

**WATER SERVICES**

**ATTACHMENT A**

**WATER SERVICES INFRASTRUCTURE  
PROJECT STATUS REPORTS  
FEBRUARY 2018**

**ORDINARY MEETING**

**28 MARCH 2018**

# Contents

Item Type	Name	Project Director	Project Manager	Milestone	Report Board	Status Date	Project Score	Schedule Status	Cost Status	Resource Status
Portfolio	<b>1. STRATEGIC PLAN, DELIVERY PROGRAM, OPERATIONAL PLAN</b>									
Portfolio	<b>1. Service Quality &amp; Continuity</b>									
Portfolio	1.1 Deliver water related services to the community to agreed service levels									
Portfolio	1.1.3 Deliver our asset management strategy									
Activity - Delivery Program	Deliver our sewerage scheme capital works program	Brendan Guiney								
Project	GE-SRT-00 Sewer Renewals FY18 Program	Mal Flew	Graeme Wynter	Implement	Yes	05/03/18	7.00	Green	Green	Green
Program	Sewerage Treatment Plant New									
Project	Pacific Palms STP - Stage 1	Mal Flew	Mitchell Stace	Design	Yes	07/03/18	5.00	Green	Green	Green
Activity - Delivery Program	Deliver our water supply scheme capital works program	Brendan Guiney								
Program	Gloucester WTP Upgrade (P336543)	Mal Flew	David Morse	Implement	Yes	01/03/18	9.00	Yellow	Green	Yellow
Program	Nabiac Inland Dune Aquifer Water Supply Scheme (P342529)	Mal Flew	Mitchell Stace	Implement		12/08/15		Green	Green	Green
Project - Non Infrastructure	Nabiac Inland Dune Aquifer Water Supply Scheme - Program (P342529)	Mal Flew	Mitchell Stace	Ready to Integrate - Finalise	Yes	07/03/18	2.70	Green	Green	Green
Program	Water Mains Renewals	Mal Flew	Graeme Wynter			27/07/17		Green	Green	Green
Project	GE-WRT-00 Water Renewals Program FY18	Mal Flew	Graeme Wynter	Implement	Yes	05/03/18	6.00	Green	Yellow	Green
Program	Water Treatment Plant Upgrades									
Project	Bootawa Dam Safety Works 2017 - Geotechnical review, monitoring equipment and flood capacity assesse	Mal Flew	David Goodwin	Finalise	Yes	05/03/18	9.00	Yellow	Green	Green
Program	Sustaining Works									
Project	GE-SPS-00 SPS Switchboard Renewals (500005)	Mal Flew	Mark Sheather	Plan	Yes	01/03/18	6.50	Green	Green	Green
Project	GE-WTP-00 WTP chemical Systems Renewals (500008)	Mal Flew	David Morse	Implement	Yes	06/03/18	8.50	Green	Green	Yellow

## Glossary of PM reporting terms

### *Budgets*

The Monthly Project Status Reports provided to the Board reports the budget and milestones for each project in 4 dimensions. Dimensions are sets of data that represent certain situations or goals. A brief definition of the dimensions:

- **Target** This dimension contains the original budget amount and milestone dates on which the project was justified. The Target dimension is a useful for comparison of what the original assumptions and goals for the project were and how they may have changed over time. The target budget is the estimate from the Business Case at time of project initiation, the milestone dates may have been established via the Delivery Program.
- **Baseline** This dimension contains the budgeted amount and milestone dates approved for the project. The budget and milestones is approved by the Board via the annual budget and quarterly review process.
- **Actual** This dimension contains values that represent the actual cost to date of the project and actual dates that milestones were achieved.
- **Plan** This dimension is used for more detailed project planning. Values in the plan dimension reflect a more detailed knowledge of the project execution requirements. The Plan dimension includes cost of the work to date plus the latest estimate to complete the remaining work. The Plan budget and timeframes have not been approved.

## Definitions of Status Indicators (traffic lights)

The traffic light system (Green, Yellow and Red) is used to indicate schedule, resources, cost and overall project status. Generic definitions for the traffic lights are as follows:



**Green:** The project is progressing according to plan and we are on track to deliver the project in line with the current baseline (milestones and budget).



**Yellow:** There are issues/risks that are likely to impact the project if they are left unfixed and we are at risk of not meeting the current baseline.



**Red:** There are issues/risks that are currently impacting the project and we are no longer able to meet the current baseline.

Within the Mariner status reporting function, the project manager selects a green, yellow, or red status for schedule, resources and cost elements of the project, while the overall project status is automatically set based upon the least favourable status from these three inputs. This is illustrated in the following example:

Status Date

Schedule Status

Resource Status

Cost Status

Project Status

Here, the project manager has indicated the project schedule is healthy, issues have arisen which pose a risk to the project's resources, and the project costs are not meeting the baseline. The red project status is based upon the selection of the red cost status.

