ENVIRONMENT AND INFRASTRUCTURE COMMITTEE 6 SEPTEMBER 2012

A meeting of the Environment and Infrastructure Committee was held in the No. 1 Committee Room on 6 September 2012 at 9am.

PRESENT: Councillors Aaron Keown (Deputy Chairperson), Sally Buck Jimmy Chen, Barry Corbett and Sue Wells.

APOLOGIES: Councillor Claudia Reid.

The Committee reports that:

PART A - MATTERS REQUIRING A COUNCIL DECISION

1. KRUSE'S STREAM LANDSCAPING PROPOSAL

General Manager responsible: General Manager, City Environment Group, DDI 941-8608			
Officer responsible: Unit Manager, Transport and Greenspace			
Author: Philippa Upton, Consultation Leader - Transport			

PURPOSE OF REPORT

1. The purpose of this report is to seek Council approval for a name for the neighbourhood park. The Shirley/Papanui Community Board has, under delegated authority, approved the concept plan for the Kruses Stream Landscaping Proposal at 5 Vagues Road.

EXECUTIVE SUMMARY

- 2. The Council recently purchased the property at 5 Vagues Road beside Kruses Drain to continue a stream naturalisation project completed south of the site on numbers 125-131 Main North Road. This provided an opportunity to enhance the drain, increase storm water capacity and develop a small park, with views from the street to the waterway. A previous concept plan utilising the existing waterway was not considered viable owing to possible undermining of a neighbouring property.
- 3. Public green space is needed in Papanui to match increasing housing densities. This proposal has been developed to provide a neighbourhood park that is safe, accessible, attractive and multi-purpose. It encourages community interaction and will provide indigenous biodiversity and natural ecosystems to support the waterway enhancements.
- 4. The proposed landscaping design (**attachment 1**) includes open views and pedestrian access from the street to encourage use and safety. The plan has been developed to meet the Council's Parks and Waterways Access Policy, Maintenance and Safety standards and Crime Prevention Through Environmental Design (CPTED) requirements.
- 5. The majority of submitters approved of the plan as an asset for the neighbourhood. There were some questions about lighting and concerns about possible undesirable use of the park. Several security and unwanted access concerns were also raised and are addressed in Sections 14 23 Consultation Fulfillment, and **attachment 2** summary of submitter feedback and project team response.

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- 6. Changes to the landscaping proposal, including removal of the sloping beach and increasing the capacity of the stream, have been made as a result of information gathered about flooding issues in the drain during consultation, and these will help mitigate security and access concerns.
- 7. Further investigation revealed the effects of increased storm water from the surrounding area, and the need for improved alignment of the stream with the pipe under Vagues Road to help alleviate flooding issues in adjacent properties.
- 8. The project team has been working with affected residents to find acceptable solutions for both parties while carrying out the necessary work on the waterway.

FINANCIAL IMPLICATION

- 9. Funding for the proposed development is provided within the 2009-19 LTCCP Neighbourhood Parks renewal and Replacements Programme as shown below.
 - (a) 2011/12 = \$80,000
 - (b) 2012/13 = \$170,000

Do the Recommendations of this Report Align with 2009-19 LTCCP budgets?

10. Yes, as above.

LEGAL CONSIDERATIONS

Have you considered the legal implications of the issue under consideration?

11. No legal considerations have been identified. No resource or building consent issues have been identified.

ALIGNMENT WITH LTCCP AND ACTIVITY MANAGEMENT PLANS

Do the recommendations of this report support a level of service or project in the 2009-19 LTCCP?

- 12. The project aligns with the Long Term Plan 2009 2019.
- 13. Parks, open spaces and waterways.
 - (a) Safety by ensuring that our parks, open spaces and waterways are healthy and safe places.
 - (b) Community by providing spaces for communities to gather and interact.
 - (c) Environment by enabling people to contribute to projects that improve our environment.
 - (d) Governance by involving people in decision-making about parks, open spaces and waterways.
 - (e) Health by providing areas for people to engage in healthy activities.
 - (f) Recreation by offering a range of recreational opportunities in parks, open spaces and Waterways.
 - (g) City Development by providing an inviting, pleasant and well cared-for environment.

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- 14. Measures
 - (a) Neighbourhood parks are satisfactorily maintained.
 - (b) Overall customer satisfaction with neighbourhood parks.

ALIGNMENT WITH STRATEGIES

Do the recommendations align with the Council's strategies?

- 15. This project has primary alignment with the following Council strategies and policies:
 - (a) Safer Christchurch Strategy.
 - (b) Parks and Waterways Access Policy.
 - (c) Environmental Policy Statement.

CONSULTATION FULFILMENT

- 16. Following a seminar with the Shirley/Papanui Community Board on 15 February consultation was carried out during a two and a half week period ending on 12 March. Consultation leaflets were delivered to approximately 105 residents and sent to relevant internal and external stakeholders including St Joseph's School and Church. The project was posted on the Christchurch City Council Have Your Say Website.
- 17. A meeting was held with St Joseph's School principal and a Board of Trustees Representative who expressed support for the proposal.
- 18. A drop in public information meeting about the landscaping proposal was held on site on 6 March 2012 between 5pm and 6pm, attended by six residents and a representative of the church.
- 19. During the consultation period 28 submissions were received and 23 submitters approved of the plan, with 16 in full support and seven providing additional suggestions or questions. One submitter did not specify and four did not approve of the project.
- 20. Those indicating full support for the plan included comments showing they expect the park to enhance the neighbourhood and provide a welcome amenity for locals and the school.
- 21. A request for additional seating was not followed up because in addition to the seat in the grassed area, three other curved bench seats are located in the gravelled space near the road. Steps down to the stream could also be used as informal seating.
- 22. The project team's response to concerns about lack of lighting in the park is that national guidelines for Crime Prevention through Environmental Design (CPTED), recommend not lighting parks as it can give a false sense of safety.
- 23. There was a question about the change from an earlier concept plan which did not include 5 Vagues Road, and which was preferred by one neighbour. However the revised plan was necessary to avoid undermining of a neighbouring property. The updated concept is more visually accessible. Fencing is available for adjacent residents, including open pool style. Planting and increased stream width will help deter access, including close planting of the stream edge which replaces the sloping beach.
- 24. Changes to the proposed park were made in response to concerns raised about the drain during consultation on the landscaping. This resulted in the need to consider flooding issues, including increasing the capacity of the stream through this reach.

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- 25. Changes to the proposal which have resulted in the final Plan for Board Approval are as follows:
 - (a) The stream bed has been widened.
 - (b) The top of the bank has been changed to anticipate the possibility of flooding to higher levels at the site.
 - (c) The rock steps will be modified to allow for use during high water flows.
 - (d) The sloping gravel beach has been removed and the north bank modified slightly and planted.
- 26. All other aspects of the park remain unchanged.
- 27. A summary letter has been sent to all submitters, together with a table of consultation feedback and response, the Plan for Board Approval, and details of the Board meeting including how to ask for speaking rights.

STAFF RECOMMENDATION

It is recommended that the Council adopt the name Kruses Stream Reserve for the new pocket park at 5 Vagues Road.

BOARD RECOMMENDATION

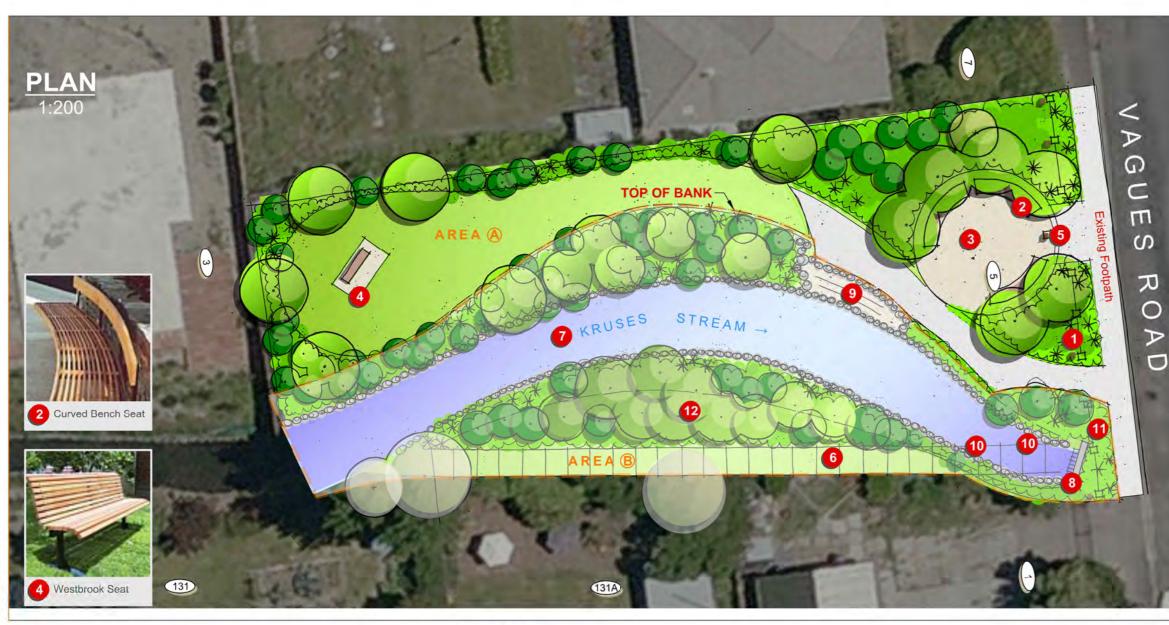
That the Council approve the name of the Reserve at 5 Vagues Road be Withers Family Park.

FURTHER STAFF ADVICE

Following the Board's recommendation a letter was sent to all submitters explaining the Board's recommendation, the reason for the choice of name, and a summary of the process to be followed for approval by Council. No responses or objections to the letter were received from the submitters. Given there were no objections received staff agree with the Board recommendation.

COMMITTEE RECOMMENDATION

That the Council approve the Board recommendation and that the name of the Reserve at 5 Vagues Road be Withers Family Park.



100 Original :

20

33

0 10

Proposed tree

Existing tree

Proposed small tree

Proposed low planting Note: All planting in the park will be less than 1m in height at maturity to retain sightlines into the reserve from Vagues Road

Proposed Lawn

Proposed Asphalt footpath

Proposed chip footpath

OOOO Rock toe



AREAA Proposed Neighbourhood Park:

Post and chain fence

Curved seats with backs to be supplied by Fel Group

3 Possible location for an in-ground artwork to be commissioned in association with St Josephs School (in the future)

Westbrook seat to be supplied by Fel Group



AREA (B) Work part of existing stream enhancement project 6 Existing Kruse's Drain to be realigned and the old timber drain to be filled Realignment of Kruse's Drain/ Stream to join into existing enhancement work upstream, and the existing culvert and headwall towards Vagues Road

8 Existing headwall to be retained and enhanced as required including a grate

KRUSES STREAM AT 5 VAGUES ROAD Plan For Board Approval

ATTACHMENT 1 TO CLAUSE 1 ENVIRONMENT AND INFRASTRUCTURE COMMITEE 6.9.2012

Background

Kruse's Drain is one of the earliest constructed open drains in Christchurch, dug around the 1870's for rural drainage. Over time it has been further modified by lining and piping. This section has been timber lined since the 1970s and has a year round base flow that is greatly increased by storm water runoff during rain events.

There is an existing stream enhancement project for the realignment of Kruse's Drain along the length of 5 Vagues Road which includes 6 to 12 on this sheet. The objective of the works is to produce a natural, sustainable, visually attractive waterway environment with high habitat value that in the long term will be capable of sustaining a diverse ecosystem. In association with these works it is proposed to establish a neighbourhood Park which includes 1 to 5 on this sheet.





