



Engineering and Commercial Infrastructure - Engineering

Monthly Review > 14 June to 18 July 2014



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OVERVIEW

Director Engineering & Commercial Infrastructure

The June period has seen the completion of the 2011 and 2012 NDRRA (Natural Disaster Relief and Recovery Arrangements) works. Staff worked tirelessly up until the 30th June to ensure the majority of works were completed on time. I congratulate all staff involved across Council who worked together as one team to complete this enormous program.

Contract works for the "Southern Entry Statement" landscaping at the Stockroute Road/ Bruce Highway intersection have commenced and are progressing well.

Civil Projects

This period concludes the financial years' work. The team have delivered the targets within the Capital program and assisted in delivery of a number of projects for the NDRRA team and the Waste Services team.

Civil Operations

Completion of the 2011 & 2012 NDRRA restoration works by the 30 June deadline maximising use of both internal and contract resources was the major focus in the period. All works were completed with the exception of minor works where approved funding was of low value and/or there was too high a risk of recovering the actual costs and works where Council was not able to fund the required complementary works.

The NDRRA team is now focusing on completion of the claims for reimbursement of costs and the acquittal process with Queensland Reconstruction Authority (QRA).

The continuous dry weather has provided the opportunity to catch up on open drainage maintenance and bitumen surfacing maintenance.

Rubber Duck Bill Tide Flaps have been installed on the Slade Point Sea wall stormwater pipe outlets; these flaps are expected to be more resilient against sea swells and wave impact effects. The flaps have replaced the original flaps which were destroyed during Cyclone Dillon.

Civil Operations achieved a 4.5 star rating for the most recent Client Survey Results. This is the best result achieved since amalgamation.

Technical Services

Ongoing delivery of design works for Capital Works Program projects and Active Towns projects continues on schedule.

Emergency Management

During the month, work has continued on the development of the 2014 Emergency Action Guide (EAG). Final consultation and review has occurred and the document will be going to print in August. Distribution will occur in early October in readiness for the commencement of the storm season and a media campaign is currently being developed. The 2014 Emergency Action Guide has been a collaborative project between Emergency Management, Corporate Communications and the GIS Mapping teams and has had considerable time and effort injected into producing the comprehensive guide.



Jason Devitt

Director Engineering and Commercial Infrastructure



CIVIL PROJECTS

Program

Comments

Finalised program figures are not available for this report as the end of financial year processes are still being finalised. In particular the transfer of funds to and from the Capital program and the NDRRA program has delayed the process. Whilst not finalised it is clear that the target of 90% expenditure of the Capital program has been achieved.

With the completion of the NDRRA program the day labour crews have been spread over a number of smaller projects across council including:

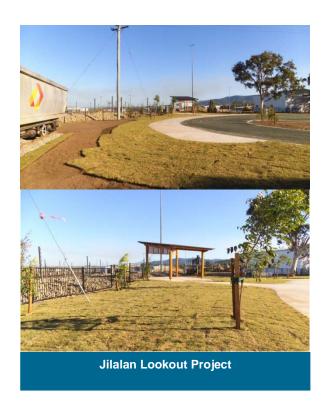
- Ungerer Street sealing
- John Breen Park level raising
- Brookes Street, Sarina
- Jackson Street drainage
- Jilalan lookout

Jackson Street drainage project is due for completion mid-August and the Jilalan lookout project is progressing with the moving of the Coal Wagon from the Sugar Shack occurring just recently. The lookout should be completed in the month of August.

Contract works for the "Southern Entry Statement" landscaping at the Stockroute Road/ Bruce Highway intersection has commenced and is progressing well.

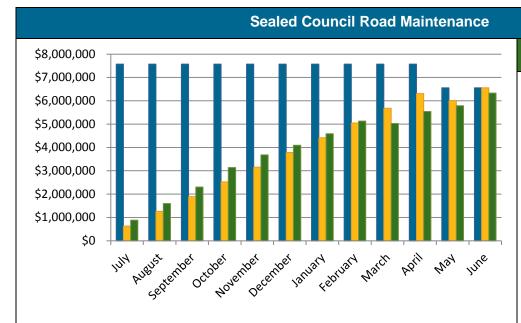
Contract work at Edward Lloyd Park playground is behind schedule but is starting to take shape with the formation of concrete footpaths and the soft fall wall.







