main started on 8 June 2020.
34. All digging and installation of new pipe main and laterals (PVC), manholes and laterals has been completed.
35. Resealing of the trenching is yet to be completed and will be done when there is warmer weather for sealing.



Photograph 3 & 4: High Street Sewer Renewal

Treatment Plant

- 36. The sludge survey work on the waste water maturation ponds has been carried out and completed by Concrete Treatment NZ Limited.
- 37. The survey was only carried out on Ponds 1 and 2.
- 38. In the survey it found that Pond 1 had the greater amount of sludge build up, and that there is sufficient build up to start planning a sludge removal programme for Pond 1.
- 39. A detailed report and findings of the Sludge Survey has already been presented to Council.
- 40. Because of the higher than expected sludge levels, a budgetary estimate/quote has been sought from Concrete Treatment NZ Limited for desludging Pond 1, as part of planning for a sludge removal programme for Pond 1.
- 41. Staff are reviewing the scope of the proposal for a peer review and will report the outcome back to Council.

SOLID WASTE**Covid-19 and Solid Waste Weights**

- 42. Covid-19 impact on solid waste was visible with the reduction of levels of service in that recycling was not collected due to manual handling over Level 4 and Level 3 on the pandemic response.
- 43. 112 tonnes of refuse was sent to landfill in April this year. 105 tonne of that was kerbside collection, which was the maximum tonnage that the district collected this financial year. The composition of the 105 kerbside tonnes included recycling that could not be collected, which would have gone into ratepayers refuse bins as requested by the Council and contractor.
- 44. However it is important to note that the 112 tonnes was the average monthly tonnage to landfill, which is up on last year's average of 105 tonnes a month to landfill, and in fact the highest overall from 2010/11.

Solid Waste Contract Renewal

- 45. The Request for Proposal for the new 15 year Solid Waste Contract has been progressing.
- 46. This Request for Proposal has been a joint procurement process with Timaru District Council, Mackenzie District Council and Waimate District Council.
- 47. Request for Proposal closed at 4pm on 10 June 2020.
- 48. The evaluation of the submitted proposal has been in process since then and overseen by Morrison and Low Consulting Ltd. Each of the three district councils has provided two evaluators to review the submitted proposals.
- 49. The evaluation is nearing the end, with a planned meeting with all councillors from the three district councils on Tuesday 21 July 2020 to discuss the evaluation process and outcomes to date.

Waste Compactor Installation

- 50. Work to install the compactor at the Resource Recovery Park continues to progress.
- 51. The new concrete slab as part of the first stage of works has been poured and the reconditioned compactor placed and fixed into position.



Photograph 5: New concrete slab and placement of the compactor



Photograph 6: Refuse delivery point into Compactor

52. The electrical supply is yet to be installed.

REQUESTS FOR ACTION

On Hold Requests

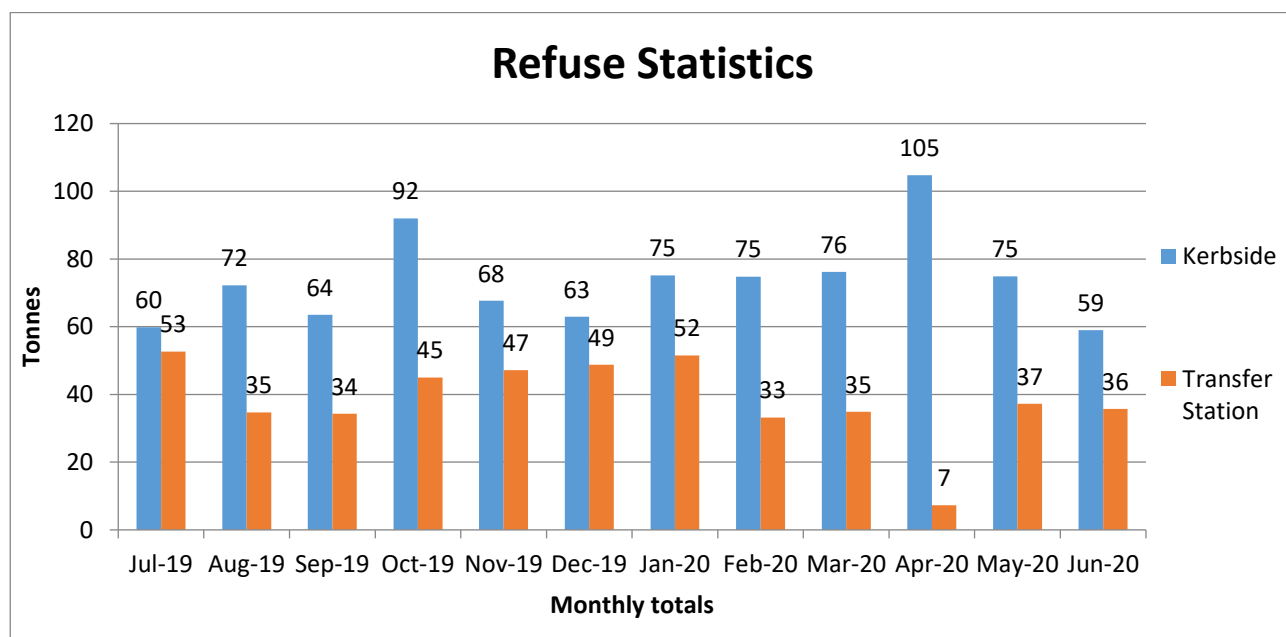
Meeting	Date	Officer	Title	Target
District Infrastructure Committee	26/01/2016	Paul Roberts	Workshop discussion on recycling and the reintroduction of a container deposit system On hold	Early 2018/19
Notes We await feedback on the consultation regarding product stewardship. Date placed on hold by the District Infrastructure Committee: 1 May 2018				

Meeting	Date	Officer	Title	Target
District Infrastructure Committee	08/03/2018	Paul Roberts	Hakataramea recycling depot On hold	Early 2018/19
Notes Subject to consultation. Date placed on hold by the District Infrastructure Committee: 1 May 2018				

