



## **Notice of Meeting:**

I hereby give notice that an ordinary meeting of the Infrastructure Services Committee will be held on:

**Date:** **Tuesday 30 August 2016**

**Time:** **1.30 pm or at the conclusion of the Planning and Regulatory Committee meeting (whichever is later)**

**Venue:** **Edinburgh Room, Municipal Chambers  
The Octagon, Dunedin**

Sue Bidrose  
Chief Executive Officer

# **Infrastructure Services Committee**

## **PUBLIC AGENDA**

# MEMBERSHIP

<b>Chairperson</b>	Kate Wilson
<b>Deputy Chairperson</b>	Mike Lord
<b>Members</b>	David Benson-Pope Hilary Calvert Doug Hall Jinty MacTavish Neville Peat Richard Thomson Andrew Whiley
	John Bezett Mayor Dave Cull Aaron Hawkins Andrew Noone Chris Staynes Lee Vandervis
<b>Senior Officer</b>	Ruth Stokes, General Manager Infrastructure and Networks
<b>Governance Support Officer</b>	Lynne Adamson

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# INFRASTRUCTURE SERVICES COMMITTEE

**30 August 2016**

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**Note:** Reports and recommendations contained in this agenda are not to be considered as Council policy until adopted.

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**1 PUBLIC FORUM**

At the close of the agenda no requests for public forum had been received.

**2 APOLOGIES**

An apology has been received from Cr Neville Peat.

That the Committee:

**Accepts** the apology from Cr Neville Peat.

**3 CONFIRMATION OF AGENDA**

Note: Any additions must be approved by resolution with an explanation as to why they cannot be delayed until a future meeting.

**4 DECLARATION OF INTEREST**

There were no new declarations of interest.

**PART A REPORTS****3 WATERS ACTIVITY REPORT FOR THE YEAR ENDING 30 JUNE 2016**

Department: Water and Waste

**EXECUTIVE SUMMARY**

- 1 This report updates the Committee on water, wastewater and stormwater operations, maintenance and capital works, including contracted out services.
- 2 Highlights for the quarter include:
  - a) Continued focus on delivery of the Capital Works programme has delivered record project completion levels for the year. Kaikorai phase 1, and phase 2 zone 1 renewal works were completed this quarter.
  - b) Construction works have commenced on the Portobello Road stormwater screen replacement and is expected to be completed in October 2016, but this is weather dependent.

**RECOMMENDATIONS**

That the Committee:

- a) **Notes** the Three Waters Activity Report for the Quarter ended 30 June 2016.

**BACKGROUND**

- 3 The water activity delivers the effective collection, treatment and reticulation. The wastewater activity provides the collection, treatment and discharge. The stormwater activity encompasses collection and safe disposal. All three activities are managed in a way that protects public health, and minimises impact on the environment.
- 4 The Three Waters activity includes:
  - Collection and treatment of raw water.
  - Reticulation of treated water for drinking and firefighting.
  - Collection and treatment of wastewater.
  - Discharge of treated wastewater water and disposal of biosolids.

- Collection and discharge of stormwater.

## DISCUSSION

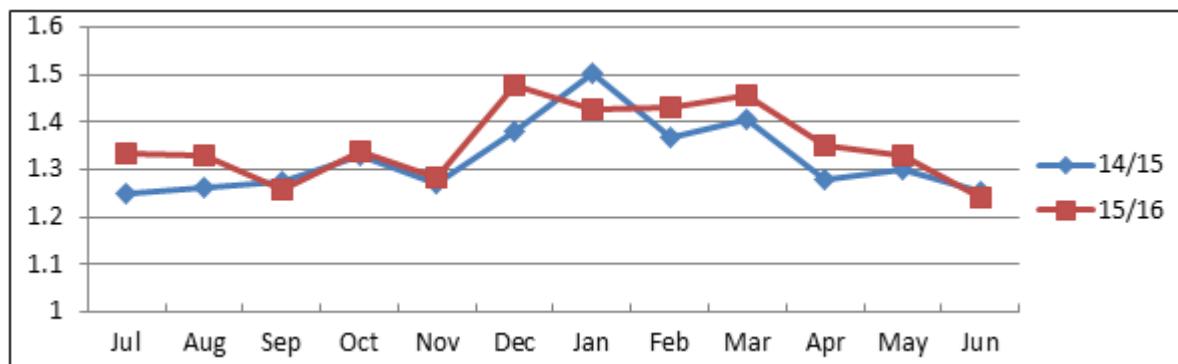
### Management of Three Waters services

- 5 The collection, treatment, reticulation and disposal of drinking water, wastewater and stormwater are managed directly by Council. The maintenance of the water, wastewater and stormwater pipe networks is contracted to City Care Limited.
- 6 The Council's water supply service consists of four service areas: - metropolitan Dunedin and the three outlying areas of West Taieri, Outram and Northern Schemes (now fed from Mount Grand).
- 7 The water supply network includes 21,000 hectares of water catchment; 1,367 km of pipeline; 30 pumping stations; 57 reservoirs (raw and treated) and 10 treatment plants.
- 8 The Council's wastewater service consists of seven service areas, including metropolitan Dunedin and six outlying areas: Green Island, Mosgiel, Middlemarch, Seacliff, Waikouaiti/Karitane and Warrington. The Metropolitan system takes the east and west harbour communities of Portobello and Port Chalmers respectively and discharges from Tahuna via the long ocean outfall. Green Island takes the treated Mosgiel effluent and discharges this along with wastes from Green Island, Abbotsford and coastal south Dunedin via the ocean outfall at Waldronville.
- 9 The wastewater network comprises 901 km of pipes, 76 reticulation pumping stations, 130 domestic pumping stations and seven treatment plants. The service is provided to approximately 107,000 residents and 106 trade customers.
- 10 The Council's stormwater service manages the collection and disposal of stormwater to domestic and commercial residents in eight service areas – metropolitan Dunedin and seven outlying areas: Brighton/Waldronville; Green Island, Mosgiel, Middlemarch, Mosgiel, Outram, Port Chalmers and Waikouaiti/Karitane and Warrington. The stormwater network comprises 372 km of pipes and 11 pumping stations.

### Non-financial performance

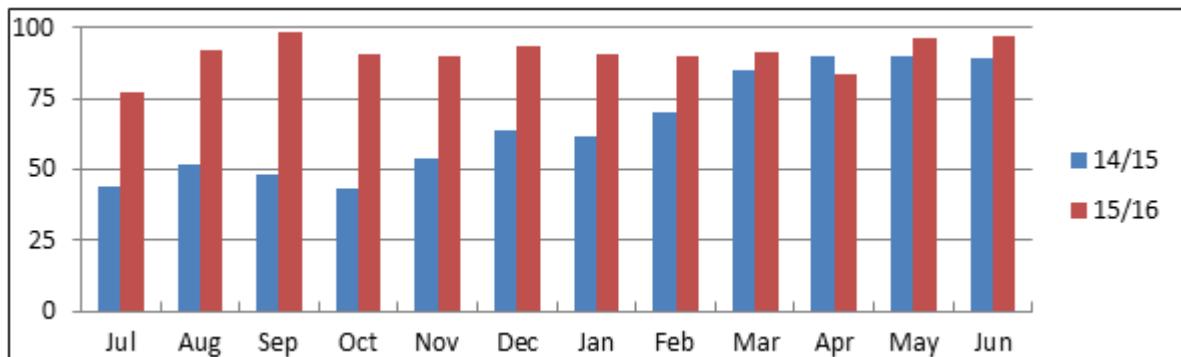
#### Service

- 11 Total treated water network demand in millions m<sup>3</sup> (production from all metro treatment plants)



- Network demand figures follow expected trend and show correlation with rainfall data.

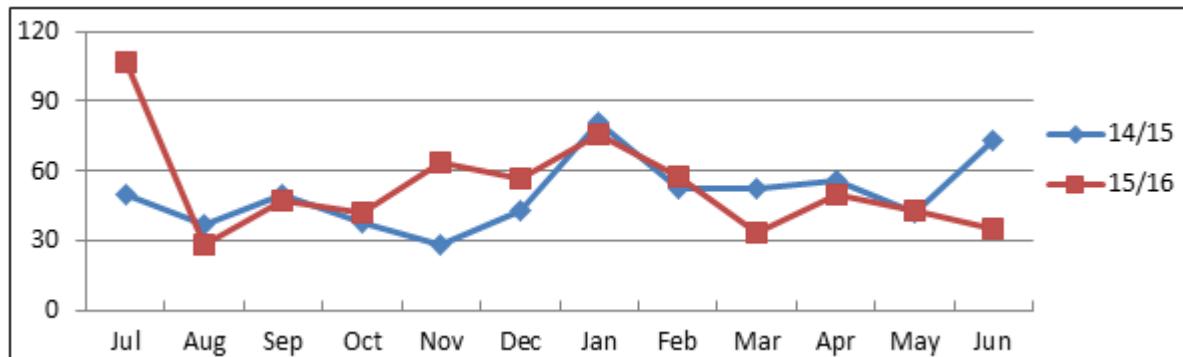
## 12 Percentage response times met ≤24hours



Quarter Ending 30 June 2016	Response Times Met	
Water	418/461	91%
Wastewater	77/83	93%
Stormwater	9/9	100%

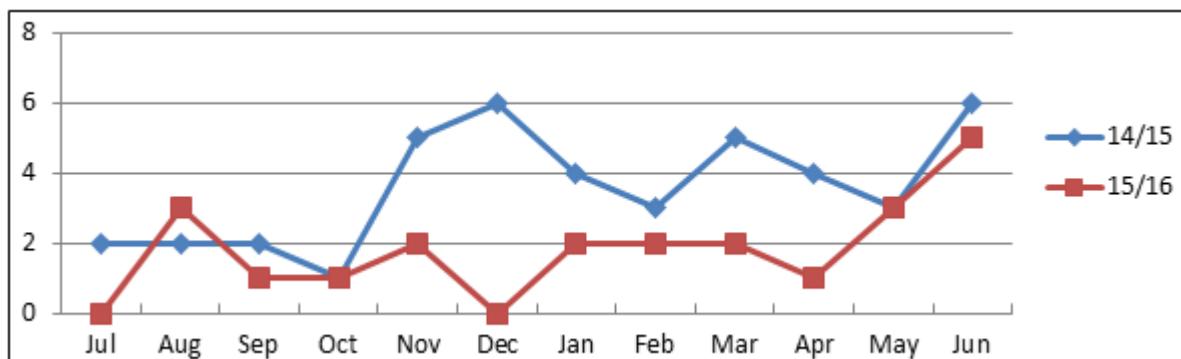
- Focussed improvements by City Care in conjunction with DCC now yielding benefits.
- Urgent jobs are those that have a target response time of under 24 hours. The target is based on job type and may be as little as one hour. Response time is measured based on when a crew arrives on site. The time to restore service on a job is recorded separately.

## 13 Number of customer complaints for drinking water



- July 2015 result elevated due to frosts and consequent "no water" complaints.
- Q4 – 16 water pressure, 71 continuity of supply, 39 clarity, 2 odour.
- 2015/16 – 640 complaints. 106 water pressure, 438 continuity of supply, 91 clarity, 5 odour.

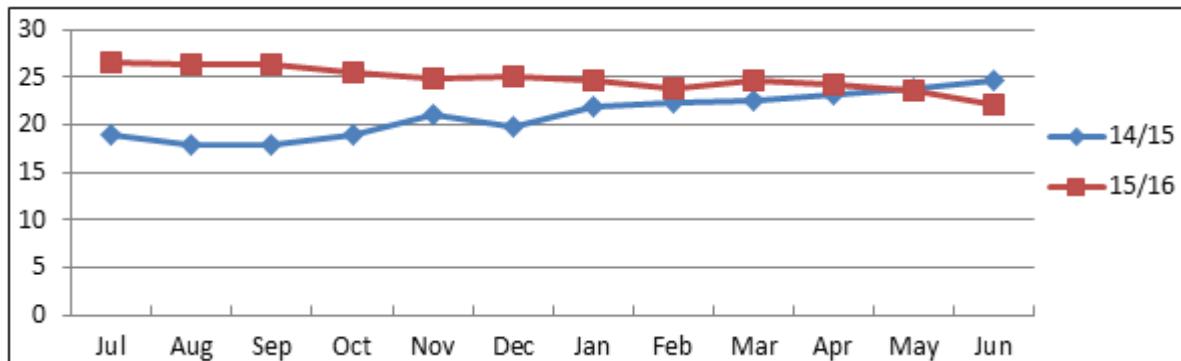
## 14 Number of wet weather wastewater overflows



- Overflows arise due to stormwater entering the wastewater system through cracks in old pipes (infiltration) or cross connections (inflow). The wastewater renewals programme is targeted at reducing infiltration as this can also cause wastewater flooding.
- There have been fewer wastewater overflow events during 2015/16 compared to 14/15, particularly during the drier summer months. This may be due to impact of the focussed renewals programme, although given the variability of weather events it is too early to reliably establish a trend.

