

<p>To: Finance, Audit & Risk Committee</p> <p>CC: Gallo Saidy – Group Manager Infrastructure Services</p> <p>Engineers Representative : Ronaldo Serrano</p> <p>Project Manager: Garth Flores</p>	<p>PROJECT STATUS REPORT</p> <p>AS OF 26 MAY 2017</p> <p>CONTRACT 901/2016/62</p> <p>NORTH-EAST QUADRANT LEVIN</p> <p>PROJECT PHASE:</p> <p>PLANNING & CONSTRUCTION</p>	<p>Overall Project Status</p>
<p>Project Manager Satisfaction Index (1 poor, 10 excellent)</p>		<p>7</p>



On Schedule



Not progressing as scheduled but no impact on deliverables



Off Track



Completed



Not Started

PROJECT OBJECTIVES AND STATUS

1. Purpose

The purpose of this report is to update the Finance, Audit & Risk Committee on the progress to date on the North-East (NE) Levin Quadrant Stormwater Upgrade project.

2. Progress up to 26 May 2017

Significant milestones achieved during the reporting period include:

- Higgins has installed the majority of the pipeline along Kennedy Drive.
- Higgins has installed approximately 50 % of the pipeline along Fairfield Road.
- HDC has been busy with ongoing consultation with stakeholders and iwi.
- HDC officers presented a brief project update at the Koputaroa scheme meeting.
- The drain/ water race behind Easton Way has been cleaned.
- Designs for wastewater improvements for NE Levin are being undertaken and will be completed as part of the project.
- Monitoring of the Stormwater quality from NE Levin to the Koputaroa Stream is ongoing, to inform the consent Assessment of Environmental Effects (AEE).

3. Key actions to progress this project over the next month

- Reseal of Kennedy Drive.
- Completion of Fairfield Road pipeline.
- Reseal of Fairfield Road (this will be a temporary reseal, and the main roadworks will be completed in summer).
- Installation of new pumpstations at Kennedy Park and Okarito Avenue.

4. Project Frustrations

- Poor weather has resulted in significant delays along Fairfield Road.
- The consultation process is taking longer than anticipated, and this has delayed the submission of a consent to increase the stormwater discharge.
- Maintaining a high quality Traffic Management Plan on Fairfield Road has been challenging and whilst Higgins has improved, there are still minor issues to be resolved.

Kennedy Park Pumpstation and Rising Main Upgrades

Key Milestone / Deliverable	Due Date	Status	% Complete	Progress
Investigation and Concept Design	August 2016		100%	Completed.
Tender Review and Evaluation	January 2017		100%	Completed.
Supply of Pumps	September 2016		100%	Completed.
Pumpstation Retrofitting	May 2017	NS	0%	Not started.
Rising Main Installation	May 2017		95%	Connections outstanding.
Road Reinstatement	July 2017		50%	Progressing well.
Project complete	July 2017	NS	0%	Not started.

Fairfield Road Stormwater Pipeline

Key Milestone / Deliverable	Due Date	Status	% Complete	Progress
Investigation and Concept Design	August 2016		100%	Completed.
Tender Review and Evaluation	January 2017		100%	Completed.
New Pipeline with limited discharge end structure	June 2017		50%	Project behind due to weather.
Rehabilitate Fairfield Road	December 2017	NS	0%	Main rehabilitation works postponed until after winter.
Remove modified end-structure	December 2017	NS	0%	Not started.
Project complete	December 2017	NS	0%	Not started.