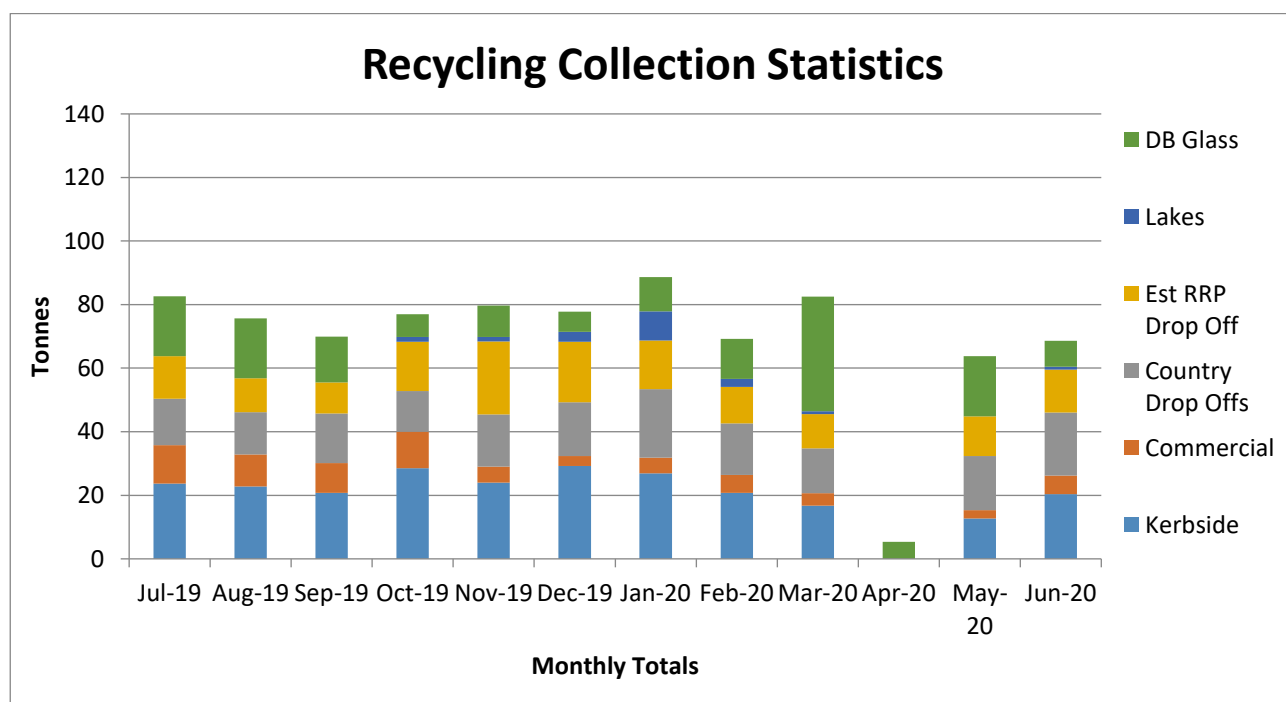
MONTHLY REFUSE and RECYCLING STATISTICS

53. These statistics represent the period up to the end of June for the 2019/20 financial year.

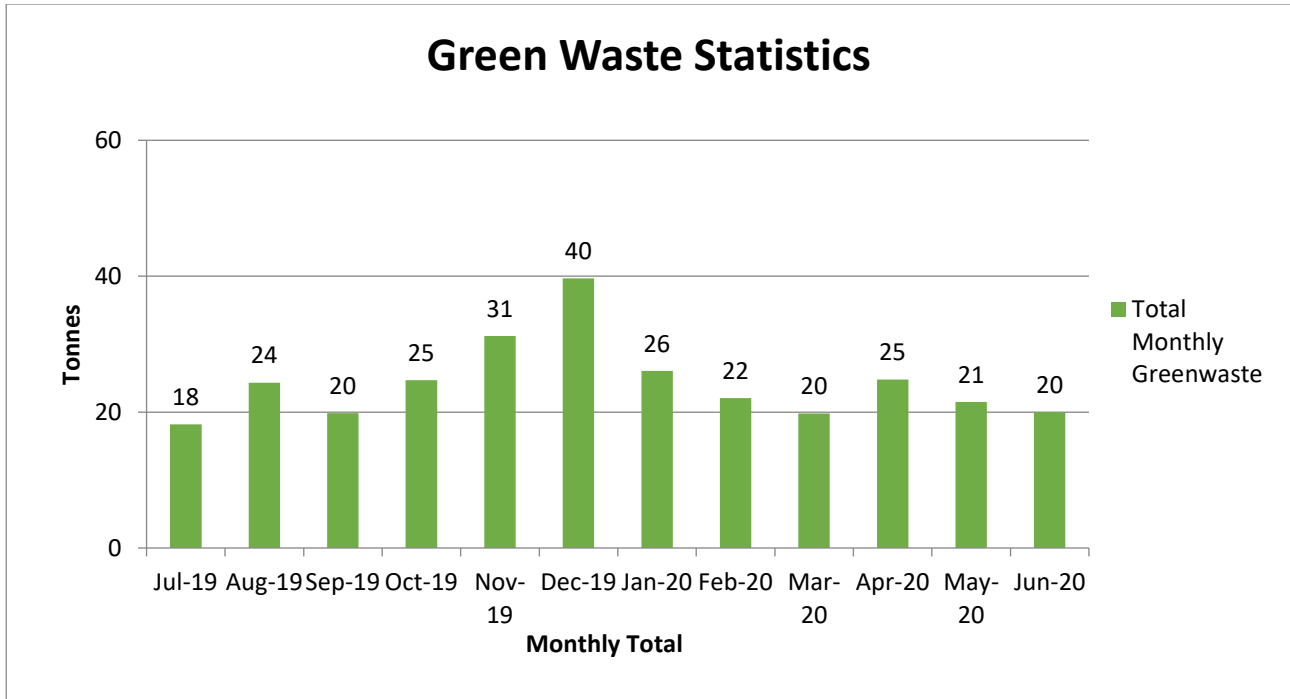
Graph 2: Refuse statistics



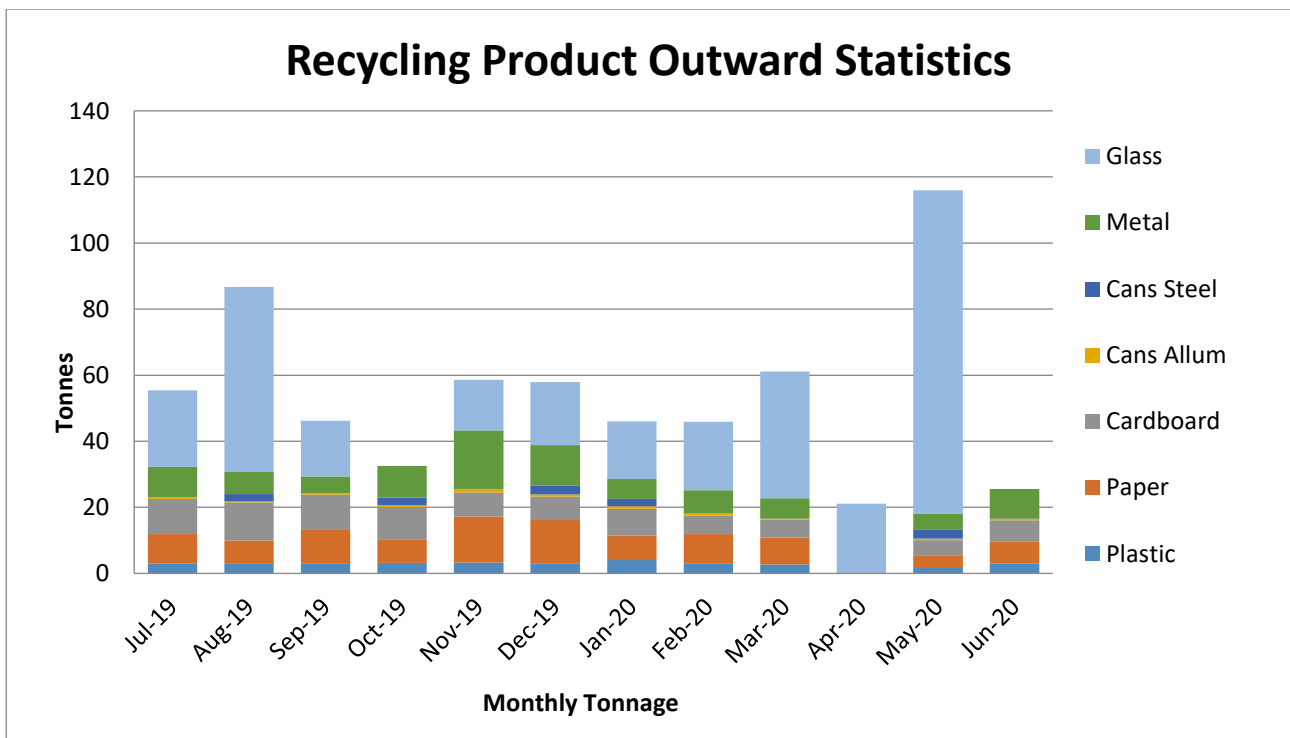
Graph 3: Recycling collection statistics