CIVIL OPERATIONS



■ 2013-2014 - Budget

■ 2013 - 2014 - Budget by month

■ Actual Expenditure - End of month

Comments

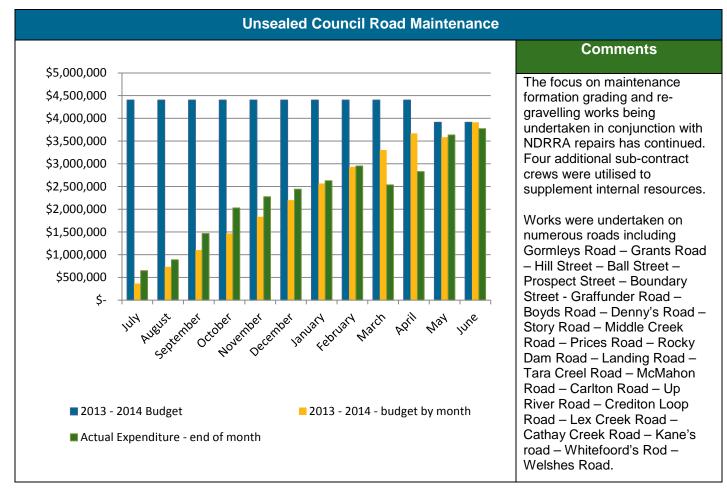
Bitumen surfacing patching, road verge slashing, shoulder repairs and kerb & channel repairs have been the predominate activities during the month.

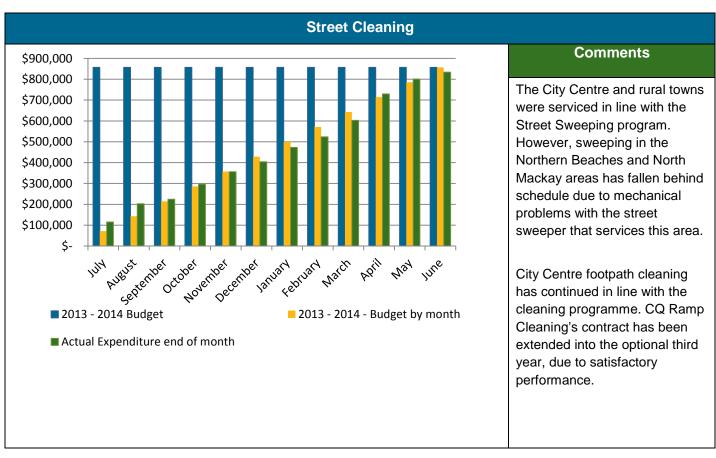
Bitumen patching activities have been undertaken on numerous roads including Douglas Street - Wallingford Road - Glenella Richmond Road - Wallingford Road - Kate Street horse & Jockey Road - Lorne Road -Juliet Street - Pleystowe Connection Road - Archibald Street - Goldsmith Street -Tudor Court - Burn Street -Munburra Road - Calen Area -Kuttabul area - Sarina Coast Road - Grasstree Beach Road - Koumala Area - Sarina town - Sarina Range - Hay Point -Mirani - Finch Hatton areas.

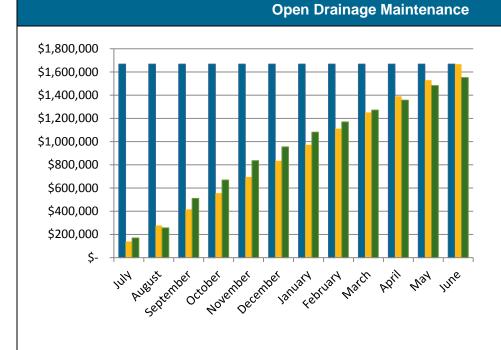
Shoulder repairs have been undertaken in 13th Lane - Ball Bay Road – Cape Hillsborough Road – Doyle's Road – Gormleys Road – Holts Road – Rise and Shine Road – Kowari Gorge Road.

Kerb and channel repairs have been undertaken at Glenpark Street – Craig Street – Evans Avenue and Pelican Street – Wood Street – Victoria Street – Kate Street – Goldsmith Street – Broadsound Road – Canecutters Drive – Mogford Street.