Koputaroa Stream Improvements

Key Milestone / Deliverable	Due Date	Status	% Complete	Progress
Investigation and Concept Design	Feb 2017		80%	
Consenting Process	June 2017		50%	
Construction	April 2018	NS	0%	

Other projects / opportunities have been identified and HDC will report on those as they occur:

- a. Tavistock Road Rehabilitation
- b. Buckley Road Pumpstation
- c. Vincent Reserve attenuation

Expenditure on the project

Description	Expenditure	Contract Price / Budget	Available	% Spent
KSB Pumps	\$39,366.60	\$44,564.00	\$5,197.40	88%
Assmuss Pipes	\$53,782.55	\$52,727.99	-\$1,054.56	102%
Kennedy/ FF Pipelines	\$604,683.74	\$2,743,632.14	\$2,138,948.40	28%
Stream Improvements (Estimated budget)	\$-	\$250,000.00	\$250,000.00	0%
Contingency	\$-	\$150,000.00	\$150,000.00	0%
TOTAL	\$697,832.89	\$3,240,924.13	\$2,543,091.24	22%

Notes:

The increase in the Assmuss costs was due to additional cost for hiring a "hi-ab" to unload the pipes.

Project Risks

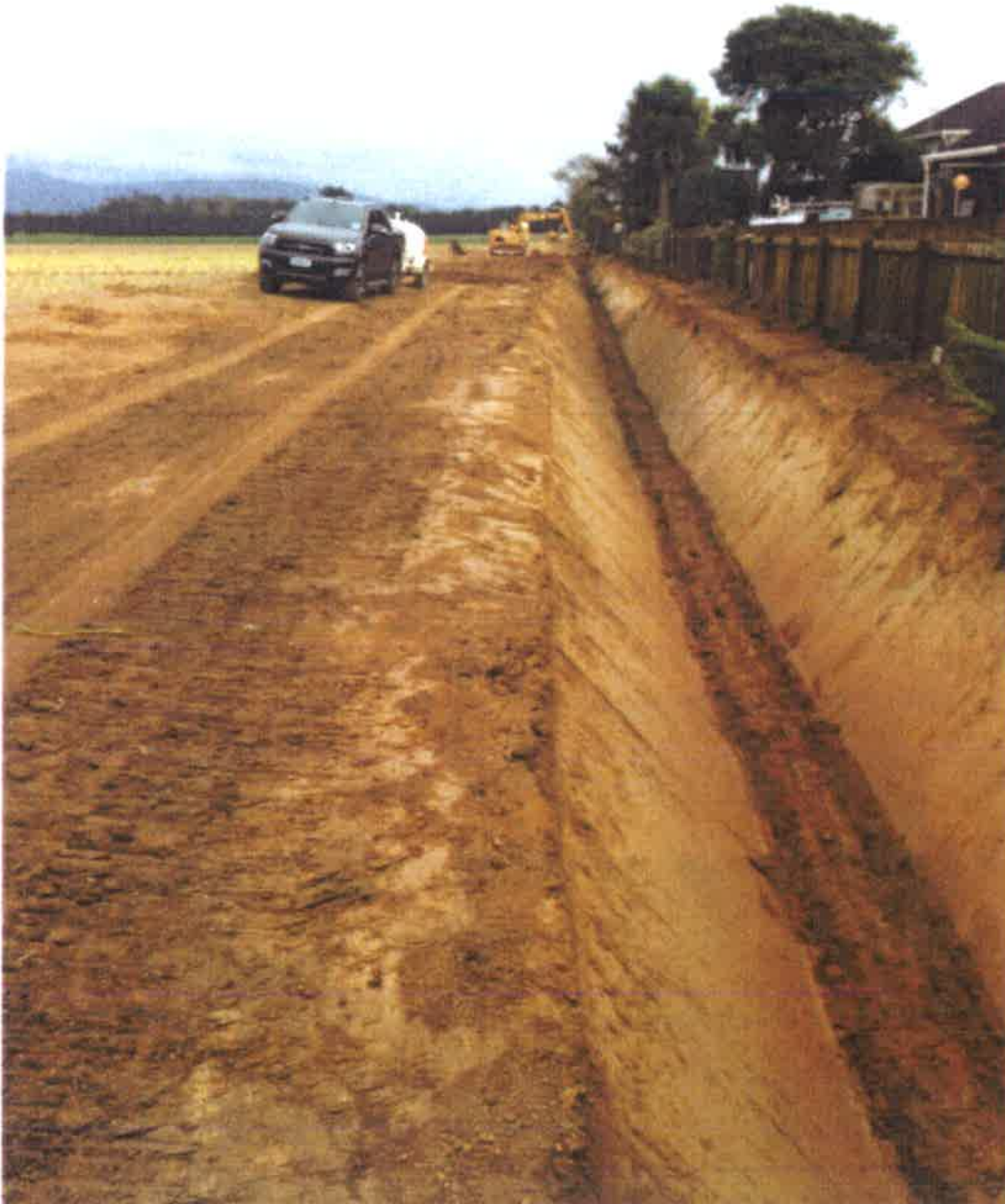
Risk Number	Name	Description	Mitigation measures
Risk 001	Construction risks	<i>The construction will have deep excavations.</i>	Contractors will need safe working procedures and trench shields to eliminate / mitigate these and other construction risks.
Risk 002	Construction Risks	<i>There are many unknown service crossings in the area.</i>	Contractors to have a safe work procedure to confirm if the unknown service is live or obsolete before proceeding.
Risk 003	Health and Safety	<i>Traffic Management on this section of the road has been challenging to date.</i>	Contractor has installed temporary traffic lights to assist traffic management.
Risk 004	Public Safety	<i>There is a risk to the public if they enter work areas.</i>	Adequate site signage and cordon off works areas.