Graph 4: Green Waste statistics



Graph 5: Recycling product outward statistics



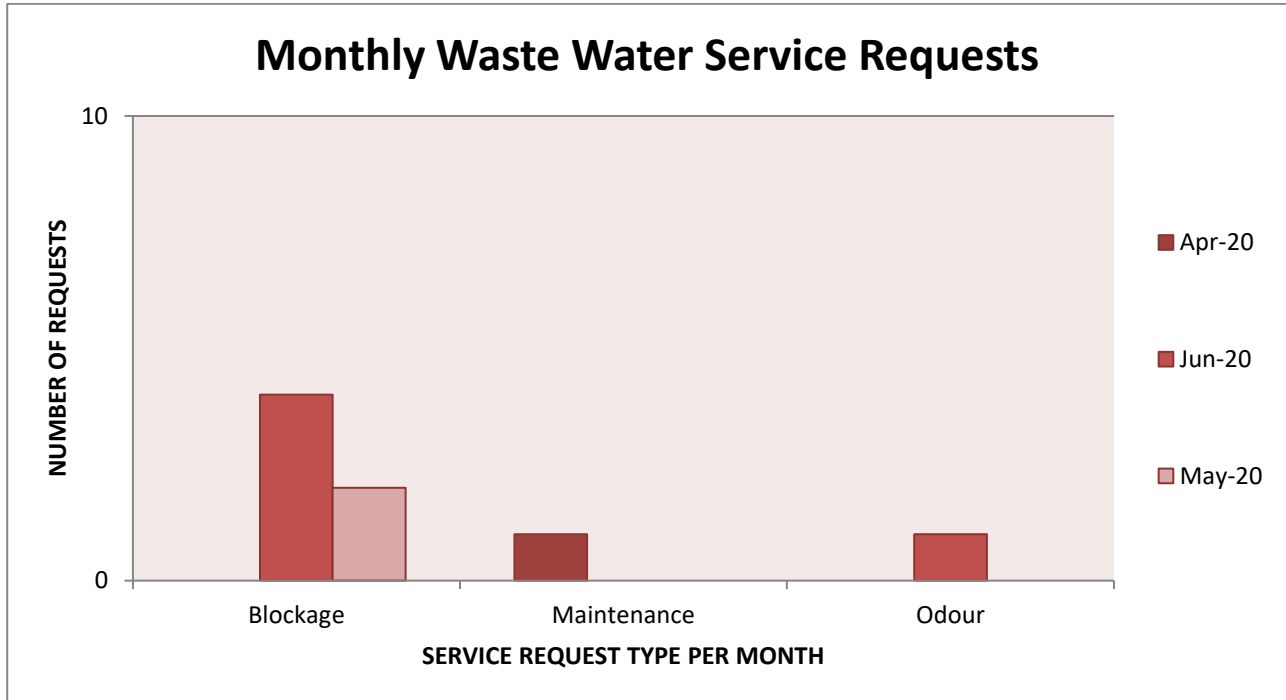
SERVICE REQUESTS

54. These statistics represent the period up to the end of June for the 2019/20 financial year.

Wastewater Service Requests

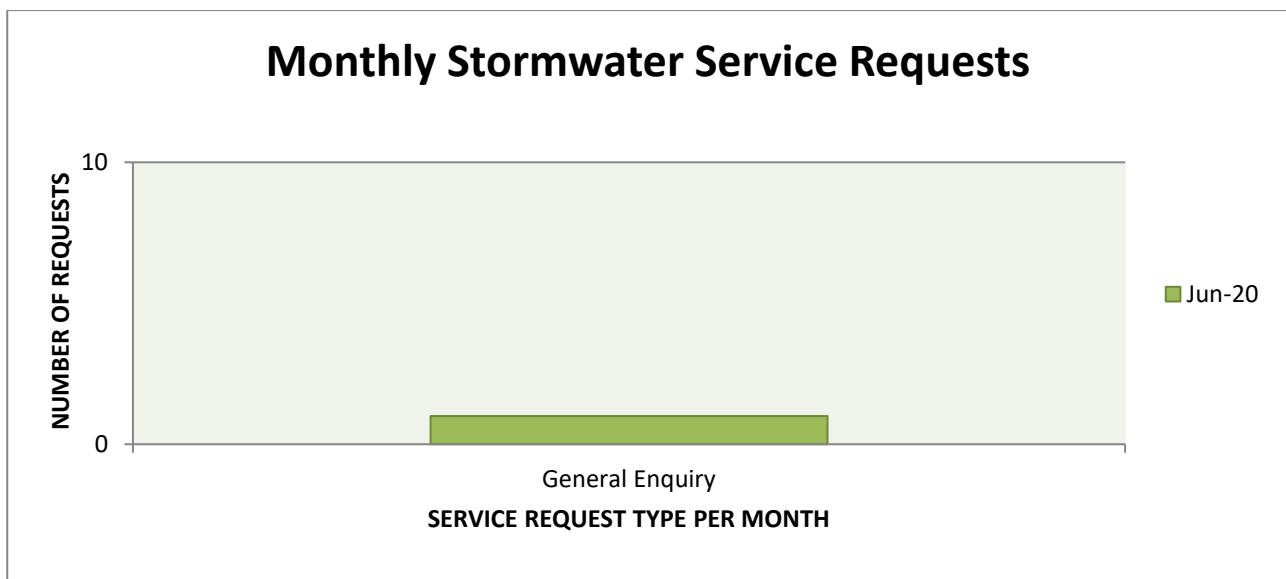
55. Wastewater Service Requests reported over 56.6km (including estimate of laterals) of sewer pipe network infrastructure and 1769 active connections.

Graph 6: Comparison with previous Wastewater Service Request monthly reporting periods

**Stormwater Service Requests**

56. Stormwater Service Requests reported over 13.3km of stormwater network infrastructure and 1769 connections.

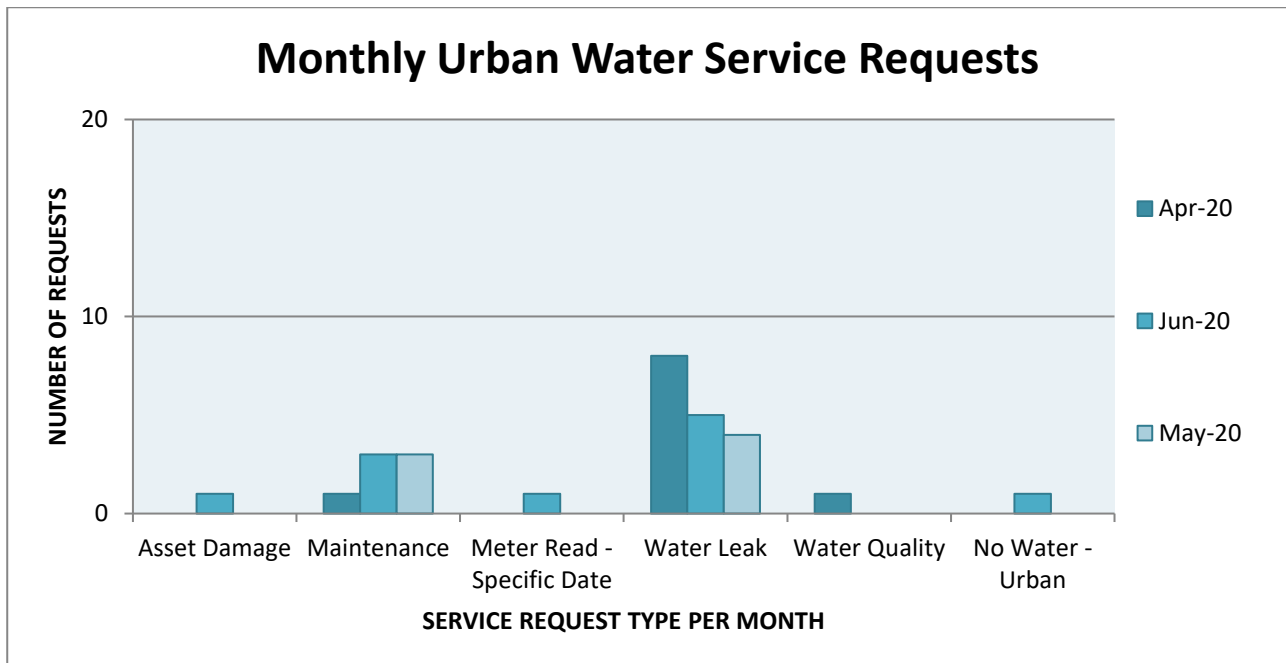
Graph 7: Comparison with previous Urban Water Service Request monthly reporting period