■ 2013 - 2014 Budget

■ 2013 - 2014 - Budget by month

■ Actual Expenditure - End of month

Comments

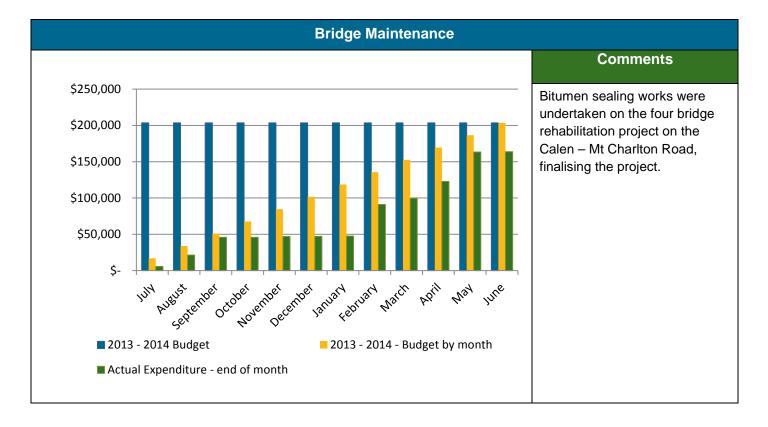
Recent cool, dry weather has made it possible to catch up with some drains that have been too wet to service during the preceding months.

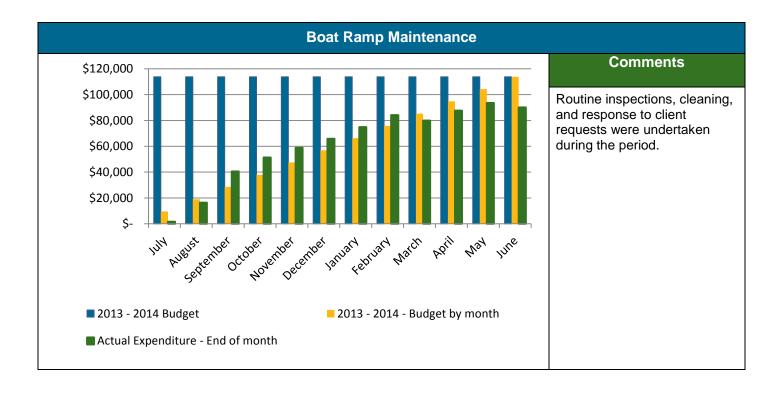
Drainage maintenance has been undertaken on numerous drains including Hoey Street Drain - Dennis Street Drain -Kippen Street Drain - Paget Street Drain – Bakers Creek area drains - Number 1 Main Drain - Cinnamon Drive Drain -Kmart area drainage – Garnett Street Drain - Walkerston area drainage - Schiras Drain -Avalon Estate Drain - Kelly's Road Drain - Emmanuel School Drain - Maggio Drive Drain -Riverside Drive Drain -Broomdykes Drive - Anvil Street Drain - Quarry Hill Drain Eaglemont Drain – Simpson Street Drain - Boundary Road Drain - Longair Street Drain -Perry Street Drain - Gable Street Drain - Dickens' Avenue Drain - Beckett Court Drain -Rae Street Drain - Kate Street Drain - Cutler Drive Drain -Beaconsfield Road Drain -Schmidtke Road Drain – Kilgour Street Drain - CQ University Drain.

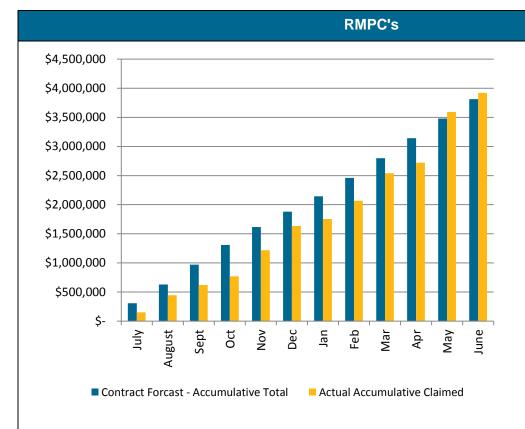
Work is in progress on reviewing the open drainage and Gross Pollution Traps infrastructure assets in order to ensure the inspection regimes and maintenance programs are comprehensive and effective.

Rubber duck bill tide flaps were installed on the pipe outlets in the Slade Point Sea Wall as an initiative to reduce damage caused by tidal action especially during strong wind events.









Comments

The 2013/14 scheduled works were completed in full with the allocated funding being fully expended maximising the benefits for the main road users.