**Project Name**

**Status Date**

GE-SRT-00 Sewer Renewals FY18 Program

05/03/2018

<b>Project Status</b>	<b>Schedule</b>	<b>Resource</b>	<b>Cost</b>	<b>Project Score</b>
Green	Green	Green	Green	7.00

**Project Director**

Mal Flew

**Project Manager**

Graeme Wynter

**Description**

The renewal of sewer reticulation mains as identified for the financial year 2017/2018 including relining of existing mains, replacement of junctions and manholes as applicable. The program also includes completion of all projects that were in process and incomplete from previous financial year. Finalisation activities included within the scope of works for update data within GIS and Asset databases.

<b>Total Project Budget</b>	<b>Target</b>	<b>Approved Budget (Baseline)</b>	<b>Plan</b>	<b>Actual:</b>	\$479,758.00
	\$600,000.00	\$713,300.00	\$716,899.00	Commitments	\$0.00
				<b>Total:</b>	\$479,758.00

<b>Project Budget Baseline progression</b>	<b>Approved Budget</b>	<b>Reason for new Baseline</b>	<b>Resolution No.</b>
27/06/2017	\$600,000.00	Endorsement of 2017/2018 operational plan including budget	TBC
22/11/2017	\$713,300.00	Approved Project Requirement Statement including in progress FY17 projects. Endorsement of quarterly budget review for Water Services at the end of September 2017	266/17

<b>Budget Cash Flow</b>	<b>Approved Project Total</b>	<b>Up to Current FY</b>	<b>Current FY</b>	<b>FY + 1</b>	<b>FY + 2</b>	<b>FY + 3</b>	<b>FY + 4 and beyond</b>
	\$713,300.00	\$0.00	\$713,300.00	\$0.00	\$0.00	\$0.00	\$0.00

<b>Project Milestones</b>	<b>Target</b>	<b>Approved Schedule (Baseline)</b>	<b>Plan</b>	<b>Actual</b>	<b>Status</b>	<b>% Complete</b>
<i>Initiate</i>	01/07/2017	01/07/2017	22/08/2017	22/08/2017	Complete - Late	100 %
<i>Concept</i>						0 %
<i>Design</i>						0 %
<i>Plan</i>						0 %
<i>Implement</i>	30/06/2018	30/06/2018	30/06/2018		In Process - On-Time	65 %
<i>Finalise</i>	31/08/2018	31/08/2018	31/07/2018		Not Started	0 %

**Progress this reporting period**

Continued with Relining works Gloucester No.3 Catchment.

Continued with preliminary works prior to relining contractor carry out works on Hawks Nest catchment area.

Current No. of Projects allocated to program: 13

Projects In Process: 7

Projects Not Started: 0

Projects Completed: 6

4 projects removed from FY18 program, to be rescheduled with FY19 program.

#### **Planned activities for the next reporting period**

Continue relining works in Gloucester No.3 Catchment. Finalise scope of works and estimate for the relining and repairs works in the Hawks Nest catchment.

Begin review of the FY18 program to include additional projects following new CCTV footage of other sewer catchments. Review to be completed over the next 2 to 3 months and align with the 3rd Quarter Capital Works Budget Review.

#### **Recommendations to correct any adverse status (Red or Yellow)**

Nil

**Project Name**

**Status Date**

Pacific Palms STP - Stage 1

07/03/2018

<b>Project Status</b>	<b>Schedule</b>	<b>Resource</b>	<b>Cost</b>	<b>Project Score</b>
Green	Green	Green	Green	5.00

**Project Director** Mal Flew

**Project Manager** Mitchell Stace

**Description** Stage 1 of this project will provide balance and emergency storage ponds to be used for wet weather storage, reducing operational and environmental risks at the existing SPS PP07.