Deep trench installation (April 2017).



Collection of stormwater samples to determine typical water quality (May 2017)



Contractor cleaning market garden drain behind Easton Way (April / May 2017).



Improved Fairfield Road Traffic Management in place (May 2017).

To: Finance, Audit & Risk Committee CC: Gallo Saidy – Group Manager Infrastructure Services Engineers Representative : Garth Flores Project Manager: Gerry O’Neill	PROJECT STATUS REPORT AS OF 26 MAY 2017 CONTRACTS 15/14, 15/18 & 15/19 LEVIN WTP UPGRADE PROJECT PHASE CONSTRUCTION	Overall Project Status
Project Manager Satisfaction Index (1 poor, 10 excellent)		9



On Schedule



Not progressing as scheduled but no impact on deliverables



Off Track



Completed



Not Started

PROJECT OBJECTIVES AND STATUS

The project consists of three contracts:

- 15/14: Levin WTP Upgrade (Design and Build for Civil, Mechanical and Electrical Works)
- 15/18: Design and Supply of Clarifier Package
- 15/19: Design and Supply of UV Package

H₂ope Consulting has been assisting HDC with the process design and tender evaluations. Appointments have been made on Contracts 15/14, 15/18 and 15/19.

The project will see the Levin Water Treatment Plant (WTP) upgraded to ensure the plant is resilient and continues to produce water that is safe for human consumption and that complies with the Drinking Water Standards of New Zealand.

Significant progress over the last reporting period includes:

15/14: Levin WTP Upgrade (Design and Build for Civil, Mechanical and Electrical Works)

Filtec have completed the structural and mechanical works.
 Filtec have commenced commissioning.
 Filtec have commenced with operator training.

15/18: Design and Supply of Clarifier Package:

Veolia have commenced the commissioning.

15/19: Design and Supply of UV Package:

Xylem have commenced the commissioning.












Outstanding work:










Final PLC¹ change-over.
 Minor civil works still need to be completed.
 Minor electrical works still need to be completed.
 Site tidy up needs to be completed.

Value add: Contractors working for the Parks and Property team are busy undertaking some refurbishment work to the existing filter building. This work was identified by the Parks and Property team during a visit on site.

Project satisfaction index comment: The project is on track to be completed in June 2017.