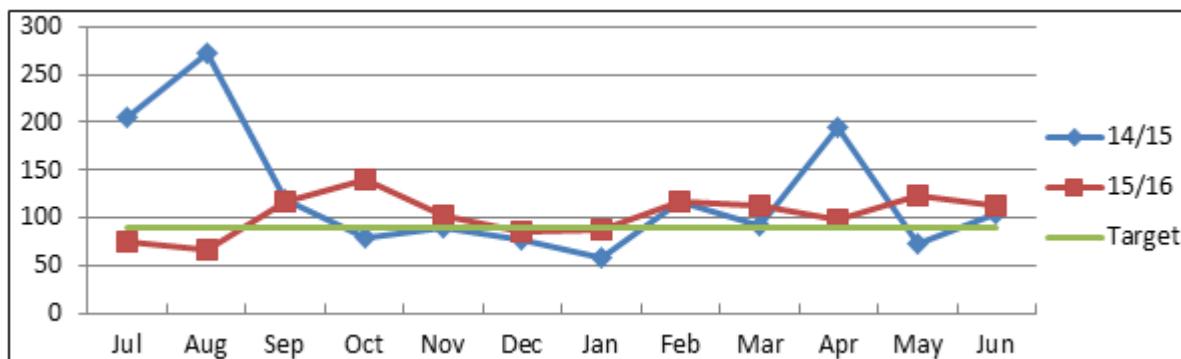
**Value & Efficiency**

## 15 Number of water main breaks (12month rolling average)



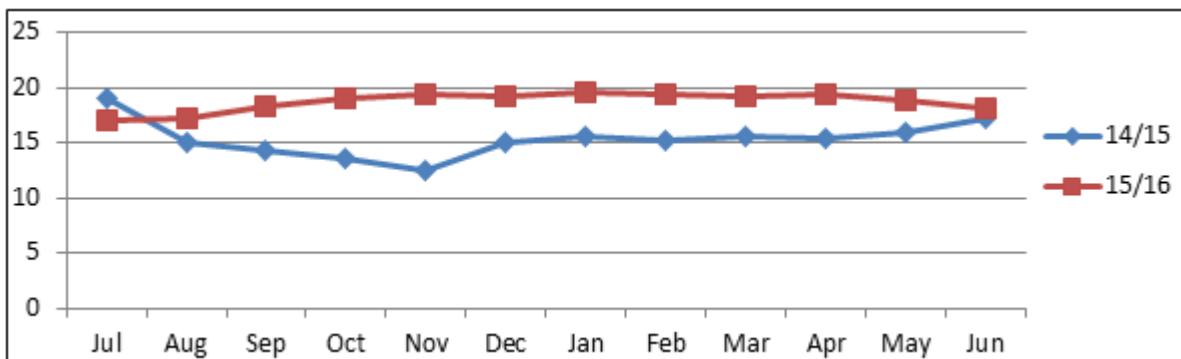
- The data set starts July 2014, so the graph only shows the rolling average of a full 12 months from July 2015. Break rates were elevated in July 2015 due to particularly bad frost damage. This has affected the rolling average.

## 16 Average duration of unplanned shutdowns in minutes



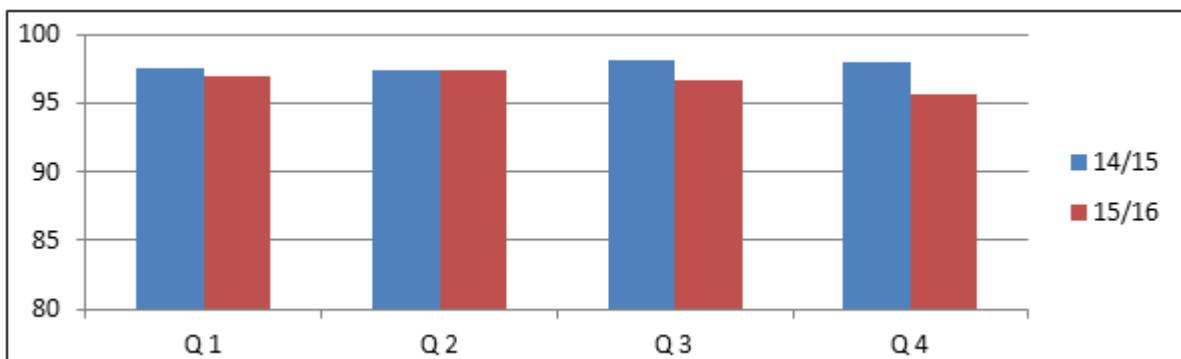
- The peak in September and October was due to some unexpected issues related to capital works projects in Corstophine. Failure of a zone's valves and miscommunication between contractors led to an extended unplanned shutdown to enable the new watermain to be connected and commissioned.

## 17 Number of foul sewer blockages



- The data set starts July 2014, so only represents a full 12 month rolling average from July 2015.

## 18 Percentage wastewater discharge consent compliance

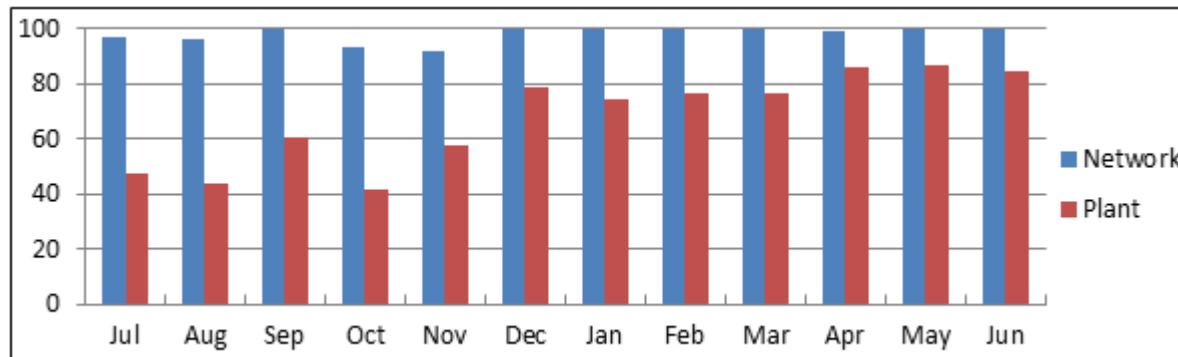


- Most non-compliances relate to exceeding of trigger values for BOD (biological oxygen demand), total suspended solids, oils & grease, aluminium and copper at Tahuna and nitrogen at Seacliff wastewater treatment plants. The Seacliff plant struggles to meet consent compliance, but this will be addressed as part of the northern wastewater strategy. Tahuna has had some issues with levels of oil and grease, but the most recent samples have shown an improvement.
- In the 2015/16 year compliance results included some exceedances for faecal coliforms in shellfish and water samples. However, exceedances were also observed

for samples taken from the control site (a site not influenced by Tahuna). It is likely that the exceedances were due to a boom in the wildlife population.

- 15/16 compliance has also been affected by a spike in odour complaints, mainly in Q3. Each odour complaint for Tahuna is classed as a non-compliance with the resource consent. Replacement of the biofilter media for one of the biofilters is scheduled to be completed in Sept / October which will reduce the risk of future odour complaints.

19 Percentage planned maintenance completed



- Operational checks of all pumping stations were loaded into the IT system prior to July but on a generic basis resulting in some unnecessary work orders being generated.
- We now have more confidence in the data following a data validation exercise.

**DIA Performance Measures**

- 20 In 2010, the Local Government Act 2002 was amended to require the Secretary for Local Government to make rules specifying non-financial performance measures for local authorities to use when reporting to their communities. By standardising some of the performance measures, the aim is to help the public to contribute to discussions on future levels of service for their communities and to participate more easily in their local authority's decision-making processes.
- 21 The data was collected for the 2014/15 year to ensure that data collection and reporting processes were robust. However, the 2015/16 year is the first year where results will be publicly reported. The full list of measures and results is attached (Attachment A).

**Major initiatives**

- 22 **Northern Wastewater Strategy** – The Infrastructure Services Committee approved the proposed consenting strategy on 26 May. The DOC concession for Seacliff WWTP has now been lodged.
- 23 **Security of Supply Strategy** – The revised Engineer's estimate for the dam refurbishment has been received and is higher than expected. Consequently, the original business case is being reviewed to confirm whether the project should proceed as originally planned.
- 24 **Kaikorai Valley** – Phase 3 design is now complete. Opus are progressing the resource consent application and planning consents for the project. Tenders are expected to be called in October. Phase 4 is in planning stage, involves work in 170 private properties and an extensive stakeholder engagement and communication strategy for this project is now being developed.
- 25 **Musselburgh Pump Station** – A major refurbishment and reconfiguration (driven by age/condition and earthquake vulnerability) is being planned for the site. This is currently the single most critical site in the WWS network and a significant challenge will

be maintaining continuous operation during the works. Physical works will not commence until late 2017.

- 26 **South Dunedin stormwater options** – Following the Council resolution, staff are developing a timetable for updates on possible measures to ensure that stormwater management in South Dunedin is capable of preventing and/or mitigating flooding caused by severe rain events. Work on linking the models is in progress. Staff are expecting to receive high level options and costs for improvement works by the end of the year.

### Capital projects

Name	Construction contract Budget	Construction contract actual (to date)
Outram WTP	\$705,706	\$435,523
Kaikorai Valley Phase 1	\$3,087,509	\$3,074,111
Kaikorai Valley Phase 2	\$3,749,796	\$3,014,100
University Renewals	\$2,024,600	\$1,841,000
Logan Park Renewals	\$418,666	\$414,225
Tahuna Roof Renewals	\$605,650	\$379,052

\*Figures are as of 30 June

- 27 **Outram WTP Upgrade:** To ensure compliance with drinking water standards: Tender awarded to Filtec and the upgrade is progressing well. Trial operation commenced at the start of August.
- 28 **Kaikorai Valley Renewals Phase 1:** To reduce wastewater flooding in Surrey Street and Caversham Tunnel and reduce overflows to Kaikorai stream – Tender awarded to CityCare. The project incurred delay due to addition of scope to better facilitate future stages of the KV renewals and very poor ground conditions encountered in Lynn Street and Wales Street. Physical works are complete. Additional expenditure request has been submitted and approved. Beca have been engaged as principal's representative to manage outstanding variations with City Care.
- 29 **Kaikorai Valley Renewals Phase 2:** to reduce wastewater flooding in Surrey Street and Caversham Tunnel and reduce overflows to Kaikorai stream – Tender awarded to Fulton Hogan. This project is progressing well and forecast to be delivered on time and on budget. Zone 1 achieved practical completion on 18 May 2016. Zone 2 pipeline renewals will be complete by mid-September. Road rebuild works along failed sections will continue to mid-October.
- 30 **University Renewals** – Tender awarded to Downer. This project incurred some delays due to changes in scope from the University relating to landscaping works. WWS renewals are essentially complete and forecast to come in on budget.
- 31 **Logan Park Renewals** – Tender awarded to Clearwaters. This project incurred some delays due to ground conditions encountered that were poorer than planned for (pre-construction testing showed ground conditions were adverse and a subsequent revised methodology was developed). Large historic tree roots have since been encountered. Additional expenditure request has been submitted and approved. Practical completion was issued on 16 May 2016.
- 32 **Tahuna Roof Renewals** – Tender awarded to Stevenson Williams. Project is progressing well despite the discovery of asbestos, which has been managed appropriately. The works are expected to be completed by mid-September.

- 33 **Portobello Road stormwater pump station screen** – The contract for replacement was awarded to Fulton Hogan. Installation is expected to be completed by the end of October but is weather dependent.

## **OPTIONS**

- 34 As an update report, there are no options.

## **NEXT STEPS**

- 35 Areas of focus for the next quarter will be:

- Every Street/Jeffery Street Renewals package will go to market is currently being advertised on tenderlink.
- Package 1 of 3 Switchboard H&S Upgrade packages is currently being advertised on tenderlink.