Proposed Kruses Stream Reserve landscaping proposal consultation summary of consultation feedback and project team response

28 submissions were received

23 submitters approve of plan (16 fully approve, 7 approved with questions or suggestions)

1 submitter did not specify

4 submitters do not approve

Summary of C	Community F	eedback and Project Team Response to plan for land	Iscaping of reserve
Support/Op pose	Ref	Comment/Issue	Project Team Response
Full Support for plan			
	or plan1,3, 4,5,8,9,10, 12,13,15, 16, 		Thanks

Supports plan	Supports plan with suggested improvements, see comments/suggestions below :				
	2,6,18,22,				
	7,21,17				
Did not specify	Did not specify, comment only				
	25				
Do not suppor	Do not support the plan, see comments/suggestions below:				
	11, 14,19,				
	26				

Submitter suggestions			
		Seating	
	2	More seating would be appropriate	Thanks. There are three curved bench seats at location 2 on the plan, as well as a seat at location 4 which are considered adequate

		There will be steps down to the river which could be used for informal seating
	Lighting and security	
6	Please consider lighting and security issues – don't want area to be a hangout for wayward individuals at night	The National Guideline for Crime Prevention through Environmental Design (CPTED) recommends not lighting parks as it can give a false sense of safety .
22	Proper or adequate night lighting requested at the park and Vagues Road from the corner of Main North Road up to Nyoli Street	See above Street lighting is outside scope of project The CCC assets manager has been informed
26	At night time the middle and the back of the reserve are completely dark	See above
26	 'Original scheme has stream and residents living together with enhance stream boundaries and looking after the flood danger. New scheme has residents behind security fences and planting to protect them.' 'The result if to take the timber out of the drain and shift security fences back thereby making the enhancement not available to anyone other then those walking along the drain bed. This result for Main North Road and 13 Vagues Residents is worse than farcical as it takes 15 metres off their property to fence.' 	The original concept was carefully considered but was not a viable option owing to concerns about resulting undermining of a neighbouring property. This led to the Council purchase of 5 Vagues Road and the preparation of a revised concept. The fencing is at the request of the residents and according to CCC policy. Open pool style fencing was an option. The revised proposal is more visually accessible and the existing easement will not change as a result of these works.
	Unwanted access via park	
18	Concern about the possibility of people coming up the stream to property via park	Plantings and increased stream width will help deter access. The sloping beach near the southern end has been removed and replaced with plantings along the bank. This will help discourage access to the stream
14	<u>'No Park</u> unless it is fenced off from the houses'	See above

	Need to prevent unwanted access to properties from stream including dogs			
	Maintenance and weed control			
7	Ensure regular maintenance of waterway upstream of proposed park. Rubbish debris builds up in vegetation along banks. Also control noxious weeds such as convolvulus	The waterways maintenance team have been advised of these issues. There will be a formal maintenance contract for 12 months directly associated with the project and after that it will be handed over to the appropriate CCC maintenance team		
21	Approval conditional on having a plan to maintain the park area and trees be put in place	See above – maintenance programme		
11	'A rubbish-collecting, rambling area of ugly plants that fight against the weeds and grasses the CCC fail to keep under control of care for!!'	See above – maintenance programme		
14	'would like to see the mess that is there cleaned up before you start anything yet to see one plan that was on the original draft plan growingput down weed mat' Needs care and attention.	See above – maintenance programme		
	Rubbish in park			
17	Need for rubbish bin in park to cater for those eating in park eg lunchtime picnickers	A rubbish bin will be installed inside the park but if household rubbish is left it will be removed prior to the end of the twelve month maintenance contract		
	Plantings			
18	Interested in trying to keep the magnolia tree	The tree will need to be removed to allow for the re-aligned stream, however magnolias will be included in the planting scheme in the park		
	Use of park			
25 Strongly expressed opinion that the park may be dominated by some neighbours to the detriment of other users		The project team has worked positively with the relevant neighbours who support the neighbourhood park		
	Seating area			

11	'will only give place for the unruly youths of the surrounding area to hang-out, take drugs, drink, smoke and mostly annoy the neighbours"	The design of the park is open and encourages passive surveillance, also it is not lit at night (See CPTED standards).		
	Flooding concern			
19	Neighbour for 40 years has seen the five houses numbers 1 to 11 surrounded by water many times. Also the church school grounds and road. 'The amount of the water coming out of the drain is too much for the pipe under the road to take.'	Additional investigations have highlighted highlighted issues within the carriageway not directly related to the stream The CCC contracts manager for drainage has been informed and the sumps will be cleaned and the situation monitored		
	Concern that proposed sloping beach beside stream could create more flooding risk, and this could affect her neighbouring house which is 'straight in line' with the beach. Comment that in general increased housing has created more runoff from properties in the stream catchment.			
26	Residents sections are flooded after rainstorms This has got worse since the Northland Mall and with on-going developments is not going to get better (Other information about neighbourhood flooding provided)	The sloping beach has been removed and the stream widened to for allow for increased capacity to help reduce flooding.		
	Acknowledges the reserve will allow additional storage and will reduce short term flooding but believes the pipe to carry the water from the park does not have the capacity to handle existing flows from moderate rainfall	The pipe under Vagues Road is outside the scope of this project, however the situation will be monitored (see above)		
	Safety concern			
26	Current is 'quite terrifying' – concern that person could lose their footing and be dragged down to the grill, especially at night	The park will not be lit at night. See above, lighting and security: The National Guidelines for Crime Prevention through Environmental Design (CPTED) recommend not lighting parks as it can give a false sense of safety.		
		Steps are provided to allow anyone to get out if necessary		

	28	Just to ensure that there is something in place to prevent children walking in the river (stream) through the piping at the southern end. A great proposal - thank-you.	The sloping beach near the southern end has been removed and replaced with plantings along the bank. This will help discourage access to the stream
		Adjacent resident	
2	26	Concerns about loss of privacy and security and exposure to park, and possible loss of land value as a result of the reserve	Planting and fencing options have been offered to all affected residents
		General oppose comment	
1	11	Strong opposition'apply some common sense to pretty basic planning and building. The CCC should be ashamed of themselves for constructing such an eyesore/first section, only to be continued in pictured plan'	Principles of design are according to CCC waterways standards. Consultation feedback from the community about the concept plan has been generally positive.
		the flowing effect of this stream has been hindered by these alterations'	See above – the recommended changes to the drain will improve the flow and capacity of the stream
	26	'Sham consultation. Expensive and unnecessary use of ratepayer money. Why not Number 1 Vagues Road or a rear section going through to the undeveloped land Leander Street?'	This issue has been addressed previously
		Concern lack of consultation on drain is deliberate strategy to avoid the examination of the 480? residents that should have a say about the money spent and the location of the reserve. The separation also limits discussion on flooding and related issues.	The consultation was appropriate and included the Community Board. The Council does not consult when works are required in drains, however standard consultation process has been carried out with the community regarding the park
		Thinks the CCC should have a cost-free-resident preferred swap with the unused road reserve instead of the proposed reserve beside the stream, and that the proposed reserve is not needed or wanted by residents.	This matter has been addressed with the submitter in previous correspondence
		Believes the house is being demolished in an underhand manner 'to make certain the residents' apathy is enhanced', that the proposal is being split up	The Property was purchased to allow the Council the opportunity to increase the drain capacity and reduce the

to avoid questions and to justify previous underhand decisions that should have been made public by the CCC'	risk of flooding and impact on neighbouring properties. It also helps to get better alignment to the existing pipe under Vagues Road
States that the Community board cannot now make a decision to return the property to private hands without a 'serious loss' resulting from their 'previous rubber stamping.'	The Community Board has been kept informed during the process and will be involved in decisions where it has the relevant authority - for example approving the concept plan for the park

 Feedback for naming the park

 Seventeen of the submissions approved of the suggested option Kruses Stream Reserve

 One also suggested that it would be good idea to provide an explanation of the name - ie the history behind it.

Submitter request for reason for suggested naming of the park

Kruses Stream Reserve was suggested as a possible option because a key feature of the park is the naturalised drain. Which runs through the property and the neighbourhood.

By 1857 most of the trees in the Papanui Bush had been felled and the Papanui Area continued developing into a grain cropping, market gardening and orchard farming community. Owing to the swampy nature of the ground, drains and ditches needed to be dug before some areas could be farmed.

Two of the major drains in the area were named after local land owners, one being Horner's drain, which went North from Papanui to the Styx River, and Kruse's drain which interconnected with the Horner's drain. The Kruse family owned land around the area of Winters and Grimseys Roads, near St Bedes College.

Other suggestions

One submitter suggested **Northlands Park** because it 'matches the area. The major shopping mall instantly identifies where it is.' One submitter suggested **St Josephs Park** to identify with the 'icon' church across the road from the proposed park

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2. PAPANUI ROAD RIGHT TURN SIGNAL REQUEST AT BEALEY AVENUE/PAPANUI ROAD/VICTORIA STREET INTERSECTION

General Manager responsible:	General Manager, City Environment Group, DDI 941 8608
Officer responsible: Unit Manager, Transport and Greenspace	
Author: Sean Lewis, Traffic Systems Team Leader	

PURPOSE OF REPORT

- 1. The purpose of this report is for the Council to approve the realignment of the intersection. At the Fendalton/Waimairi Community Board meeting on 30 April 2012, the following request was made: "...the Board decided to request staff to investigate the feasibility of a right hand turn arrow at the Papanui Road/Bealey Avenue intersection to alleviate traffic congestion during peak times, and that this report be presented to the 12 June 2012 meeting."
- 2. This report presents a recommendation from the Fendalton Waimari and the Hagley Ferrymead Community Boards to the Council on the expected effects of installing this right turn signal and to highlight the on-street work which will be required. The intersection is on the boundary of the two wards.

EXECUTIVE SUMMARY

- 4. Following the February 2011 earthquakes, there has been a steady increase in the volume of vehicles making a right turn from Papanui Road onto Bealey Avenue towards Riccarton. Pre-quake, staff had been resistant to installing right turn signals (green arrows) for Papanui Road because of the low traffic volumes and the inefficiencies associated with green arrows. With the changed travel patterns, and demands at this intersection, staff are now supportive of the installation of these right turn signals.
- 5. Installing green arrows requires time to be taken away from other green-time allocated at the intersection. This requires a conscious decision to remove green-time from each other approach to the intersection, or to choose a specific approach to be disadvantaged.
- 6. It is not possible to reduce the green time given to Bealey Avenue, as this is a co-ordinated corridor, and the effects of reducing this green-time would impact the entire length of Bealey Avenue, and further. In this case, staff have made a conscious decision to reduce the green-time allocated to traffic exiting Victoria Street at Bealey Avenue. All modelling data presented is made with this assumption.
- 7. The modelling results show an increase in the average wait time for vehicles exiting Victoria Street at this intersection. This increase in average delays across the modelled time periods shows a general increase in average delays per vehicles of 40 seconds in the AM peak, 10 seconds in the inter-peak period, and 75 seconds in the PM peak. Attachment 1 has the modelled Levels Of Service (LOS) results per period.
- 8. If there is no change to the traffic volumes on Victoria Street, there will be longer delays for vehicles exiting Victoria Street at Bealey Avenue. It is expected that some drivers will avoid this approach to the intersection, preferring to use Montreal Street through to Bealey Avenue instead. This will reduce the demand at this approach, therefore reducing the delays experienced.
- 9. As part of the project, temporary signage will be erected at the Montreal Street approach to Victoria Street warning of the potential delays, and advising the recommended route.
- 10. This proposal requires the Bealey Avenue pedestrian crossing facilities to be split, creating what is called a staggered-crossing. Separate green-man time is given to crossing each half of the road. This makes the crossing safer for pedestrians, as they will have a facility in the centre median to stop and rest. The proposed new layout is shown in **Attachment 2**.

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- 11. There will be more opportunities in each signal-cycle for pedestrians to cross these split sections of Bealey Avenue as pedestrians will be able to cross the shorter sections during several different signal phases. To permit these additional crossing opportunities, U-turns on Bealey Avenue will have to be banned.
- 12. Care will be taken to ensure that work performed while improving the waiting areas in the centre median will be done without harming the protected trees.

FINANCIAL IMPLICATIONS

13. The estimated costs of installing the right turn signals, and associated roading and street-light works is estimated to be \$160,000.

Do the Recommendations of this Report Align with 2009-19 LTCCP budgets?

14. The installation or removal of road markings, signs, and traffic signals is within the LTCCP Streets and Transport Operational Budgets, and would be programmed to be completed in the 2012/2013 financial year.

LEGAL CONSIDERATIONS

15. Subject to the Local Government Act 1974 and 2002. Subject to the Land Transport Rule 54002, Traffic Control Devices.

Have you considered the legal implications of the issue under consideration?

16. As above.

ALIGNMENT WITH LTCCP AND ACTIVITY MANAGEMENT PLANS

- 17. Aligns with the Streets and Transport activities by contributing to the Council's Community Outcomes - Safety and Community.
- 18. The down-grading of the attractiveness of Victoria Street as a traffic through-route from Montreal Street to Bealey Avenue is in accordance with the 'Main Street' ambitions of the Draft Central City Plan.

Do the recommendations of this report support a level of service or project in the 2009-19 LTCCP?

19. As above.

ALIGNMENT WITH STRATEGIES

20. The recommendations align with the Council Strategies including the Pedestrian Strategy 2001, Road Safety Strategy 2004 and the Safer Christchurch Strategy 2005.

Do the recommendations align with the Council's strategies?

21. As above.

CONSULTATION FULFILMENT

22. As the improvements are network wide, and of minimal local effect, no consultation has been undertaken.

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STAFF RECOMMENDATION

That the Council approve:

- (a) That the pedestrian crossing facilities across Bealey Avenue at the intersection of Papanui Road and Victoria Street are realigned (refer **Attachment 2**).
- (b) That the U-turning of vehicles travelling east or west on Bealey Avenue at its intersection with Papanui Road and Victoria Street, be banned.

Both of these recommendations are required to ensure the green arrows for Papanui Road can be safely installed.

HAGLEY FERRYMEAD AND FENDALTON WAIMAIRI COMMUNITY BOARD RECOMMENDATION

That the staff recommendation be adopted.

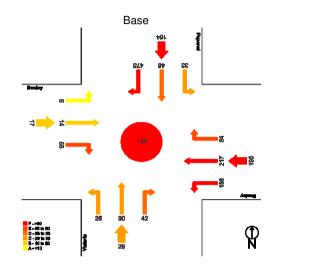
COMMITTEE RECOMMENDATION

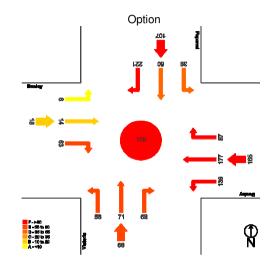
That the staff recommendation be adopted.