¹ Programmable Logic Controller – an industrial digital computer for control of process equipment

Key Milestone / Deliverable	Due Date	Status	% Plan- ned	% Complete	Progress
UV Unit					
Xylem Appointment	22 Mar 2016		100%	100%	Completed
Design Confirmation	13 May 2016		100%	100%	Completed
UV fabrication	30 Jun 2016		100%	100%	Completed
UV sea transport	Start 9 Jul 16 End 20 Aug 16		100%	100%	Completed
UV delivery	Target date 31 Jan 2017		100%	100%	Completed.
Commissioning and testing	Target date 30 Apr 2017		50%	50%	Progressing
Actiflo Unit (Clarifier)					
Veolia Appointment	3 March 2016		100%	100%	Completed
Design Confirmation	16 May 2016		100%	100%	Completed
Actiflo fabrication	15 August 2016		100%	100%	Completed
Actiflo sea transport	Start 31 Aug 16 End 15 Oct 16		100%	100%	Completed
Actiflo delivery	31 Oct 2016		100%	100%	Completed
Commissioning and testing	Target date 30 Apr 2017		70%	70%	Progressing

Key Milestone / Deliverable	Due Date	Status	% Plan- ned	% Complete	Progress
Main Works Contract					
Filtec Appointment	13 May 2016		100%	100%	Completed.
Design Confirmation	16 May 2016		100%	100%	Completed.
Site Establishment	31 August 2016		100%	100%	Completed.
Installation of Clarifier	30 November 2016		100%	100%	Completed.
Installation of UV	31 March 2017		100%	100%	Completed.
Construction of Dosing Building	31 March 2017		100%	100%	Completed.
Construction of Chlorine Building	31 March 2017		100%	100%	Completed.
Electrical Works	31 March 2017		95%	95%	Progressing well.
Testing and commissioning	30 April 2017		50%	50%	Progressing well.

Project Financials – Contracts Awarded (A)

Description	Expenditure	Contract Price	Available	% Spent
15/14 – Filtec	\$2,454,563.64	\$2,476,134.50	\$21,570.86	99%
15/18 – Veolia	\$915,421.90	\$1,049,387.00	\$133,965.10	87%
15/19 - Xylem	\$152,631.98	\$174,720.00	\$22,088.02	87%
TOTAL	\$3,522,617.52	\$3,700,241.50	\$177,623.98	95%

Project Financials - Other Costs Related to the Project (B)

Description	Expenditure	Contract Price / Budget	Available	% Spent
Consultants - H2ope	\$75,256.34	\$105,000.00	\$29,743.66	72%
Other ²	\$69,301.07	\$176,391.06	\$107,089.99	39%
Project Management Costs	\$71,980.16	\$90,000.00	\$18,019.84	80%
TOTAL	\$216,537.57	\$371,391.06	\$154,853.49	58%

Project Financials – Combined (A + B)

Description	Expenditure	Contract Price / Budget	Available	% Spent
COMBINED TOTAL	\$3,739,155.09	\$4,071,632.56	\$332,477.47	92%

² Other costs include Downer call outs, legal fees, Electra work, tender advertising costs and miscellaneous other costs related to the project.