## **Signatories**

Author:	Sarah Robinson - Personal Assistant / Business Perf. Coordinator Laura McElhone - Group Manager Water and Waste
Authoriser:	Ruth Stokes - General Manager Infrastructure and Networks

## **Attachments**

	<b>Title</b>	<b>Page</b>
A	DIA Performance Measures 2015/16	14

**SUMMARY OF CONSIDERATIONS*****Fit with purpose of Local Government***

This decision relates to providing local infrastructure that is considered good-quality and cost-effective.

***Fit with strategic framework***

	Contributes	Detracts	Not applicable
Social Wellbeing Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Economic Development Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Environment Strategy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arts and Culture Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 Waters Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spatial Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Integrated Transport Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks and Recreation Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other strategic projects/policies/plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The Three waters activities support the outcomes of a number of strategies.

***Māori Impact Statement***

There are no known impacts for tangata whenua.

***Sustainability***

The 3 Waters activity contributes positively to the interests of the community by ensuring the provision of safe drinking water, and the safe and sustainable disposal of wastewater and stormwater.

***LTP/Annual Plan / Financial Strategy***

The 3 Waters Activities are included in the Long Term Plan.

***Financial considerations***

The updates reported are within existing operating and capital budgets.

***Significance***

This decision is considered of low significance under the Significance and Engagement Policy.

***Engagement - external***

As an update report no external engagement has been undertaken.

***Engagement – internal***

As an update report no internal engagement has been undertaken.

***Risks: Legal / Health and Safety / Conflict of Interest etc.***

There are no identified risks.

***Community Boards***

Not applicable.

# INFRASTRUCTURE SERVICES COMMITTEE

30 August 2016



<b>Drinking Water Measure</b>		<b>Target</b>	<b>15/16 result</b>	<b>Comment</b>
Safety of drinking water	The extent to which the local authority's drinking water supply complies with part 4 of the drinking-water standards (bacteria)	Yes	Yes	Outram Water Treatment Plant result "no" due to no protozoal treatment; however a Plant upgrade has been completed to include protozoal treatment. Trial operation commenced in August.
	The extent to which the local authority's drinking water supply complies with part 5 of the drinking-water standards (protozoal)	Yes	Outram - no Others - Yes	
Maintenance of reticulation network	The percentage of real water loss from the local authority's networked reticulation system (including a description of the methodology used to calculate this)	<20%	32%	High percentage of real water loss due to unusually low consumption figure in Q4, and investigation currently underway.
Fault response times	Median time for attendance for urgent call-outs: from the time that the local authority receives notification to the time that service personnel reach the site	60 mins	39 mins	All targets met by contractor – City Care.
	Median time for resolution of urgent call-outs: from the time that the local authority receives notification to the time that service personnel confirm resolution of the fault or interruption	240 mins	108 mins	
	Median time for attendance for non-urgent call-outs: from the time that the local authority receives notification to the time that service personnel reach the site	3 days	1125 mins	
	Median time for resolution of non-urgent call-outs: from the time that the local authority receives notification to the time that service personnel confirm resolution of the fault or interruption	5 days	1524 mins	
Customer satisfaction	Number of complaints about drinking water clarity		91	Almost a quarter of the continuity of supply complaints were in July 2015, and due to heavy frosts and subsequent no water complaints. Number of rated properties for water supply is 42,853.
	Number of complaints about drinking water taste		0	
	Number of complaints about drinking water odour		5	
	Number of complaints about drinking water pressure or flow		106	
	Number of complaints about continuity of supply		438	
	Number of complaints about our response to any of these issues		0	
	Total complaints expressed per 1000 connections to the local authority's networked reticulation system	<15	14.9	
Demand management	The average consumption of drinking water per day per resident within the territorial authority district	<240 litres per day	184	Target met, although unusually low consumption figure for Q4 currently being investigated.

Item 5

Attachment A

# INFRASTRUCTURE SERVICES COMMITTEE

30 August 2016



Item 5

Attachment A

<b>Stormwater Measure</b>		<b>Target</b>	<b>15/16 result</b>	<b>Comment</b>
System and adequacy	The number of flooding events that occur in a territorial authority district.	0	0	For this measure; a flooding event is defined as an overflow of stormwater from a territorial authority's stormwater system that enters a habitable floor, and a habitable floor refers to a floor of a building (including a basement) but does not include ancillary structures such as stand-alone garden sheds or garages.
	For each flooding event, the number of habitable floors affected. (Expressed per 1000 properties connected to the territorial authority's stormwater system)	0	0	
Management of environment impacts	Abatement notices	0	0	
	Infringement notices	0	0	
	Enforcement orders	0	0	
	Successful prosecutions, received by the territorial authority in relation those resource consents	0	0	
Response to stormwater system issues	The median response time to attend a flooding event, measured from the time that the territorial authority receives notification to the time that service personnel reach the site	60 mins	N/A	There were no flooding events as defined above for 2015/16.
Customer satisfaction	The number of complaints received by a territorial authority about the performance of its stormwater system, expressed per 1000 properties connected to the territorial authority's stormwater system.	<1	0.25	Number of rated properties for stormwater is 47231.

<b>Wastewater Measure</b>		<b>Target</b>	<b>15/16 result</b>	<b>Comment</b>
System and adequacy	The number of dry weather sewerage overflows from the territorial authority's sewerage system, expressed per 1000 sewerage connections to that sewerage system	0	0	
Management of environment impacts	Abatement notices	0	0	
	Infringement notices	0	0	
	Enforcement orders	0	0	
	Convictions, received by the territorial authority in relation those resource consents	0	0	
Response to sewerage system faults	Median attendance time: from the time that the territorial authority receives notification to the time that service personnel reach the site	60 mins	31 mins	
	Median resolution time: from the time that the territorial authority receives notification to the time that service personnel confirm resolution of the blockage or other fault	240 mins	109 mins	
Customer satisfaction	Number of complaints about sewage odour		39	Number of rated properties for wastewater is 47863. The majority of odour complaints were related to the biofilters at Tahuna Wastewater Treatment Plant, with the warmer weather making the odour more prominent. A project is currently being commissioned to renew the biofilter bark in each filter annually which should greatly improve odour beyond the boundary of the plant.
	Number of complaints about sewerage system faults		14	
	Number of complaints about sewerage system blockages		209	
	Number of complaints about the territorial authority's response to issues with its sewerage system		0	
	All of the above complaints expressed per 1000 connections to the territorial authority's sewerage system	<5	5.47	

## **INFRASTRUCTURE SERVICES COMMITTEE**

**30 August 2016**

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**Item 5**

**Attachment A**

## **UPDATE ON PROGRESS ON THE THREE WATERS COMPONENT OF THE INFRASTRUCTURE STRATEGY**

Department: Water and Waste

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### **EXECUTIVE SUMMARY**

- 1 The purpose of the report is to update the Committee on progress against the 3 Waters aspects of the 30 year infrastructure strategy (the Strategy).

### **1 RECOMMENDATIONS**

That the Committee:

- a) **Notes** the Update on progress on the infrastructure strategy.

### **BACKGROUND**

- 2 On 26 April 2016, the Infrastructure Services Committee requested that staff provide an update the Strategy noting particularly:
  - South Dunedin Stormwater and Sewerage Infrastructure
  - Mosgiel Stormwater and Sewerage Infrastructure.
- 3 The 30 year Infrastructure Strategy was incorporated into the Long Term Plan 2015/16. For the 3 Waters, it draws on the themes that were incorporated into the 3 Waters Strategic Direction Statement 2010-2060. Both documents take a long term perspective on issues, opportunities and priorities for 3 Waters services and infrastructure investment.
- 4 The Strategy notes a number of challenges that the Council will face over the next 30 years. These include:
  - Ageing infrastructure
  - Relatively low levels of population growth and economic growth
  - An ageing population which will provide challenges and opportunities for infrastructure networks.
  - Predicted effects of climate change.

- 5 It emphasises that over the next 30 years the Council plans to:
- Maintain existing levels of service while managing the above challenges
  - Managing infrastructure by focusing expenditure on renewal of ageing assets
  - Step up the level of renewals funding in the next 5 years and hold funding at the increased level to manage peaks in asset renewals.

## **DISCUSSION**

### **Key Projects**

- 6 The strategy provides an overview of the key projects for Water, Wastewater and Stormwater over the 30 year period. These are shown in Attachment A. An update is provided below on the progress against projects intended to be undertaken in the first few years of the strategy (2015 onwards).

#### **Water Supply Projects**

##### *Water Network Renewals*

- 7 The recent water main renewals programme has been primarily driven by opportunity to link in with other infrastructure works, such as the Kaikorai wastewater network renewals, or developments in the University precinct. Water main renewals in Outram were completed in 14/15 and also provide additional capacity for new development. Renewal of the water main from Rotary Park to Grassy Point was also completed in 15/16 to reduce the frequency of supply interruptions on the peninsula.

##### *Outram Water Treatment Plant Upgrade*

- 8 The Outram Water Treatment Plant upgrade was required to ensure that drinking water complied with Ministry of Health standards. The upgrade works on the Outram treatment plant have recently been completed, and the plant is currently in its trial operations period, after which practical completion will be issued. Once this work is completed, all of the Council's water treatment plants will be compliant.

##### *Security of Supply Strategy*

- 9 This strategy includes several linked projects over an extended period to mitigate the risk of failure of the Taieri Bridge, causing loss of the Deep Creek and Deep Stream supply pipes. Without the projects identified in the Security of Supply Strategy, if the Taieri Bridge crossing collapsed, the hill suburbs of Dunedin would go without water after approximately 20 days. Repairs to the bridge would take several months to implement during which time tankered water would be needed to supply the hill suburbs. Once all projects are completed, the hill suburbs could be supplied with water indefinitely (potentially with water restrictions) in the event that the bridge failed.

- 10 The first project was to install a pumping station to pump water from the Southern to Mount Grand pumping station. This project is now complete. The second project is the rehabilitation of the Ross Creek Dam to allow Ross Creek to be brought back into service. Work on this project is continuing

##### *Pressure Reducing Valves*

- 11 A number of areas of the City have extremely high water pressure due to the hilly topography. This increases the amount of water that leaks from pipes and also shortens the life of the infrastructure and increases the risk of breaks. The Council is working through a programme of installing pressure reducing valves. Three were installed in Anderson's Bay in 14/15. A further valve has been installed on the Ramrock Rd

distribution pipeline to extend its life and reduce the number of water supply interruptions to customers in Waikouaiti.

*Plans for 16/17 and 17/18*

- 12 The Ross Creek Dam will continue. This will be followed by work to design and construct a pumping station from Ross Creek to Mount Grand, which would allow water from Ross Creek to be treated and put into supply. Work will also continue on a range of minor dam safety improvements that have been identified as part of the Dam Safety Assurance Programme.

### **Wastewater Projects**

- 13 The Infrastructure strategy contains the following priority projects for mitigating foul sewer overflows to the environment.

*Anderson's Bay Wastewater Renewals*

- 14 The first phase of work was completed at a cost of \$6m. This has eliminated a wastewater overflow to the Anderson's Bay inlet in all but the most significant storm events. Further renewals are tentatively planned for 2020, subject to prioritisation of works nearer the time.

*Kaikorai Valley Wastewater Renewals*

- 15 These renewals are targeted at removing overflows to the Kaikorai Stream, wastewater flooding in Surrey Street and overflows of manholes in the Caversham Tunnel. All of these issues arise due to inflow and infiltration of stormwater into old, cracked pipes in Kaikorai Valley. This work is split into a series of phases and is expected to take at least 10 years to fully address the issues. Phase 1 (approximately \$3m) was completed in 15/16. Phase 2 (\$3.7m) is in progress and expected to be completed in Sept / Oct 16. Phase 3 is at the detailed design stage with tenders expected to be called in October 2016. Phase 4 is in preparation.

*Surrey Street Diversion*

- 16 This project is the construction of a wastewater diversion pipe to take some of the flow from the Hillside Rd area to another part of the catchment to reduce the risk of flooding of Surrey Street, with an estimated cost of \$4m. Flow monitoring to inform the design is programmed for Q1/2 of the 16/17 year. As the root cause of the Surrey Street flooding issue is inflow and infiltration in Kaikorai, it may be more effective to accelerate the Kaikorai renewals than create a local bypass. This will depend on the results of post construction monitoring of the first phases of work in Kaikorai Valley as well as the flow monitoring planned for Surrey Street. The relative merits of the two options will be confirmed before the bypass project proceeds to construction.