<b>Total Project Budget</b>	<u>Target</u>	<u>Approved Budget (Baseline)</u>	<u>Plan</u>	<u>Actual:</u>	\$131,949.69
	\$3,000,000.00	\$3,000,000.00	\$3,000,000.00	Commitments	\$0.00
				<b>Total:</b>	\$131,949.69

<b>Project Budget Baseline progression</b>	<u>Approved Budget</u>	<u>Reason for new Baseline</u>	<u>Resolution No.</u>
16/09/2014	\$3,000,000.00	Approval of the project initiation gateway report within the Sept 2014 Board Meeting	2014-083 Item 3

<b>Budget Cash Flow</b>	<u>Approved Project Total</u>	<u>Up to Current FY</u>	<u>Current FY</u>	<u>FY + 1</u>	<u>FY + 2</u>	<u>FY + 3</u>	<u>FY + 4 and beyond</u>
	\$3,000,000.00	\$128,808.00	\$51,000.00	\$2,820,192.00	\$0.00	\$0.00	\$0.00

<b>Project Milestones</b>	<u>Target</u>	<u>Approved Schedule (Baseline)</u>	<u>Plan</u>	<u>Actual</u>	<u>Status</u>	<u>% Complete</u>
<i>Initiate</i>	19/08/2014	20/08/2014	20/08/2014	20/08/2014	Complete - On-Time	100 %
<i>Concept</i>	28/10/2014	30/06/2017	30/06/2017	30/06/2017	Complete - On-Time	100 %
<i>Design</i>	19/05/2015	31/10/2018	30/06/2018		In Process - On-Time	2 %
<i>Plan</i>	11/08/2015	31/01/2019	31/01/2019		Not Started	
<i>Implement</i>	19/07/2016	31/07/2019	31/07/2019		Not Started	
<i>Finalise</i>	11/10/2016	31/10/2019	31/10/2019		Not Started	

**Progress this reporting period**

Nil Progress this reporting period.

**Planned activities for the next reporting period**

Obtain review and approval of revised concept report.

Begin detailed design of storage pond.

**Recommendations to correct any adverse status (Red or Yellow)**

Nil



**Project Name**

**Status Date**

Gloucester WTP Upgrade (P336543)

01/03/2018

<b>Project Status</b>	<b>Schedule</b>	<b>Resource</b>	<b>Cost</b>	<b>Project Score</b>
Yellow	Yellow	Yellow	Green	9.00

**Project Director** Mal Flew

**Project Manager** David Morse

**Description**  
 This program of work encompasses a 3 staged Upgrade Project of the Water Treatment Plant based upon serviceability, condition and process criticality. The Gloucester WTP upgrade key deliverables will include: Chemical dosing systems upgrade, online water analysis, river Pumpstation upgrade, plant automation, electrical upgrade and control building improvements. This project aims at improving the operational performance of the WTP and removing risks to drinking water delivery and quality.

<b>Total Project Budget</b>	<b>Target</b>	<b>Approved Budget (Baseline)</b>	<b>Plan</b>	<b>Actual:</b>	\$834,859.98
	\$0.00	\$1,092,000.00	\$1,092,000.00	Commitments	\$83,286.86
				<b>Total:</b>	\$918,146.84

<b>Project Budget Baseline progression</b>	<b>Approved Budget</b>	<b>Reason for new Baseline</b>	<b>Resolution No.</b>
21/04/2015	\$595,000.00	Budget approval based on concept gateway scope.	2015-282 Item 2
21/07/2015	\$895,000.00	Approval at ready to implement gateway based on widened scope in response to WTP incident.	2015-379 item 4
22/11/2017	\$1,092,000.00	Baseline budget adjustment approved at November Board Meeting	264/17

<b>Budget Cash Flow</b>	<b>Approved Project Total</b>	<b>Up to Current FY</b>	<b>Current FY</b>	<b>FY + 1</b>	<b>FY + 2</b>	<b>FY + 3</b>	<b>FY + 4 and beyond</b>
	\$1,092,000.00	\$757,000.00	\$335,000.00	\$0.00	\$0.00	\$0.00	\$0.00

<b>Project Milestones</b>	<b>Target</b>	<b>Approved Schedule (Baseline)</b>	<b>Plan</b>	<b>Actual</b>	<b>Status</b>	<b>% Complete</b>
<i>Initiate</i>	11/02/2015	11/03/2015	11/03/2015	11/03/2015	Complete - On-Time	100 %
<i>Concept</i>	14/04/2015	21/04/2015	21/04/2015	21/04/2015	Complete - On-Time	100 %
<i>Design</i>	12/05/2015	09/07/2015	09/07/2015	09/07/2015	Complete - On-Time	100 %
<i>Plan</i>	09/06/2015	09/07/2015	09/07/2015	09/07/2015	Complete - On-Time	100 %
<i>Implement</i>	10/11/2015	28/06/2017	25/07/2018		In Process - Late	82 %
<i>Finalise</i>	08/12/2015	09/08/2017	05/09/2018		Not Started	

**Progress this reporting period**

Electrical Design reviewed and amended by ID and SD stakeholders , pending revision by designers,  
Electrical and control equipment procurement can commence and engagement of contactors for install works  
SD staff have removed redundant equipment from the MSB providing the opportunity to significantly reduce the footprint of the MSB and provide WHS compliant door access to the operators room  
Fluoride system investigations ongoing to fix the filter fouling issue and saturator residual strength problems, Prominent are involved and Dept. of Health have been notified that dosing has ceased until resolved  
Polymer dosing room is emptied and cleaned ready for new system install