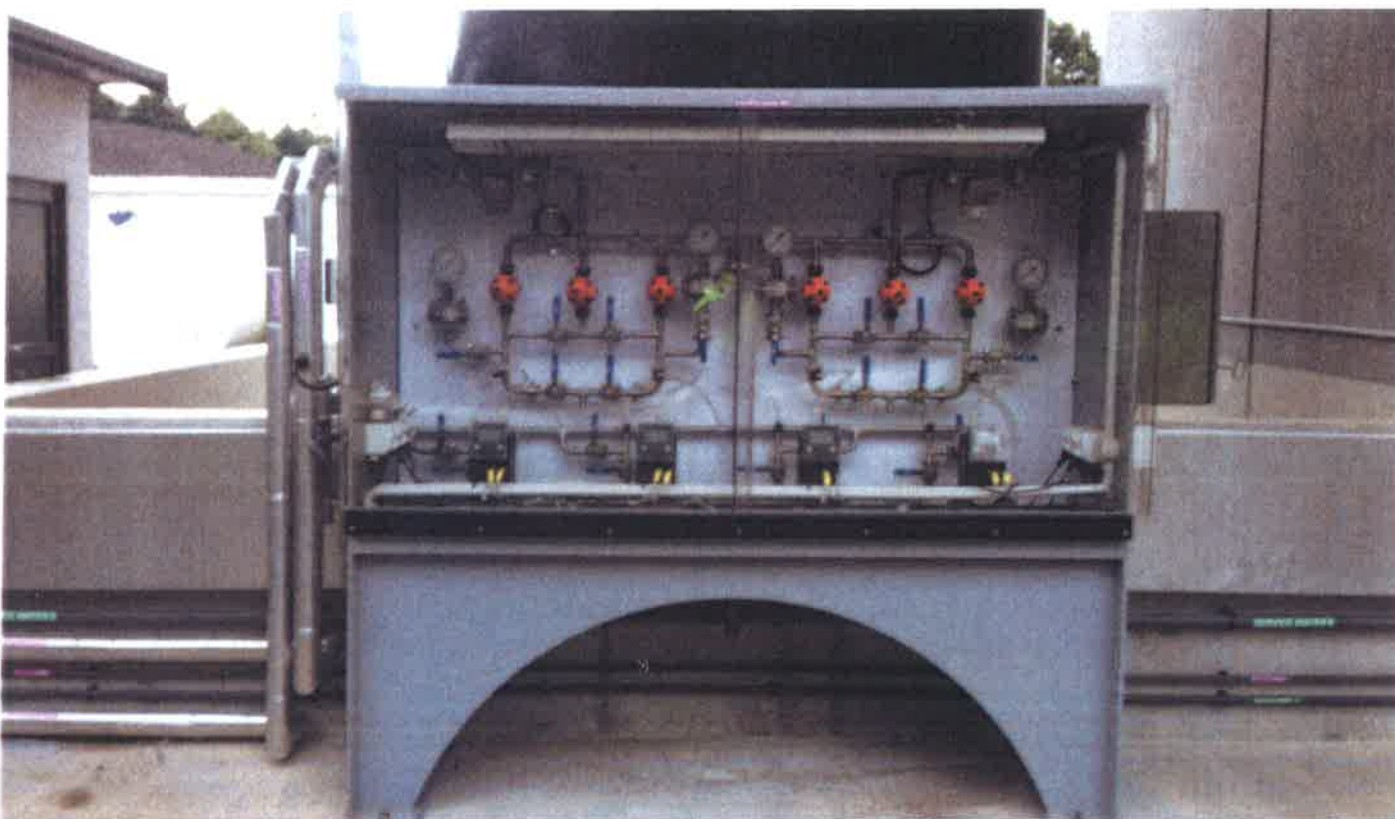
Risks Register (Risks 001 – 008 closed. Next risk is Risk 010):

Risk No.	Date Raised	Title and Description	Owner	Details of Risk	Likelihood	Consequence	Priority	Treatment	Due Date	History
8466.R009	12 May 2017	Commissioning of new PLC	Filtec	Faults in the PLC programming could result in the WTP not operating as desired.	Rare	Major	Very High	Filtec have undertaken on site testing of the PLC and will continue to undertake site acceptance testing to ensure the PLC functions as required.	31 May 2017	<u>19 May 2017:</u> Ongoing testing of PLC. <u>12 May 2017:</u> Identified
8466.R.010	Next Risk									