Pothole patching was undertaken on Mackay Eungella Road - Bruce Highway South – Peakdowns Highway - Yakapari -Seaforth Road - Nebo Road -Maraju - Yakapari Road -Hay Point Road - Mackay -Sladepoint Road - Rosella -Homebush Road - Bruce Highway North.

Formation grading and gravelling works were completed on Blue Mountain Road and Mt Ossa - Seaforth Road.

Shoulder grading maintenance was completed on Habana -Yakapari Road and Mackay -Slade Point Road.

High shoulder build-up removal works were undertaken on Harbour Road and Mackay - Slade Point Road.







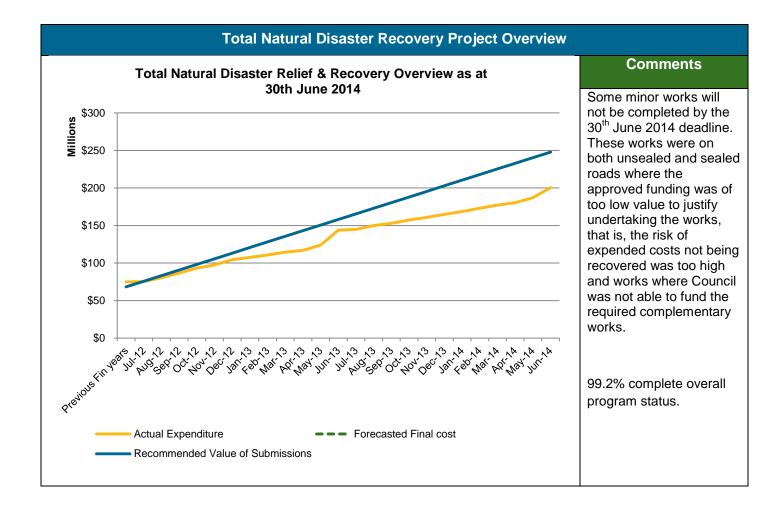
Rubber duck bill tide flaps - Slade Point Seawall



NDRRA Restoration Works

Overview

The overall NDRRA program for 2011 & 2012 is 99.2% complete at the end of June 2014. The NDRRA team is now focused on acquittal preparation and support for inspections, audits and reporting. The team is continuing to work closely with the Queensland Reconstruction Authority (QRA) to ensure acquittal is completed within agreed timeframes. A QRA inspector will be onsite for 2 weeks beginning 18th August to inspect completed works on 85 roads.





TECHNICAL SERVICES

- Development and design of projects within Capital Works Program (CWP) for 2013/14, 2014/15 and 2015/16.
- Specific detail design associated with Grant funded Round 5 CBD Revitalisation (detailed design).
- Discussions with service providers to streamline design and construction processes. Following implementation of Department of Transport and Main Roads (TMR) specifications and estimates extend assessment to track actual unit rates to build history for future estimates.
- Attendance at meetings in relation to: Technical Services Co-ordinators Meeting, RSS Project Team
 Meeting, City Centre Revitalisation Tender Evaluation, Culture Development Plan workshops, E&Cl
 Program Managers Meeting, Project Management Framework PLT and Functional Team meetings, Bee
 Creek Bridge Replacement discussions, Whitsunday Regional Roads Technical Group meeting, Walking &
 Cycling Advisory Committee meeting, Footpath Trading Policy discussions, Compliance and Training Matrix
 meeting, Performance Review and SIDRA Network Training.
- Participate in Public Meeting's held in relation to O'Keefe Street Reconstruction and Kelly's Road Drain construction.
- Briefing of Council in relation to Shellgrit Creek Drainage Study.
- Lead role in the development of the "Active Towns" strategy:
 - Annual Plan for Year 3 projects submitted for TMR approval
 - Construction plans generated and in progress for Bluewater Trail (Bluewater Quay (BWQ) to River Street Ramp), Cross City Link, Gooseponds Link to Magpies, PCYC refurbishment, BWQ Bike Cage
 - Additional funding sourced for BWT Section (Irving to Binnington) under competitive funding component of Active Towns program
- Detailed design of Glenpark Street Overpass commenced.

Survey Services

Overview

- 93% of 2014/2015 CWP surveys completed.
- As constructed surveys completed for Kuttabul Mt Jukes Road and Stockroute Road.
- Cadastral surveys completed for Wattle Street Sewer Pump Station and Willetts Road Easement.