Urban Water Service Requests

57. Urban Water Service Requests reported over 82.7km of pipe network infrastructure and 1952 connections.

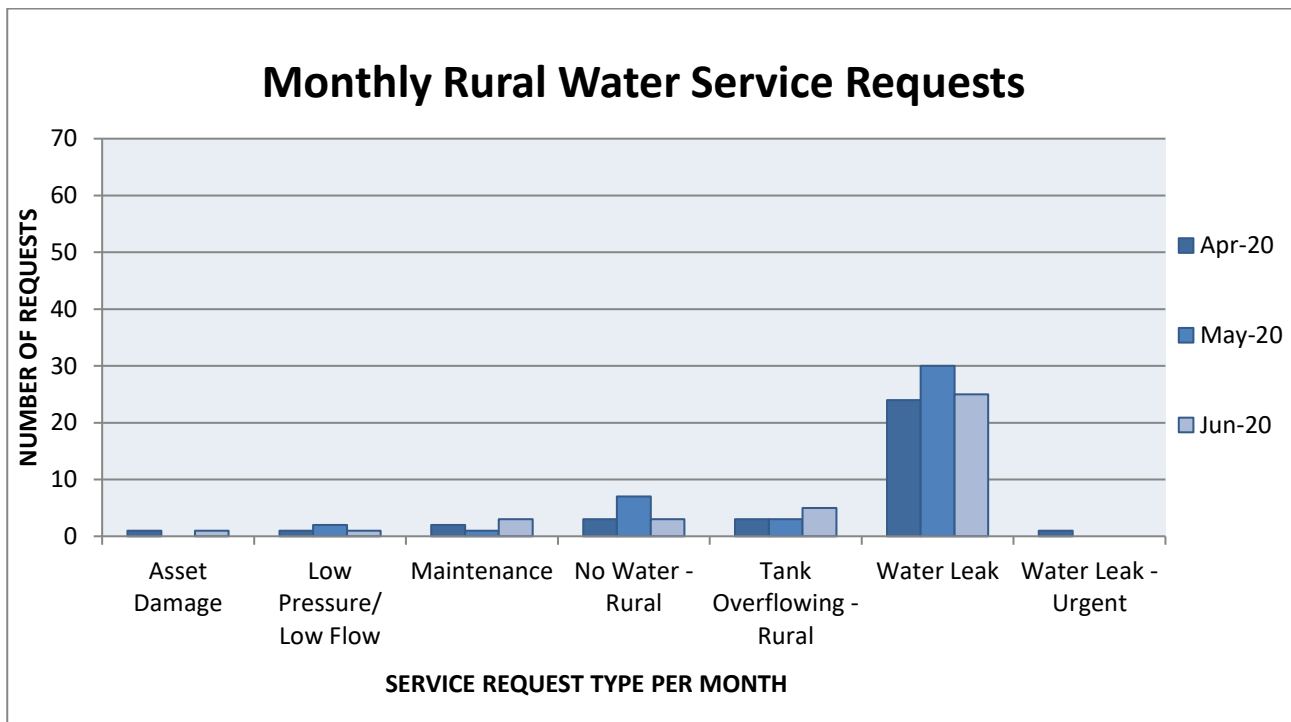
Graph 8: Comparison with previous Urban Water Service Request monthly reporting period



Rural Water Service Requests

58. Rural Water Service Requests reported over 826.5km of pipe network infrastructure and 1254 connections.

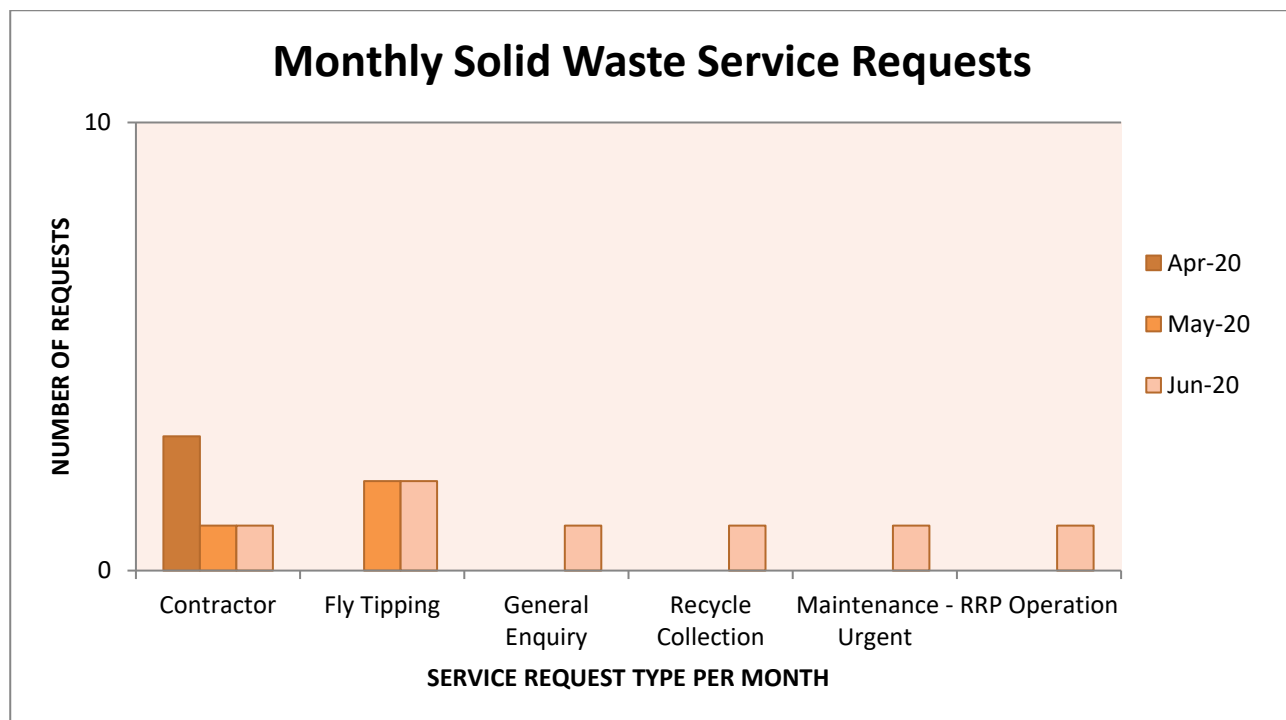
Graph 9: Comparison with previous Rural Water Service Request monthly reporting periods



Solid Waste Service Requests

59. Solid Waste Service Requests reported over 3186 households and 8 recycling drop-off depots.

Graph 10: Comparison with previous Solid Waste Service Request monthly reporting periods

**RECOMMENDATION**

That the Management Report – 3 Waters and Solid Waste is accepted.