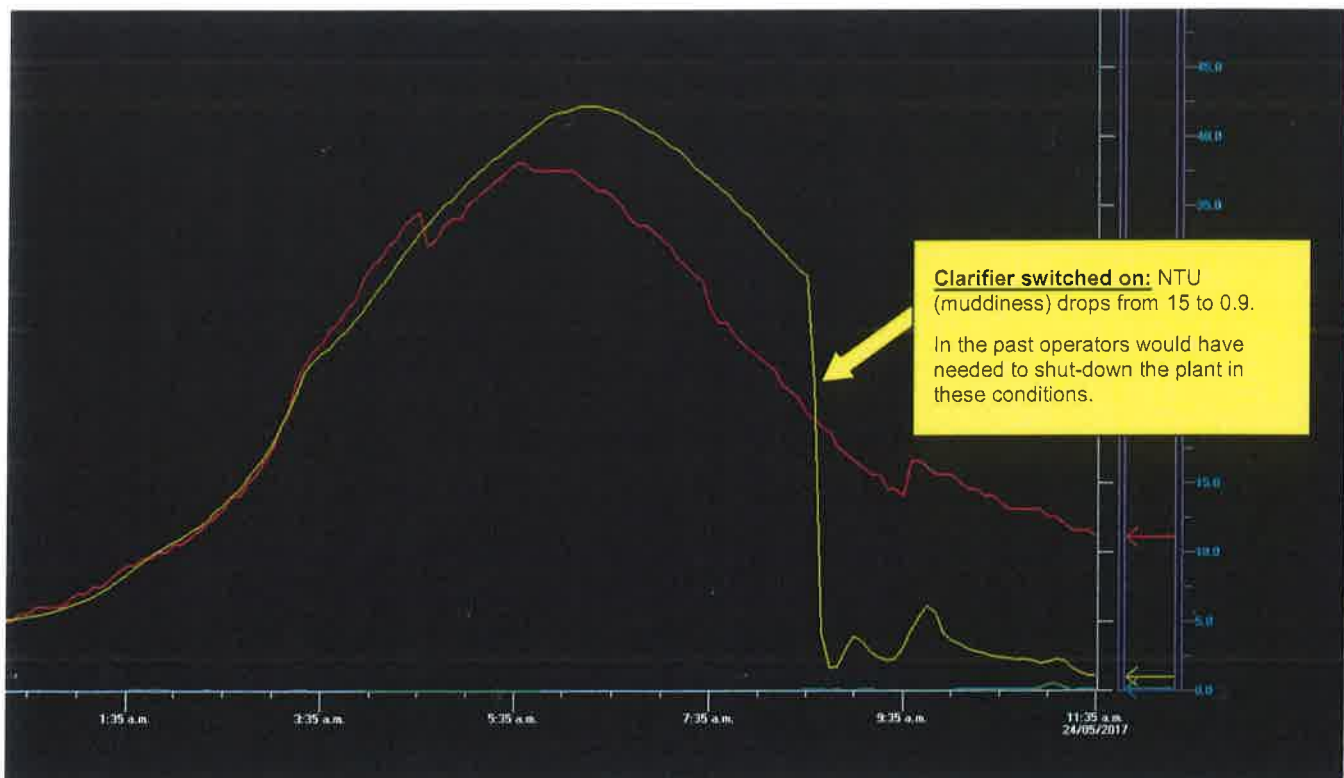
Issues Register: There are currently no open issues.



Pipe connections being completed (Apr / May 2017)



Sodium Hydroxide dosing cabinet installed (May 2017)



Clarifier improvement (May 2017)

<p>To: Finance, Audit & Risk Committee</p> <p>CC: Gallo Saily – Group Manager Infrastructure Services</p> <p>Project Manager: Gerry O’Neill</p> <p>Engineers Representative: Ronaldo Serrano</p>	<p>PROJECT STATUS REPORT #4</p> <p>AS OF 25 MAY 2017</p> <p>CONTRACT 901/2016/57 WATER MAIN RETICULATION RENEWALS 2016/17</p> <p>PROJECT PHASE : CONSTRUCTION</p>	<p>Overall Project Status</p>
<p>Project Manager Satisfaction Index (1 poor, 10 excellent)</p>		<p>8</p>

OS On Schedule
 NI Not progressing as scheduled but no impact on deliverables
 OT Off Track
 C Completed
 NS Not Started

PROJECT OBJECTIVES AND STATUS

Project Summary

This project was for the renewal of approximately 615m of 100mm diameter and 380m of 63 mm diameter water mains and the associated laterals. 770m of 150mm water main on Bartholomew Rd was subsequently added as a variation to the contract The renewals of mains are in the following areas in Levin:

- Rata Street - Levin



- McKenzie Street - Levin



- William Street



- Beatty Street



Legends

Planned	
Laid and tested	
Deleted due to revision	
Commissioned	

Variation works

Bartholomew Road (from Bath Street to Liverpool St)



The Contract was awarded to Higgins Contractors Ltd (Levin) and the revised completion date is 30 June 2017. The revised completion date was due to additional works along Bartholomew Rd.