Digital Cadastral Data Base (DCDB)

 Coordination of cadastral reference marks started for upgrade of DCDB in Habana/Balnagowan area. Office plotting continued.

Australian Height Datum (AHD)

Coordinated the 16 new permanent survey marks in the Armstrong Beach area using GPS.

Design Services

Capital Works Program (CWP)

- Two of 214 2008/9 and 2009/10 projects are to be completed:
 - Malcomson/ Greenfields Intersection, Connors (Crichtons Road to Cook Lane) and Connors Road to Stockroute Road connection design underway
- 108 of the 110 design projects in the 2010/11 CWP completed (96%). Those remaining, are:
 - Archibald reconstruction and upgrade, and Malcomson/ Greenfields Intersection upgrade
- 113 of 114 design projects in the 2011/12 CWP completed to date (99. Project remaining is Milton Street Construction (Farrellys to East Boundary)
- 94 of 98 design projects in the 2012/13 CWP completed to date (96%)



82 of 88 design projects in the 2013/14 CWP complete to date (93%)

44 of 65 design projects in the 2014/15 CWP completed to date (68%)
 Those outstanding require land acquisitions, valuations, input from service authorities, which is delaying completion of the design.

Major Projects for delivery next month

- Campwin Beach Road Reconstruction (Sarina Beach Road to 1km).
- O'Keefe Street Reconstruction (Field to Longair Street).

Landscape Issues

- Detail design for BWT sections BWQ to River Street Boat Ramp Stages 2 & 3 due to funding availability these will have to be delivered via CWP at a later stage.
- Active Town projects Year 2:
 - Cross City Link Archibald to Webberley Street section detailed design completed
 - Gooseponds Link Part 1 Bruce Highway Underpass to Willets Road detailed design underway
- CCRP Ongoing involvement in tender evaluation process
- CCRP Liaising with Exeloo for delivery of toilet block artwork; concepts to be developed for VAAC approval early August.
- DDA Access Audit 2013/14 West Mackay priority listing completed. Priority listing for 2014/15 rectification projects (Mackay-wide) underway.
- DDA Access Audit 2014/2015 Township Cemeteries and Amenity Facilities finalization of consultant engagement. Audits commence September 2014. Final Report deliverables 19th December 2014.
- Peer review of MRC landscape documents completed. (Public Realm Style Manual Guidelines, 8300 Supplementary Specification & Engineering Design Guidelines D Landscaping). Updates to 8300 Supp Spec. suite complete. Other updates underway anticipated mid-August completion date.
- Update of Standard Drawings (bollards & irrigation) for P&E.
- Detail design for Capital Works landscaping for projects including Peel/Victoria Roundabout, Wood/ Gordon Street carpark upgrade.
- Jubilee Park Stage 1 and Ultimate landscape design 95% complete. Staging proposal and estimates complete. Anzac artwork concept complete. Subject to Council Briefing 23.07.2014 for approval and finalisation of documentation or construction.
- BWT (Quota Park section) Stage 1 landscape documentation completed Northern Entry Statement Concept to be revised on reissued to TMR for approval to finalize reference design and estimate.
- Liaising with TMR median & landscape design for Nebo/Shakespeare intersection.

Traffic and Investigation Issues

Active Towns Program:

Evaluation:

- Funding the supply of 4 bicycles for Mackay Police so that officers can patrol bicycle paths that are continually being extended and connected around town by the Active Towns project. Bikes are due for delivery in June 2014 and will have Active Towns and MRC logos added to them after they arrive.
- New secure bicycle parking facility will be constructed at the Bluewater Quay with construction scheduled to
 finish by mid-July 2014. Access to the facility will be a swipe card that will also allow users to access the
 memorial pool facility with the same swipe card.
- Active Towns Officer will present the Paper, Mode Shift to Pedestrian and Cyclist Usage A Coordinated Approach for the AITPM Conference at the Adelaide Convention Centre on 14 August 2014.
- Distance and way-finding signage both for on and off road cycling routes will be erected around the Mackay before the end of July 2014. Signage will guide cyclists to major local facilities including Bluewater Quay, Bluewater Lagoon, Mackay Base Hospital, Botanical Gardens, CQ University, Civic Precinct, Mackay Stadium and some local parks.



Traffic Counts:

Rotation of 50 traffic counters. Traffic Counts are being performed for Capital and Maintenance Programs.