**Planned activities for the next reporting period**

Polymer dosing system install potentially this period, existing Polymer system can continue operating until the new system is installed and commissioned, cutover can then occur  
Receive final electrical design and begin equipment and resource procurement  
Resolve fluoride system issues and recommence dosing  
Engage a contractor to complete chemical dosing lines relocation works and pipe modifications  
  
All planned activities are pending resource availability with the Nabiac WTP project currently impacting implementation and planning works for this project

**Recommendations to correct any adverse status (Red or Yellow)**

Nil

**Project Name**

**Status Date**

Nabiac Inland Dune Aquifer Water Supply Scheme - Program (P342529)

07/03/2018

<b>Project Status</b>	<b>Schedule</b>	<b>Resource</b>	<b>Cost</b>	<b>Project Score</b>
Green	Green	Green	Green	2.70

**Project Director**

Mal Flew

**Project Manager**

Mitchell Stace

**Description**

The full scope of this project includes the development of the bore field, bore huts, water treatment plant, storage reservoirs and connections into the existing Manning System reticulation system.

<b>Total Project Budget</b>	<b>Target</b>	<b>Approved Budget (Baseline)</b>	<b>Plan</b>	<b>Actual:</b>	\$28,369,805.00
	\$36,000,000.00	\$34,600,000.00	\$34,127,860.00	Commitments	\$3,958,272.00
				<b>Total:</b>	\$32,328,077.00

<b>Project Budget Baseline progression</b>	<b>Approved Budget</b>	<b>Reason for new Baseline</b>	<b>Resolution No.</b>
15/07/2014	\$32,380,000.00	In the July 2014 meeting, the Board resolved the baseline budget for Stage 1 of the project be revised to \$32.38m based on the revised business case, with the budget allowance for the costs to complete the project revised to \$19.2m including contingency.	2014-156 Item 2
17/11/2015	\$34,600,000.00	Budget baseline approved to be changed based on CPI increases. additional planning resource needs, identification of additional scope items and confirmation of costs for some components of the scheme such as electrical services and re-specified pipework.	2015-515 Item 5

<b>Budget Cash Flow</b>	<b>Approved Project Total</b>	<b>Up to Current FY</b>	<b>Current FY</b>	<b>FY + 1</b>	<b>FY + 2</b>	<b>FY + 3</b>	<b>FY + 4 and beyond</b>
	\$34,600,000.00	\$20,919,745.00	\$11,523,000.00	\$2,157,255.00	\$0.00	\$0.00	\$0.00

<b>Project Milestones</b>	<b>Target</b>	<b>Approved Schedule (Baseline)</b>	<b>Plan</b>	<b>Actual</b>	<b>Status</b>	<b>% Complete</b>
<i>Business Case complete</i>	27/06/2003	27/06/2003	27/06/2003	27/06/2003	Complete - On-Time	100 %
<i>Approvals obtained</i>	25/09/2015	30/11/2016	02/12/2016	02/12/2016	Complete - Late	100 %
<i>Ready to Implement - Lead in Services</i>	23/10/2015	15/12/2016	15/12/2016	15/12/2016	Complete - On-Time	100 %
<i>Ready to Implement - Darawank WPS</i>	04/01/2016	24/04/2017	27/09/2017	27/09/2017	Complete - Late	100 %

<b>Ready to Implement - Nabiac WTP</b>	06/09/2016	30/11/2016	13/12/2016	13/12/2016	Complete - On-Time	100 %
<b>Ready to Integrate - Finalise</b>	03/07/2018	06/11/2018	06/11/2018		In Process - On-Time	10 %