Quarterly Projects Report
12 March 2020 to 30 June 2020

Water, Sewerage and Waste

Financial Year	Project	Project Description	Budget	Spend to Date	% Complete	Status		Comments / Issues / Risks / Reasons
						Time	Budget	
Water Supply								
2016/17 (carry forward)	Lower Waihao DWSNZ CAP funded upgrade	Planned project that will increase service levels for 2016/17	Subsidised	\$350,798	25%			The trial membrane plant was successful and the results have now been analysed. The bore appears to have been developed further through use and the fine particulate has greatly reduced meaning that the site may only require provision for a membrane unit rather than actually purchasing one as part of the project. To be carried over into 2019/20.
2019/20	Cannington - Renewals		\$10,140	\$0	0%			
2019/20	Hook / Waituna - Renewals		\$9,200	\$1,922	21%			Line renewal on A Gibson and R Eden Forest Block properties. There is still plans for the remaining buget to be used for line renewal at the north end of Norton Reserve Road (25mm poly).
2019/20	Hook / Waituna - Drinking Water Intake/Plant Compliance Upgrade		\$399,300	\$0	0%			Carried over from 2018/19. Ultra filtration membrane trial has been undertaken. Selection of plant and configuration evaluated. Next is stage is prepare a tender/request for proposal for design build to drinking water standards.
2019/20	Hook / Waituna - Simmons Pumphouse Panel and Telemetry		\$22,616	\$15,104	95%			Panel and telemetry hardware installed. However PLC issue to be resolved, and SCADA programming to be completed.
2019/20	Hook / Waituna - Garlands Road Chlorine Analyser (Monitoring)		\$16,448	\$9,292	100%			As Garlands is now being supplied by Waimate Urban, analyser will be put in O'Donnells pumphouse. Parts purchased in progress.
2019/20	Lower Waihao - Renewals		\$8,240	\$1,395	17%			Hayes 40 OD Poly. Not all costs have been accounted for.
2019/20	Lower Waihao - Drinking Water Intake/Plant Compliance Upgrade		\$800,200	\$38,525	5%			Carried over from 2018/19. A trial membrane plant was successful and the results have now been analysed. The bore appears to have been developed further through use and the fine particulate has greatly reduced meaning that the site may only require provision for a membrane unit rather than actually purchasing one as part of the project. UVT and Tubidity analysis have been purchasd and installed
2019/20	Lower Waihao - Lower Waihao Reservoir Telemetry Renewal		\$9,327	\$9,368	100%			Telemetry renewal completed
2019/20	Otaio / Makikihi - Water Main Renewals		\$3,500	\$16,316	100%			Remaining carry over from 2018/19 budget of \$16,800. Agnews Rd line replacement done using carry over, invoicing still to come.
2019/20	Otaio / Makikihi - Wilton - 2500m 80mm PVC + 400m 32 OD		\$27,859	\$47,861	100%			Upsized from 80mm to 100mm PVC after being hydraulic modelled. It was agreed with the OMWS Committee to bring forward the 20/21 budget of \$28,536 to complete the line through Wiltons property.
2019/20	Otaio / Makikihi - Tavistock Bore - Treatment Filter & UV		\$166,400	\$48,213	29%			Project managed in house. Medium Pressure UV and analytical equipment have been purchased. Planning of pipework and electrical control in progress.
2019/20	Waikakahi - Renewals		\$9,640	\$9,939	103%			Broad Gully pipe thrust. Line renewal Harts
2019/20	Waikakahi - Drinking Water Intake/Plant Compliance Upgrade		\$1,443,900	\$28,659	10%			Note, New Treatment Plant upgrade is on hold with the agreement of DWA until 2020/21 and clearer direction on legislation and standards. Investigation was done into alternate source which did not yield any usable water. Turbidity meter instaled at shed.
2019/20	Waikakahi - Elephant Hill Rd Dyer - 1.5km 63 OD (16bar), 1km		\$12,300	\$0	0%			Remaining carry over from 2018/19 budget of \$29,300. Was to be used for line replacements.
2019/20	Urban Water - Rising Main Renewals		\$219,992	\$0	0%			Was to be used for Urban pipe renewal
2019/20	Urban Water - Lateral Renewals		\$61,680	\$57,256	93%			Ongoing
2019/20	Urban Water - AC Water Main Renewals		\$223,080	\$227,754	102%			Contract 19/22 completed
2019/20	Urban Water - CI Water Main Renewals		\$336,780	\$292,484	87%			Contract 19/22 completed
2019/20	Urban Water - Pressure Management		\$77,100	\$0	0%			Carry forward from 2015/16. The rising main installation is now complete which allows for pressure management to be implemented.
2019/20	Urban Water - Tim Rd Retic Sub Pump 1 Harmonic Filter		\$25,000	\$0	0%			Will be done with treatment plant upgrade
2019/20	Urban Water - Tim Rd Plant - Treatment Filter & UV		\$278,588	\$32,031	11%			Project managed in house. Analytical equipment has been purchased and installed. MP UV unit being sourced. Planning of pipework and electrical control in progress.
2019/20	Urban Water - Waimate Reservoir 240V Switch Board		\$8,224	\$0	0%			In progress
				Overall Completion Average	43%			

Sewerage and Sewage								
2019/20	Investigate inflow and infiltration	Infiltration investigation from surface influences i.e. illegal storm water connections	\$6,169	\$0	0%			Ongoing. Total budget of \$17,476 under GL, which \$6,169 of is set aside for investigate inflow and infiltration.
2019/20	Sewer - Waimate Urban Renewals		\$327,794	\$88,554	27%			Re-allocated to Queen Street Upgrade. Work has started with Hadlee & Brunton jetting, cleaning and camera the sewer main on Queen St. Next step in the project is to put in a new Manhole approximately in front of the BNZ and old Post Office building. Also used for High St Sewer Renewal (Contract 19/23) which is still in progress.
2019/20	Sewer - Edward Street Upgrade (Renewal)		\$551,000	\$22,405	4%			Carried over from 2018/19. Investigative work and modelling by WSP. Still in progress
2019/20	Permanent D.O. Probe and control - Dual Probe		\$10,280	\$0	5%			In progress
2019/20	WWTP Alarming/Monitoring of Out flow Meter		\$4,112	\$0	5%			In progress
2019/20	Sewer - Disposal Field Border Dyke Maintenance		\$11,000	\$2,275	21%			In progress. Waiting for sections to come clear of stock to continue repairs.
				Overall Completion Average	10%			
Storm Water Drainage								
2019/20	Storm water - Belt Street to Town Belt		\$40,400	\$0	0%			Funds reallocated to improving inlet structures and various storm water improvements within the urban area
2019/20	Storm water - Consent & Management Plan		\$30,000	\$113,057	90%			The draft storm water management plan is completed and work is now complete on the assessment of environmental effects. This assessment is a core requirement of the consenting process. Staff have lodged for consent. ECan have provided an extension for Waimate and many other District Councils. Original budget \$140k
2019/20	Storm water - Weather Station		\$6,700	\$0	0%			Decision required for site, and telemetry requirements
2019/20	Storm water - Queen Street Upgrade		\$133,640	\$14,255	11%			Investigation into options
2019/20	Storm water - Herbert St 225 Iron Pipe Crossing		\$6,168	\$0	0%			
2019/20	Storm water - CCTV Assessment of Mains		\$5,000	\$0	0%			Still planning to do CCTV Assessment of mains
				Overall Completion Average	17%			
Waste Management								
2019/20	Waste Management - Wheelie Bin Replacements		\$3,066	\$6,419	209%			Ongoing, for bin replacement
2019/20	Waste Management - Refuse/Recycle Bins - Public Toilet		\$4,000	\$0	10%			Brought forward from 2018/19 year and working in conjunction with the Economic Development Beautification Project.
2019/20	Waste Management - Refuse/Recycle Bins - Boland Park		\$4,088	\$0	10%			Working in conjunction with the Economic Development Beautification Project.
				Overall Completion Average	62%			

Status Key:

On track with time/budget for completion within the plan year

High risk (budget and/or timeframe)

Some risk (budget and/or timeframe) - highlight issues in comments

Not started/external to Council

8 GENERAL REPORTS**8.1 ROAD SAFETY PRESENTATION - 11.30AM**

Author: Karalyn Reid, Committee Secretary and PA to the Mayor

Authoriser: Rob Moffat, Roothing Manager

Attachments: 1. Road Safety Report [↓](#) 

PURPOSE

South Canterbury Road Safety Coordinator, Daniel Naude, will give the Committee an update on road safety in the Waimate District, along with current and planned initiatives and projects.