Works On Roads – Ongoing projects:

- Ergon Energy Milton Street request for amended cable route for 33kV power supply
- Ergon Energy Corner Alfred and Peel Street, Mackay
- Ergon Energy 426 Mackay-Eungella Road, Marian
- ISGM National 19 Campbells Ridge Road, Balberra
- ISGM National 7 Vincent Street, South Mackay
- Ergon Energy 33kV High Voltage Transmission Towers, Hay Point
- Ergon Energy Wewak Road, St Helens Beach
- Ergon Energy Pittman Street, Eaglemount Road & Broomdykes Drive, Beaconsfield
- Ergon Energy North Eton Road, Eton
- Ergon Energy Milton Street, South Mackay
- Ergon Energy Sharp Street, Rural View
- · Ergon Energy, DTMR and Jai-Cor Intersection of Gordon and Milton Streets
- ISGM National 207 Freshwater Road, Freshwater Point

Flooding and Drainage Issues

- CR 423343 Subject Site: 26 McCulloch Street, North Mackay
- CR 427075 1068 Marian-Eton Road, North Eton

Customer Requests

- 19 Works on Roads Requests totalling 22 hr. processing time.
- 27 Q100 Requests totalling 14 hr. processing time.
- 46 Plan Searches (GPLANS) totalling 20 hr. processing time.
- 100 Excess Dimension and Excess Mass Approvals totalling 17 hr. processing time. Have been processed to the end of June 2014.
- 13 Temporary Road Closure Approvals totalling 30 hr. processing time.



EMERGENCY MANAGEMENT

Overview

Community Education

Emergency Action Guide

The Emergency Management team, Corporate Communications and Geographic Information Section (GIS) have continued to work on the new Emergency Action Guide (EAG). Considerable effort has been put into the new EAG, being the first major re-write in over seven years. New storm tide evacuation zone maps have been developed and additional topics include; Public Cyclone Shelter, Community Resilience, Pet Emergency Plans and additional information in relation to fires to list a few.

The storm tide evacuation mapping is now in coloured zones up to 6 metres above the Highest Astronomical Tide (HAT), previously mapped to 2.5m above HAT. The zone intervals are now 0.5m, 1m, 2m, 3m, 4m and 6m above HAT. To assist residents in identifying what each colour means all maps now have the height above HAT recorded on the maps as an easy to read heading.

The EAG wording and design layout is being finalised and will go to print in August. Distribution to the public will occur in October 2014, prior to Get Ready Week 13th – 19th October 2014. As part of the distribution process, a media campaign will be developed to educate the public on the new evacuation zones and part of the focus will include that risks associated with storm tide have not changed. The risk rating has been identified and stated to give the public a greater understanding of the risk and this information has been sourced from storm tide studies recently undertaken by Council. In accordance with the State Guidelines, is now defining evacuation zones which may be affected in the extreme events which can and do occur.

Cyclone Saturday

Preparations for Cyclone Saturday this year have commenced and we are seeking available dates with Caneland Central. This event will be important to compliment the media campaign on the new storm tide evacuation information. Considerations are also being made for a possible second event to occur within early 2015, subject to the prevailing weather conditions at the time as a reminder to residents.

Mackay Local Disaster Management Group

The Mackay Local Disaster Management Group last met on the 2 June 2014. The next scheduled meeting is 1 September 2014.

Operations

No operations were conducted this month.

Planning - Mackay Local Disaster Management Plan and Operational Plans

Work on the Public Cyclone Shelter Operational Plan and the DETE Memorandum of Understanding continues. Finalisation of the DETE MOU is currently underway with other Regional Councils with Cyclone Shelters. This is being facilitated by the Mackay Emergency Management Team.

The Emergency Management Team has peer reviewed the Middle Creek Dam Emergency Action Plan (EAP) and Safety Information Kit for residents which has been developed by Water Services. The EAP has now been sent to Department of Energy and Water Supply (DEWS) for approval.

Projects / Mitigation Strategies

Coastal Hazard Adaption Study

The interim report has been received and is currently being reviewed by Officers.

Emergency Backup Generator Project

Midge Point Emergency Backup Generator and the dual axle trailer has been recently delivered. Some minor modifications will be undertaken by the workshop to enable the generator to be fixed onto the trailer over the next month.

