

# ENGINEERING SERVICES HIGHLIGHTS AND SIGNIFICANT ISSUES REPORT – MONTH ENDING JUNE 2010

**Author: DIRECTOR ENGINEERING SERVICES**

## **Purpose**

To review Engineering Services Department highlights and significant issues for the month ending June 2010.

## **Background and Discussion**

Highlights and Significant Issues for period are as follows: -

### **ENGINEERING SERVICES MANAGEMENT**

#### ***Coordination of project meetings, briefings and reports on the following projects:***

- Disaster Management Conference - Home Hill
- Fokker Friendship Commemoration Ceremony
- Sandfly Creek Environmental Reserve Management Meeting
- Inspection at Eungella to review clearing operations

#### ***On-going involvement in the following areas:***

- Mackay Water Recycling Project (i.e: PCG and PAB), Mackay Development Advisory Board, Management Leadership Forum and Sustainable Futures Committee Meetings.
- LGEG, Transport Working Group and Paget Depot Project Steering Committee.
- Safe Plan, Design and Construct Review Meetings and SES matters.
- CBD Economic Development Advisory Committee, Mackay Community & Public Transport Advisory Committee.
- Local Disaster Management Group and Rural Advisory Committee.

## CONSTRUCTION

### **DAY LABOUR**

*Works have been completed on the following projects:*

- Eungella Bus lay-bye
- Mirani Cycleway
- Nelson Street
- Macalister Street
- Eversleigh Culvert
- Devereux Creek
- Mirani Reseals
- Roberts Avenue
- Bridge Road - Kilgour to Scott
- Field Street - Podoski to Smith
- Farleigh State School
- Alfred Street footpath
- Kilgour Street



**Bridge Road - Blue Water Trail**

*Works have been substantially completed on the following projects:*

- Railway Square
- Alfred Street - Tennyson to Carlyle Streets
- Blue Water Trail Lagoon to Bridge road section
- Bridge Road - Hume to Holland Streets
- Bridge Road - Holland to River end
- Casey Avenue - Culvert and Leisure Court extension
- Dennis Street
- Smith Street - Bruce Highway to Wilson Street
- Bridge Road Longair Intersection



**Leisure Court Intersection**

## CONSTRUCTION

### DAY LABOUR

*The following projects are in progress:*

- Branscombe Street footpath
- Crightons Road – depot access
- Eversleigh /Sarina Beach intersection
- Andergrove Road drainage
- Bridge Road Drainage widening Leisure Court to Irving Street
- Bridge Road Footpath between Leisure Court and Irving Street
- Kinchant Dam reconstruction
- George Milton Street between Field Street to Paget
- Connors Road between Archibald and Boundary Road



### Bridge Road Cycleway and Drainage Improvement

### CONTRACTS

*Works have been completed on the following projects:*

- Shoal Point Road
- Gorge Road
- Flood Damage Package 1 - Sarina Mirani 2008-2009 Flood Damage Program
- Flood Damage Package 2 - Mackay Urban Saturation 2008-2009
- Flood Damage Package 3 - Saturation Mackay Rural 2008-2009
- Flood Damage Package 6 - Mackay Outer Urban 2008-2009

## CONSTRUCTION

### CONTRACTS



**Gorge Road - final sealing works**

*Works have been substantially completed on the following projects:*

- Illuka Park - Stage 2
- Bluewater Trail Environmental Park
- Flood Package 7 – Foamed Bitumen 2008-2009 Flood Damage Program
- Illuka Park Stage 1



**Bluewater Trail Environmental Park**

## CONSTRUCTION

### CONTRACTS

*The following projects are in progress:*

- Rifle Range Road Reconstruction – Plane Creek Crossing
- Grasstree Beach Road
- Farrellys Road, Connors Road to Michelmore Streets, Paget
- Bluewater Trail Caneland Park
- Flood Damage Package 8 – Mackay North1 2008-2009
- Package 9 – Mackay North 2 2008-2009
- Package 10 – Mackay South 2 2008-2009



**Rifle Range Road Reconstruction – subgrade works**

*The following projects have been awarded but not yet started:*

- Brisbane Street Reconstruction
- Oviform Lining Wood Street/Brisbane Street
- Crediton Loop Road
- West Plane Creek Road
- Hill & Leslie Streets, Sarina