ROAD SAFETY REPORT

Daniel Naudé, Road Safety Coordinator

An overview on delivery of road safety, crash trends, social costs in the Waimate District and information about the Government *Road to zero 2020-2030 strategy*.

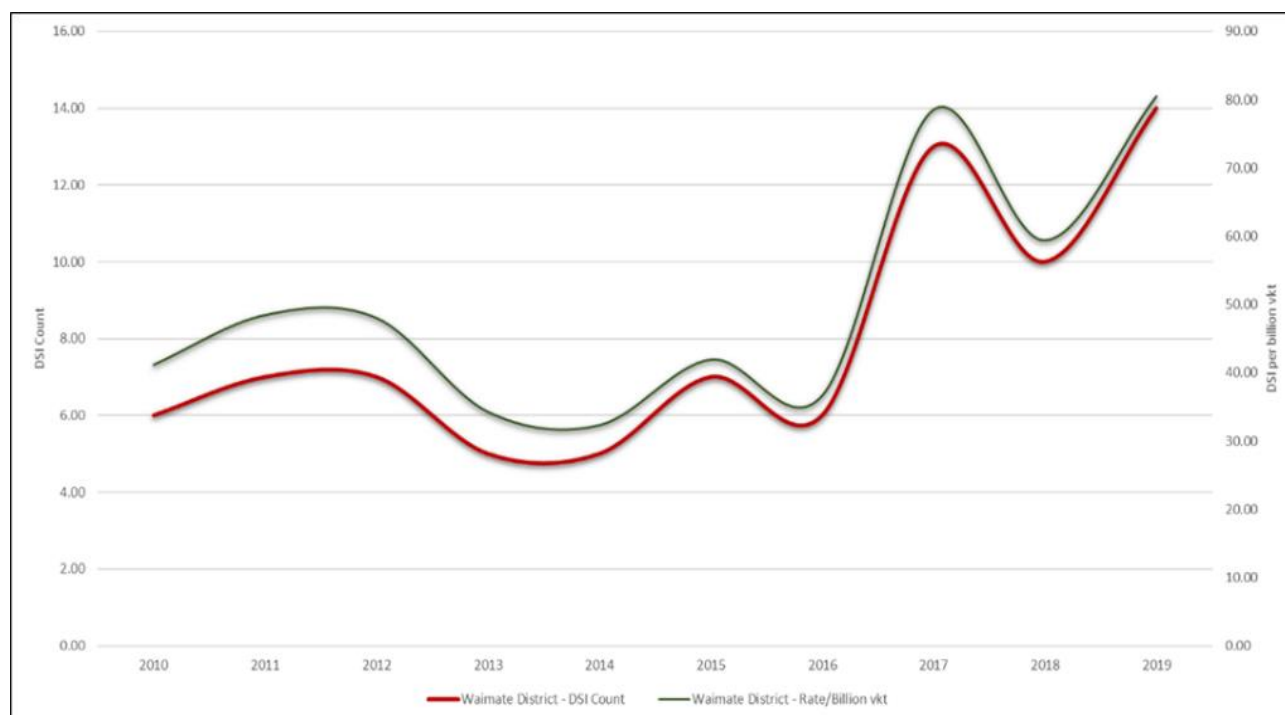
State Highway and local road crashes:

There were 13 deaths, 34 serious injuries, and 78* minor injury crashes over the past five financial years at a social cost of over \$70 million.

Local road crashes:

There were 3 deaths, 11 serious injuries, and 20* minor injury crashes over the past five financial years at a social cost of over \$21 million.

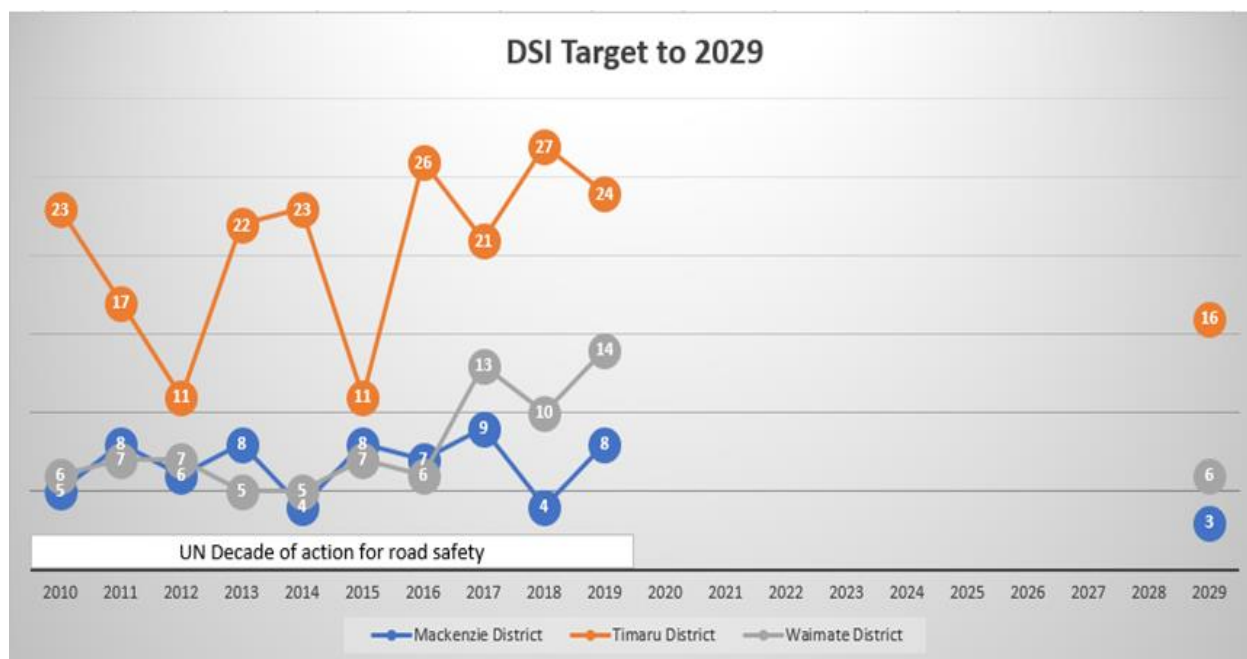
The focus is on reducing serious injury and fatal crashes (Death + Serious Injury - DSI). Information about the *Road to zero 2020-2030 strategy* is attached to this report. Waimate District has seen an upward trend over the past 3 years and it is our challenge to stop this. The South Canterbury Region Road Safety Strategy has the vision of *zero serious injury and fatal crashes*. This is a long-term vision that can only be achieved by a safe systems approach.



Waimate District 10-year DSI trend

District Council	2018 rates		Target towards 2030	
	Fatal	Serious Injury	Fatal	Serious Injury
Timaru	9	18	5	11
Waimate	3	7	2	4
Mackenzie	2	2	1	2
South Canterbury	14	27	8	17

The Government's target is to have 40% less DSI crashes based on the 2018 DSI numbers. In the chart below it shows the past ten year trend 2010 to 2019, and indicates the target to reach by 2030.