Eungella Community Development Hall

The Platypus Play Centre has received grant funding of \$21,772 to undertake the installation of cyclone rated window



shutters to the facility. The roller shutters have been ordered and are expected to arrive by the end of July, with works scheduled for completion in early August 2014. The upgrade of the facility will give residents a facility that can be utilised both during disasters and post event. Council has also committed to supplying a backup generator as part of the upgrade of the building.

North Mackay Levee Upgrade

The Civil Project Team is continuing to work on increasing the levee height in North Mackay.

Works adjacent Shinn Street has been completed. Works adjacent to the Glenpark Street/ Mapplethorpe Bridge (Gooseponds) have commenced and should be completed by early August. Some delays have been experienced with the section crossing Harbour Road due to Main Roads works being undertaken on Harbour Road/ Vines Creek Bridge and the associated traffic restrictions.



SES ICT Upgrade

Consultation has continued with IScape and stakeholders. The SES ICT Functional Requirements and Scope of Works document is expected to be available early August 2014. Once received and agreed, the document will be released for tender and implementation.

Whisper Project

Further investigations are continuing looking at alternative products on the market that could fill this gap.

SES Facility Upgrades

As part of the upgrading of the State Emergency Service Facilities throughout the region, regular meetings of Council and SES Officers are being undertaken.

Sarina State Emergency Service Facility

The new Sarina SES facility is at the lock up stage and temporary construction fencing has now been removed. The internal layout plans have been finalised and have been submitted for pricing. Some alterations to the external plumbing have been undertaken to correct a defect in drainage fall at the plumbers cost. Works on the internal fit-out will commence as soon as possible. The project completion is expected early 2015.

Finch Hatton State Emergency Service Facility

The project is essentially complete with the exception of changing of the door locks to the SES Master Key System and the instruction signage for the generator changeover switch.

Calen Joint Training Facility

The joint Council/SES training donga has been installed and an inspection undertaken. Works on the electrical, stormwater, external plumbing works and the construction of the equal access paths are continuing. It is expected that works should be completed by the end of August 2014.

General

The Special Needs Working Group continues to make progress in looking at solutions to registering of Special Needs residents, the adoption of an agreed vetting system and how we can alert residents of impending events.

Emergency Management staff attended a Storm Tide Workshop by hosted by Queensland Fire and Emergency Services and Griffith University in Brisbane on the 23rd June 2014. At the workshop the storm tide issues regarding warnings for Tropical Cyclone Dylan were tabled and noted.



State Emergency Services

Overview

State Emergency Services - Local Controller

The MRU was activated this month to rescue a person who entered the Pioneer River. SES volunteer Flood Boat operators deployed effectively and conducted search operations for several hours

Volunteer Sandy Bell was presented with her Team Leader rank slides. Sandy has been a volunteer with the SES for 20 years and has served in a number of executive and co-ordinator positions. This presentation recognises Sandy's hard work and leadership skills. During the 2008 Mackay Flood Disaster Sandy ran the Incident Control room single handed, directing Flood Boats to rescue civilians caught up in the floods. Sandy currently serves as the units WH&S representative, First Aid Senior Instructor and now Team Leader.



SES volunteer Sandy Bell receiving her Team Leader Ranks

Activations for the period

20th June. Forensic Search Finch Hatton, 95 hours

Activated by Police, 10 volunteers from Mackay, Mirani and Sarina searched for evidence in relation to a serious assault. 10 volunteers spent a total of 95 hours searching cane paddocks.

29th June. Traffic Control & Public Safety, 81 hours

Activated by Police, 32 Volunteers from Mackay, Sarina, Calen and Midge Point set up traffic control and public safety points for the Haber V8 Super Car demonstration.

6th July. Traffic Control, 31 hours

Activated by Police, five volunteers from Mackay and Calen assisted Rural Fire with scheduled back burning in the Ball Bay area.

11th July. Search and Rescue, 168 hours

Activated by Police, Flood Boat Rescue crews were deployed

into the Pioneer River to search for a person. Four Flood Boats were deployed in under 50 minutes and Five Land Search teams were formed and deployed. The missing person was located by SES several hours later.



SES volunteers search for evidence in a cane paddock

Public Safety/Community Education

27th June

SES volunteers fundraised at Bunnings.

Community Education and Recruiting Calen Area.



Major Training Events

14th June, First Aid Camilla.

MRU trainers travelled to Camilla to assist Isaac volunteers that do not have First Aid instructors.