*The following projects have been tendered:*

- Perry Road
- Roger Road Culverts

## MAINTENANCE

### Maintenance Grading in the following areas:

Heavy Formation Grading	Bally Keel Road, Diggings Road, Cliftonville Road, Horsborough Road, Eversleigh Road, Starrs Road, J Pitcher Road, Vella Road, Riley Road, Harris Road, Rocky Dam Road, Tedland Road, McNeill Road, Farquhar Road, Sands Road, Ricotta Road, Johnson Lane, Lally Road, Morrison Road, Campbell Road, Reeves-Saunders Road, Jenner Road, Ching Creek Road, Newbery Road, Sichter Road, Grovelly Road, Gronnow Road, Mountney Road, Stoney Creek Road, Walz Avenue, Old McEwens Beach Road, Grahams Road, Micallef Road, Oakenden-Sarina Road, Robinson Road, Mapalo Road.
Medium Formation Grading	Thorns Road, Pittonis Road, Debonis Road, Garham-Morrow Road, Garnham Road, Okuloo Road, Williams Road, Greentree Road, Badger-Wales Road, Kochs Road.
Shoulder Grading	Wollingford Road, McEwens Beach Road, Dunrock Road, Mandarana Road, Pleystowe Connection Road, Doyles Road, Ball Bay Road.

### Special Works:

Mirani Workshop – pour slab, Daly Street – replace foot bridge with box culverts & slab, Pakula Gap Road – relay pipes and pour headwalls, Ridgewood Drive, Arana Drive digouts, road failures at Andrew Fordyce Drive, Ridolfis Road repair failure, Norris Road driveway repairs, Waterboard patches, Nebo Road footpath, Elvin Street, Milne Lane, Archibald Street, Wood Street, Shakespeare Street, Taylor Street, Victoria Street, Byron Street, Gregory Street, Keats Street, Milton Street, Creek Street, Kippen Street.



**Daly Street, Marian – replace footbridge with box culverts and slab.**

Line marking was carried out on the following roads – Warner, Pinder, Ferguson, Brooks, Don, Mogford, Paul Hopkins, Barton, Galletly, Stoneham, Gregory, Wellington, Mackenzie, Ness, Holland, Tait, Beaton, Sneyd, Nelson, Hunter, Schaefer, Hume Streets, Ness Street, Depot, Carparks at River/Gregory and Gregory Streets, Cemetery Road, Conningsby State School, Mangrove Road, Victoria, Milton, Field, Webberley, Simpson, Wilson, Harvey, Dunn, Donaldson, Longair, Perry, Joanne, Napier, Clements & Absolon Streets and Robb Place.

Sign installation and maintenance was carried out at the following areas – Schofield St, Margaret St, Cape Hillsborough Road, Macalister St, Hyne St, Boundary Road, Bedford Road Depot, Downie Avenue, Gordon Street, Wood Street, Alfred/Milton Street, Michelmore St, Progress Drive, Corporation Avenue, Platinum Ct, Calen Depot, Mt Charlton Road, 9<sup>th</sup> Lane, Evan Street, Connors Road, Andergrove Road, Lorraine Court, Bonsons Scrub Road, Jarrah St, Peel St, Creek St, Branscombe Rd, Pleystowe School Rd, Formosas Road, Wollingford Rd, North Eton Rd, Oakenden-Sarina Rd, Peri Rd, Stotts Rd, Calrossie Rd, Shellfish St, Sorensens Rd, Mt Ossa Ck Bridge, Gregory St, South Pacific Dr, River St, Carlyle St, Highway Plazar, Macalister St, Chain St, Ron Searle Drive, East Point Road, Van Moolenbroeks Rd, Pleystowe Connection Rd, Ritchies Rd, Beaconsfield Rd, Victoria St, Farrellys Rd, Campbell Ridge Rd, Balberra Rd, Sunnyside Rd, Mallia Rd, Holts Rd, Pinder St, Nebo Rd, Archibald St, Mangrove Rd, Seaforth State School, Conningsby State School, Malcomson Street, Valley St,

Eaglemount Rd, Stockroute-Walkerston Rd, Flors Ave, Daniel St, Harrington St, Norris Rd, Deguara Ave, Martin St, Flametree Crt, Burton St, Midge Point Rd, Doughertys Rd, Forbes Rd, Trevaskis Rd, East Gordon St, Nelson St, Green St, Willetts Rd, Slater Ave, Kinghorn St, Blackall Crt, Clements St, Puglsey St, Lansdowne Rd, Kochs Rd, Wellington St, Paulette St and Horse-Jockey Rd.

The Cleansing Crew carried out various maintenance works in the following areas – Seaforth, Depots, Nadarmi Drive drain, Enterprise St, Milton Street, Little St, Highway Plaza, Blacks Beach drain, Shann St, Ness St, East Gordon St, Paradise St, Malcomson St, Schooner Ave, Vincent St, Penn Street, Harvison St, Cape Hillsborough, Kippen St, Archibald St, Admiral Drive, Macalister St and Celeber Drive.