### Progress this reporting period

<p>Approvals Continued to consult with DPI water regarding modified bore production licences. Process the State Funding claim for January 2018.</p> <p>Nabiac WTP Treatment Building - Continue chemical dosing area equipment installation. Reinstate transfer pump station concrete slab. Commence 600DICL transfer pipework. Control Building - Wall insulation installed. Wall and ceiling gyprock lining complete, wall and floor tiling 95% complete, waterproofing membrane complete, Internal painting 95% complete. Waste Water Pump Station - Backwash tanks delivered and placed on support plinth. Commence installation of waste water line. Treated Water Reservoir - Received and review contractor's submittals. Roof framing complete, roof sheeting installation currently in progress Pre Treatment Storage Tank - Aeration tower in place with connecting pipework currently being installed. Lime and Chlorine Gas Building - Lime dosing pump skid installed and suction lines connected. Lime slurry tank retrofit completed with new outlets, baffles and water fill assemblies installed. Lime Silo retrofit electrical and instrumentation 90% Chlorine Gas System design HAZOP completed. Fluoride - Fluoride system design HAZOP completed. Electrical - Continued cable tray and cable installation. Terminate cables within main switchboard. Site - Chemical collection bay poured. Approximately 70% of concrete hard stand and pavement in place. Commenced site fire service system installation.</p> <p>Darawank PS Continued with commissioning planning for the pump station. Electrical installation is completed all except some minor items to be address within Defect liability period. Installed site PLC and tested communication links.</p> <p>Nabiac Borefield Completed additional works and modification of one salinity logger. Continued installation of all remaining electrical works to bore huts. Carried out commissioning risk assessment workshop to enable SAT testing to begin. Complete preparation of commissioning ITPs including flushing and disinfection as required. Continued fibre installation and testing including the link between WTP &amp; Darawank PS. Carried out some flushing of the overall raw water pipework. Continued to carry out pipe pressure testing of treated water main from WTP to Darawank PS. Prepared monitoring and production bore WAE cross sectional drawings.</p> <p>SCADA and Commissioning Continued with finalisation of SCADA and PLC works to enable finalisation of the FAT. Carried out commissioning risk assessment. Begun development of O&amp;M for WTP. Continued development of commissioning ITPs. Continued with overall commissioning planning incorporating WTP contractors training plan.</p> <p>Lead In Services Nil progress this reporting period.</p>
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### Planned activities for the next reporting period

<p>Approvals Obtain approval for modified production bore licences &amp; amended monitoring bore levels. Amend borefield environmental management plan to suit as constructed information. Prepare draft amendments to MCC drink water quality plan. Obtain final inspection of Darawank PS for BCA compliance. Prepare and submit Federal Funding Report for milestone of 75% complete for the Scheme.</p> <p>Nabiac WTP Treatment Building - Continue and complete all chemical dosing installations. Commence air compressor, air receiver and airline installation. Install stainless steel pipework including rectification of defective welds via approved work method. Complete transfer pumpstation pipework. Control Building - Complete all internal fitout</p>
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and joinery works. Complete all plumbing and electrical fitout. Install air conditioning system. Install vinyl floor covering.

Waste water Pump station - Complete waste water pumpstation installation, concrete lid, epoxy coating, pump, pipework and associated fittings. Complete backwash tanks installation, pipework and associated fittings.

Treated Water Reservoir - Contractor to address MCW submittal comments. Continue with installation of roof sheeting and wall panels.

Pre Treatment Storage Tank - Continue degassing tower above ground pipework. Commence internal tank equipment installation.

Lime & Chlorine Building - Install monorail crane system and chlorine dosing system.

Complete Lime Silo equipment and instrumentation retrofit

Fluoride System - Design to be resubmitted and reviewed prior to approval and installation

Electrical - Continue cable and instrumentation installation. Terminate equipment cables

Site works - Complete installation of site fire system. Commence road works including trimming, placement of base course layers and installation of AC pavement.

#### Lead In Services

Begin collection of documentation for Nabiak Scheme commissioning consultant,

#### Darawank PS

Process final claim for Electrical contract. Issues practical completion and release securities. Finalise defect register and list of outstanding items to be supplied under the conditions of contract. complete sign off of all electrical inspection and test plans. Complete commissioning ITPs. Begin wet testing and SCADA SAT. Finalise BCA compliance over the next 2 to 3 months.

#### Nabiak Borefield

Complete all fibre installation and testing including the link between WTP & Darawank PS. Complete installation of all remaining electrical works to bore huts. Continue with preparation of Commissioning ITPs. Finalise WAE bore drawings. Review the survey data to confirm historical data. Obtain modifications to the production bore licences to for removal of pH monitoring equipment, monitoring bore levels and removal of monitoring bore (E3) from scope of works.

#### SCADA and Commissioning

Carry out final FAT of SCADA and PLC. Carry out wet testing, SCADA SAT and full commissioning of Darawank PS. Complete overall training plan schedule. Complete overall commissioning works for Borefields.

#### **Recommendations to correct any adverse status (Red or Yellow)**

Nil

**Project Name**

**Status Date**

GE-WRT-00 Water Renewals Program FY18

05/03/2018

<b>Project Status</b>	<b>Schedule</b>	<b>Resource</b>	<b>Cost</b>	<b>Project Score</b>
Yellow	Green	Green	Yellow	6.00

**Project Director** Mal Flew

**Project Manager** Graeme Wynter

**Description** The renewal of water reticulation mains as identified for the financial year 2017/2018 including replacement of hydrants, valves and associated fittings as applicable. The program also includes completion of all projects that were in process and incomplete from previous financial year. Finalisation activities included within the scope of works for update data within GIS and Asset databases.