*North East Valley Wastewater Renewals*

- 17 This work is programme for construction in 2019-25. CCTV work to prioritise the programme of work will be tendered in Q1 16/17.

*Northern Wastewater Strategy*

- 18 The proposed consent strategy was approved by the Committee on 26 May. The DOC concession for the Seacliff WWTP has now been lodged. The next step is to prepare the consent application for the existing treatment plants.

*Plans for 16/17 and 17/18*

- 19 Renewals will continue to be targeted to reduce flooding and overflows. Kaikorai Valley phase 3 and 4 will be constructed during this period. Renewals at the Mosgiel Wastewater Treatment Plant will also be undertaken, commencing with replacement of the main switchboard.

**Stormwater Projects***Stormwater renewals*

- 20 Recent stormwater renewals have generally been prioritised to co-incide with high priority foul sewer renewals to gain cost efficiency. Recent projects include renewals in the University Precinct, Kaikorai Valley, Cambria Place and Hazelhurst Pass.

*Flood mitigation*

- 21 Both the 3 Waters Strategic Direction Statement and Infrastructure Strategy include the objective to ensure that there is no increase in the number of residential or commercial properties at risk of sewer flooding (wastewater or stormwater), despite increasing pressure on the network'. Through the Integrated Catchment Management Plans (ICMPs) Mosgiel and South Dunedin are identified as areas where there is a low levels of service for flooding, as are a number of other stormwater catchments. The table below compares the modelled risk of property flooding for the catchments with stormwater models. A map of the catchment boundaries is provided as Attachment B.

• Catchment	• Catchment Area (ha)	• Number of land parcels at risk of flooding to a depth >300mm	
		• 1 in 10 year event	• 1 in 50 year event
• Orari St	• 344	• 50	• 85
• Shore St	• 100	• 21	• 40
• Halsey St	• 390	• 20	• 32
• Mosgiel	• 600	• 10	• 22
• South Dunedin	• 570	• 8	• 31
• Mason St	• 210	• 7	• 24
• Port Chalmers	• 58	• 4	• 9
• Portsmouth Drive	• 40	• 3	• 6
• Kitchener St	• 137	• 2	• 16
• St Clair	• 164	• 2	• 5
• Ravensbourne Rd	• 25	• 0	• 0

• The table shows the number of land parcels which are modelled to have >300mm of flooding during the event in question. This is based on current land use and rain fall models. It does not include growth or climate change predictions. The model results above relate to flooding from the stormwater network only and do not account for factors such as groundwater flooding, watercourse flooding or

*overland flow from other areas. Flooding to a depth of >300mm is taken as indicative of the potential to flood the floor level of a house or business. However, it is indicative only as building may not be at the lowest point on the site, and floor levels may be more or less than 300mm above ground.*

- 22 Following the June 2015 storm both Mosgiel and South Dunedin have come under particular focus, and staff have reprioritised to progress investigations of flooding in these areas. Further work will be completed for the 2017/27 Long Term Plan to assist Council to decide about projects to improve the capacity of the stormwater system
- 23 The only project specifically mentioned in the Infrastructure Strategy is the proposed new stormwater trunk main and outfall for the Mason St catchment to provide improved flood protection for the Queen's Garden / Heritage Precinct area. This area was badly affected in the 2005 when 20 properties were flooded in the area South of Rattray Street through to Queen's Gardens. Work was scheduled for construction in 2017/18 but design work has been delayed due to a change in priorities following the June 2015 event.

***South Dunedin***

- 24 The design of the screen at the Portobello Rd pumping station was identified as a particular issue in June 2015. Consequently, the screen has been redesigned and a new screen is currently being installed. The new screen is expected to be commissioned in October 2016, weather permitting.
- 25 The South Dunedin ICMP identified that during large events there may be overland flow from adjacent catchments, but these were not modelled. During the June 2015 event, overland flow was evident and considered to be quite significant. The hydraulic models are being linked to allow the interplay between catchments to be effectively modelled. The model results, and high level options for improving infrastructure performance during large events should be available later this year, in time for consideration in the Long Term Plan.
- 26 Waster overflows in Surrey Street are identified as a priority for the South Dunedin area. These occur due to stormwater entering old and cracked pipes in the Kaikorai and North East Valley areas of the City which then cause overflows as the downstream pipes are overloaded. These wastewater overflows are being addressed through the renewal of the wastewater network as described in the section on wastewater renewals above.

***Mosgiel***

- 27 In June 2015 there was significant flooding in a number of areas of Mosgiel, with Woodland Ave and Kinmont Crescent being some of the worst affected. Appraisals have been completed that have identified works that will reduce the risk of flooding of these areas, and these are being progressed with the relevant stakeholders. This includes opening up a short section of piped watercourse and stormwater pipe adjacent to Woodland Ave, and putting non-return valves on the culverts that take water from Kinmont Crescent under the state highway. Consideration is also being given to installing small pumps to pump water under the state highway if required.
- 28 Flows within the Ophiro Stream have been identified as providing a significant constraint to how much the flood risk can realistically be reduced by localised engineering interventions. The ORC has advised that it will be undertaking an assessment of the flood hazards from the Ophiro Stream during the 16/17 year. Council staff will be liaising with ORC staff to incorporate consideration of the impacts of the Ophiro on stormwater flooding in the analysis.

***Plans for 16/17 and 17/18***

- 29 The high level of options for South Dunedin stormwater improvements will be available later this year. However, there is currently no provision in the LTP for significant

upgrades to the stormwater network. Progressing these options will be subject to provision of additional funding or reallocation of existing funding through the annual plan process.

**OPTIONS**

30 As this is an update report there are no options.

**NEXT STEPS**

31 Next steps for specific projects are included in the discussion above.

**Signatories**

Author:	Laura McElhone - Group Manager Water and Waste
Authoriser:	Ruth Stokes - General Manager Infrastructure and Networks

**Attachments**

	<b>Title</b>	<b>Page</b>
A	Significant 3 Waters Project (extract from the Infrastructure Strategy)	24
B	ICMP Catchments	25

**SUMMARY OF CONSIDERATIONS*****Fit with purpose of Local Government***

This decision/report/proposal relates to providing local infrastructure and it is considered good-quality and cost-effective.

***Fit with strategic framework***

	Contributes	Detracts	Not applicable
Social Wellbeing Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Economic Development Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environment Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arts and Culture Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 Waters Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spatial Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integrated Transport Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks and Recreation Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other strategic projects/policies/plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This report provides an update on the Infrastructure Strategy.

***Māori Impact Statement***

There are no known impacts for Māori.

***Sustainability***

This is an update only.

***LTP/Annual Plan / Financial Strategy /Infrastructure Strategy***

The Three Waters aspect of the existing LTP increases renewals spending from \$8m per year to \$22m per year over the course of the LTP. This level of investment will be reviewed at the next LTP, along with any necessary new capital expenditure.

***Financial considerations***

There are no known financial considerations associated with this update report.

***Significance***

There is no decision associated with this update report.

***Engagement – external***

No external engagement has been undertaken.

***Engagement - internal***

No internal engagement has been undertaken.

***Risks: Legal / Health and Safety etc.***

There are no known risks associated with this update report.

***Conflict of Interest***

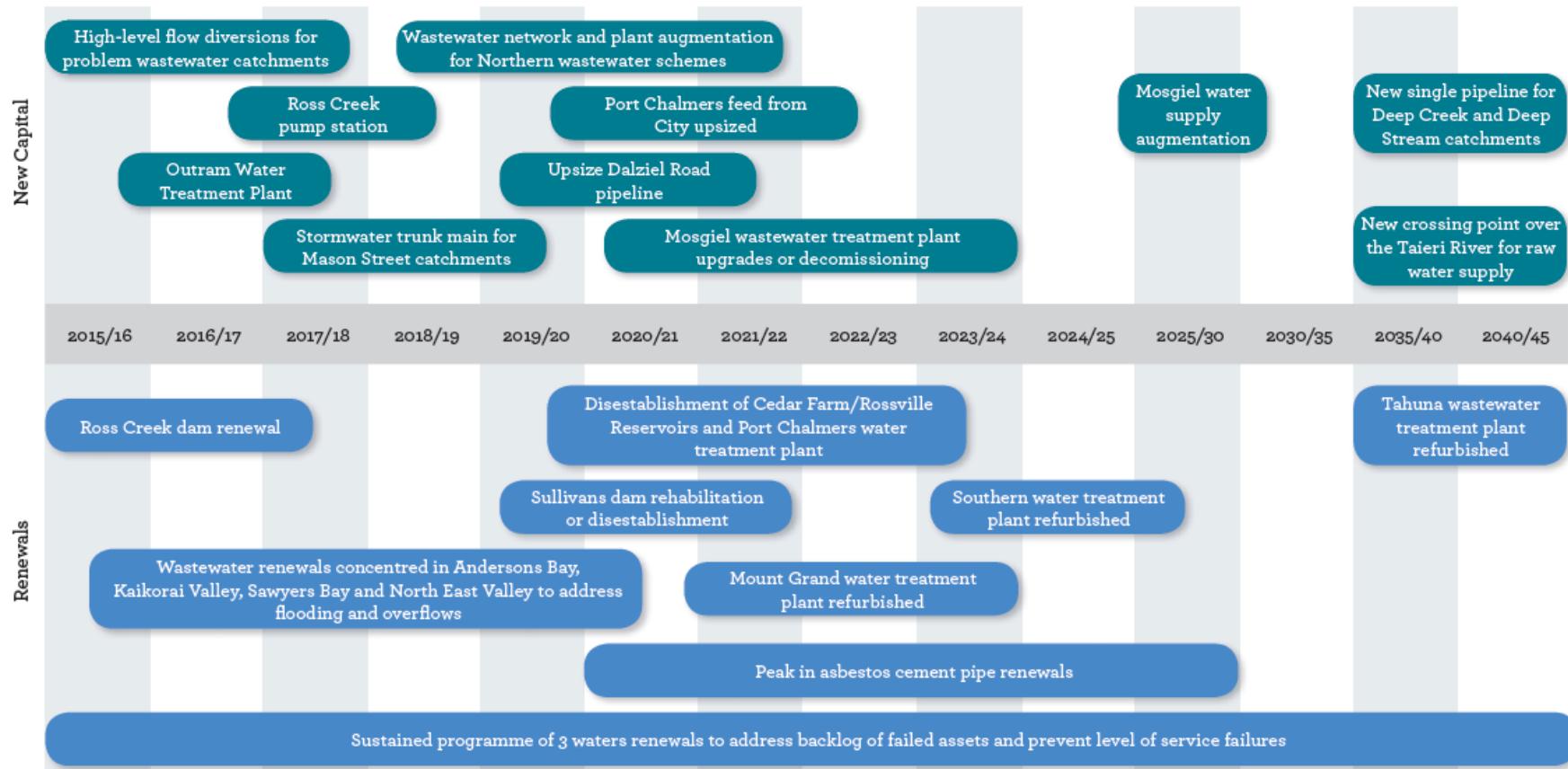
There are no known conflicts of interest.