**Drainage Maintenance:**

Luscombe-Heads Road, McGregor Road, Wollingford Road, Quattromanis Road, Oakenden Sarina Road, Munbura Road, Anna Court, Dunrock Road, Perry St, Harney St, Casey Avenue, No Man’s drain, Christie St, Hoey St, Main drain nos. 1 &2, Milton St, Longair & Johnson Streets, Palmyra Depot, Racecourse, Borg’s East, Gable St, Creal St, Warland & Bolton St, Cutler Drive, Golfinks Causeway, Denman Ave, Jenvey’s drain, Geisler’s drain, Royal Sands, Dolphin Drive pipe, Bucasia Dump Road, Nindaroo No. 1, Wallmans Rd, John Oxley Dr, Shepherds No. 1 & 2, Boundary Road, Daniel Street, Nadarmi Drive, Danastas Avenue, Eimeo area, Bakers Creek area, Emperor Drive, Dundula School, Elizabeth Street, Bucasia area.

**Pothole Patching:**

Mirani area, Mt Martin area, Mackay-Water Road crossing, Pinevale Road, Reseal program at Reg Smith Street, Sarina area, Grasstree Beach Road, Sarina Beach Road, Coopers Avenue, Armstrong Beach Road, Miran Khan Drive, Hay Point Road, Sarina-Marlborough Road, Bruce Highway, Koumala area, Running Creek Road, McEwens Beach Esplanade, Farleigh Habana Road, Sandpiper Street, Holts Road, Arthur Street, Malcomson Street, Charles Hodge Avenue, Kenzey Street, Robin Street, Florence Street, Cabbage Tree Road, Phillip Street, Holmes Drive, Leahy Street, Raymond Croker Drive, Annie Wood Avenue, Halliday Bay Road, Ball Bay Road, Farleigh-Dumbleton Road, Bridge Road, Ridgewood Drive, Pioneer Street, Hamilton Street, Grendon Street, Willis Street, Baur Street, Bovey Street, Aspley Way, Bedford Road, Burgess Street, Payms Road, Olletts Road, Glenpark Street, David Muir Street, Jansen Street, Creese Street, Mansfield Drive, Ziegler Street, Darling Street, McKinley Street, Headland Drive, Andrew Fordyce Drive, Houdewind Street, Salmon Avenue, Danastas Avenue, McLaughlin Drive, Ungerer Street, Elizabeth Street, Zammit Street, Mooney Court, Vassallo Drive, Willetts Road, Dobel Court, Malagache Street, McHugh Street, Busuttin Drive, Evans Avenue, Slade Point road, Mansfield Drive, Farmer Street, Bald Hill Road, Ridolfis Road, Beaconsfield Road, Scawfell Street, South Pacific Avenue, Amhurst Street, Kingfisher Street, Cumberland Avenue, Scenic Drive, Refalo Driev, Bonson Scrub Road, Ian Reddicliffe Drive,

**Slashing:**

Marwood, Balberra, Racecourse, Munbura, Sunnyside, Sandiford, Bakers Creek and Palmyra areas.

**Bridge Maintenance:**

<b>Bridge Name</b>	<b>Road Name / Location</b>	<b>Description of works</b>	<b>Cost</b>
Head-Vassallos	Head-Vassallos Road, Septimus	Rehabilitation works, replacement of girders / headstocks / piles and bridge deck.	\$90,000

Before



After



**Main Roads RMPC:**

Other Bituminous Works / Pothole Patching / Pavement Repairs	Sarina-Marlborough Road, Mackay-Eungella Road, Bruce-Highway South.
Heavy Formation grading / gravel resheating / other formation works	Maraju-Yakapari Road, Mackay-Habana Road, Mt Ossa-Seaforth Road, Yakapari-Habana Road, Koumala-Bolingbroke Road, Mackay-Eungella Road, Mackay Bypass Road.
Heavy Shoulder Grading / Gravel Resheeting / Other Shoulder Works	NIL
Culvert / Drainage Works	NIL
Tractor Slashing Rural / Urban / Boom Mowing / Clearing Works / Herbicide Spraying / Declared Plant Spraying	Eungella Dam Road, Mackay-Eungella Road, Eimeo Road, Bruce Highway – North, Bruce Highway-South, Peak Downs Highway, Mackay Bypass Road, Koumala-Bolingbroke Road, Eton-Homebush Road, Mt Ossa-Seaforth Road, Yakapari-Seaforth Road, Mackay-Slade Point Road, Maraju-Yakapari Road.
Rest Area Servicing	Bruce Highway-North.
Road Sweeping/Roadside Litter Collection	Mackay-Slade Point Road, Bruce Highway – South, Bruce Highway – North.
Emergency Call Outs	Peak Downs Highway.
Signs / Guide Post Works	Rockleigh-North Mackay Road, Yakapari-Habana Road, Bruce Highway – South.