21st June, Vertical Rescue Training, Mirani

27th June, Flood Boat, Night Training

12th July, Storm Damage Rowallan Park Mackay

18 volunteers from Mackay and Sarina completed this course.

MRU Training and Community Hours							
	Maintenance	Administration	Training	Community Education			
Unit	4	99	3	48			
Midge Point			14				
Calen			14				
Mackay	12	25	264				
Mackay Training Group			200				
Mirani			76				
Sarina	10	21	110				
Campwin			35				
Armstrong			40				
Koumala			8				
Other		116		44			
Total	36	261	764	92			
Grand Total				1153			



QUALITY ASSURANCE

2013/2014	July 2013	Aug 2013	Sep 2013	Oct 2013	Nov 2013	Dec 2013	Jan 2014	Feb 2014	Mar 2014	April 2014	May 2014	June 2014
No. of Completed Client Requests Surveyed for Satisfaction Levels*	329	412	310	226	356	291	342	327	463	293	556	331
No. of Completed Construction Projects Surveyed for Satisfaction Levels	2	2	6	0	0	0	0	0	0	1	0	2
No. of Client Satisfaction Survey Results Finalised	0	0	3	6	0	0	0	2	0	3	0	3
No. of IMS Documents Reviewed and Updated	15	10	10	5	8	4	0	4	6	4	3	2
No. of New IMS Documents Commenced	0	2	1	0	1	3	2	3	1	1	0	0
No. of Work Site Visits	15	10	20	10	10	8	8	20	18	15	16	5
No. of Internal Quality Audits Conducted	2	1	2	2	4	1	0	1	1	2	2	2
No. of Staff Training Sessions Conducted	Nil	2	3	Nil	Nil	Nil	Nil	1	1	2	Nil	Nil

^{*}Includes surveys undertaken for Water and Waste Services.

^{**}July figures not included as surveys are not sent out until the first of July.

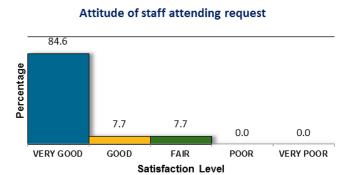


REQUESTS FOR MAINTENANCE WORK

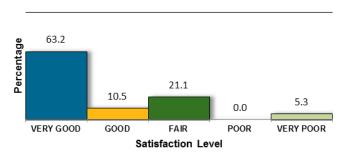
Results of Survey (March 14 - April 14)

Civil Operations





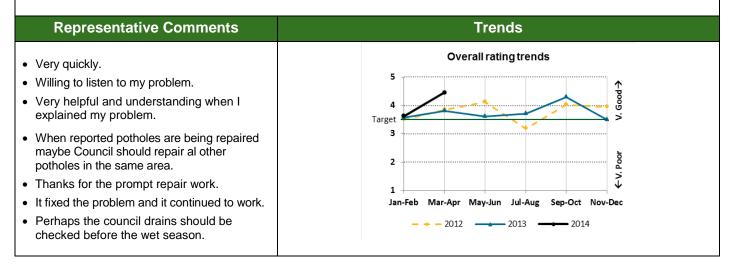




Appearance of completed work





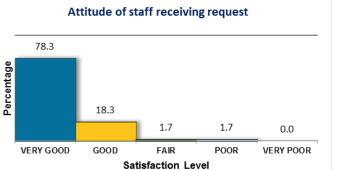




REQUESTS FOR MAINTENANCE WORK

Results of Survey (March 14 - April 14)

Water Network







Degree work addresses request



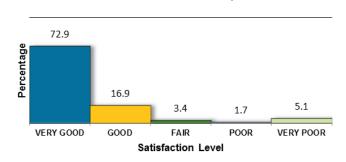
Attitude of staff attending request



Appearance of completed work



Overall satisfaction with response



Representative Comments Trends Overall rating trends · Council staff are always courteous and polite, very helpful with any council matter. **Pooo** Excellent. · Very rapid and quick response by works staff Target to attend and assess the problem. 3 The ground was mowable before the repairs but was not mowable after completion (lots Poor 2 of rocks left on surface). **→** · Work was done very quickly. A hole in the garden still needs to be filled so Jan-Feb Mar-Apr May-Jun Jul-Aug Sep-Oct Nov-Dec that we can replant the garden. **- → -** 2012 **-** 2013 **---**· Brilliant.