ATTACHMENT 1 TO CLAUSE 2 ENVIRONMENT AND INFRASTRUCTURE COMMITTEE 6.9.2012

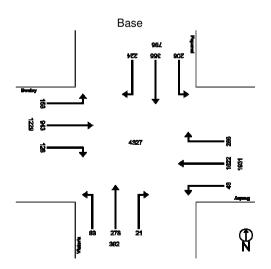
Bealey/Papanui/Victoria Level of Service and Volumes

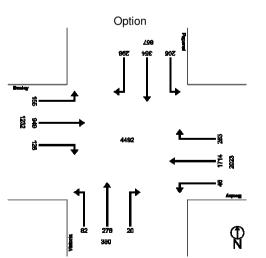






Level of Service

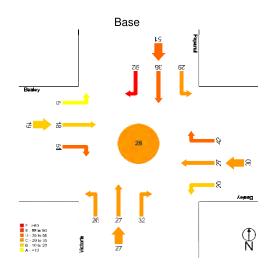


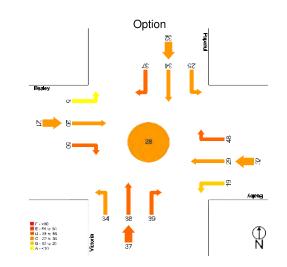


Peak Hour Volumes

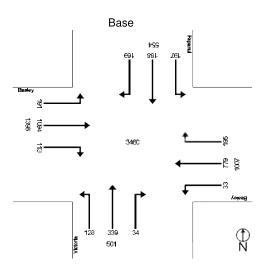
Bealey/Papanui/Victoria Level of Service and Volumes

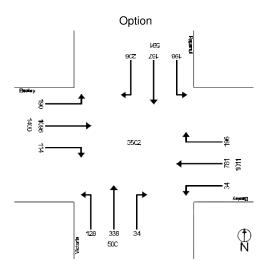






Level of Service



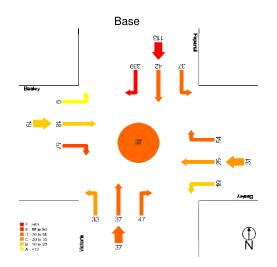


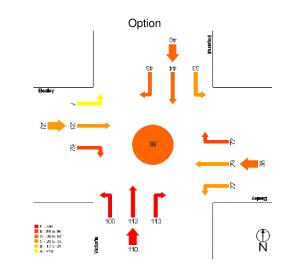
Peak Hour Volumes

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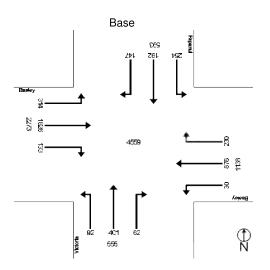
Bealey/Papanui/Victoria Level of Service and Volumes

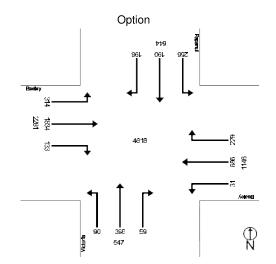




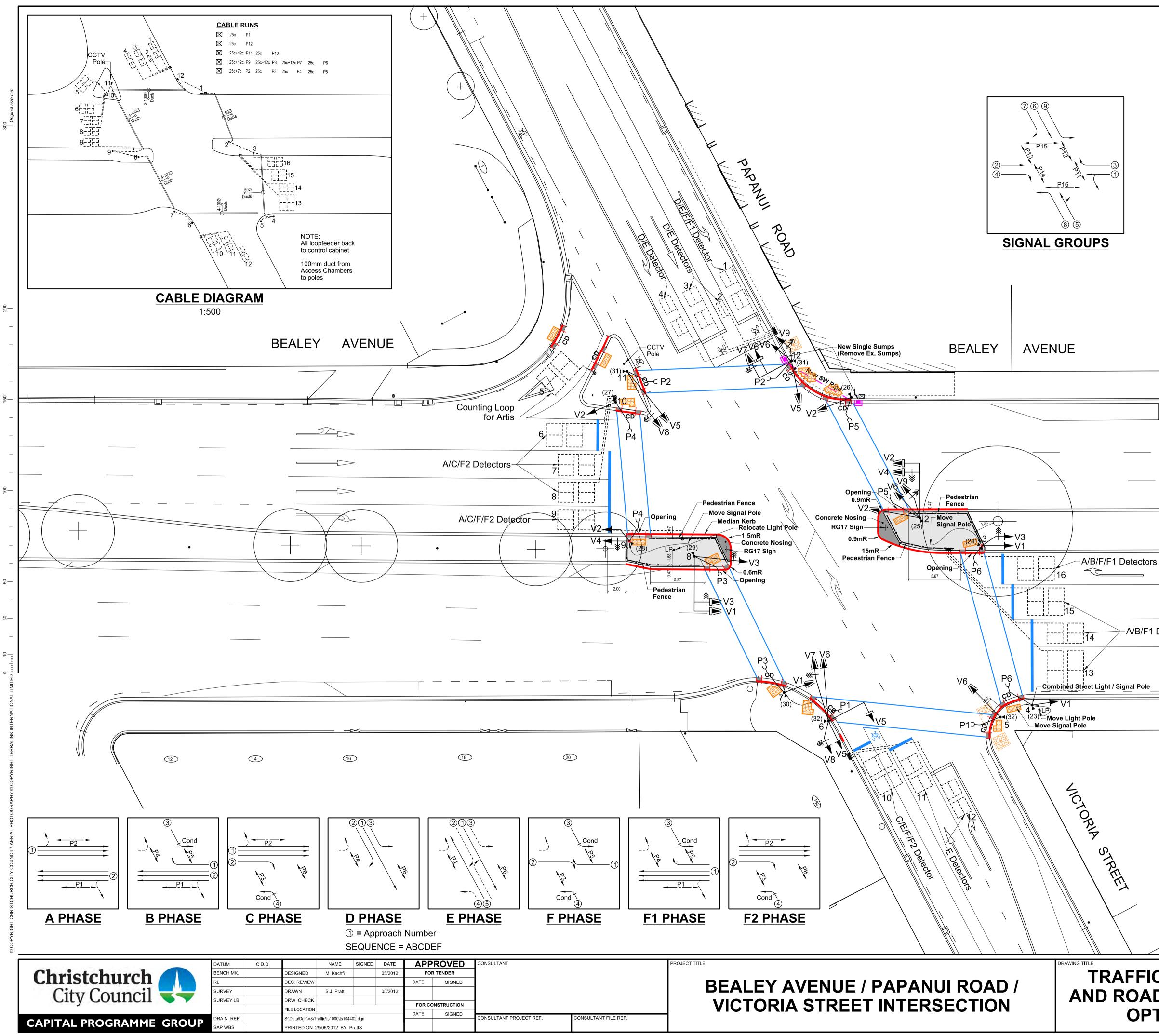


Level of Service





Peak Hour Volumes



	A ISSUE	Tender Issue AMENDMENTS	•		SIGNED	DATE
FIC SIGNALS AD MARKINGS	CAD D	CONTRACT NUMBER ORIGINAL SHEET SIZE CAD DRAWING FILE REF. TS104402.dgn A1		^{ES} 1:20	D	
PTION 2	CPG PROJECT FILE NUMBER			INTE	ERSECTION NUMBER	

A/B/F1 Detectors NOTE: 1) Aecom plan 60051638_501 superceded. 2) The exact locations of signal poles to be clearly marked by the signal engineers on site prior to construction stage.

LEGEND			
	CONTROLLER		
0	ACCESS CHAMBER		
	DETECTOR LOOP		
8	TOBY BOX		
	KERBSIDE JUNCTION BOX		
•	TRAFFIC SIGNAL POLE		
•	PEDESTRIAN/CYCLE PUSH BUTTON		
——с	PEDESTRIAN LANTERN		
판	PEDESTRIAN DETECTOR PAD		
_►	THREE ASPECT LANTERN WITH 200mm OPEN VISORS		
_	THREE ASPECT LANTERN WITH 300mm CLOSED VISORS		
	SINGLE ASPECT LANTERN WITH RED ARROW MASK		
	SINGLE ASPECT LANTERN WITH BUS MASK		
	TWO ASPECT LANTERN WITH ARROW MASKS		
	THREE ASPECT LANTERN WITH ARROW MASKS		
	MAST ARM MOUNTED THREE ASPECT LANTERN 300mmØ		

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3. DRAFT WASTEWATER STRATEGY



General Manager responsible:	General Manager, Strategy and Planning Group, DDI 941-8281
Officer responsible:	Healthy Environment Programme Manager, Strategy and Planning Group
Author:	Diane Shelander, Senior Policy Analyst, Strategy and Planning Group

PURPOSE OF REPORT

This report was initially considered by the Committee at its meeting on 6 September 2012. At that
meeting the Committee decided to seek further staff advice. Following the staff advice, the
Committee reconsidered the report at its meeting of 17 September – please refer to item 7.2 of
the Council agenda of 27 September 2012 for the full report on this matter. The purpose of this
report is to seek the Council's approval for the Draft Wastewater Strategy to be released for public
consultation.

STAFF RECOMMENDATION

It is recommended that the Council approve:

- (a) The Draft Wastewater Strategy for release for public consultation.
- (b) A public consultation period of over 30 calendar days starting no later than four weeks after Council approval. Indicative dates are 8 October through 4 November 2012. This will be a non-statutory process and not a special consultative procedure.
- (c) A Hearings Panel is formed no earlier than two weeks following the close of the submission period to hear oral submissions and consider written submissions.

COMMITTEE RECOMMENDATION

That this matter lie on the table pending the workshop on 7 September and further advice from staff ahead of the September Council meeting. Refer to item 7 of this agenda.

Environment and Infrastructure Committee 6. 9. 2012

4. INFRASTRUCTURE REBUILD MONTHLY REPORT

-	
General Manager responsible:	General Manager Capital Programme
Officer responsible:	Infrastructure Rebuild Client Manager
Author:	Will Doughty

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PURPOSE OF REPORT

1. To provide the Council with a monthly update on the infrastructure rebuild.

EXECUTIVE SUMMARY

- 2. At its April 2011 meeting, Council gave approval for an Alliance to be formed to deliver the reinstatement of the City's damaged infrastructure. It was also agreed that the Chief Executive would report regularly to the Council on progress with regard to the reinstatement work.
- 3. The report (Attachment A) is the 10th of what will be a regular monthly report that is provided to the Environment and Infrastructure Committee, Council and the Canterbury Earthquake Recovery Authority (CERA).

STAFF RECOMMENDATION

It is recommended that the Council receives the Infrastructure Rebuild Monthly Report for August 2012.

COMMITTEE RECOMMENDATION

It is recommended that the Council receives the Infrastructure Rebuild Monthly Report for August 2012.

ATTACHMENT 1 TO CLAUSE 4 ENVIRONMENT AND INFRASTRUCTURE COMMITTEE 6.9.2012



New Zealand Government

INFRASTRUCTURE REBUILD PROGRESS REPORT AUGUST 2012

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1. INTRODUCTION

The purpose of this report is to provide Council, CERA and NZTA an update on the horizontal infrastructure rebuild. For this month, and going forward, progress on all horizontal infrastructure rebuild work is reported. This includes the work activity being delivered by SCIRT (section 5) and work being delivered under business as usual (BAU) mechanisms (section 6).

2. ACTIVITIES FOR THE MONTH

The ramp up of work in the field is continuing with July exceeding the forecast expenditure for the month by almost 5%. The ramp up is targeted to be complete by the end of the calendar year and SCIRT will then enter a period of steady state delivery at that level.

At the end of June 2012 SCIRT had a combined workforce of 1330 people across the organisation. This is expected to increase as delivery in the field increases. SCIRT is scheduled to commence a recruitment campaign to attract locals and regional south islanders to the construction industry in September. There is an active focus on training and upskilling the local workforce to meet demands.

The release of the forward work programme is being targeted for early September. Once released, a further round of meetings with the community boards will be held to inform them of the upcoming works within their wards. Overall feedback continues to be positive from the community. The ability to restart work on several key retaining walls in Lyttelton is a major positive outcome. Work is continuing to determine the full extent of damage to retaining walls across the city and to determine which of these are publically owned.

Work is ongoing to update the overall Horizontal Infrastructure Rebuild estimate (This includes the programme being delivered by SCIRT and the work being delivered by CCC). It is anticipated that the estimate update will be completed by the end of the calendar year. This estimate will need to be further updated next year once all of the asset investigations are completed.

Overall the infrastructure rebuild is on track. SCIRT is fast approaching its one year anniversary in September. Significant achievements and outcomes have been made over that year. These have only been possible with the commitment of the people involved in all aspects of the Horizontal Infrastructure Rebuild.

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3. COMMUNICATION AND COMMUNITY ENGAGEMENT

As at 10 August, a date for the launch of the forward programme of works was still to be set however it is expected to be early in September. The Council, CERA, NZTA and the SCIRT communication team have been working together to prepare for the launch and follow this up with publicity about the programme and progress made so far.

In June, the SCIRT communications team continued to keep residents informed of rebuild progress. During the month the team delivered 45 start work notices to more than 21,000 houses and carried out 244 face-to-face communications, largely through door-knocking. There were 73 web updates and four e-newsletters were distributed. SCIRT also had a display at the July Port Hills land zoning announcement public meetings and staff were available to answer any questions.

Progress was made on retaining walls and ground anchor easements and a media release was issued on 9 August advising that work on Cunningham Terrace in Lyttelton would start soon.

4. FINANCIALS

Below is a summary of the financials for the horizontal infrastructure rebuild.

This month these have been separated into rebuild activities being carried out by SCIRT (including NZTA State Highway rebuild work) and Council infrastructure rebuild activities being undertaken through Council business as usual mechanisms.

The reporting includes a breakdown for the current financial year as per the agreed SCIRT annual budget and the Council Annual Plan in section 4.1 and actual costs to date against the overall infrastructure rebuild estimate (plus additional projects) in section 4.2. For the purpose of this report all indirect costs have been allocated based on portion of the programme estimate per activity.

It is anticipated that this new format of reporting will need to be modified next month.

4.1 Annual Plan 2012/13 - Actual year to date cost against budget

The Council 2012/13 Annual Plan includes a budget for the infrastructure rebuild of \$559.7m. This relates to Council rebuild activities being delivered by both SCIRT and Council business as usual mechanisms.