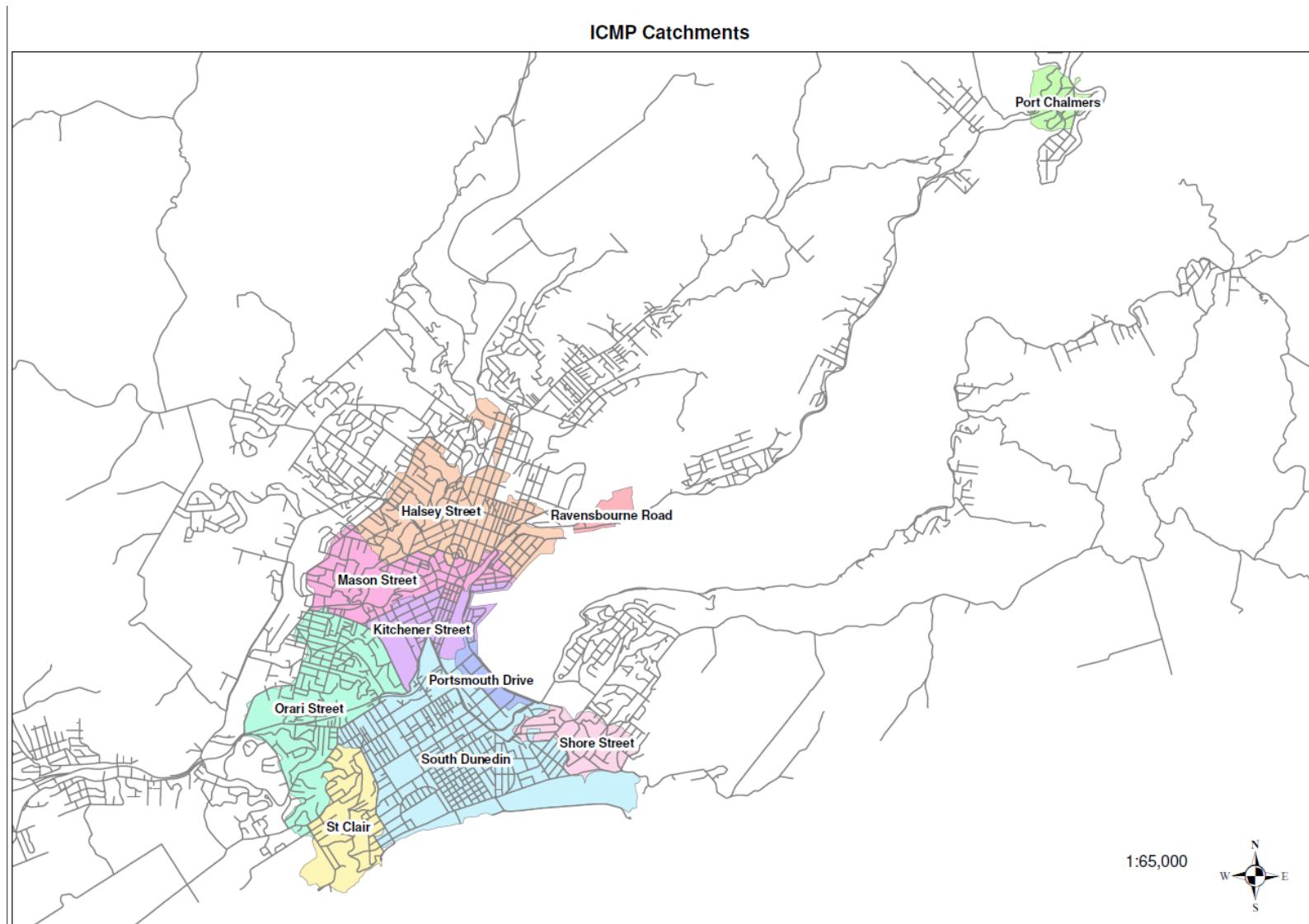
***Community Boards***

Community Boards have an interest in the Three Waters component of the Infrastructure Strategy

Significant projects over the next 30 years

3 Waters estimated timeline of significant Capital Projects





## **SOLID WASTE ACTIVITY REPORT FOR THE QUARTER ENDING 30 JUNE 2016**

Department: Water and Waste

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### **EXECUTIVE SUMMARY**

- 1 This report updates the Committee on Solid Waste operations, maintenance and capital works, including contracted out services.
- 2 Highlights for the quarter include:
  - Launch of Love Food Hate Waste campaign
  - Launch of free medical waste collection service
  - Transfer of Enviroschools Facilitation to Events and Community Development
  - Contractor appointed to progress the City Recycling Programme – stage one

### **RECOMMENDATIONS**

That the Committee:

- a) **Notes** the Solid Waste Activity Report for the Quarter ended 30 June 2016.

### **BACKGROUND**

- 3 The Solid Waste activity provides for the effective collection, resource recovery and residual disposal in a way that protects public health, and minimises impact on the environment.
- 4 The Solid Waste activity includes:
  - Kerbside collection of refuse and recycling for most urban residents and some businesses.
  - Disposal Facilities for waste and Resource Recovery Centres at Green Island, Waikouaiti and a transfer station at Middlemarch for residents to drop off waste and recycling. Waste collected at the community transfer stations is then transferred to Green Island Landfill.
  - Public place recycling infrastructure and servicing is provided on the streets in the CBD and several urban locations in the district.
  - Monitoring the state of the Council's open and four closed landfills in accordance with conditions of consents.
  - Education programmes promoting "rethinking, reducing, reusing and recycling", cleaner production and sustainable business practice.

## DISCUSSION

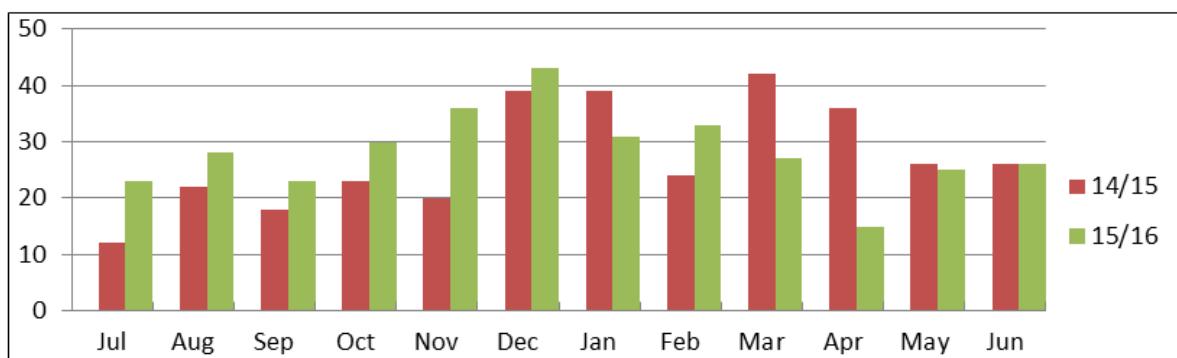
### Management of Solid Waste services

- 5 Kerbside collection services (refuse and recyclables) are carried out by Enviroway Limited in urban Dunedin. Kerbside collection services in Middlemarch are carried out by a sub-contractor to EnviroWay Ltd.
- 6 The management and operation of the Green Island landfill is carried out by Delta Limited. The transfer stations and resource recovery centres at Waikouaiti and Middlemarch are managed by a sub-contractor to Delta Ltd.
- 7 The collection of illegally dumped rubbish, emptying of street litter bins, including recycling bins and refuse and recycling collection services in the CBD, are contracted to McCallum Street Sweeping Services Ltd.

### Non-financial performance

#### Service

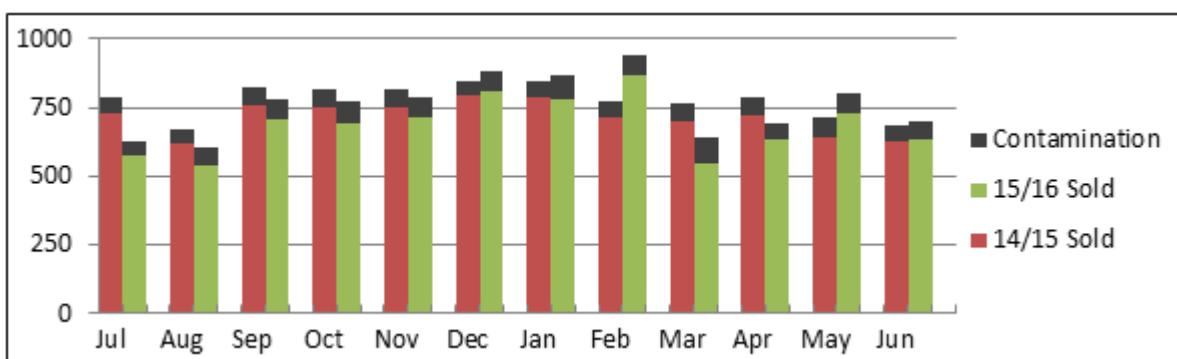
- 8 Number of complaints regarding missed collections after 4pm



- Since the start of 15/16, improvements have been made to the processes for managing and recording customer requests. This has improved the accuracy of reporting and resulted in a reduction in response times to complaints, as well as a reduced number of repeat contacts. The 14/15 data is less reliable and consequently 14/15 complaint numbers may be under recorded.

#### Value and Efficiency

- 9 Total waste collected and diverted.



- The Material Recovery Facility is under new management. More rigour has been applied to the sorting process, this means contamination rates are up slightly but recyclable material is cleaner as a result.

- A target of 190 kgs of recyclables collected per household per month was set in July 2014. This was 40 kgs higher than the previous target of 150 kgs. Performance is tracking at 187 kgs per household per month.
- These numbers represent all of council collection points, not just kerbside, including public places recycling, community drop off facilities and recycling from resource recovery centres.

### Major initiatives

- 10 **Landfill management long term** - The operating contract with Delta has been extended into the 2016/17 year to allow time to scope and prepare the next contract or suite of contracts for the operations and maintenance of Council sites and services related to landfills including aftercare, transfer stations and resource recovery centres, environmental monitoring and reporting and rural skip days.
- 11 **Landfill fire and Public Education** - There was a fire at the Green Island landfill in April. Fortunately, the response to the fire was quick and it was able to be extinguished within 12 hours of being reported. Although the cause of the fire was not identified staff have determined that it was likely one of the following products that was a contributing factor; warm ashes, lithium batteries or gas bottle. Print and radio advertisements have been developed to advise the public of the correct way of disposing of these products.
- 12 **Enviroschools** - Staff have been working closely with the ORC to facilitate the transfer of Regional Co-ordination of the Enviroschools programme to the ORC. The ORC will be recruiting staff for a 1 July 2016 transfer of this function. There will be an increase in resource to facilitate the programme within Dunedin to offset the workload that has been transferred to the ORC. Facilitation of the Enviroschools programme has been transferred to the Community Development Activity as this better aligns with the content and aspirations of the Enviroschools programme. The recruitment process for a second Enviroschools Facilitator has begun.
- 13 **Emissions Trading Scheme** - A submission to Central Government's discussion document on the New Zealand Emissions Trading Scheme Review was prepared. The submission highlighted the financial risk and potential price shocks associated with an increase to landfill charges. Central Government has decided to phase out the one for two surrender of New Zealand Emission Units over a three year period. Landfill charges were recalculated for the 2016/17 year to account for the additional cost and this was applied to emitting waste streams.
- 14 **The Central Activity Area** - A project manager has been engaged for six months to progress two projects aimed at improving recycling facility and services in the city. Specifically introducing two pilot neighbourhood recycling facilities in the Warehouse Precinct area and back of house collection services for cardboard, including paper and soft plastics in the New Year.
- 15 **Improving Street Cleanliness in the University Area** - The University has identified that some funding is available for additional kerbside collections and street cleaning in the University Area. DCC and University staff have agreed that a project brief, which defines the problem and scope of improvements, is needed in order to proceed. The University will engage a consultant to complete the integrative work and the Cleanliness Group will review the final brief. In the interim staff will propose a three month trial of an additional Clean Street Collection Service to remove all visible mess from streets in the Campus area. A weekly 'Clean Streets' report will be used to monitoring and reporting on purposes. This will also allow sufficient time to develop the brief that will look at improvements over the longer term, student engagement and support waste minimisation.
- 16 **Organics Reduction** – The official launch of Love Food Hate Waste was on 30 June. This was a well-attended event with ticket sales selling out. Staff also attended a stall at

the Otago Farmers Market the following day and there was good interest shown by the public. Food Waste was also a theme that ran throughout the Food Design Conference which generated good media attention to the issue. Staff continue to find opportunities to promote FoodShare food rescue services and are working collaboratively with the Food Resilience Business Advisor.

- 17 **The Waikouaiti Landfill Closure Plan** – The Plan was submitted to the ORC. The resource consent for discharge to land expired in April 2016 which means waste can no longer be landfilled at the site. The site still maintains two consents being discharge to air and discharge to water. These consents require DCC to continue a regime of testing, monitoring and reporting on the environmental effects of the closed landfill. The environmental report is submitted to ORC annually. Suitable clay material has been identified for the final capping of the Waikouaiti Landfill and the work will begin this summer as dry weather conditions are required.
- 18 **Medical Waste** – Staff have been working collaboratively with the Southern District Health Board to establish a collection service for used needles, syringes and expired medicines. This is the first initiative in the country that is provided free to the public. It was launch on 1 April and forty pharmacies throughout Otago are participating in this initiative. DCC staff are continuing communications that will promote the service to the public.