The total budget for this project is \$ 764,453.87 which is split as follows:

- Construction component: \$ 702,403.87 (inclusive of contingency)
- Project management: \$ 62,050.00 (HDC staff costs plus miscellaneous costs for surveys, newspaper ads etc.)

The work is being completed using a combination of trenchless and open trench methodology.

General

At the time of writing this report all the works on Rata Street, McKenzie Street, Beatty Street and William Street have been completed with the exception of some footpath restoration. The contractor has laid 440m out of 770m of 150mm diameter PVC water main on Bartholomew Road; which was added to the original works as a variation.

One of the homes impacted by the works has a patient on dialysis. Higgins coordinated with HDC's maintenance contractor (Downer) to provide a water tank for temporary water supply before and during the four hour shutdown.



Water Tank providing temporary water supply to house with dialysis patient

Financial

<i>Description</i>	<i>Expenditure</i>	<i>Contract Price / Budget</i>	<i>Available</i>	<i>Percentage Expenditure</i>
Contract Cost	\$242,411.40	\$346,736.70	\$104,325.30	70%
Variation - Bartholomew	\$0.00	\$355,667.17	\$355,667.17	0%
Project Management Cost	\$39,021.00	\$65,000.00	\$25,979.00	60%
Contingency Sum	\$1,039.401		-\$1,039.40	100%
TOTAL	\$282,471.80	\$767,403.87	\$484,932.07	37%

Variations to Date

The renewal of the water main along Bartholomew Road (from Bath St to Liverpool St) was added to the existing contract as a variation and a small section on St Annes Street was removed. This variation resulted in an additional 770 m of 150 mm diameter uPVC pipe being laid this financial year. The approved cost of the variation is \$ 224,453.87.

The renewal of Bartholomew Road was initially planned for 2017/18, and was therefore brought forward to 2016/17.








Open Risks

There are currently no open risks

Open Issues

There are currently no open issues

¹ For Downer water shutdown costs and public notice

Key Milestone / Deliverable	Due Date	Status	% Planned (based on total length of main)	% Complete (based on total length of main)	Progress
Project Planning with Contractor	Start date 14 Nov 2016 End date 30 Nov 2016		100%	100%	Complete.
Rata Street Main 190m	Start 9 Jan 2017 End 29 March 2017		100%	100%	Completed
McKenzie Street Main 170m	Start 7 Dec 2016 End 20 April 2017		100%	100%	Completed
William Street and Beatty Street					
William St 208m -100mm 208m – 63mm	Start 25 Jan 2017 End 27 Feb 2017		100%	100%	Completed
Beatty St 220m – 100m	Start 31 Jan 2017 End 22 May 2017		100%	100%	Completed
Bartholomew St					
<ul style="list-style-type: none"> Bath St to Meadowvale Road Section Meadowvale Road to Liverpool St Section 	Programme Start 7 April 2017 End 15 May 2017 Start 10 May 2017 End 30 June 2017	 	0 % 0 %	40% 65%	Contractor intends to work on Saturday and Sundays in front of Wiaopehu college to reduce the impact of these works on the school, and to compress the work programme. Higgins will submit program of works to complete the variation works.

Construction Progress Photos



<p>To: Finance, Audit & Risk Committee</p> <p>CC: Gallo Saidy – Group Manager Infrastructure Services</p> <p>Project Manager: Gerry O’Neill</p> <p>Engineer Representative: Thushantha Heenkenda</p>	<p align="center">PROJECT STATUS REPORT #4 as of 25 May 2017</p> <p align="center">CONTRACT 16/01 WASTEWATER RETICULATION RENEWALS 2016/17</p> <p align="center">PROJECT PHASE : CONSTRUCTION</p>	<p align="center">Overall Project Status</p>
<p align="center">Project Manager Satisfaction Index (1 poor, 10 excellent)</p>		<p align="center">8</p>