In addition to the Council infrastructure rebuild Annual Plan, the SCIRT budget for the year also includes NZTA Highway rebuild budget of \$11.1m. For the purpose of this monthly progress report, the total budget reported against for the year is therefore \$570.8m as outlined in Table 1.3.

4.1.2 SCIRT actual year to date costs

The approved annual budget for SCIRT is \$440m. This includes Council rebuild activities and NZTA State Highway rebuild activities. Table 1.1 below presents

the actual costs for each activity for the year to date reported against the agreed annual budget for SCIRT. These costs are up to the end of July 2012.

Activity	Description	20)12/13 SCIRT Budget	Ac	tual Cost YTD	orecast Total end This Year		Year End Variance
Road Network	Roading	\$	110,100,680	\$	9,203,593	\$ 107,092,823	\$	3,007,857
Wastewater Collection		\$	268,231,468	\$	18,850,534	\$ 276,948,856	-\$	8,717,388
Water Supply	Water Supply	\$	27,056,061	\$	2,264,213	\$ 27,266,147	-\$	210,086
Waterways & Land Drainage	Stormwater	\$	23,533,794	\$	639,482	\$ 24,169,671	-\$	635,877
NZTA Highways		\$	11,077,997	\$	308,762	\$ 10,913,892	\$	164,105
TOTAL SCIRT INFRASTRUCTURE	REBUILD PROGRAMME	\$	440,000,000	\$	31,266,585	\$ 446,391,389	-\$	6,391,389

Table 1.1 Actual costs for year to date of rebuild works by SCIRT

4.1.3 Non-SCIRT actual year to date costs

The balance of the annual plan budget for the infrastructure rebuild (\$130.8m) is being delivered by Council business as usual mechanisms. Table 1.2 below presents the actual costs for the year to date of the infrastructure rebuild performed by Council for each activity against the 2012/13 Annual Plan budget. These costs are up to the end of July 2012.

Activity Road Network	Description	201	2/13 Approved Budget	Ac	tual Cost YTD	Yea	r End Forecast		Year End Variance
	Roading	\$	38,736,637	\$	717	\$	41,744,494	-	3,007,85
Wastewater Collection		-\$	38,031,468	\$	2,979	-\$	46,748,856		8,717,388
Parks & Open Spaces	Greenspace	\$	13,554,101	\$	1,760	\$	13,554,101		
Refuse Minimisation & Disposal	Solid Waste	\$	5,105,263	\$	-	\$	5,105,263		
Wastewater Treatment & Disposal	WW Treatment Plant	\$	44,112,171	\$	118,650	\$	44,112,171		
Water Supply	Water Supply	\$	62,369,111	\$	637,627	\$	62,159,025		210,086
Waterways & Land Drainage	Stormwater	\$	4,956,503	\$	651,500	\$	4,320,626		635,877
TOTAL NON-SCIRT INFRASTRUCTUR		\$	130,802,318	\$	1,413,232	\$	124,246,824	\$	6,555,494

4.1.4 Horizontal infrastructure SCIRT and Non - SCIRT

Table 1.3 below presents the actual costs for the year to date for both SCIRT performed and Non SCIRT performed Infrastructure Rebuild including NZTA State Highway rebuild being performed by SCIRT. These costs are up to the end of July 2012.

Table 1.3 Actual costs for year to date of SCIRT and Non-SCIRT work

Activity	Description	201	1/12 Approved Budget	Act	tual Cost YTD	Forecast Total Spend This Year			Year End Variance
Council Rebuild	SCIRT and CCC	\$	559,724,321	\$	32,371,054	\$	559,724,321	-	(
NZTA Highways Rebuild	SCIRT	\$	11,077,997	\$	308,762	\$	10,913,892	-	164,105
GRAND TOTAL		\$	570,802,318	\$	32,679,817	\$	570,638,213	-\$	164,105

4.2 Overall Infrastructure Rebuild estimate - actual life to date costs against current infrastructure rebuild estimate.

The current estimate for the overall rebuild of the City's horizontal infrastructure is \$2.015 billion (excluding contingency and escalation), plus \$18.163m project budget not included in the horizontal infrastructure cost estimate. In addition to the above there is an estimate of \$25m for NZTA State Highways rebuild. For the purpose of this monthly progress report the current overall estimate reported against is therefore \$2.058 billion as outlined in Table 2.3.

It is anticipated that a revised programme estimate will be completed in Q4 of calendar year 2012 to help inform the long term planning process.

4.2.1 SCIRT actual life to date against estimate

Table 2.1 includes the overall life to date costs against the current estimate for the SCIRT performed rebuild of the City's infrastructure. SCIRT is performing \$1.7b of Council infrastructure rebuild, plus \$25m NZTA Highways rebuild.

		Curre	ent Estimate of								F	Forecast Total	
Activity	Description		Cost	Actual Cost 2010/11	Actual (Cost 2011/12	Actua	al Cost 2012/13	Т	otal Actual Cost		Spend	Programme Varian
Road Network	Roading	\$	814,857,143		\$	71,701,403	\$	9,203,593	\$	80,904,996	\$	814,857,143	\$
Wastewater Collection		\$	714,095,238		\$	124,264,847	\$	18,850,534	\$	143,115,381	\$	714,095,238	\$
Water Supply	Water Supply	\$	128,142,857		\$	35,347,203	\$	2,264,213	\$	37,611,416	\$	128,142,857	\$
Waterways & Land Drainage	Stormwater	\$	69,000,000		\$	6,485,377	\$	639,482	\$	7,124,860	\$	69,000,000	\$
NZTA Highways Rebuild		\$	25,000,000		\$	2,168,590	\$	308,762	\$	2,477,352	\$	25,000,000	
TOTAL		\$	1,751,095,238	\$-	\$	239,967,420	\$	31,266,585	\$	271,234,005	\$	1,751,095,238	\$.

Table 2.1 SC	IRT Actual life	to date costs	against estimate
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4.2.2 Non-SCIRT actual life to date against estimate

Table 2.2 includes the overall life to date costs against the current estimate for infrastructure rebuild activities being delivered by Council business as usual mechanisms. The table also includes three projects and their budgets, not included in the current cost estimate, totalling of \$18.163m.

		Cun	rent Estimate of					_		_		Forecast Total	_	
Activity	Description		Cost	Acti	ual Cost 2010/11	Ac	tual Cost 2011/12	Ac	tual Cost 2012/13	Т	otal Actual Cost	Spend	Programme	Variand
Road Network	Roading	\$	78,589,305	\$	12,660,306	\$	1,792,740	\$	717	\$	14,453,764	\$ 78,589,305	\$	-
Vastewater Collection		\$	-	\$	12,010,362	\$	13,757,590	\$	2,979	\$	25,770,931	\$ -	\$	-
Parks & Open Spaces	Greenspace	\$	57,884,181	\$	611,310	\$	1,835,060	\$	1,760	\$	2,448,129	\$ 57,884,181	\$	-
Refuse Minimisation & Disposal	Solid Waste	\$	8,761,905	\$	2,076,017	\$	3,091,587	\$	-	\$	5,167,604	\$ 8,761,905	\$	-
Vastewater Treatment & Disposal	WW Treatment Plant	\$	96,356,381	\$	4,488,038	\$	13,249,043	\$	118,650	\$	17,855,731	\$ 96,356,381	\$	-
Vater Supply	Water Supply	\$	24,095,238	\$	6,123,984	\$	830,545	\$	637,627	\$	7,592,155	\$ 24,095,238	\$	-
Vaterways & Land Drainage	Stormwater	\$	41,619,048	\$	999,542	\$	17,109,703	\$	651,500	\$	18,760,745	\$ 41,619,048	\$	-
OTAL		\$	307,306,057	\$	38,969,560	\$	51,666,268	\$	1,413,232	\$	92,049,060	\$ 307,306,057	\$	

Table 2.2 Non-SCIRT actual life to date costs against estimate

4.2.3 Horizontal Infrastructure – SCIRT and Non-SCIRT actual life to date against estimate

Table 2.3 presents the reconciliation of the budgets. \$2.015b horizontal infrastructure cost estimate, the 18.163m of other Council budgets and SCIRT performed NZTA Highways (\$25 million).

Table 2.3 SCIRT and Non-SCIRT actual life to date	against estimate
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Activity	Description	Cur	rent Estimate of Cost	Actual Cost 2010/1	1 A	ctual Cost 2011/12	Actu	al Cost 2012/13	To	otal Actual Cost	Forecast Total Spend	Programme	/ariance
Council Rebuild		\$	2,033,401,295	\$ 38,969,5	60 \$	289,465,098	\$	32,371,054	\$	360,805,712	\$ 2,033,401,295	\$	-
NZTA Highways Rebuild		\$	25,000,000	\$-	\$	2,168,590	\$	308,762	\$	2,477,352	\$ 25,000,000	\$	-
TOTAL		\$	2,058,401,295	\$ 38,969,5	i0 \$	291,633,688	\$	32,679,817	\$	363,283,064	\$ 2,058,401,295	\$	

5. SCIRT WORK ACTIVITY

5.1 Achievement Report

The progress report for this month includes an achievement report which outlines progress made by the construction projects against key metrics for each asset type.

The information collection process and the key metrics are still being developed in conjunction with SCIRT and the three client organisations and so will continue to be refined.

Asset Type	Asset Sub-Type	Unit	June	July	Life To Date
Storm Water Pump Stations	Pump Station	#	0	0	0
Storm Water Reticulation	Drainage	m	1,012	1,280	3,689
Transport - Roading	Bridges	#	0.0	0.8	1.0
	Pavement	m2	15,163	11,617	91,990
	Retaining Walls	#	0.2	1.9	6.0
Waste Water Pump Stations	Pump Station	#	1.0	0.4	8.0
Waste Water Reticulation	Gravity	m	2,655	5,203	28,477
	Pressure System	m	918	1,688	9,842
	Siphon System	m	37	0	106
Water Supply Pump & Reservoir Stations	Pump Station	#	0.8	0.4	1.0
	Reservoir	#	0.2	422.0	639.0
Water Supply Reticulation	Mains	m	950	984	11,078
	Pipes	m	599	454	7,570

5.2 Number of Ongoing SCIRT Projects

The following table is a summary of the programme pipeline as at July 31st 2012. It shows how many projects and the total value at each stage of the project lifecycle.

Project Lifecycle Stage	June Estimate	July Estimate	June Estimated Construction Cost	July Estimated Construction Cost \$21.7m	
Investigation (Asset Assessment)	37	40	\$19.3m		
Concept Design	64	63	\$525.1m	\$532.3m	
Detailed Design	84	80	\$304.5m	\$365.8m	
Construction	76	83	\$154.7m	\$185.4m	
Handover	190	195	\$74m	\$75.3m	
On Hold	52	50	\$46.3 m	\$39.2m	
Grand Total	503	511	\$1,123.9m	\$1,219.7	

In the table above, the previous monthly report totals have also been included to show the change in activity.

5.3 Ongoing Projects by Ward

5.3.1 Introduction

The progress report this month includes a summary of all SCIRT projects that are currently either in detailed design or construction separated on a Ward basis. A separate table has been included specifically for projects either in detailed design or construction within the central city (within the four avenues). This has been created to assist in the coordination with the Central City Recovery Plan and vertical infrastructure rebuild going forward.

For projects in construction – estimated construction cost (Target Outturn Cost) has been included together with actual Life to Date Costs as at the end of July 2012.

5.3.2 Burwood / Pegasus

	DETAILED DESIGN					
Reference	Project	Project Description				
10415	Pump Station PS63 (PS)	New replacement PS63 at Beach Road. This project is linked to 10926 for the approximately 4Km long 700mm pressure main.				
10585	PS25 - Catchment	Wastewater design for Pumping station 25 Catchment. This area includes sections of Banks Ave and Achillies Street that will be diverted into PS 108. This area also includes the Strathmore Gardens area. The majority of the catchment requires replacement of WW lines.				
10620	Pages Rd Bridge	Repair to Pages Rd Bridge, including road network connecting to roundabout on North end of bridge.				
10694	PS36 Renewal (WW)	New PS36 to replace existing PS36. New station capacity approximately 900 L/S. This project covers all design for the project and construction for above ground activities. A related project covers 2M of below ground construction works required.				
10705	Owles Tce (WW)	Project released from hold March 2012.				
10796	NZTA Anzac Bridge Repairs	Ground improvements, removal of landward bridge spans, demolish and rebuild abutments, repair piers, approaches and underpasses				
10808	PS25 Catchment RD SW and WS Repairs	Design for repair (some surface reconstruction) of minor to moderate earthquake damage to carriageways, kerbs and channels, and footpaths with some associated storm water and water supply works in 12 streets situated in the New Brighton Rd/Marshland Rd area adjacent to The Palms Shopping Mall. This work will follow construction of wastewater repairs/replacement.				
10809	PS28 Catchment RD SW and WS Repairs	Design for repair (some full reconstruction) of minor to severe earthquake damage to carriageways, kerbs and channels, and footpaths with some associated stormwater and water supply works in streets situated in the area from Woodham Rd/Pages Rd north to Wainoni Rd/Breezes Rd. This work will follow construction of wastewater repairs/replacement.				
10819	Keyes Road Catchment (RD,SW)	Repair and reinstatement of roads and underground services (excluding wastewater).				
10840	PS37 Catchment RD SW WS	Linked to Project 10318 WW for the RD WS and SW elements				
10873	Catchment Study - PS36 Catchment, Area NE4 (WW)	Full one pass rebuild of the catchment area (WW element)				

	CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date	
10314	Keyes Road Catchment (WW, WS)	Repair and/or reinstatement of wastewater system.	5/03/12	20/12/12	\$ 5,243,792	\$3,140,673	
10318	PS37 North Catchment (WW)	Wastewater repairs and renewal for northern half of PS37 catchment. Includes one new pump station and approximately 100 pressure sewer pumps.	28/05/12	26/03/13	\$4,289,815	\$1,259,855	
10335	PS54 - Catchment	A large waste water catchment of approx 12 streets which all drain to Pump Station 54 in Avondale.	24/11/11	28/08/12	\$10,893,000	\$6,591,262	
10363	PS108 Catchment (old PS39 Catchment)	A large waste water catchment of approx 12 streets which all drain to Pump Station 54 in Avondale.	14/11/11	14/09/12	\$5,306,865	\$3,923,488	
10421	Estuary Rd Carriageway, PS37 to Bridge Street Catchment (WW)	Estuary Road from Beatty Street to Bridge Street is undergoing the installation of a new deep gravity sewer main. Installation is required as a result of extensive earthquake damage on the existing main, allowing infiltration.	26/09/11	26/09/11	\$2,110,000	\$2,373,986	
10430	PS28 - Catchment	PS 28 catchment services residential and industrial land loosely bounded by Pages Rd, Cuffs Rd, Wainoni Rd and Shortland St in the suburb of Wainoni. Other pockets of land are also serviced including 650 m of Wainoni Rd north of Shortland St and 240 m of Breezes Rd, an area west of Wainoni Rd including a portion of Avonside Dr, Newport St, Tenby PI and Emlyn PI, 350 m of Wainoni Rd south of Cuffs Rd and an area south of Pages Rd including Price PI, 180 m of Kearneys Rd and Mecca PI.	23/07/12	12/07/13	\$15,841,952	\$29,627	
10532	Cnr Pages & Cuff - Emergency Repair	A large waste water renewal to a section of gravity pipe in Pages Rd.	30/01/12	29/08/12	\$945,238	\$1,776,631	
10557	Gayhurst Road Roading (RD)	Design for road reconstruction to repair moderate to severe earthquake damage to carriageway, kerb and channel, and footpaths from Dallington Bridge	16/07/12	16/05/13	\$2,747,247	\$130,398	

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
		northwards to Mundys Road. This project will become part of PS108 Catchment Phase 1 Roading, Storm Water and Water Supply. This work follows wastewater repairs/replacement.				
10577	PS106 - Woolley	Minor new pump station.	2/07/12	14/09/12	\$ 428,800	\$128,868
10765	PS 108 New Pump Station	Minor new pump station.	16/07/12	12/10/12	\$ 1,056,159	\$7,575
10802	PS54 Stage 1 - Northern Roading Renewals Incl Breezes Road	Road design for 8 roads in Avondale. New pipe systems are needed in multiple roads requiring asset managers understanding and buy-in. Includes stormwater full dynamic modelling with probable need to restore capacity by optioneering new components (new basin and/or pump upgrading).	13/08/12	14/05/13	\$3,782,598	\$7,717
10803	PS54 Stage 1 Southern Roading Renewals (South of Breezes Road)	Road design for Pembroke St and Horton Place in Avondale. A new pipe system is needed on Horton St requiring asset managers understanding and buy-in.	18/07/12	4/03/13	\$900,394	\$278,269
10806	Pages & Cuffs Emergency Repair Roading (RD)	Road design for short section of dual carriageway on Pages Road. Rectification involves re-surfacing with new asphalt and minor adjustments to vertical profile and also a short stormwater pipe to connect to new low point in kerb.	7/05/12	29/10/12	\$433,037	\$259,098
10846	Water Main Replacement Projects - Feb 2012	Water Main replacement projects for: Vivian St, Admirals Way, and Pine Ave. Other streets have been moved to other projects: Port Hills Rd and Flavell St to 10681. Keyes Road to 10314. All others removed.	ТВС	TBC	\$705,367	\$575,171
10859	CCC - Private	Investigation and repair of private laterals to valid	ТВС	ТВС	\$ 100,000	\$20,524

		CONSTRUCTION				
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
	Laterals Keyes Road (WW)	EQC claimants (pilot project). There is no design work associated with this project and TOC allocated. All costs are directly returned to CCC with no Limb 3 allocation. Therefore project is grouped with other CCC BAU capital projects.				
10882	Emergency Work - Beatty Street	Emergency relay of a collapsed sewer on Beatty Street	ТВС	ТВС	\$161,561	ТВС
10896	Demolition of Porrit Park and Snells Footbridges, PS26 and PS27 Pump Stations	Demolition and make safe work for Porrit Park Footbridge, Snells Footbridge, PS26 and PS27. Rebuild of the bridges to be undertaken in separate standard projects.	ТВС	ТВС	\$223,084	\$6,733
10898	Medway Footbridge Removal	Removal and make safe of the footbridge. Store off site until a decision is made regarding the structure	ТВС	ТВС	\$82,348	\$5,047

5.3.3 Fendalton / Waimairi

	DETAILED DESIGN					
Reference	ference Project Project Description					
10839	Merivale Catchment RD SW WS	Linked to #10485 for the RD SW and WS elements of the One Pass Projects				

		CONSTRUCTION				
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10425	Glandovey/ Bryndwr Cluster	Design for repair to severe earthquake damage to wastewater and minor damage to carriageways, kerbs and channels, and footpaths (severity yet to be confirmed) storm water and water supply. This cluster incorporates the 9 streets immediately adjacent to and including Glandovey Road between the Wairarapa Stream and Strowan Road	5/11/12	28/08/13	\$2,817,756	\$47,675
10485	Merivale WW	Approximately 9km of WW gravity system, one new pump station.	14/05/12	2/09/13	\$14,263,822	\$1,286,396
10575	Papanui Rd - Knowles to May (WW)	The area has been broken into wastewater sub- catchments in order to determine the best catchment wide solution. 10575 therefore includes Browns Rd north of Mansfield Ave, McDougal Ave east of Murray PI, Murray PI, Innes Rd between Papanui Rd and Browns Rd, Heaton St east of Circuit St, Papanui Rd between Innes Rd and Mays Rd, approximately 230 m of the eastern end of Knowles St, Weston Rd and Chapter St, Approximately 280 m of the western end of Normans Rd and 150 m of the eastern end of Mays Rd.	15/05/12	25/06/13	\$4,795,898	\$730,813

	CONSTRUCTION					
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10852	Minor Works - Casebrook Block	Minor footpath, ramp and pavement repairs	твс	твс	\$226,107	\$59,441
10857	Minor Works - Bridge Minor Works Project Package 02	Minor repair works to 55 bridges that suffered low levels of damage during the EQ events. Delivery team led with input from SCIRT Design teams where required.	ТВС	ТВС	\$29,231	\$66,021

5.3.4 Central City

	DETAILED DESIGN				
Reference	Project	Project Description			
10464	F106 Antigua St Footbridge Replacement of existing structure, or incorporate historical elements into major repair v				
10465	55 F105 Bridge of Remembrance Major structural repair works				
10467	R114 Colombo St (North) Bridge	Major structural repair works Northern Colombo St, over the Avon, heritage bridge near intersection of Oxford Tce & amp; Colombo St.			
10482	Triumphal Arch	All works related to both temporary bracing to arch to support the structure and all permanent repair works. In CBD, Heritage structure.			
10844	Central City - Kilmore Street Catchment Area	One Pass rebuild for the Kilmore Street Brick Barrel Catchment area in the west of the CBD.			

		CONSTRUCTION				
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10445	Fitzgerald Ave Wall and Roading	The works include the replacement of a failed retaining wall and carriageway. Ground stabilization is also being installed with stone columns 12 meters deep.	8/08/11	5/02/13	\$3,130,000	\$3,806,933
10506	Hagley Syphon	Open trenching through Avon and sewer works in North Hagley Park.	23/04/12	23/08/12	\$450,006	\$541,799
10867	Fitzgerald Ave Retaining Wall Footpath	Footpath element of the Retaining Wall project. Linked to Project #10445	ТВС	ТВС	\$604,414	\$290,831
10893	Minor Works- Bridge Minor Works Project Package 01 Bridging	Minor repairs to bridges requiring little design input. Project to be led by SCIRT Project Manager and Delivery teams	ТВС	ТВС	\$221,172	\$7,125

5.3.5 Hagley / Ferrymead (*excludes central city)

		DETAILED DESIGN
Reference	Project	Project Description
10347	Gayhurst Rd (Bridge Works - EW)	Retrofit repair to bridge involving new abutments, piles, wingwalls and associated road approaches and services.
10405	Stadium Package 01	Repair of road and all buried services along a section of Ferry Rd and Moorehouse Ave, near the AMI stadium
10449	St Johns (WW)	
10462	Site 228 Rangatira Tce Retaining Wall (RW)	
10498	Woolston South 1	5km WW gravity system and 1 new pump station with associated rising main, and individual pressure pumps for industrial properties; roading repair works with design for 1 road; approximately 350m new WS, and currently unknown extent of SW
10582	PS8 - Catchment	Design for repair to severe earthquake damage to wastewaster within Pump Station 8 catchment green zone. The green zone is located to the north-west of the Avon River and generally bounded by Flesher Ave to the east and south, Chrystal St to the west and Medway St to the north.
10584	PS27 Catchment Area (WW)	Assessment and repairs/relay of wastewater services in the catchment of the old pump station 27 on Avonside Drive.
10795	PS57 McCormacks Bay Rd Pump Station Repairs (PS)	Repairs to building at existing pump station.
10798	NZTA Port Hills Overpass Bridges	Pier column refinement, subject to ground investigation results
10799	NZTA Horotane Overpass Bridges	Propping system between piers, subject to ground investigation results
10824	Beachville Catchment Area including Beachville Road & Celia Street (WW,WS,SW,RD)	Full one pass rebuild of the catchment area. Project Includes PS30, WW, SW, RD and Sea Wall assets. Projects already existing in this area which this catchment study will relate to are: 10600 - PS30, 10619 - Beachville Road Eastern Seawall, 10677 - Beachville Watermain WS.
10832	PS15 - Alport Place Pump Station Replacement	Construct a new Pump Station; tie in works, odour control system and demolition of existing PS15.

	DETAILED DESIGN				
Reference	Project	Project Description			
10836	PS27 Catchment Area (RD,SW,WS)	Roading, Stormwater and Water Supply for a one pass approach for the PS27 Catchment. Linked to Project 10584.			
10850	Cannon Hill Cres Retaining Walls (RW)	Renewal of 2 collapsed retaining walls on Cannon Hill Road			
10854	PS5 Catchment WS, SW & RD	Roading, Water Supply and Storm Water elements for a one pass rebuild of the PS5 WW Catchment area			
10855	PS8 Catchment WS, SW & RD	Water Supply, Storm Water and Roading elements for the one pass rebuild of the PS8 WW Catchment			

		CONSTRUCTION				
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10303	Site 229 Mt Pleasant Rd Retaining Wall (RW)	60m replacement retaining wall and road reinstatement, in Mt Pleasant	4/02/13	28/05/13	\$458,381	\$935
10306	CCC - PM11 Randolph (WW)	3.6km, 1.2m dia WW pressure main	6/03/12	26/04/13	\$12,831,040	\$5,638,334
10317	Heberden Ave Permanent Solution (WW)	New gravity sewer diversion to replace broken sewer down Scarborough Cliffs.	18/05/12	19/10/12	\$256,733	\$386,819
10356	Woodham Rd (PS5 east of river)	The project scope requires replacement of 960m of damaged waste water from Linwood Ave to Ngarimu St. Road refurbishment will follow sewer works. Traffic diversions are required for this work to be completed safely.	14/11/11	29/10/12	\$3,095,185	\$2,339,069
10388	Richardson Clarendon Syphon	The extent of the work for this work package is the replacement of the 144 Richardson Terrace / 121	1/11/12	8/01/13	\$473,489	\$0

		CONSTRUCTION				
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10403	Barbour St Water (WS)	Replacement of water mains in two streets to the south and east of AMI Stadium, Waltham.	31/01/13	30/04/13	\$ 174,742	\$683
10442	PS15 Gould Cres Overflow Structure	The overflow for Pump Station 15 was removed after collapsing in Feb quake. This work is replacing the structure in a new location of Gould Cres.	14/11/11	30/09/12	\$203,962	\$210,429
10459	Lower Richmond- Stanmore to Fitzgerald (WW)	Approximately 5km of WW, gravity system; requiring 2 new pump stations	20/03/12	30/05/13	\$11,833,107	\$4,538,093
10472	Charleston	Approx 2.9km WW enhanced gravity system, 1 new pump station; 0.3km SW; 8600m2 carriageway reconstruction, and 1830m2 localised repairs	7/05/12	4/02/13	\$3,737,683	\$918,811
10483	Lower Richmond (Southern Section) WS,SW,RD	Full reconstruction of intersection (80m), and localised repairs on remaining streets; 86m of SW replacement	3/09/12	20/11/12	\$316,261	\$6,719
10541	PS11 - Randolf		11/06/12	4/09/12	\$475,000	\$604,961
10548	Gloucester Street	Design for Wastewater, Stormwater, Water, Roading along Gloucester Street between Woodham Road and Avonside Drive. Close to complete replacement of all WW and Roading assets. Stormwater is reasonably intact.	26/06/12	21/09/12	\$1,078,084	\$632,435
10578	PS107	Minor new pump station.	1/08/12	22/11/12	\$563,749	\$14,421
10679	Moncks Spur No. 3	Repair and retrofit of reservoir.	12/04/12	9/08/12	\$217,591	\$166,687
10680	Clifton No. 4 Reservoir	Repair and retrofit of reservoir.	21/03/12	27/11/12	\$437,673	\$254,281
10716	PM 34 Sumner - Replacement		5/03/12	9/08/12	\$1,300,000	\$1,308,994
10820	McCormacks Bay	Tank 1 and 2 and access reinstatement.	ТВС	ТВС	\$1,106,431	\$17,358