The role of the Road Safety Coordinator (RSC)

The role of a RSC is to liaise with all responsible parties (engineers and police) and other government organizations like ACC, ECAN, Public Health, Ministry of Justice, schools, other RSCs, media, community groups and the public to ensure that all actions are coordinated.

Part of the role is to educate the public on safe road use practices and to use media as part of the strategy to change behaviour together with direct engagement with the public at events, demonstrations and group meetings.

The influence a RSC has on the community is based on trust and it takes time to build that relationship. Here in South Canterbury, the RSC is employed by Timaru District Council, but is also contracted to Waimate and Mackenzie District Councils.

Road safety programmes being run in South Canterbury

1. Alcohol and drugs
2. Heavy motor vehicles
3. Intersections
4. Learner or restricted drivers
5. Loss of control and fatigue
6. Motorcycles
7. Older drivers
8. Speed
9. Young drivers

Local Councils play a very important role when it comes to road safety actions. Research in Norway has shown that local personally directed campaigns are far more effective (39%) than mass media alone (0.9%) or mass media and enforcement combined (12.7%).

Road Safety Action Plan

An action plan to address local road safety issues are currently being considered by the South Canterbury Road Safety Liaison Group. The South Canterbury goal is "Zero fatal or serious injury crashes on our road network". The road network includes State Highways as well as local roads.

South Canterbury Road Safety Liaison Group

This group meets every six months to report back on progress and discuss any changes or challenges that may have come up. Members of this group are usually senior staff who can make decisions on the spot. They are from Local Authorities, Police, ACC, NZTA, AA, Roadsafes South Canterbury, Public Health and Transport Association.

Identification of relevant legislation

Council Policy and Plans

Land Transport Management Act

Local Government Act

Waimate District Council Long Term Plan

Regional Land Transport Strategy

NZ Government GPS

Assessment of Significance

Regional Road Safety Working Group (RRSWG) subcommittee of the Transport Committee

Other indicators

Funding

This role and programmes are financially assisted by NZTA (55%) and the other 45% comes from rates. Of the 45% local share, Timaru District Council contributes 69%, Waimate District Council 20% and Mackenzie District Council 11%. This is based on population and local road network.

NZTA funds 16 FTE Police staff for the South Canterbury Region to do road policing.

What Waimate gets for their contribution:

- All road safety themes are run in all three districts.
- Advertising on local radio and regional newspapers, Facebook, Website and other publications like tourism magazines etc.
- Driver training is offered in all three districts.
- Mature driver classes presented locally.
- All road safety complaints are investigated when requested to do so.
- Support for local schools (police education officers are lead agency)
- Combined road safety education projects with other rural Canterbury Districts.
- Road safety resources are distributed in all three districts – like cloths, ice scrapers, resources for drink-driving, speed, fatigue, young drivers, mature drivers, distraction, etc.
- The Rotary Young Driver Assessment (RYDA) is offered to Waimate high school with all other high schools in the district.
- The Street Smart (formerly Holden Street Smart) event for novice drivers at Levels Raceway.
- Road Safety Coordinator often speak at community groups.
- Waimate District has four locations for the Electronic Speed feedback sign. Makikihi (2), Glenavy and Waimate.

The table below shows the direct cost for road safety delivery to Waimate as being 20% of the total project and advertising cost for the SC region.

Description	Amount
Bottled water for Fatigue campaign - December 2019	\$ 730.00
Bus fares for students to attend RYDA	\$ 200.00
Community calendar - mature driving classes	\$ 200.00
Data download for speed signs	\$ 640.47
Digital advertising	\$ 100.00
Facebook advertising	\$ 80.00
Marketing management	\$ 5,258.13
Print advertising	\$ 4,655.60
Print design	\$ 20.50
Prize for winter driving project	\$ 179.97
Promotional goods + kids reflective vests	\$ 1,327.10
Radio advertising	\$ 5,725.22
Road safety advertising	\$ 75.00
Road safety promotional video	\$ 528.78
Rotary Young Driver Awareness event	\$ 90.00
Social media advertising	\$ 122.34
Spot prizes	\$ 37.56
Storage of winter driving material prior to delivery	\$ 120.00
Street-smart driving training for learner & restricted drivers	\$ 3,000.00
Support for SADD students conference	\$ 600.00
Wall planners for doctor rooms - promoting mature driver classes	\$ 852.00
Winter driving material	\$ 100.00
Young driver app - Which way	\$ 5,630.31
Young driver training day at Levels Raceway	\$ 480.00
Grand Total	\$ 30,752.99

The Government Road Safety Strategy (Road to zero 2020 2030)



Underpinning this vision are seven guiding principles:

- 01 We promote good choices but plan for mistakes
- 02 We design for human vulnerability
- 03 We strengthen all parts of the road transport system
- 04 We have a shared responsibility for improving road safety
- 05 Our actions are grounded in evidence and evaluated
- 06 Our road safety actions support health, wellbeing and liveable places
- 07 We make safety a critical decision-making priority.

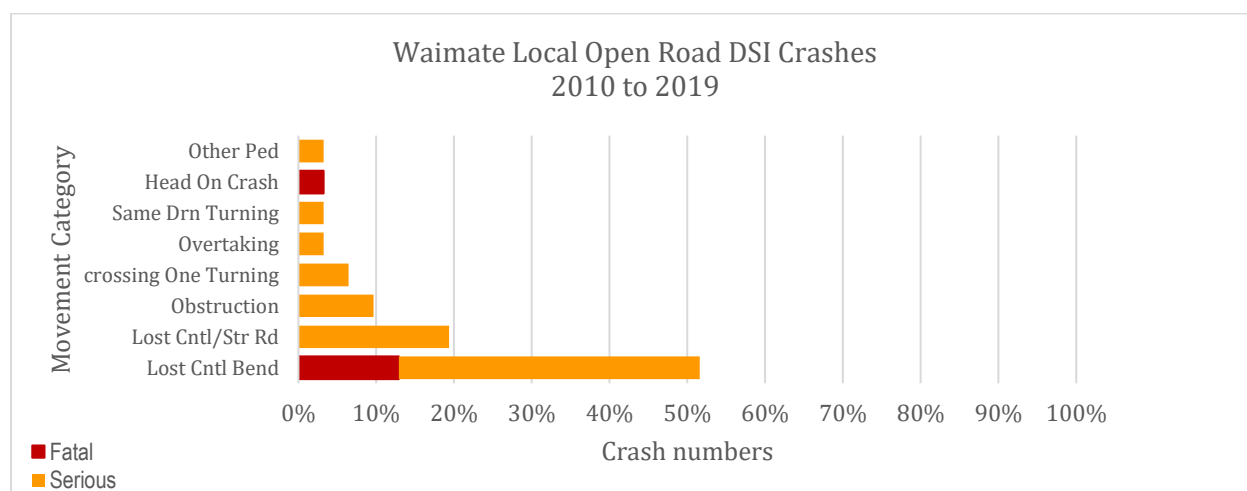
As a step towards achieving this vision, we propose a target of a 40 percent reduction in deaths and serious injuries by 2030.