### Capital projects

Name	Budget	Actual
Purchase of additional yellow-lidded wheelie bins and blue glass bins	\$16,684.22	
Consultancy Services review of Green Island gas field	\$46,658.00	
<b>Forecast</b>		
Waikouaiti Transfer Station	\$100,000	
Waikouaiti Final Capping	\$100,000	
Telemetry Renewals	\$40,000	

- 19 A purchase of additional recycling bins was required as stocks were getting low. These bins were needed as replacements for those that have gone missing, been damaged and to support extensions to the existing kerbside collection areas.
- 20 Consultancy work on gas collection improvements has been completed, with a range of recommendations provided to optimise gas production. These options are being prioritised. The highest priority improvements will be implemented in 16/17 followed by a review of effectiveness, before making further lower priority improvements if required.
- 21 The budget for improvements to the Waikouaiti Transfer Station has been carried forward as improvements will be made in the coming months to make the site safer and to increase the collection capacity as waste can no longer be discharged to the landfill.
- 22 Landfill aftercare funds have been drawn down for the final capping of Waikouaiti landfill. This work will commence in the coming months as dry weather is required.
- 23 The telemetry system that monitors leachate at the landfill pump stations requires maintenance to ensure accurate readings are provided so water quality continues to be monitored effectively and timely alerts are sent if issues occur.

### OPTIONS

- 24 As this is an update report, there are no options.

**NEXT STEPS**

25 Areas of focus for the next quarter will be:

- Work with consultants in scoping the waste and resource recovery facilities and services and to prepare the next Waste Facilities Operations and Maintenance contract(s).
- Undertake a health and safety review of the Waikouaiti Transfer Station and Resource Recovery Centre to identify improvements for the short term. Survey Waikouaiti transfer station and resource recovery customers asking them what they like about the facility and what they would like to see change. The feedback from these reviews will inform the future layout of Waikouaiti transfer station and resource recovery centre in preparation for further consultation with the Waikouaiti community. Take a group of interested parties on a tour of other community transfer stations and resource recovery centres.
- Further develop recycling communication aimed at increasing the amount of clean recyclable material collected via DCC collection services and reducing contamination. Including communications to support uptake of the new medical waste collection service.
- Continue to work collaboratively with The University and other Council departments in the preparation of a brief which scopes out service level improvements and educational initiatives that promote waste minimisation aimed at improving street cleanliness in the campus area.
- Continue to progress the city recycling plan stage 1 and engage the community in the process.
- Recruiting replacement and additional staff to support solid waste activities.

**Signatories**

Author:	Catherine Irvine - Solid Waste Manager
Authoriser:	Laura McElhone - Group Manager Water and Waste Ruth Stokes - General Manager Infrastructure and Networks

**Attachments**

Title	Page
A Waste Management and Minimisation Plan update 2015/16	33

**SUMMARY OF CONSIDERATIONS*****Fit with purpose of Local Government***

This decision relates to providing local infrastructure that is considered good-quality and cost-effective.

***Fit with strategic framework***

	Contributes	Detracts	Not applicable
Social Wellbeing Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Economic Development Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Environment Strategy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arts and Culture Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 Waters Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spatial Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Integrated Transport Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks and Recreation Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other strategic projects/policies/plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The solid waste activity supports the outcomes of a number of strategies.

***Māori Impact Statement***

There are no known impacts for tangata whenua.

***Sustainability***

The solid waste activity contributes positively to the environmental interests of the community through refuse and recycling collection at the kerbside and public places, educating and promoting environmentally sustainable behaviour and managing landfill and transfer station facilities.

***LTP/Annual Plan / Financial Strategy /Infrastructure Strategy***

The solid waste activity is included in the Long Term Plan.

***Financial considerations***

The updates reported are within existing operating and capital budgets.

***Significance***

This decision is considered of low significance under the Significance and Engagement Policy.

***Engagement – external***

As an update report no external engagement has been undertaken.

***Engagement - internal***

As an update report no internal engagement has been undertaken.

***Risks: Legal / Health and Safety etc.***

There are no identified risks.

***Conflict of Interest***

There are no identified conflicts of interest.

***Community Boards***

Not applicable.

**INFRASTRUCTURE SERVICES COMMITTEE**  
**30 August 2016**

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**Item 7**

<b>Objective 1: All DCC Policies and Plans clearly align with the vision, goals, guiding principles and objectives of the Waste Management and Minimisation Plan.</b>						
<b>Policy</b>	<b>Method</b>	<b>Status</b>	<b>Update - Current Projects</b>	<b>Forecast – Next Steps</b>		<b>Timeframe</b>
Account is taken of the Waste Management and Minimisation Plan during the preparation of DCC Policies and Plans.	The Waste Management and Minimisation Plan is implemented across the organisation via the DCC Strategic Advisory Sub-Group	Initiated	Current collaborations in progress include; food waste minimisation as it aligns with Food resilience. Cross functional work within Infrastructure and Services team on improving illegal dumping administration and reporting and level of service in the Campus area.	Contribute to Dunedin Art Gallery exhibition on reuse materials. In addition to promoting Rummage and Free Resources Waste Exchange.		September 2016
	The Dunedin City District Plan recognises the storage and access needs in the provision of services and land use (i.e. the management of best practice cleanfill operations in relation to city earthworks).	Monitor	Provided input throughout the 2GP process in regards to non-levied landfills and collection services on private roads – waivers have not been included on the LIM reports for properties to allow kerbside collection services on private roads.  Reviewed and provided feedback on a commercial cleanfill consent application.	Continue to provide the City Development team with information and advice where appropriate.		On-going
Each DCC activity is accountable for managing resources and minimising waste in accordance with the Waste Management and Minimisation Plan.	Each DCC activity will report annually on their waste minimisation activity.	Initiated	Initial conversations have been had with City Property re: waste and recycling service level agreements and identifying opportunities for improvements.  City Property is working with tenants in the Civic Centre to improve recycling practice.  Libraries continue to reduce their waste year on year.	Provide advice and guidance to City Property managers about waste and recycling collection services in view of establishing collection contracts to DCC properties.		tbc
	Develop and adopt a DCC purchasing policy that supports the reduction of waste and increased resource efficiency.	On-going	Event recycling now inbuilt into Event and Communities Development's 'Event Management System'.  Libraries have recycling and composting built into their conditions for meeting room hire.  Staff continue to support the recycling efforts of Forsyth Barr Stadium.  The supply agreement for IT equipment now requires a take back service for recycling ewaste.	Exploring using a not-for-profit community group for a staffing event recycling stations and to provide educational support.  Staff are investigating DCC catering suppliers in order to promote FoodShare food rescue services.		November 2016  December 2016
Review and adopt a Solid Waste Bylaw under Section 56 of the Waste Minimisation Act 2008	License waste and diverted material collectors to enable reporting on the quantity, type and destination of waste and diverted material.	More resource required	Prepare and adopt an Enforcement Strategy for applying penalties under the Litter Act including Clearance Orders for illegal dumping prosecutions.	Legal review of draft Solid Waste Bylaw against other model bylaws that give power to Section 56 of the WMA.		tbc
	The DCC will report City waste and diverted material information and data to the community annually.	Continuous Improvement	Improvements have been made to the ROS survey questions about waste and recycling.  Improvements have been made to annual plan KPI reporting.  Household food waste data has been calculated for Dunedin as part of Love Food Hate Waste. This is being communicated through public events and media.	Continue to collect data that informs decisions and will be of interest to the public and report this through the appropriate channels.		On-going

<b>Objective 2: The community has access to services for diverted material</b>						
Policy	Method	Status	Update - Current Projects	Forecast – Next Steps	Timeframe	
The DCC will continue to provide a kerbside collection service for diverted material which caters to a growing resident population, recognises the specific demands of our district demographic, and is inclusive of small businesses on collection routes.	Continue and extend the DCC's kerbside collection service area for recycling into selected areas.	Continual Improvement	<p>Letters are being prepared to consult with property owners in regards to extending the DCC's kerbside collection service to upper North East Valley, Station Apartments and in a residential section of the CBD.</p> <p>University stakeholders have expressed concerns about the street cleanliness in the student area. The Cleanliness Group is coordinating the DCC response and will review the scope of the project brief.</p>	<p>Investigate introducing a kerbside collection service to Pukehiki residents with possible relocation of the existing Community Recycling Drop Off Facility to service other residents close to the area.</p> <p>Review a proposal for an improved level of service in the Campus area that supports Street Cleanliness. Cost out options and present a report with recommendations.</p>	November 2016	
	Provide residents in the Central Business District and South Dunedin retail area with a DCC collection service for recyclables.	In progress	<p>A contractor has been engaged to progress two stage one improvements to introduce recycling services and facilities in the CBD i.e. 2 x pilot neighbourhood recycling facilities in the Warehouse Precinct and Back of House Collection Services for cardboard, introducing soft plastics and paper in the new year.</p> <p>A Request for Proposals has prepared for the design of Neighbourhood Recycling Facilities for the Warehouse Precinct.</p> <p>Staff have prepared letters to consult with property owners in the CBD to bring them on to kerbside recycling collection services.</p>	<p>DCC partnership proposal with FoodShare that will actively promote food rescue services to hospitality businesses in the CBD.</p> <p>Evaluate proposals and choose a design for the Neighbourhood Recycling Facilities for community consultation.</p> <p>Extend the kerbside collection area to include these city properties once approval has been received.</p> <p>Based on the review of the Pilot Neighbourhood Recycling Facilities opportunities will be sought to extend the network of drop off locations for recycling in the city in 2017.</p>	January 2017	
	The DCC will continue to monitor the demand for, and benefits of, providing a kerbside collection service for organic waste.	Information Gathering & Evaluation	Continue to stay informed with what is happening with other Council collections.	<p>Review options in 2017 in readiness for public consultation in line with the next kerbside collection service contract.</p> <ul style="list-style-type: none"> <li>• Composting operations</li> <li>• Waste to energy operations</li> </ul>	tbc	
<b>Objective 3: The community has access to facilities for diverted material</b>						
The DCC will increase the capability and capacity of its resource recovery facilities.	The DCC will continue to develop DCC-owned resource recovery centres at Green Island and Waikouaiti.	In progress	<p>Collection capacity for recycling at Green Island Resource Recovery Centre has been scaled up. With more glass, mixed recycling, ewaste including TV's. There is an increasing demand for additional recycling services. An up-cycling garden has been established which aims to provide customers with inspirational ideas of how to reuse. This includes a reimaged bus shelter which will be used to house educational material for school tours.</p> <p>Collection capacity for recycling at Waikouaiti Transfer Station and Resource Recovery Centre has been scaled up with more collection bins and change from fortnightly to weekly collection service.</p>	<p>Improvements to Green Island Resource Recovery Centre will include more educational signage and the landscape development to support safe school tours of the landfill.</p> <p>A review of this site is currently underway a site design will be prepared based on the information which has been gathered and feedback from the community. Initial improvements will be made ensure site health and safety, further improvements will be incorporated in the design to maximise resource recovery and reduce transfer station waste.</p> <p>Review providing a DCC subsidy for e-waste recycling.</p>	tbc tbc tbc	

Policy	Method	Status	Update - Current Projects	Forecast – Next Steps	Timeframe
	The DCC will provide outlying communities, distanced from a Resource Recovery Centre, with drop-off collection facilities for diverted material which community members manage and maintain under agreed terms with the DCC.	Continuous Improvement	<p>Four Community Recycling Facilities have been introduced.</p> <ul style="list-style-type: none"> <li>• Hooper's Inlet</li> <li>• Pukehiki</li> <li>• Lee Stream</li> <li>• Middlemarch</li> </ul> <p>Staff are reviewing both the Pukehiki and Middlemarch sites in view of increasing collection capacity, reducing incidents of illegal dumping and improving health and safety.</p>	Make improvements in consultation with the effected communities.	On-going
	The DCC will work in collaboration with businesses, not-for-profit organisations and existing resource recovery facility operators to establish a network of resource recovery centres for the collection of diverted material.	More Resource Required	DCC continues to work with Cargill Enterprises for ewaste collection and recycling.	Investigations into whether there are community groups interested in becoming hand-on involved in DCC resource recovery centre operations.	tbc
The DCC will continue to enlarge a network of public places recycling bin facilities to areas identified as community hubs or tourist hot spots and in line with city development and planning.	The DCC will continue to support the national 'LoveNZ recycle with care' brand and engage stakeholder participation.	Continuous Improvement	<p>The network of recycling bins was initially established in 2011 as it coincided with Rugby World Cup. The network has grown in the time from 52 bin recycling stations in and around the city to 92 recycling stations now in urban hubs and tourist locations.</p> <p>There continues to be a demand for more recycling stations. There Dunedin manufacturing business that makes the recycling station has changed ownership and this has delayed the process of getting more bins made.</p>	Go out for tender for the manufacturing of DCC public places recycling stations.	tbc
<b>Objective 4: The community has access to services for waste management</b>					
The community has access to services for waste management.	The community continues to receive a kerbside collection service for waste.	On-going	Business as usual		Contracted to 2018/19
	The DCC maintains collection and maintenance contracts for servicing the city's litter bins.	On-going	Business as usual		Contracted to 2018/19
	The DCC will collect illegally dumped waste deposited on public land under collection contracts.	In progress	<p>Staff across departments are reviewing a more collaborative response to better manage incidents of illegal dumping in the city. This review covers reporting of incidents, information management, community engagement and the infringement process.</p> <p>The infringement process has now been built into Pathway.</p> <p>Processing mapping is in progress.</p>	<p>Continue to develop the support systems that will enable improvements to be made.</p> <p>Prepare a Policy Enforcement Strategy and Clearance Orders to support the infringement process.</p> <p>Adopt a new Solid Waste Bylaw</p>	tbc
<b>Objective 5: The community has access to well managed waste disposal facilities</b>					