<b>Total Project Budget</b>	<u>Target</u>	<u>Approved Budget (Baseline)</u>	<u>Plan</u>	<u>Actual:</u>	\$961,697.00
	\$1,200,000.00	\$1,200,000.00	\$1,271,867.00	Commitments	\$0.00
				<u>Total:</u>	\$961,697.00

<b>Project Budget Baseline progression</b>	<u>Approved Budget</u>	<u>Reason for new Baseline</u>	<u>Resolution No.</u>
27/06/2017	\$1,000,000.00	Adopted FY18 Operational Plan and Capital works Budget	TBC
22/11/2017	\$1,200,000.00	Approval of FY18 Project Requirement Statement including In progress works for FY17 program. Budget adjustment endorsed within the adoption of MidCoast Water Services Quarterly budget review at end of September 2017	Item 266/17

<b>Budget Cash Flow</b>	<u>Approved Project Total</u>	<u>Up to Current FY</u>	<u>Current FY</u>	<u>FY + 1</u>	<u>FY + 2</u>	<u>FY + 3</u>	<u>FY + 4 and beyond</u>
	\$1,200,000.00	\$0.00	\$1,200,000.00	\$0.00	\$0.00	\$0.00	\$0.00

<b>Project Milestones</b>	<u>Target</u>	<u>Approved Schedule (Baseline)</u>	<u>Plan</u>	<u>Actual</u>	<u>Status</u>	<u>% Complete</u>
<i>Initiate</i>	01/07/2017	01/07/2017	22/08/2017	22/08/2017	Complete - Late	100 %
<i>Concept</i>						0 %
<i>Design</i>						0 %
<i>Plan</i>						0 %
<i>Implement</i>	30/06/2018	30/06/2018	30/06/2018		In Process - On-Time	70 %
<i>Finalise</i>	31/07/2018	31/07/2018	31/07/2018		Not Started	0 %

**Progress this reporting period**

Completed works in Fisher St Taree,  
Continued works in River Rd & Old Punt Rd Glenthorne  
Started works in Glenthorne Rd Glenthorne

Current No. of Projects allocated to program: 18  
Projects In Process: 5  
Projects Not Started: 1  
Projects Completed: 12

**Planned activities for the next reporting period**

Continue works on planned renewals at Glenthorne.

Begin review of the FY18 program to bring forward projects from FY19 renewals program including preparing revised estimate of the work packages. Review to be completed over the next 2 to 3 months and align with the 3rd Quarter Capital Works Budget Review.

**Recommendations to correct any adverse status (Red or Yellow)**

Nil

**Project Name**

**Status Date**

Bootawa Dam Safety Works 2017 - Geotechnical review, monitoring equipment and flood capacity assesse

05/03/2018

<b>Project Status</b>	<b>Schedule</b>	<b>Resource</b>	<b>Cost</b>	<b>Project Score</b>
Yellow	Yellow	Green	Green	9.00

**Project Director**

Mal Flew

**Project Manager**

David Goodwin

**Description**

This project addresses recommended actions identified in the Comprehensive Surveillance Reports of 2009 and 2014 and endorsed by the NSW Dams Safety Committee in June 2015.

The project encompasses the design, construction and commissioning of a replacement piezometer monitoring system and an assessment of the geotechnical characteristics of the downstream shoulder foundation of Bootawa Dam. The project will also deliver an assessment of the existing spillway capacity and flood hydrology in line with the NSW Dam Safety Committee guidelines.

<b>Total Project Budget</b>	<b>Target</b>	<b>Approved Budget (Baseline)</b>	<b>Plan</b>	<b>Actual:</b>	\$219,532.14
	\$379,000.00	\$269,500.00	\$269,500.00	Commitments	\$47,426.98
				<b>Total:</b>	\$266,959.12

<b>Project Budget Baseline progression</b>	<b>Approved Budget</b>	<b>Reason for new Baseline</b>	<b>Resolution No.</b>
22/11/2017	\$269,500.00	Adoption of MidCoast Water Services Quarterly budget review at end of September 2017.	Item 266/17
20/09/2016	\$379,000.00	Budget update at ready to initiate gateway based within the August 2016 Board Report	2016-159 Item 8

<b>Budget Cash Flow</b>	<b>Approved Project Total</b>	<b>Up to Current FY</b>	<b>Current FY</b>	<b>FY + 1</b>	<b>FY + 2</b>	<b>FY + 3</b>	<b>FY + 4 and beyond</b>
	\$269,500.00	\$72,500.00	\$197,000.00	\$0.00	\$0.00	\$0.00	\$0.00