		CONSTRUCTION				
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
	Reservoir Stages 3,4 and 5					
10822	McCormacks Bay Reservoir Stage 2 Walls	Retaining walls and rockfall protection works at reservoir site.	ТВС	твс	\$1,549,159	\$965,869
10830	Minor Works - Bridge Minor Works Project Package 01 Roading	Minor repair to bridges requiring little design input. Project to be led by SCIRT Project Manager and Delivery teams.	ТВС	ТВС	\$37,582	твс
10843	Lower Richmond Catchment RD SW WS	Linked to #10459 for the RD SW and WS elements of the project	ТВС	твс	\$1,573,629	\$8,845
10853	McCormacks Bay Reservoirs - Rock Face Protection Work	Rock protection work to facilitate the repairs to the reservoir tanks	твс	твс	\$1,231,910	\$511,093
10863	Charleston Waste Water Pump Station	Pumps Station Construction	ТВС	твс	\$503,092	\$2,407
10864	Woodham Road (SW,RD,WS)	Storm water and water supply elements linked to project 10356 WW & amp; RD	ТВС	твс	\$441,840	\$412,160

5.3.6 Lyttelton / Mt Herbert

	DETAILED DESIGN				
Reference Project Project Description					
10511	RW Package 06 - Selwyn and Ross	Design five retaining walls on Selwyn Street and Ross Terrace, Lyttelton. The walls range in height from 1.5m to 3m, and are of high heritage value. These walls are currently located within the white zone.			
10818	NZTA - Norwich & Gladstone Quay State Highway Repair (RD, WW, SW, WS)	Repairs to state highway adjacent to the Port of Lyttelton			

	CONSTRUCTION							
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date		
10394	RW Package 05 - Canterbury Stone Walls (RW)	Canterbury Stone Lyttelton. The walls are up to 4.5m high and are of 16		9/11/12	\$1,482,372	\$166,645		
10400	RW Package 08 - Lyttelton non- stone (RW)	Design five replacement retaining walls on London Street, Canterbury Street, Hawkhurst Road and Ticehurst Road. Sections of these walls are of high heritage value. The walls on London Street and Canterbury Street are located within the white zone.	12/06/12	30/10/12	\$589,801	\$289,774		
10424	Sumner Rd Retaining Wall L	Stage one of new 450m long modular block retaining wall.	25/11/11	1/02/13	\$1,658,595	\$805,150		
10427	035 Cunningham Tce retaining wall (RW)	Repair of retaining wall in Cunningham Tce, along with associated buried services	17/08/12	2/04/13	\$1,785,393	\$198,947		
10475	Site 079 Coleridge/Dublin St Ret. Walls	200m replacement retaining wall and road reinstatement in Lyttelton	28/09/12	25/07/13	\$1,607,135	\$145,773		

	CONSTRUCTION							
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date		
10905	Sumner Rd Retaining Wall L - Stage 2 Wall and Stage 1 and 2 Roads (RW, RD)	Stage two of new 450m long modular block retaining wall.	твс	ТВС	\$2,054,487	\$331		

5.3.7 Riccarton / Wigram

DETAILED DESIGN					
Reference	Project	Project Description			
	*No projects in Detailed Design				

	CONSTRUCTION							
Reference	Project	Project Project Description		Estimated Finish	Estimated Cost	Life To Date		
10383	PS73 Kennedys Bush	Repair of wastewater PS 73	29/05/12	31/08/12	\$86,242	\$51,004		
10409	Halswell WW Package 03	Repair wastewater along a section of Halswell Rd, O''Halloran Dr, & within private properties behind Muir Ave.	12/06/12	5/12/12	\$1,516,362	\$484,096		
10909	Minor Works - Port Hills Package 01	Minor road repairs within the Port Hills	ТВС	ТВС	\$178,770	\$11,735		

5.3.8 Shirley / Papanui

	DETAILED DESIGN						
Reference	Project	Project Description					
10816	PS7 Catchment Phase 4 Waste Water Renewals	Wastewater network remediation in the Pump Station 7 catchment which is situated in Shirley centred upon Stapleton's Road and Shirley Road which bisect the catchment. (Area 4 of 4, central/western quarter of catchment)					
10858	Minor Works - Pump Station Demolition and Repairs (WW)	Minor repair works to slightly damaged Pump Stations that require no major works during the rebuild programme. Demolition of 3 PS buildings to make safe in Red Zones. Project led by the delivery team with a SCIRT Design input and coordination. Close liaison with CCC Operations team (Graeme Black) required throughout the project.					

	CONSTRUCTION							
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date		
10344	Edgeware Road - Emergency Works	A large complex repair to a sewer trunk main in Edgeware Rd.	22/09/11	16/08/12	\$1,734,794	\$1,904,587		
10457	Purchas & Madras (Bealey - Edgeware)	WW, SW and roading repairs. Includes traffic calming on Purchas St to conform to IDS and City Plan requirements for Local Road widths.	8/11/11	21/12/12	\$2,962,824	\$3,532,525		
10534	Innes & Knowles - sub catchment	The local wastewater reticulation on Innes Rd and Knowles St between Philpotts Rd and Bretts Rd suffered earthquake induced damage during the recent seismic events.	26/07/12	5/06/13	\$9,215,965	\$42,575		
10535	Rutland Rd - sub catchment	Wastewater repair along a single street east of Papanui. This project area is lightly to be revised.	20/04/12	27/11/12	\$1,556,699	\$813,546		
10536	Edgeware Rd - WW	This contract is for the supply and installation of approximately 1430m of 150 mm diameter PVC-U to replace the existing wastewater line along Edgeware Road. The works include supply and	12/04/12	14/09/12	\$1,770,383	\$1,488,482		

		CONSTRUCTION				
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
		installation of new manholes and wastewater pipeline and connection to laterals from adjacent residential properties. The works include any temporary measures required to provide continued operation of the gravity system during construction.				
10810	PS7 Catchment Phase 1 Waste Water Renewal	Wastewater network remediation in the Pump Station 7 catchment which is situated in Shirley centred upon Stapleton's Road and Shirley Road which bisect the catchment. (Area 1 of 4, south of catchment)		8/05/13	\$4,521,962	\$573,993
10812	PS7 Catchment Phase 2 Waste Water Renewal	Wastewater network remediation in the Pump Station 7 catchment which is situated in Shirley centred upon Stapletons Road and Shirley Road which bisect the catchment. (Area 2 of 4, eastern quarter of catchment)	18/06/12	23/05/13	\$5,394,690	\$305,353
10814	PS7 Catchment Phase 3 Waste Water Renewal	Wastewater network remediation in the Pump Station 7 catchment which is situated in Shirley centred upon Stapletons Road and Shirley Road which bisect the catchment. (Area 3 of 4, north western quarter of catchment)	23/07/12	27/09/13	\$6,094,133	\$36,410
10856	Minor Works - Northwood Block	Footpath, ramp and pavement repairs.	ТВС	твс	\$176,033	\$65,369
10899	Minor Works - Lower Styx Road & Turners Road	Pavement repairs	твс	ТВС	\$150,763	ТВС

5.3.9 Spreydon / Heathcote

	DETAILED DESIGN					
Reference	Project	Project Description				
10310	Milton St and Frankleigh St Wastewater Reconstruction (WW)	Repair of road and all buried services along Milton and Frankleigh Streets, including the section of Lyttelton either side of the intersection				
10398	Somerfield Package 01 (WW,SW,RD,WS)	Repair and reconstruction of all assets within a small catchment block.				
10797	NZTA Heathcote/Opawa Bridge Repairs	Ground improvements, and underpinning and lifting (jacking) of the abutments				
10871	Opawa, Hillsborough Catchment SE11 (South) (WW)	Full one pass rebuild of the catchment area - WW element				

	CONSTRUCTION							
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date		
10311	Antigua St / Burke St Arterial Roads (WW,WS,SW,RD)	Repair of road and all buried services along Antigua St (between Moorehouse & amp; Brougham) and Burke St (between Selwyn & amp; Montreal)	19/04/12	7/06/13	\$3,151,988	\$591,745		
10379	Fisher Ave & Eastern Tce Syphon (WW)	Repair of Syphon near Fisher Ave	4/05/12	7/09/12	\$455,870	\$463,618		
10385	Bewdley Evesham and Dellow	Repair of road and all buried services along Bewdley St, Eversham Cres & amp; Dellow Pl.	20/04/12	18/10/12	\$1,374,176	\$1,238,603		
10404	Hollis Ave Water (WS)	The works consist of the replacement of approximately 330 m of existing 100 mm AC water main in Holliss Avenue with 125 mm PE100 PN16 pipe.	13/07/12	20/09/12	\$135,869	\$82,999		
10410	Hollis Ave WW Repair of wastewater along a section of Holliss Ave between Gunns Cres & amp; Centaurus Rd.		19/04/12	31/08/12	\$643,868	\$662,792		

	CONSTRUCTION								
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date			
10520	Hoon Hay Package 01	Repair of road and all buried services along a section of Hoon Hay Rd (between Halswell & amp; Sparks), including Penny In, Weir PI, McBeath Ave, Muirson Ave; Greenpark St.	27/06/12	12/04/13	\$6,767,934	\$110,692			
10821	Huntsbury Reservoir Tank No 2 & demolition	New reservoir tank (no.2) constructed in NE corner of old reservoir.	ТВС	ТВС	\$3,458,765	\$2,013,121			

5.4 Projects Complete by Ward

The following section outlines the projects within each ward that have been completed since SCIRT was established on 1st September 2011. It includes both a summary of numbers of projects as well as a list of specific projects. It is anticipated that the completed projects for the last quarter will be reported on a monthly basis.

Ward			June Projects Life To Date Cost	July Projects Life To Date Cost
Burwood-Pegasus	76	80	\$21,902,166	\$23,235,813
Fendalton-Waimari	2	3	\$179,143	\$209,784
Central City	5	5	\$178,156	\$178,156
Hagley-Ferrymead	62	62	\$16,999,628	\$18,937,501
Lyttelton-Mt Herbert	5	5	\$154,405	\$461,668
Riccarton-Wigram	6	6	\$4,786,831	\$4,808,733
Shirley-Papanui	17	19	\$3,606,667	\$3,914,020
Spreydon-Heathcote	15	16	\$6,232,684	\$6,320,447
Total	187	196	\$54,039,680	\$58,066,121

In the table above, the previous monthly report totals have also been included to show the change in activity.

5.4.1 List of Projects Complete by Ward

Ward	Reference	Project	Project Life to Date Cost
Burwood-Pegasus	10312	Rowes/Tomrich Street Watermain	\$264,247
	10321	PM51 Emergency Repair	\$1,510
	10325	Cresswell Avenue - Watermains	\$148,731
	10327	Pembroke Street	\$146,277
	10328	De Ville Place	\$107,535
	10331	PM39 - Gayhurst Rd	\$1,594,111
	10332	PM54 - Niven-Avonside	\$375,476
	10338	Wainoni Road (WW EW - Ottawa to Avonside)	\$908,330
	10339	Woodham Road (Temp Repairs)	\$4,146,744
	10340	Ottawa Road Sewer Emergency Repair	\$517,444
	10342	Avondale Road (Bridge Emergency Works)	\$0
	10343	PM16 - Oakmont Green	\$4,287
	10346	Fleete Street - Emergency Repair	\$9,243
	10349	PS39 - Birchfield Avenue WW EW	\$218,674
	10351	Ardrossan Street - Temp. Solution	\$347,571
	10355	Landy Street	\$18,738
	10364	Shortland Street	\$343,883
	10366	McBratneys Road - WM	\$348
	10376	PM28	\$1,499,119
	10384	Pacific_Tedder Watermain Replacement	\$528,152
	10440	PS 25C	\$702,670
	10443	PM38_Beach Rd	\$596,770
	10484	Pump Station 25 connection repair	\$8,977
	10551	Avondale Rd (Temp Repair)	\$0
	10576	PM106 - Woolley	\$1,466
	10604	PM 45	\$324,122
	10605	Sylvia Street watermain	\$134,293
	10606	Chadlington Street Water Mains	\$35,376
	10607	PM 37	\$1,907,741
	10608	PM 35	\$1,087,648
	10614	Aldershot Street watermain (WS)	\$255,436
	10615	Willryan Avenue Watermain	\$237,336
	10616	Flemington and Ascot Ave Watermains	\$525,892