Policy	Method	Status	Update - Current Projects	Forecast – Next Steps	Timeframe
Dunedin waste disposal facilities remain operational until the expiry of current consents.	The DCC will ensure all resource consent requirements for DCC owned operational waste facilities are complied with and kept current in line with both regional and district plans.	In progress	Following the Council decision to retain the operational contract for DCC open and closed landfills, transfer stations and resource recovery centres staff are preparing a consultancy brief to strategically scope out the next Operations and Maintenance Contract or suite of contracts.	Prepare tender documents for the next Waste Facilities Operations and Maintenance Contract or suite of contracts.	March 2017
The DCC will use economic drivers to minimise waste to landfill.	The DCC will review and set gate charges for DCC owned waste facilities annually, ensuring that the true costs associated with landfill operations, future closure and aftercare are recovered via user charges.	On-going	In line with the Annual Plan process, increases to Schedule of Fees and Charges  In line with Central Government taxes i.e. Emissions Trading Scheme and Waste Levy	Increases to landfill charges associated with the ETS will need to be budgeted in both the 2018/19 and 2019/20 financial years.	On-going
	The DCC will investigate landfill disposal options in readiness for the closure of Dunedin landfills	In progress	Waikouaiti landfill has been closed with final capping of the landfill taking place this summer. A review of the Waikouaiti site design and services is underway.  A health and safety review of the Green Island Transfer Station has taken place. Improvements have been identified and staff will follow up with recommendations for improvement.	Any capital investment in the existing Green Island site will take into consideration landfill close post 2023.  Other options will be explored during the next Waste Assessment and WMMP review 20018/19	On-going  Review 2018/19
	The DCC will provide transfer station facilities at Waikouaiti following landfill closure in 2016	In progress	A temporary solution has been provided and increasing the collection capacity with supplementary services is currently taking place. This is an interim measure while community consultation takes place and a site design is developed.	Commission site design for Waikouaiti Transfer Station and Resource Recovery Centre that will provide an appropriate level of service into the future.	November 2016
<b>Objective 6: Hazardous waste is managed in accordance with best practice</b>					
The DCC will continue to support national regulation for the storage, collection, treatment and disposal of hazardous waste and, where necessary, regulate to protect the environment from identified hazardous waste products or practices not currently regulated.	The DCC will work collaboratively with the Otago Regional Council to ensure standards for the safe treatment and disposal of hazardous waste are managed and monitored in accordance with the current legislation, regulation and best practice guidelines	In progress	The chemical shed at Green Island is being cleaned out and chemicals are being sent away for treatment and disposal.  Staff are commissioning a review of the acceptance criteria for Special Hazardous Waste at Green Island Landfill.  WasteMINZ have recently reviewed and updated the landfill guidelines.  The Environmental Protection Agency is calling for submissions on proposals to change the rules for managing the disposal of hazardous substances. A DCC submission is being prepared in support of these changes.	Staff will engage the ORC to work collaboratively in the planning and implementing of strategies for the collection, storage, treatment and disposal of hazardous substances.  Make appropriate changes to the process of accepting special hazardous waste in-line with recommendations from the review which support industry best practice.	February 2017
	The DCC will investigate options for the collection of hazardous household waste chemical.	In progress	Investigations are currently underway to ensure facility is provided for the collection of domestic quantities of used anti-freeze at the hazardous drop off area of Green Island transfer station.	More resource is needed to investigate collection events for hazardous waste products.	tbc
Policy	Method	Status	Update - Current Projects	Forecast – Next Steps	Timeframe

		The DCC will use provisions of the Solid Waste Bylaw to ban problem problematic and/or hazardous products from landfill disposal.	In progress		Adopt a new Solid Waste Bylaw	tbc
<b>Objective 7: All operating clean sites in Dunedin have been identified and are operating in accordance with industry best practice</b>						
7	The DCC will work collaboratively with the Otago Regional Council to strengthen consent regulations for operating cleanfill sites	The DCC supports a review of the Otago Regional Council's Regional Plan 'Waste' for Otago.	In progress	Staff provided feedback by way of a submission to ORC's Regional Policy Statement which raised concerns about the permissive approach to non-levied, managed and unmanaged fills in Otago and lack of data and monitoring of these sites.  There is still no confirmation from Otago Regional Council on whether it will be reviewing and updating the Regional Plan 'Waste'.		On-going
<b>Objective 8: Dunedin communities and learning agencies are actively engaged in zero waste education and are empowered to act with local initiative</b>						
	The DCC will ensure zero waste education is accessible and available to learning agencies and community groups.	The Enviroschools programme is supported and gets funded by the Otago Regional Council through regional co-ordination and by the DCC via local facilitation.	In progress	Otago Regional Council has committed to the Regional Coordination of Enviroschools in Otago.  Dunedin Enviroschools Facilitation has moved to the Events and Community Development team and recruitment for a second facilitator is underway.	Establish a simple waste minimisation report to track Waste Levy spend on the Enviroschools programme.	September 2016
			On-going	Adult education programmes being delivered are: <ul style="list-style-type: none"><li>• Waste Free Parenting Workshops</li><li>• Love Food Hate Waste Workshops</li></ul> These workshops are well attended and workshops are often over-subscribed.	Recruitment process underway  Contracts for composting workshops and the facilitation of the Sustainable Living programme to be reviewed and put out for tender.  Make improvements to measures and reports to support and inform the development of waste minimisation education programmes.	tbc
	The DCC will ensure zero waste action is promoted within communities	The DCC will encourage members of the community to practice waste minimisation in their homes and neighbourhoods and support the development of community-led initiatives that make beneficial use of diverted materials locally.	More Resource Required	Waste Minimisation Grants Package in draft form.	Recruitment process underway  A waste minimisation community initiatives grant will be established to assist groups with implementing projects that support community waste minimisation activity.  A promotional push for Free Resources Waste Exchange	tbc
	The DCC encourages and supports businesses to minimise waste and promotes both resource efficiency practice, product design and a cyclic economy.	The DCC will develop and/or deliver a cleaner production programme for businesses to assist businesses improve organisational performance.	More Resource Required	The DCC Free Resources waste exchange has undergone some improvements. It is now hosted by DCC with BIS support.	Recruitment process underway  Review Free Resources customer database  The Education and Promotions Officer role is currently vacant. Prepare a promotional campaign to raise awareness within the business community about the Free Resource – waste exchange.	tbc
<b>Objective 9: Dunedin businesses minimise waste, are resource-efficient and demonstrate innovation which grows or attracts sustainable market opportunities to the city</b>						

Policy	Method	Status	Update - Current Projects	Forecast – Next Steps	Timeframe
The DCC will partner or form working relationships with industry, businesses and neighbouring councils to support or offer incentives for initiatives and developments that will increase the quantity and range of diverted material that can be collected and processed in the region.	The DCC will facilitate and fund 'Business for Change' meetings regularly to incubate ideas and identify potential business opportunities that will efficiently and effectively minimise waste and/or recover resources	More Resource Required	There has been little progress on this	Recruitment process underway	tbc
	The DCC will assess, partner, endorse or support Waste Levy Contestable Fund applications which minimise waste and/or add value to recovered materials with the potential to create local employment opportunities.	More Resource Required	Waste Minimisation Grants Package in draft form.	Recruitment process underway  A business innovation grant will be established to stimulate business activity that supports designing out waste and greater resource recovery activity.  A promotional push for Free Resources Waste Exchange	tbc
	The DCC will work collaboratively with Central Government, other Councils, industry, businesses, associations and the community to establish, encourage and support the realisation of product stewardship initiatives	In progress	WasteMINZ Behaviour Change Steering Committee Member. This committee is charged with the development of national programmes such as Love Food Hate Waste – 60 Councils have participated in this initiative.  Regular planning Otago/Southland waste network meetings are held with next one scheduled for September to discuss an array of potential collaborations such as organic waste processing, Section 17a reviews, the future provision of landfills, landfill audits, recycling collateral, shared website resource library.	Provide financial support and input into a WasteMINZ strategic review of; <ul style="list-style-type: none"> <li>• Container Deposit Legislation in New Zealand</li> <li>• Imposing a national plastic bag levy</li> </ul> Development of regional/cross-regional projects and initiatives	tbc

## **TRANSPORT ACTIVITY REPORT FOR THE QUARTER ENDED 30 JUNE 2016**

Department: Transport

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### **EXECUTIVE SUMMARY**

- 1 This report updates the Committee on Transport operations, maintenance and capital works, including contracted out services.
- 2 Highlights for the quarter include:
  - a) A new maintenance contract was awarded to Downers with a value of \$45m over three years.
  - b) Work to complete the Portobello Road cycleway commenced and is on track for completion by September

### **RECOMMENDATIONS**

That the Committee:

- a) **Notes** the Transport Activity Report for the Quarter ended 30 June 2016

### **BACKGROUND**

- 3 The Transport activity provides the planning, construction, maintenance and upgrading of the transport network. The network includes:
  - i) Roads
  - ii) Cycle ways
  - iii) Footpaths
  - iv) Bridges and retaining walls
  - v) Street lighting
  - vi) Traffic signals
  - vii) Road marking
- 4 The New Zealand Transport Agency (NZTA), the national road funding authority, provides a financial assistance subsidy for works that meet agreed criteria via the National Land Transport Programme.

## **DISCUSSION**

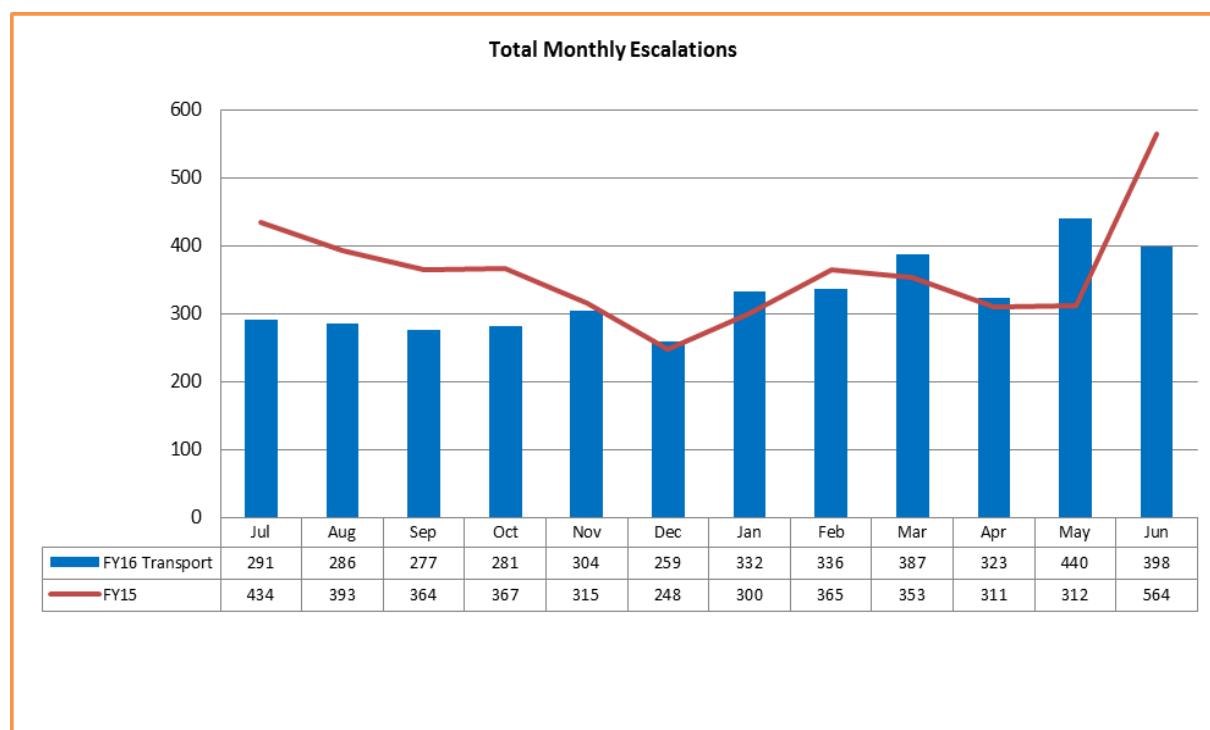
### **Contract Management**

- 5 Council's road network maintenance was previously carried out under separate urban and rural contracts. From 1 July there is a single city-wide maintenance contract.
- 6 Two tenders were received and following assessment the new maintenance contract was awarded to Downer. This contract is for three years and has a value of \$45 million. There is an option to extend the contract for two further one year periods at Council's discretion.
- 7 The new contract includes signs and road markings which was previously delivered under a separate contract. Traffic signals and street light maintenance will be delivered under separate contracts which both expire at the end of the 2016/17 year.