<b>Project Milestones</b>	<b>Target</b>	<b>Approved Schedule (Baseline)</b>	<b>Plan</b>	<b>Actual</b>	<b>Status</b>	<b>% Complete</b>
<b>Initiate</b>	16/08/2016	16/08/2016	16/08/2016	16/08/2016	Complete - On-Time	100 %
<b>Concept</b>	30/11/2016	30/11/2016	28/10/2016	28/10/2016	Complete - On-Time	100 %
<b>Design</b>	28/02/2017	28/02/2017	28/02/2017	28/02/2017	Complete - On-Time	100 %
<b>Plan</b>	30/03/2017	30/03/2017	30/06/2017	30/06/2017	Complete - Late	100 %
<b>Implement</b>	30/05/2017	30/05/2017	28/11/2017	28/11/2017	Complete - Late	100 %
<b>Finalise</b>	30/07/2017	30/07/2017	30/03/2018		In Process - Late	90 %



**Progress this reporting period**

1. Outstanding minor site works completed.
2. MidCoast Water Services conducted testing of lightning protection system and confirm the minimum 5 ohms required was achieved. Actual reading 2.5 ohms.

**Planned activities for the next reporting period**

1. Receive all finalisation documentation required to be submitted by contractor.
2. Contractor to provide further information to dam operators regarding piezometer negative readings.
3. Issue practical completion certificate and begin defects liability period.

**Recommendations to correct any adverse status (Red or Yellow)**

Nil

**Project Name**

**Status Date**

GE-SPS-00 SPS Switchboard Renewals (500005)

01/03/2018

<b>Project Status</b>	<b>Schedule</b>	<b>Resource</b>	<b>Cost</b>	<b>Project Score</b>
Green	Green	Green	Green	6.50

**Project Director** Mal Flew

**Project Manager** Mark Sheather

**Description** Provide design & new replacement cost benefit against refurbishment back to original dated condition of switchboards at the following stations:  
 HP-SPS-01, TI-SPS04, BU-SPS01, FO-SPS-02, OB-SPS-04, OB-SPS-06, PP-SPS-04, PP-SPS-06, PP-SPS-08, PP-SPS-14, PP-SPS-17, PP-SPS-18, PP-SPS-19, TA-SPS-08, TI-SPS-03, TU-SPS-05, WG-SPS-06, HP-SPS-06, FO-SPS-06, HP-SPS-07.  
 A review of the current switchgear including the standards they were manufactured to indicates that the Pumping Station Switchgear does not comply with current standards.

<b>Total Project Budget</b>	<b>Target</b>	<b>Approved Budget (Baseline)</b>	<b>Plan</b>	<b>Actual:</b>	\$42,285.42
	\$600,000.00	\$1,165,000.00	\$1,165,000.00	Commitments	\$0.00
				<b>Total:</b>	\$42,285.42

<b>Project Budget Baseline progression</b>	<b>Approved Budget</b>	<b>Reason for new Baseline</b>	<b>Resolution No.</b>
20/12/2017	\$1,165,000.00	Approved at the December Council Meeting in line with the Ready to Implement Gateway Report	294/17
22/11/2017	\$850,000.00	Adoption of MidCoast Water Services Quarterly budget review at end of September 2017.	Item 266/17

<b>Budget Cash Flow</b>	<b>Approved Project Total</b>	<b>Up to Current FY</b>	<b>Current FY</b>	<b>FY + 1</b>	<b>FY + 2</b>	<b>FY + 3</b>	<b>FY + 4 and beyond</b>
	\$1,165,000.00	\$10,580.00	\$364,000.00	\$790,420.00	\$0.00	\$0.00	\$0.00

<b>Project Milestones</b>	<b>Target</b>	<b>Approved Schedule (Baseline)</b>	<b>Plan</b>	<b>Actual</b>	<b>Status</b>	<b>% Complete</b>
<i>Initiate</i>	15/11/2016	15/11/2016	23/11/2016	23/11/2016	Complete - On-Time	100 %
<i>Concept</i>	30/03/2017	30/03/2017	20/12/2017	20/12/2017	Complete - Late	100 %
<i>Design</i>	31/05/2017	31/05/2018	31/05/2018		Not Started	0 %
<i>Plan</i>	20/12/2017	20/12/2017	28/03/2018		In Process - Late	95 %
<i>Implement</i>	28/10/2018	28/10/2018	29/10/2018		Not Started	0 %
<i>Finalise</i>	30/11/2018	30/11/2018	30/11/2018		Not Started	0 %

**Progress this reporting period**

Continued engaging with tenderers including carrying out site inspections as requested.