Ward	Reference	Project	Project Life to Date Cost
	10617	PM46	\$5,913
	10621	Chartwell Street Water Mains	\$384,531
	10638	630 Pages Road 450mm WW	\$25,397
	10639	23 Leaver Tce WW	\$62,858
	10640	153 Beach RD WW	\$0
	10641	Kirner St WW	\$21,497
	10645	Inwoods Close 450mm WW	\$128,404
	10647	Travis Rd watermains and submains	\$215,845
	10649	Corhampton St watermains and submains	\$261,190
	10650	Water Main on Bridge Street Bridge (WS)	\$207,907
	10664	Saltaire (Bower to Marriots Rd) - WS	\$69,096
	10665	Sinclair (keyes to Rawson) - WS	\$250,841
	10669	Palmers Rd PS Stabilisation	\$16,065
	10670	Major flooding Pratt St.	\$295,425
	10671	Owles Tce Temp. (WW)	\$113,618
	10676	Marine Parade Watermain	\$153,358
	10682	Briarmont St watermain	\$87,815
	10683	Cowes St Watermain and Submains (WS)	\$107,789
	10684	Gresham Terrace Watermain and Submains (WS)	\$161,116
	10685	Inverell Pl Watermain and Submains (WS)	\$63,517
	10686	Orrick St Watermain and Submains (WS)	\$83,284
	10688	Blake St Watermain (WS)	\$343,340
	10689	Pegasus Ave Watermain	\$168,650
	10690	Bassett St Watermain (WS)	\$225,196
	10691	Falcon St Watermain	\$180,757
	10692	Beach Rd Watermain	\$138,143
	10695	Allstone Watermain	\$90,800
	10696	Marriotts Road Watermain	\$37,425
	10700	Hulverstone Drive Emergency Repair	\$22,188
	10702	Rawhiti Water Well Stormwater Outfall	\$147,524
	10706	Bowhill Watermain (WS)	\$149,728
	10708	Rookwood Ave Watermain	\$174,169
	10711	Waitaki St Temp. Sewer	\$0
	10714	Kate Sheppard Emergency Repair (Barkers Lane Temp Works) (WW)	\$187,534

Ward	Reference	Project	Project Life to Date Cost
	10723	Merrington Cres Watermain	\$183,621
	10723 10744 10749 10752 10756 10789 10789 10733 10794 10756 10789 10789 10730 10333 10833 10336 10336 10312 10354 10354 10354 10354 10354 10354 10354 10354 103590 10447 10726 107764 107764 10301 103301 10333 10333 10333	Rowan Ave Emergency Work WW	\$447,340
	10744	PS 36 Gravity Main (Pages Rd)	\$579
	10749	Beach Rd Gravity Sewer (WW)	\$67,291
	10752	Desal plant long term storage	\$83,333
	10756	PM39 Temp Overland Pipe (PM)	\$7,828
	10789	Woodham Road Water Supply Pumping Line Renewal	\$83,862
	10794	Pratt Street (Keyes Road) Water Main from Pumping Station	\$222,864
	10833	Fast Track - PS36 Sewerage Overflow Repairs Pages/Waitaki (WW)	\$3,131
	10834	Minor Works - Stage 1 Schools	\$7,185
	10838	Minor Works - Banks Avenue	\$121,240
	10315	Ferner Street - Emergency Wks	\$223,901
	10336	Kingsford & Liggins Streets (Projects 10336 & 10885)	\$204,574
	10312	Rowes/Tomrich St Watermain	\$264,247
Fendalton- Waimari	10354	Papanui Road - Emergency Wk	\$53,511
	10480	R126 Monavale Footbridge	\$30,641
	10590	Thornycroft Street - Pri4 WM	\$125,632
Central City	10447	Fitzgerald Ave Temp Sewer Replacement (WW)	\$22,117
	10455	Fitzgerald Ave Twin Bridges Temp Repairs	\$0
	10726	Stormwater Pump Station 203	\$44,715
	10764	PM3 Temporary Repair (Complex Emergency)	\$3,365
	10790	Liverpool Street Water Main (CBD)	\$107,959
Hagley-Ferrymead	10301	CCC - Tanner Street Replacement Well (WS)	\$15,792
	10319	St Martins Package 01 (WW) Wilsons Rd South, St Martins Rd and Gamblins Rd	\$1,338,475
10326		Retreat Road	\$678,774
	10333	PM57 - Replacement (Stage 2 March)	\$2,075,207
		Avonside - WW Trunk Sewer	\$204,090
	10341	River Road - Siphon (WW)	\$663,172
	10350	Avonside Drive/Retreat - Gravity Sewer Repair	\$93,588
	10352	Avonside Drive/Morris Bowie - Gravity Sewer Temp. Solution	\$86,006

Ward	Reference	Project	Project Life to Date Cost
	10353	294 Avonside Drive - Temp. Solution	\$241,562
	10358	PS57 - McCormacks Bay Rd Sewer Overflow Renewal	\$170,231
	10361	PS54 Catchment Temp. Solutions	\$877,947
	10362	PS5 - Glade	\$0
	10372	Dacre Street	\$125,100
	10386	St Andrews Hill Rd Sewer (Major Hornbrook)	\$70,826
	10391	Stevens St Watermain	\$164,811
	10402	Moorhouse SW BB 02	\$72,671
	10406	226 Main Road SW	\$4,627
	10411	Clifton Reservoir 3	\$360,172
	10417	Upper Balmoral Reservoir	\$407,316
	10422	PM 31 Renewal Works	\$1,591,347
	10431	PS15 Alport	\$1,281,341
	10434	PS12 Smith	\$545,970
	10441	Ferry Road_873	\$366,749
	10448	PM 12	\$710
	10451	Manning-Ferry	\$16,641
	10452	WW No Service Grafton	\$134,202
	10454	225 Linwood Ave	\$74,062
	10458	31 Stanmore Road	\$48,644
	10463	Hamner Street - waste water relay	\$72,948
	10471	33 River Terrace	\$38,939
	10473	Wickham St Watermain replacement	\$307,303
	10478	F805 McCormacks Bay 1 Footbridge	\$8,795
	10479	F806 McCormacks Bay 2 Footbridge	\$7,959
	10481	R223 Heathcote Barrage	\$4,593
	10496	PS13 Tilford	\$10,073
	10497	PS10 Linwood WW	\$13,699
	10499	Saxon Street Waste Water	\$15,687
	10505	Stanmore Road Lateral	\$0
	10537	Patten Street	\$633,749
	10539	Brittan Street	\$564,450
	10586	PM107	\$261,078
	10609	PM 47	\$24,815
	10612	McCormacks Bay Reservoir No 2-2	\$675,141
	10613	Mt Pleasant Reservoir 2/2	\$95,660
	10618	Beachville Road Pressure + Gravity Main	\$476,693

Ward	Reference	Project	Project Life to Date Cost
	10629	McCormacks Bay Rd WR mains and submains	\$2,177,304
	10644	55 Clark St WW	\$759
	10666	Head Street - Esplanade to Nayland (WS)	\$78,803
	10677	Beachville Watermain (WS)	\$248,863
	10687	Wakefield Ave Watermain (WS)	\$156,900
	10729	WW, Gravity Bridal Path and Cannon	\$250,799
	10734	WW, 262 Main Road	\$0
	10739	Heberden Ave Temporary Solution (WW)	\$102,792
	10743	281 River Rd Siphon (WW)	\$0
	10746	Ruru Ave Repair PM 11	\$42,191
	10747	Bromley Waste Water Treatment	\$23,860
	10753	WW No Service Glendevere (WW)	\$2,081
	10763	Monks Bay Walkway - Temp Repairs	\$45,416
	10779	CCC - Linwood Avenue Water Main	\$454,401
	10782	15 Dunoon Place Emergency Stabilisation / Sewer Repair	\$179,641
	10792	Truro Street Emergency Waste Water Sewer Renewal (Van Asch School)	\$173,582
Lyttelton-Mt Herbert	10382	Lyttelton Treatment Plant Access	\$0
	10636	Priority Roads - Governors Bay Road Rebuild	\$387,073
	10672	Sutton Quay Retaining wall 441 (RW)	\$39,384
	10732	Flat land at base on hill along Main Road - WW	\$0
	10878	Cunningham Terrace & Sumner Rd Temp Access Works	\$35,211
Riccarton-Wigram	10309	Halswell Minor Roading Works - All Areas	\$319,312
	10380	Halswell WW Package 02	\$2,031,254
	10387	Townshend Cres Wastewater	\$46,679
	10389	Sparks Rd Watermain	\$175,935
	10392	Halswell WW Package 1 (WW)	\$2,110,120
	10408	Glovers St water (WS)	\$125,432
Shirley-Papanui	10308	Riselaw Street	\$91,424
	10313	PM6 - Harrison St	\$206,843
	10322	Ranfurly Street	\$118,626
	10323	Chrystal Street	\$83,927

Ward	Reference	Project	Project Life to Date Cost
	10329	Hope street	\$145,208
	10330	Orontes Street - WS	\$90,022
	10329 H 10330 O 10334 P 10345 N 10345 N 10348 C 10349 O 10369 O 10437 P 10439 H 10446 B 10460 4 10555 M 10805 M 10805 M 10837 H 10837 M 10320 M 10331 R 10331 R 10333 O 10390 C 10393 S 10433 P 10477 <td< td=""><td>PM7 - Stapletons Rd</td><td>\$242,909</td></td<>	PM7 - Stapletons Rd	\$242,909
		Nancy Ave / Weston Rd	\$16,297
	10348	Shirley Road - Wastewater (Emergency Repair)	\$696
	10369	Orion Street	\$41,881
	10437	PM 40_Marshlands	\$585,684
	10439	Heyders_29-65_WW	\$320,151
	10446	Brooklands Roading - Temp Repairs	\$364,289
	10460	449 Durham Street North	\$304,376
	10555	Madras Street / Forfar Wastewater	\$588,121
	10805	Madras Street Road, Storm Water & Water Supply Repairs	\$340,372
	10837	Minor Works - Shirley Boys High School	\$115,055
	10851	Minor Works - Marshland Road & Belfast Road	\$257,041
	10581	Catchment Study - PS7 (10810, 10811, 10812, 10813, 10814, 10815, 10816, 10817)	\$1,098
Spreydon- Heathcote	10320	Murray Aynsley Reservoir 2	\$148,173
	10381	Rydal St (WW)	\$921,753
	10390	Centaurus Rd Watermain	\$143,772
	10393	Smartlea WW Emergency Rep	\$109,991
		75 Wilsons Emergency Repair	\$825
	10397	Glenelg Spur 01	\$141,527
		PS19 Beckford	\$3,201
		PS20 Locarno	\$19,259
		F207 Aynsley Tce Footbridge	\$8,319
		F212 Sloan Tce Footbridge	\$593
		PS19 - Syphon	\$0
		Huntsbury Reservoir Colombo St (South) Bridge - Concept only, no construction work undertaken (RD)	\$4,061,037 \$2,207
	10745	CCC - Sydenham Stn Replace Wells (WS)	\$236,486
	10755	PS19 Fifield - 171 Fifield - Sheet piling protection of riverbank	\$114,715
	10787	Rydal Street Water Supply, Storm Water and Roading Renewals (SW,WS, RD)	\$408,589
Grand Total			\$58,066,121

6. NON-SCIRT WORK ACTIVITY

6.1 Introduction

The following section of the report included a progress report against infrastructure and other associated rebuild projects that are not being delivered by SCIRT. It includes a report on progress on Greenspace projects, Christchurch Wastewater Treatment Plant and Organics Processing Plant, Burwood Landfill and Water Supply Wells.

6.2 Greenspace

Ward	Work Package Number	Project	Description	Number of projects in package	Phase	Estimated Construction Start	Estimated Construction Finish	Estimated Cost
Banks Peninsula Wards	WP0000537	PARKS Marine Structures Repairs	Marine Structures Repairs	13	BUILD	01/08/2011	30/06/2012	\$462,000
	WP0000551	PARKS Marine Structures Assessments	Marine Structures Assessments	10	COMPLETE	01/08/2011	30/11/2011	\$60,000
	WP0000783	B/P Retaining Walls	Retaining wall repairs in parks and cemeteries on Banks Peninsula	4	INVESTIGA TION			\$241,000
Burwood Pegasus	WP0000251	PARKS CEAF 1.1 Sth New Brighton CAPEX	Hard surface and playground under surfacing renewals	8	BUILD	01/10/2011	30/06/2012	\$227,000
	WP0000257	PARKS CEAF 1.2 B/P CAPEX	Bexley, Avondale and Burwood Parks hard surfacing renewals	3	COMPLETE	01/09/2011	31/10/2011	\$60,200
	WP0000258	PARKS CEAF 1.2 B/P OPEX	Hard surface repairs	11	COMPLETE	01/10/2011	29/02/2012	\$131,000
	WP0000284	PARKS CEAF 2.6 TRAVIS CAPEX	Hard surface renewals	5	COMPLETE	01/12/2011	29/02/2012	\$175,500
	WP0000285	PARKS CEAF 2.7 AVON PARK CAPEX	Hard surface renewals	3	INVESTIGA TION	01/03/2012	31/05/2012	\$290,550
	WP0000286	PARKS CEAF 2.8 ESTUARY CAPEX	Hard surface renewals	1	INVESTIGA TION	01/03/2012	31/05/2012	\$300,000
City wide	WP0000177	PARKS Playground Softfall - CAPEX	Replacement of contaminated softfall to playgrounds	24	COMPLETE	01/08/2011	30/11/2011	\$358,460
	WP0000206	PARKS Playground Softfall - OPEX	Repairs to playground under surfacing	8	COMPLETE	01/08/2011	20/12/2011	\$46,500
	WP0000269	PARKS CEAF 2.2 S/P,F/W,R/W,L/M OPEX	Hard surface and minor structural repairs	11	BUILD	01/03/2012	31/05/2012	\$54,500
	WP0000312	PARKS Hard Surface Nthn & Sthn - OPEX	Hard surface repairs	58	BUILD	01/03/2012	30/04/2012	\$127,950
	WP0000313	PARKS Hard Surfaces Nthn & Sthn CAPEX	Hard surface renewals	14	BUILD	01/03/2012	30/04/2012	\$204,600
	WP0000318	PARKS Hard Surfaces Eastern CAPEX	Hard surface renewals	24	BUILD	01/03/2012	31/05/2012	\$902,450
	WP0000321	PARKS Hard Surface	Hard surface repairs	76	BUILD	01/03/2012	31/05/2012	\$227,900