### **Non-financial performance**

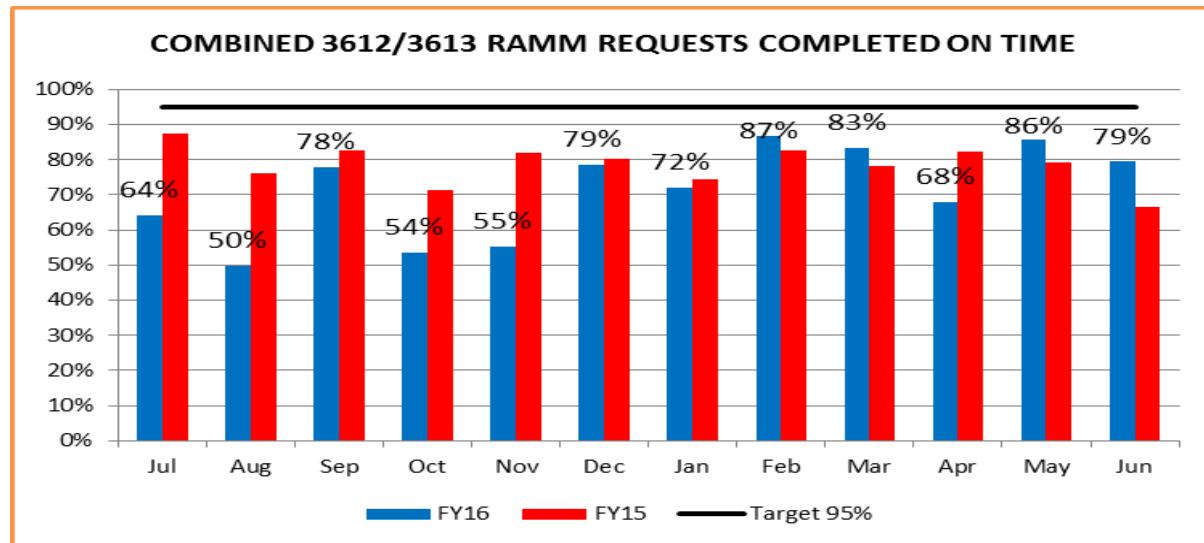
#### **Service**

Total monthly escalations



- 8 There was a significant increase in escalations in June 14/15 compared to this year driven by the flood event. The numbers of escalations received in June 15/16 is consistent with the number of escalations expected during winter months.

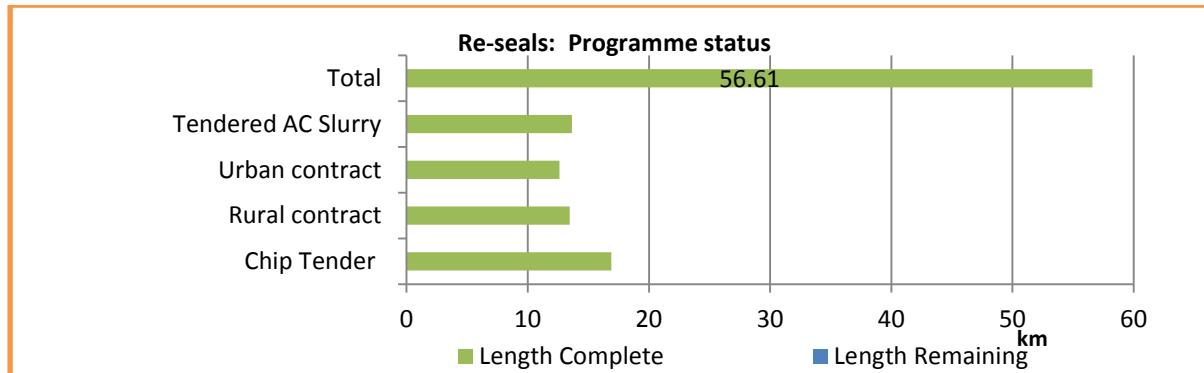
## Urban and Rural Maintenance Contract Requests



- 9 A decrease in the response to RAMM (Road Asset Maintenance) requests was due to the closing out of the existing contract and the transfer to a new maintenance contractor. A number of matters aimed at lifting performance in this area were handed over and have been addressed by the new contractor.

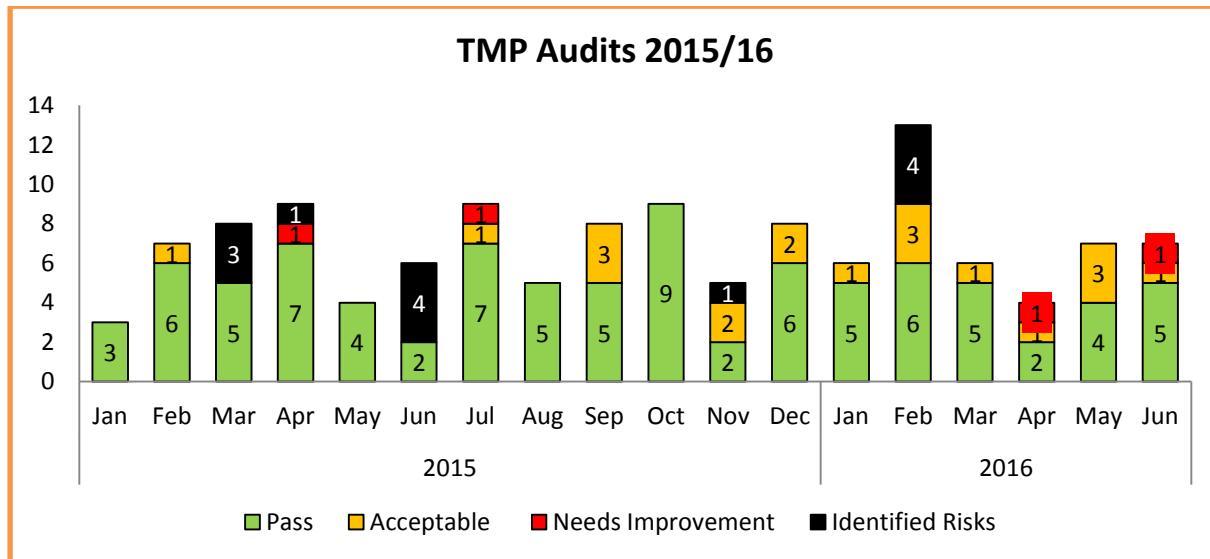
**Value and Efficiency**

## Re-seals programme 2016



- 10 The re-seal programme completed to plan 56.61 km (6%) of the network. Re-seals have an estimated average useful life of approximately 15 years.

## Traffic Management Plan Audits 2015/16



- 11 The Network Team received 246 requests for traffic management plans during the period versus 265 for the same period in 2015. The driver for most of the requests is for corridor access.
- 12 During the period no sites were found to have risks compared to the previous quarter when 4 sites were identified to have risks. All audits should be at an acceptable or pass level to comply.

**Major Initiatives**

- 13 **The Peninsula Widening Project** – The tender document for professional services went to market in this quarter. Four tenders were received by the closing date. GHD Ltd has been confirmed as the successful tenderer.
- 14 **Transport Model Update** – Flow Transportation were engaged to provide professional services for the development of a tender for a new transport model. This model will go to tender before the end of the calendar year with work on developing the new model commencing in February.
- 15 **LED Street Light Renewal** – An additional trial site for LED street lights has been added on Wingatui Road where new street lights were required. Staff have received the recommendations of the Dark Skies Advisory Panel and are incorporating these into the planning. It is anticipated that the first of the renewals will take place in the third quarter of this financial year.
- 16 **Minor Improvement Programme** – A number of minor improvement projects were consulted on and physical works are now planned. These include changes at MacAndrew Bay School, Lachlan Avenue and Kirkland Street.

## Key Capital Projects

Name	YTD Budget (\$000)	YTD Actual (\$000)
Road Resurfacing	4,850	3,848
Strategic Cycle ways	2,685	876
Major Drainage Control	1,200	1,223
Footpath Resurfacing	1,660	1,231
Slip Repairs	0	194
Peninsula	2,146	1,508
Peninsula - Turnbulls Bay	0	1,290
Road Rehabilitation	2,400	1,190
Structure Component Replacement	951	551
Traffic Services Renewal	560	436

- 17 **Road Resurfacing** – Re-surfacing was delivered to plan and \$1 million under budget largely due to favourable pricing for the re-seal programme and a delay in metalling due to unfavourable weather conditions.
- 18 **Strategic Cycle Networks** – Alterations and remedial works to Portobello Road due for completion early 2016/2017. Work is underway with NZTA to determine options for collaborative design and delivery to progress network development for consideration by Council.
- 19 **Slip Repairs** – Construction on St Leonards drive commenced July 2016 with planned completion October 2016. Approximate dates for the construction of Two Car Slip currently early September 2016. A Contract to tender works for the remaining four slips (Hatchery Road, Soldiers Monument, Sandymount and Seven Sisters) is being prepared with construction dates to be confirmed.
- 20 **Road Rehabilitation** – Wingatui Rd is nearing completion early in 2016/2017

## OPTIONS

- 21 As an update report there are no options.

## NEXT STEPS

- 22 Areas of focus for the next quarter will be:
- Implementation of new maintenance contract and associated reporting and monitoring
  - Commencement of physical works for the Highcliff Road (Two-car) slip repair
  - Appointment of the Professional Services contract for the Peninsula widening project and development of the project plan
  - Citywide LED lighting upgrade
  - Confirm work programmes for road re-seals, road rehabilitation and sea walls maintenance
  - Let contracts for footpath and kerb and channel renewals

## **INFRASTRUCTURE SERVICES COMMITTEE**

**30 August 2016**



- Continue programme of minor safety improvement works across the city
- Work with NZTA to progress the Strategic Cycle Network.

### **Signatories**

Author:	Merrin McCrory - Asset and Commercial Manager, Transport
Authoriser:	Richard Saunders - Acting Group Manager Transport

### **Attachments**

There are no attachments for this report.

**Item 8**

**SUMMARY OF CONSIDERATIONS*****Fit with purpose of Local Government***

This decision/report/proposal relates to providing local infrastructure and it is considered good-quality and cost-effective.

***Fit with strategic framework***

	Contributes	Detracts	Not applicable
Social Wellbeing Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Economic Development Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environment Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arts and Culture Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 Waters Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spatial Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Integrated Transport Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parks and Recreation Strategy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other strategic projects/policies/plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The programme of works delivered by the Transport Group supports the outcomes of a number of strategies.

***Māori Impact Statement***

There are no known impacts for tangata whenua.

***Sustainability***

The Integrated Transport Strategy is included in the Long Term Plan.

***LTP/Annual Plan / Financial Strategy /Infrastructure Strategy***

The Integrated Transport Strategy is included in the Long Term Plan.

***Financial considerations***

There are no financial implications.

***Significance***

This is considered to be of low significant in terms of the Council's Significant and Engagement Policy.

***Engagement – external***

There has been no external engagement.

***Engagement - internal***

There has been no internal engagement.

***Risks: Legal / Health and Safety etc.***

There are no known risks.

***Conflict of Interest***

There are no identified conflicts of interest.

***Community Boards***

There are no implications for Community Boards.