Complete overall tender evaluation and assessment review with preferred tender recommendation report to be forwarded to MANEX

Prepared deed of agreement.

Conducted overall project health check to enable proceeding to implementation phase.

**Planned activities for the next reporting period**

Issue letter of acceptance for project

Issue unsuccessful tender submission letters

Organise post-tender meeting

**Recommendations to correct any adverse status (Red or Yellow)**

Acceptance of revised ready to implement gateway report and tender evaluation report.

**Project Name**

GE-WTP-00 WTP chemical Systems Renewals (500008)

**Status Date**

06/03/2018

<b>Project Status</b>	<b>Schedule</b>	<b>Resource</b>	<b>Cost</b>	<b>Project Score</b>
Yellow	Green	Yellow	Green	8.50

**Project Director** Mal Flew

**Project Manager** David Morse

**Description** In November 2015 an audit was performed on the treatment plant chemical systems to review the compliance of the systems with relevant Australian Standards. The audit found that while the overall systems were functioning well, there are many areas that may not be compliant with standards, or that posed a risk to WHS or Environment.

<b>Total Project Budget</b>	<b>Target</b>	<b>Approved Budget (Baseline)</b>	<b>Plan</b>	<b>Actual:</b>	\$74,956.28
	\$300,000.00	\$606,000.00	\$606,000.00	Commitments	\$94,292.49
				<b>Total:</b>	\$169,248.77

<b>Project Budget Baseline progression</b>	<b>Approved Budget</b>	<b>Reason for new Baseline</b>	<b>Resolution No.</b>
22/11/2017	\$606,000.00	Approval of the project ready to implement gateway report within the November 2017 board meeting	264/17

<b>Budget Cash Flow</b>	<b>Approved Project Total</b>	<b>Up to Current FY</b>	<b>Current FY</b>	<b>FY + 1</b>	<b>FY + 2</b>	<b>FY + 3</b>	<b>FY + 4 and beyond</b>
	\$606,000.00	\$36,000.00	\$285,000.00	\$285,000.00	\$0.00	\$0.00	\$0.00

<b>Project Milestones</b>	<b>Target</b>	<b>Approved Schedule (Baseline)</b>	<b>Plan</b>	<b>Actual</b>	<b>Status</b>	<b>% Complete</b>
<i>Initiate</i>	18/11/2016	18/11/2016	18/11/2016	18/11/2016	Complete - On-Time	100 %
<i>Concept</i>	31/03/2017	28/04/2017	06/10/2017		Complete - On-Time	100 %
<i>Design</i>	30/06/2017	30/06/2017	16/11/2018		In Process - On-Time	50 %
<i>Plan</i>						0 %
<i>Implement</i>	29/09/2017	16/11/2018	16/11/2018		In Process - On-Time	20 %
<i>Finalise</i>	31/10/2017	14/12/2018	14/12/2018		Not Started	0 %

**Progress this reporting period**

Tea Gardens  
 ACH System  
 Bunding and plinth installed for new bulk storage tank (eliminating IBCs)  
 New 7KL bulk storage tank delivered and installed , plumbing completed an ready for bulk delivery

#### Chlorine Dosing System

Reworks complete to suction line manifold

Delivery water line installed with pneumatic isolation valve (to aid with elimination of gassing issues)

Flow switch installed on dosing line in order to provide no flow logic to chlorine dosing pumps

#### CIP Chemical Systems

All CIP chemical delivery lines are now rigid pipe with double containment from the bunded areas to the delivery point at the CIP skid. These works have standardised the Tea Garden's Plant now with double containments on all dosing systems and removal of all flexible lines above ground

#### Stroud WTP

##### Chlorine Gas System

Design revision completed, GA approved

Room refurbishment commenced with bund hob removed to allow gas bottle trolley access

new roller door ordered

#### **Planned activities for the next reporting period**

Commence works at Stroud WTP

Cut into existing Chlorine dosing lines to allow initial cutover of new system into existing lines then commence replacement with new double contained lines and dosing points

Start electrical and control design works for the new system from local plant PLC

#### Bulahdelah WTP

Commence design works for replacement of Chlorine dosing system, the system can be predominantly built offsite and installed next to the current system allowing a clean cutover post commissioning

Continue planning of civil works at Bulahdelah and Stroud and seek quotes from suitably qualified contractors

Programming of contractors for electrical, plumbing and building trades over the 3 sites

Conduct a review of the overall review of resource availability and schedule.

#### **Recommendations to correct any adverse status (Red or Yellow)**

Nil