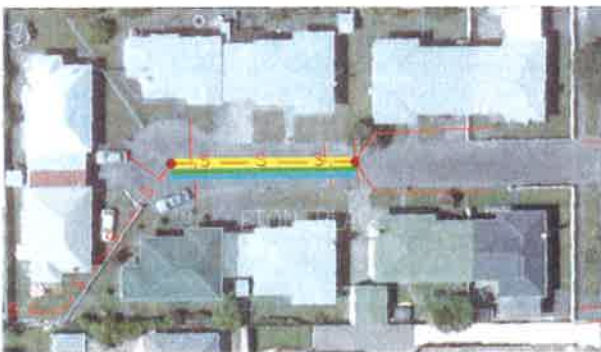
OS On Schedule
 NI Not progressing as scheduled but no impact on deliverables
 OT Off Track
 C Completed
 NS Not Started

PROJECT OBJECTIVES AND STATUS

Project Summary

This project is for the renewal of approximately 1,062m of 150 mm diameter wastewater reticulation main (including 105m on Winchester Street which was added as a variation) and approximately 780 m of associated 100 mm diameter laterals in Levin and Foxton in the following streets:

- Area 1 : Dorset Street and Eton Place – Levin



- Area 2 : Winchester Street - Levin



Winchester Street additional length






- Area 3 : Chester Street - Levin



- Area 4 : Cook Street – Foxton



Legends

-  Planned Work
-  Completed and commissioned
-  Line tested

The Contract was awarded to Tatana Contractors' Limited and was due to be completed on 31st May 2017.

The total budget for this project is \$ 717,180.00 which is split as follows:

- Construction component: \$ 657,180.00 (inclusive of contingency and the additional work on Winchester Street).
- Project management: \$ 60,000.00 (including miscellaneous costs for surveys, newspaper ads etc.)

The work will be completed using a combination of Pipe-bursting and open trench methodology.

General

At the time of writing this report the contractor had completed the following portions of the works:

- Cook Street in Foxton,
- Eton Place in Levin
- Chester Street in Levin.
- Winchester Street in Levin

The contractor has commenced pipe bursting on Dorset Street in Levin. Abnormally high rainfall in December 2016 and January 2017 has resulted in the work being behind schedule. The Contractor has requested a time extension of one month to complete the outstanding works including the additional work on Winchester St. A time extension was granted up to 31.05.2017.

Complaints/Concerns Received During Reporting Period

Nil

Financial

Description	Expenditure	Contract Price / Budget	Available	% Spent
Contractor Cost	\$ 304,824.10	\$607,180.00	\$302,355.90	50.20%
Project Management Costs*	\$ 34,872.13	\$60,000.00	\$41,165.87	58.12%
Contingency Sum	\$ -	\$50,000.00	\$50,000.00	0.00%
TOTAL	\$ 339,696.23	\$717,180.00	\$393,521.77	47.37%

Note: * Project Management Costs include costs for HDC staff and Downers

Variations to Date



1. Winchester street pipe renewal extension for further 105m with 5 laterals. Contact amount is \$57,180.00.

Open Risks

There are currently no open risks.

Open Issues

There are currently no open issues.

Key Milestone / Deliverable	Due Date	Status	% Planned (based on total length of main)	% Complete (based on total length of main)	Progress
Project Planning with Contractor	Start date 12 October 2016 End date 9 November 2016		100%	100%	Complete. Manholes need to be refurbished.
Area 1 :Dorset Street and Eton Place - Levin Main -482m	Start 14 Nov , 2016 End 31 May 2017		100%	45%	Eton Place (100%); Dorset Street (40%)
Area 2 Winchester Street - Levin Main (190+105)m	Start 13 March 2017 End 12 May 2017		100%	100%	Completed. Manholes need to be refurbished.
Area 3: Chester Street - Levin Main 155m	Start 13 February 2017 End 14 April 2017		100%	100%	Complete. Manholes need to be refurbished.
Area 4 Cook Street - Foxton Main 130m	Start 09 January 2017 End 21 April 2017		100%	100%	Complete. Manholes need to be refurbished.