**NDRRA :**

Saturation Works: Progress to date

Package 1 - Variations to original scope are ongoing – project completion – July 2010

Package 2 - 86 smaller size sites predominantly in urban areas of Mackay – works completed

Package 3 - 46 smaller size sites predominantly in rural areas of Mackay – works completed

Package 4 - Works are 85 % complete – significant variations for unsuitable materials encountered – works due for completion July 2010

Package 5 - withdrawn

Package 6 - Contract awarded to BMD Constructions - \$1 917 629.00



Package 7 – Contract awarded to BMD Constructions - \$1 462 714.47 – works 90% complete



Flood Damage Package 7 – Bridge Road

Package 8 – Contract awarded to Downer EDI Ltd- \$ 2214 566.00 – works have commenced on Bells Road in nearing completion – Programmed to commence Barrie Lane and Mezzans Road next – project due for completion October 2010

Package 9 – Contract awarded to Vassallo Constructions - \$2 516 682.00 – works have commenced and due for completion August 2010



Flood Damage Package 9-Bergmans Rd

Flood Damage Package 9 – Bergman’s Road

Package 10 – Contract awarded to BMD Constructions - \$1 667 345.00 – works commenced – due for completion August 2010

Package 11 – Contract awarded to Epoca Constructions - \$2 243 900.00 – project due for completion September 2010

Package 12 – Contract not awarded

***Emergent Works – Cyclone Olga – 2010***

Initial part of emergent claim submitted for 6.7 million, further claims to be submitted prior to final approval. Continuing to collect and process data for Restoration claim. Anticipated completion end July for submission early September.

## TECHNICAL SERVICES

- Development and design of projects for saturation damage projects throughout the Council area
- Development and design of projects within Capital Works Programme
- Development and ongoing modification of draft 20yr Capital Works Programme making provision for all current projects and proposed development projects for long term Financial Plan purposes
- Discussions with GHD & utility providers regarding proposed road construction Connors Road (Archibald to Farrelly's). Land acquisitions in progress and Ergon Telstra cost estimates received and orders placed. Construction sequencing plan and discussions proposed. Telstra and Water/Sewer works underway
- Detail design ongoing for intersection upgrading on Malcomson Street at Charles Hodge and Greenfields intersections.
- Tender Specification and issue for Perry Road Rehabilitation, Anzac/Tolcher Intersection Upgrade and Fibre Optic Link to Paget Depot.
- Detail design of culvert crossing Casey Avenue, concept development and detail design for stadium access, car park and Bluewater Trail extension ongoing. DA lodged and approved
- Concept and detail design for future Milton/Bridge, Bridge/Paradise, Archibald/Milton and Paradise/Webberley intersections commenced as part of Paget intersection and traffic study
- General design development of detail plans for Archibald/Paradise roundabout, Glenpark/Evans Signalised Intersection and Mango Avenue Reconstruction
- Ongoing discussions with DMR, Developer and Council staff with regard to detail design and division of costs for Bruce Hwy/Boundary Rd intersection and section of Boundary Road from Hwy to Rainlover Street
- Attendance at Meetings PIP development, Paget Steering Committee, Paget Depot Management Group, Land and Road Use Committee, Ergon future development, Urban Enhancement Concept plan, Strategic Planning Internal stakeholders, Program Managers, Rural Advisory Committee, DTMR City Gates Boundary Road Upgrade, ULDA Bedford Road project and site meeting Mansfield/Nicklin intersection
- Provision to Council of briefing on Pavement Management system and Departmental Briefing
- Provision of Reports to Council on permanent road closure