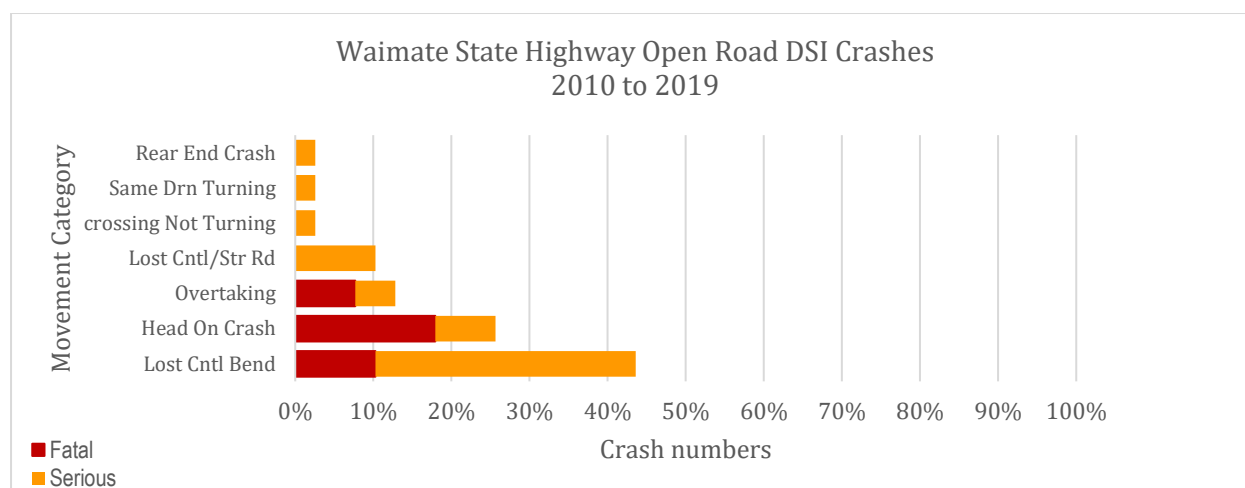
This will be achieved through action in five key areas:

- 01 Infrastructure improvements and speed management
- 02 Vehicle safety
- 03 Work-related road travel
- 04 Road user choices
- 05 System management.

What are the main road safety issues in Waimate District?

Contributing Factors	Fatal Crash	Serious Crash	Grand Total
Alcohol or Drugs	16.08%	18.18%	34.27%
Lost Control	3.50%	10.49%	13.99%
Position on road	3.50%	9.09%	12.59%
Inappropriate speed	2.80%	2.80%	5.59%
Failed to Give Way	0.00%	4.90%	4.90%
Inexperience	1.40%	2.10%	3.50%
Reason for death / injury	2.80%	0.70%	3.50%
Fatigue (Drowsy)	1.40%	1.40%	2.80%
Tyres	1.40%	1.40%	2.80%
Illness and Disability	0.00%	2.10%	2.10%
Slippery road	0.70%	1.40%	2.10%
Weather	1.40%	0.70%	2.10%
Overtaking	0.70%	0.70%	1.40%
Inattentive: Failed to Notice	0.00%	1.40%	1.40%
Attention Diverted By:	0.00%	1.40%	1.40%
Forbidden Movements	0.70%	0.00%	0.70%
Street Lighting	0.00%	0.70%	0.70%
Obstructions and objects	0.00%	0.70%	0.70%
Did Not See Another Party Until Too Late	0.00%	0.70%	0.70%
Intentional or Criminal	0.00%	0.70%	0.70%
Showing Off	0.00%	0.70%	0.70%
Signs and Signals	0.00%	0.70%	0.70%
Misjudged speed, distance or position	0.00%	0.70%	0.70%
Grand Total	36.36%	63.64%	100.00%





The table below is an indication of who we should target to get the best outcomes. Darker cells indicate higher proportion of driver risk.

Contribution by age group		Age group																
Crash Type		15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	Grand Total
Female		5.0%	5.5%	1.9%	0.8%	1.2%	2.2%	2.1%	2.4%	2.0%	0.5%	1.2%	0.5%	0.6%	0.1%	0.1%	0.5%	26.9%
Lost Cntl Bend		2.7%	1.6%	0.3%	0.1%	0.5%	0.1%	0.3%	0.1%	0.2%	0.0%	0.4%	0.0%	0.2%	0.0%	0.0%	0.0%	6.5%
Head On Crash		0.9%	1.6%	0.7%	0.1%	0.2%	1.0%	0.4%	0.5%	0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.3%	6.1%
Lost Cntl/Str Rd		1.1%	1.3%	0.3%	0.1%	0.1%	0.1%	0.7%	0.5%	0.5%	0.1%	0.1%	0.1%	0.2%	0.1%	0.0%	0.0%	5.4%
Overtaking		0.0%	0.1%	0.0%	0.2%	0.0%	0.7%	0.6%	0.5%	0.3%	0.1%	0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	3.0%
Same Drn Turning		0.0%	0.1%	0.3%	0.3%	0.0%	0.0%	0.0%	0.5%	0.5%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	2.4%
Xing Not Turning		0.0%	0.3%	0.0%	0.0%	0.3%	0.1%	0.0%	0.1%	0.3%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%
Xing One Turning		0.0%	0.1%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.6%
Obstruction		0.3%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.6%
One Turns Right		0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.4%
Ped Xing Road		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
Manoeuvring		0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Rear End Crash		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Merging		0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Male		16.6%	11.3%	8.8%	8.0%	5.5%	3.8%	5.4%	2.5%	2.9%	3.4%	1.0%	1.6%	1.2%	1.2%	0.0%	0.0%	73.1%
Lost Cntl Bend		9.1%	5.2%	3.3%	2.1%	2.2%	1.2%	1.0%	0.5%	0.3%	1.0%	0.3%	0.3%	0.5%	0.1%	0.0%	0.0%	27.1%
Head On Crash		1.1%	2.3%	2.1%	3.1%	2.0%	1.1%	1.6%	0.4%	0.4%	1.4%	0.1%	0.5%	0.5%	0.5%	0.0%	0.0%	17.1%
Lost Cntl/Str Rd		2.9%	1.0%	1.6%	0.7%	0.2%	0.3%	0.6%	0.5%	0.8%	0.5%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	9.4%
Overtaking		1.4%	0.6%	0.7%	0.4%	0.4%	0.6%	0.5%	0.5%	0.7%	0.0%	0.1%	0.5%	0.0%	0.0%	0.0%	0.0%	6.4%
Same Drn Turning		0.3%	0.4%	0.3%	0.6%	0.0%	0.3%	0.0%	0.3%	0.2%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%
Xing One Turning		0.1%	0.5%	0.3%	0.3%	0.1%	0.1%	0.7%	0.0%	0.4%	0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	2.9%
Xing Not Turning		0.2%	0.1%	0.1%	0.7%	0.1%	0.2%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	2.0%
Rear End Crash		0.5%	0.3%	0.2%	0.0%	0.1%	0.0%	0.5%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%
Obstruction		0.0%	0.2%	0.0%	0.1%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	1.0%

Merging	0.0%	0.5%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Other Ped	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Ped Xing Road	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.4%
One Turns Right	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.4%
Manoeuvring	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.3%

Education

It is interesting that when looking at road user behaviour models and crash data, the road user is by far the weakest link in the road, vehicle, and road user model. Yet, this area is by far overlooked compared to Engineering or Enforcement.

People do not operate like a switch, where you can turn them on or off at any given moment. Look at yourself for a moment. Do you blindly follow everything you see or hear, even if it comes from a so-called authoritative source?

Road users are the same, most of them do follow instructions when they trust the source and when it makes sense to them. Education is a long-term process where the educator must first gain trust and respect, before people tend to follow their advice.

Educators nowadays must come up with unique techniques to engage people as most people suffer from information overload.

However, most people want to do the right thing. So, if you want them to follow your advice, you must make sure it is broken up in manageable bits that is easier to comply with.

The challenge for Road safety educators is that messages should be consistent wherever it is observed. Some places, local community groups have a very strong passion for road safety. In their actions, they may put out messages that is not helping the cause or contradicts other road safety messaging.

Police and engineers also play an important role in road safety education. They may over time be part of a conversation where the topic of road use and safety comes up. It is important that the information shared, does not create confusion.

To view the Road to Zero 2020-2030 Action Plan and Strategy please visit:

www.transport.govt.nz/zero

MEETING CLOSURE