Ward	Work Package Number	Project	Description	Number of projects in package	Phase	Estimated Construction Start	Estimated Construction Finish	Estimated Cost
		Eastern - OPEX						
	WP0000323	PARKS City Wide Turf Repairs - OPEX	Repairs to non sports turf surfaces	110	COMPLETE	01/11/2011	31/05/2012	\$393,050
	WP0000357	PARKS Retaining Walls CAPEX	Minor retaining wall renewals	6	BUILD	01/08/2011	30/06/2012	\$262,000
	WP0000358	PARKS Retaining Wall Repairs	Minor retaining wall repairs	26	BUILD	01/08/2011	30/06/2012	\$203,150
	WP0000376	PARKS Minor Structures CAPEX	Minor structures renewals	9	INVESTIGA TION	01/08/2011	30/06/2012	\$206,000
	WP0000377	PARKS Minor Structures Repairs	Minor structures repairs	64	BUILD	01/08/2011	30/06/2012	\$275,150
	WP0000571	PARKS 2012 Sports Fields Repairs	Repairs to sports turf 2011/12	45	COMPLETE	01/09/2011	31/03/2012	\$496,614
	WP0000768	PARKS Mature Tree Replacements	Tree renewals at Hagley Park and Sth Brighton Domain	2	BUILD	01/03/2012	30/06/2012	\$100,000
	WP0000769	PARKS Port Hills Restoration	Port Hills rock fencing and planting	2	INVESTIGA TION			\$200,000
	WP0000205	PARKS Sports Fields Repair - Moderate	Repairs to sports turf	19	COMPLETE	01/05/2011	31/07/2011	\$254,000
	WP0000207	PARKS Sports Fields Repair - Minor	Repairs to sports turf	23	COMPLETE	01/05/2011	31/07/2011	\$122,550
	WP0000779	Structural	Bridge repairs on Parks City wide	15	INVESTIGA TION			\$816,200
	WP0000780	Regional Parks	Repairs to structures and hard surfaces	6	INVESTIGA TION			\$465,000
	WP0000781	Trees	City wide tree renewals	1	INVESTIGA TION			\$500,000
	WP0000782	Ponds	Repairs to small ponds and outflows in parks	2	BUILD			\$50,000
	WP0000784	Cemeteries - Operational	Repairs and make safe work to headstones in Operational cemeteries	18	BUILD	01/12/2011	30/06/2012	\$250,000

Ward	Work Package Number	Project	Description	Number of projects in package	Phase	Estimated Construction Start	Estimated Construction Finish	Estimated Cost
	WP0000785	Cemeteries - Heritage	Repairs and make safe work to headstones in Heritage cemeteries	3	INVESTIGA TION			\$250,000
Hagley Ferrymead	WP0000252	PARKS Victoria Lake CAPEX	Relining Victoria lake	1	COMPLETE	01/07/2011	29/02/2012	\$500,000
	WP0000253	PARKS CEAF 1.3 Hagley Pk/Bot.Gdns CAPEX	Hard surface and playground under surfacing renewals	5	COMPLETE	01/09/2011	29/02/2012	\$295,000
	WP0000254	PARKS CEAF 1.4 Hagley Pk North CAPEX	Irrigation and Turf renewals	2	COMPLETE	01/07/2011	31/07/2011	\$90,000
	WP0000263	PARKS CEAF 1.6 H/F CAPEX	Hard surface renewals	5	COMPLETE	01/10/2011	29/02/2012	\$103,500
	WP0000264	PARKS CEAF 1.6 H/F OPEX	Hard surface, track and minor structure repairs	21	BUILD	01/10/2011	29/02/2012	\$178,499
	WP0000265	PARKS CEAF 1.8 BOT. GARDENS CAPEX	Playground under surfacing repairs	1	COMPLETE	01/10/2011	29/02/2012	\$50,000
	WP0000287	PARKS CEAF 2.9 VICTORIA SQUARE CAPEX	Hard surface, track and minor structure renewals	4	INVESTIGA TION			\$727,000
	WP0000288	PARKS CEAF 2.10 CENTRAL CITY PARKS CAPEX	Hard surface renewals	3	ON HOLD			\$15,000
	WP0000289	PARKS CEAF 2.10 CENTRAL CITY PARKS OPEX	Hard surface, track and minor structure repairs	10	ON HOLD			\$14,100
	WP0000767	PARKS Sumner/Scarborough Restoration	Hard surface renewals	9	BUILD	01/12/2011	31/03/2012	\$187,000
Riccarton Wigram	WP0000280	PARKS CEAF 2.5 MONA VALE CAPEX	Hard surface, bridge and wall renewals	5	INVESTIGA TION			\$292,000
Shirley Papanui	WP0000255	PARKS CEAF 1.5 Groynes CAPEX	Car Park, Driveway, Turf, Track and Jetty renewals	6	COMPLETE	01/08/2011	30/09/2011	\$106,000
	WP0000256	PARKS CEAF 1.7 Temp Changing Rooms CAPEX	Portable changing facilities for sports parks	2	BUILD	01/02/2012	31/05/2012	\$300,000
	WP0000268	PARKS CEAF 2.1 English Park CAPEX	Car Park renewal	1	COMPLETE	01/08/2011	30/10/2011	\$247,500

Ward	Work Package Number	Project	Description	Number of projects in package	Phase	Estimated Construction Start	Estimated Construction Finish	Estimated Cost
	WP0000277	PARKS CEAF 2.3 S/P OPEX	Hard surface and track repairs	5	COMPLETE	01/03/2012	31/05/2012	\$20,500
	WP0000278	PARKS CEAF 2.3 S/P CAPEX	Hard surface renewals	3	COMPLETE	01/03/2012	31/05/2012	\$90,000
	WP0000778	Roto Kohatu	Repairs to bank works at Roto Kohatu Reserve	1	COMPLETE	01/02/2011	30/04/2011	\$200,000
Spreydon Heathcote	WP0000279	PARKS CEAF 2.4 S/H OPEX	Hard surface and minor structural repairs	11	COMPLETE	01/11/2011	31/03/2012	\$86,000
N/A	N/A	On Hold	Projects on hold due to them being in Red Zoned areas, cordons, rock fall risk etc. Depending on land decisions some of these repairs/renewals may become redundant in the future.	141	ON HOLD			\$6,133,100
				53	Investigation		\$4,287,750	
		Statu	is Summary	354 299	Build Complete		\$4,012,199 \$3,886,374	
				154	On Hold		\$6,162,200	
				134			<i>40,102,200</i>	
							\$18,348,523	

6.3 Wastewater Treatment Plant and Organics Processing Plant

Project	Description	Phase	Estimated Construction Start	Estimated Construction End	Estimated Cost
Clarifiers	C4 - New structural bottom - CIPP repair to influent pipe - Modify Arms to suit new structure.	Complete	Nov 11	3 Feb 12	
	C3 - New structural bottom - CIPP repairs to influent pipe. - Modify Arms to suit new structure	Complete	24 Jan 12	30 June 12	
	C1 - New structural bottom - CIPP repair to influent pipe - Modify Arms to suit new Structure	Construction	July 12	30 Nov 12	
	C2 - Verify that emergency repairs have returned asset to pre-EQ functionality and asset condition.	Investigation			
					\$8,982,026
Civil & Structural	Paving	Construction	Oct 11	Sept 12	
	C2 water	Complete	Oct 11	Feb 12	
	Crack repairs to structures.	Construction	April 11	Nov 12	
	Reclad Digester 2	Complete	Sept 11	Dec 11	
					\$3,187,259
Oxidation Ponds	Transfer structures 1-4	Complete	Oct 11	Feb 12	
	• Transfer Structure 4-5.	Complete	Dec 11	Mar 12	
	Pond banks strengthen and reinstate to design levels.	Construction	Jan 12	Nov 12	
	Estuary outfall structure	Construction	July 12	Sept 12	
	Cuthberts Road transfer structure	Design	Sept 12	Dec 12	
					\$18,122,788
Galleries	South Gallery – drainage and structural <i>Proposed repair strategy unsuccessful, redesign underway</i>	Design	Sept 12	Dec 12	
	 North Gallery – drainage & joints 	Construction	June 12	Aug 12	
	 Diagonal Gallery – drainage & joints 	Design	Aug 12	Sept 12	
	 Pump Stn A – drainage & joints 	Design	Sept 12	Oct 12	
	 Sludge Rm A – drainage & joints 	Design	Oct 12	Nov 12	
					\$1,353,550
Trickling Filters	Trickling Filter 1	Investigation	Aug 12	Nov 12	
	Trickling Filter 2	Investigation	Nov 12	Mar 13	
					\$1,000,000

Project	Description	Phase	Estimated Construction Start	Estimated Construction End	Estimated Cost
Mechanical & General	Digesters 2	Construction	Oct 11	Sept 12	
Repairs	Digesters 1	Investigation	Aug 12	Nov 12	
	Digester 4	Investigation	Sept 12	Jan 13	
	Digester 3	Investigation	Nov 12	April 13	
	Digesters 5	Investigation	April 13	July 13	
	Digester 6	Investigation	July 13	Oct 13	
	Buffer Tank	Complete	Nov 11	Jan 12	
	 Primary Sedimentation Tanks 	Construction	June 11	July 12	
	 Bio- Solids Holding Tank 	Design	Sept 12	Feb 12	
					\$4,088,195
Organics Processing Plant	 Demolish & Reconstruct Tunnels Repair & Strengthen Process Hall Repair Hard Standing 	Construction	Mar 12	July 13	
					\$9,518,133
Facilities	Laboratory	Investigation	Feb 13	June 13	
	Control room	Investigation	Feb 13	June 13	
	Workshops	Investigation	Feb 13	June 13	
	 Offices/ Cafeteria/ Mtg room 	Investigation	Feb 13	June 13	
					\$2,741,000
Outlet Structure	Replace Broken Outlet PipesNew Outlet Structure	Design	Nov 12	Mar 13	
	Decommission Broken Pipes				\$2,300,000
	TOTAL				\$51,292,951

In the table above, the bolded text identifies a change in activity since the previous monthly report.

6.4 Burwood Landfill

Project	Description	Material Received (tonnes)	Material Processed (tonnes)	Phase	Estimated Construction Start	Estimated Construction End	Estimated Cost
Burwood Landfill Liquefaction and Infrastructure Rebuild Waste Disposal	 Prepare areas for disposal Operate and maintain disposal site Restoration and landscaping Resource consent application Consultation documents to affected parties Consultation Feedback documents to affected parties 	362,850	362,850	Completed Operation Investigation Investigation Completed Investigation	Feb 11 Feb 11 Jan 12 Jan 12 Apr 12 Jun 12	Jan 12 Dec 13 Dec 13 Aug 12 Jul 12 Jul 12	Self Funded
Burwood Landfill Residual Demolition Waste Disposal	 Design of new cell for residual waste Cell construction Operate and maintain disposal site Restoration and landscaping Resource consent application Consultation documents to affected parties Consultation Feedback documents to affected parties 	0	0	Design Design Design Submitted Completed Completed	Oct 11 Mar 12 Sep 12 Jul 17 Oct 11 Apr 12	Jun 12 Sep 12 Dec 17 Dec 17 Aug 12 Jul 12 Jul 12	To be funded by Transwaste Canterbury
Burwood Resource Recovery Park Demolition Sorting and Processing Facility	 Construct areas for storage of material and associated roading Design of sorting plant Construction of sorting plant Sorting operation Rehabilitation and landscaping Resource consent application Consultation documents to affected parties Consultation Feedback documents to affected parties 	331,790	0	Complete Design Construction Operation Design Investigation Completed Investigation	Feb 11 Mar 11 Jul 12 Dec 12 Jul 17 Oct 11 Apr 12 Jun 12	Jun 11 Jun 12 Dec 12 Dec 17 Dec 17 Aug 12 Jul 12 Jul 12	To be funded by Transwaste Canterbury
	TOTAL	694,640	362,850				

In the table above, the bolded text identifies a change in activity since the previous monthly report.

6.5 Wells

The damage to wells has been reported separately from the remainder of the non-SCIRT infrastructure rebuild because much of the wells repair work is reactionary due to the ongoing aftershocks.

Forward programming is limited by the reactionary work and the operational requirements of the water supply network, meaning that each package of work is programmed "on the fly" on a prioritised basis before it is issued.

The programme of work must be kept flexible in order to keep as many damaged wells operational as possible while at the same time moving forward with the repair and replacement programme. Only a limited number of wells can be taken out of service at one time to avoid affecting the demand on water supply network, and to minimise water restrictions.

	June At Ground Level	July At Ground Level	June Below Ground Level	July Below Ground Level	June Totals	July Totals
Total number of active wells					154	154
Wells yet to be repaired ⁺ *	32	32	50	43	82	75
Cost Estimate all repairs ⁺	\$4,692,000	\$4,692,000	\$17,329,000	\$17,368,000	\$22,021,000	\$22,060,000
Wells repaired to date ⁺ *	70	70	81	90	151	160
Cost to date ⁺	\$2,628,863	\$2,747,585	\$4,616,247	\$5,912,434	\$7,245,110	\$8,660,019

+ includes replacement wells

 \ast some wells are damaged both at and below ground level

COUNCIL 27. 9. 2012 Environment and Infrastructure Committee 6. 9. 2012

PART B - REPORTS FOR INFORMATION

5. DEPUTATIONS BY APPOINTMENT

Nil.

The meeting concluded at 10.20am.

CONSIDERED THIS 27TH DAY OF SEPTEMBER 2012

MAYOR