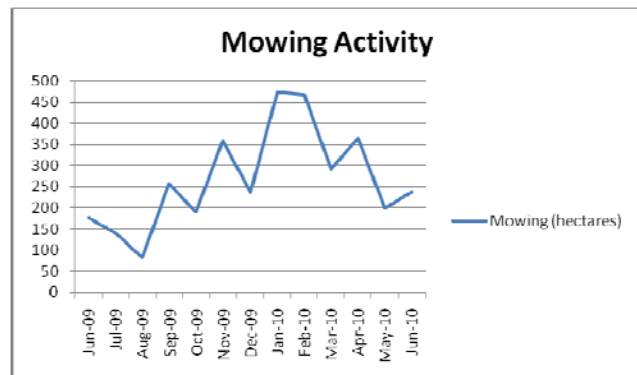
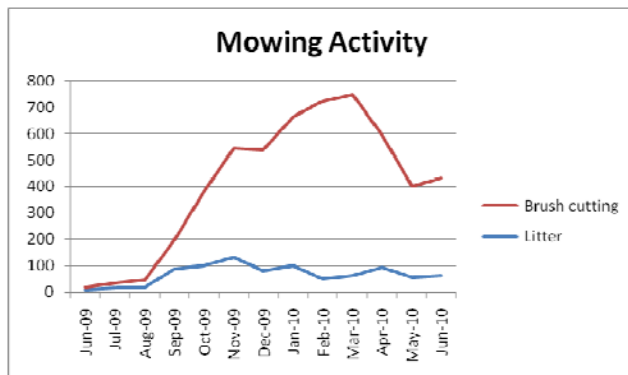
## PARKS AND ENVIRONMENT

The Parks & Environment report for the month of June contains information on activities undertaken throughout the month by the staff within the program.

- **Administration** – the focus for this month was on end of year financial completions. The Parks & Environment budget numbering system has been reviewed and task numbers aligned to the budget for 2010/2011. New task books were introduced for the new financial year to all Parks supervisors and coordinators. This should enable detailed financial reporting for individual operational areas.

There were 135 hours of training attended by staff from the program during June.

- **Customer Requests** – Parks received 231 new customer requests and attended to 323 requests during the month. There are 281 requests unactioned at the end of the month. Tree requests continue to be significant in numbers received.
- **Horticulture Activities** – There was 306,843m<sup>2</sup> of garden beds serviced in June, with additional 56 hours on gardens in Pioneer Valley and Sarina areas undertaken. Spraying of weeds in gardens amounted to 58 hours for the month. Preparation for Finch Hatton Show and Mackay Show was conducted. Litter pick up after the show in Pioneer Valley was conducted.
- **Grass Maintenance Activities** – In June 703,376M<sup>2</sup> of Parks, 76,761m<sup>2</sup> of drains, 25,953m<sup>2</sup> of easements and 322,041m<sup>2</sup> of road reserves were mowed.



- **Arboriculture Activities** – 617 trees were pruned, 140 palms defroned and 140 juvenile trees attended.
- **Natural Environment Activities** – 17 Meeting attended on natural environment activities; 8 days of volunteer activities at Sandfly Creek and Bluewater trail were undertaken in weed control and revegetation preparation works. There were 12 volunteers on these activities. Natural environment staff attended maintenance activities at Sandfly Creek, Slade Point Reserve, Blacks Beach, Janes Creek and Gooseponds Reserve during the month.
- **Marine Beach Activities** – staff undertook dune weed control in Blacks Beach area and were assisting the arboriculture crew for most of the month.

- **Parks Building Services Activities** – 2 electricians were on sick leave for the month, and 1 capital works ganger was on sick leave for the month. Annual leave by two other staff and 1 staff vacancy in this crew resulted in only one capital works project being completed for the month. Electricians were busy with traffic light maintenance and general electrical repairs to pensioner units, community halls and depot electrical maintenance.
- **Capital Projects** – The following capital projects were in progress during June:

Mt Bassett Cemetery Shelter completion of project

Preparation for Shade Shelters purchasing for Napier Street undertaken

Fencing for Northview Gardens Playground commenced.

Camilleri Street Path completed.



New Rotunda situated in Mt Bassett Cemetery

## **MACKAY REGIONAL BOTANIC GARDENS**

### ***Throughout June:***

**Horticultural and Site Works** – General maintenance activities were undertaken during the month. Preparations for school holidays and school activities were undertaken and hosted. The Curator is currently on annual leave and his acting Curator is on sick leave at the time of preparing this report. More details will be forwarded in July monthly report summary.

**Capital** - Decks were re-oiled to the Gymnosperm area. Fire detection units were installed to the Administration Building.

**Masterplan Review and Planning** – Public consultation period completed and report to Council for adoption on 7<sup>th</sup> July meeting.



Mackay Regional Botanic Gardens Gymnosperm Deck Oiling Project

### **Consultation**

There has been consultation with Engineering Services Program Managers.

### **Resource Implications**

Nil.

### **Conclusion**

Overall in review of the 2009/10 financial year particular focus was placed upon the completion of a very comprehensive capital works program. A significant improvement has been achieved in this area over previous years. With the advancement of the design program this ongoing focus will continue into 2010/11. The ongoing maintenance activities have been interrupted through the year as a result of natural events (ie:- Cyclone Ului) however the performance of staff to ensure continuity of services and the maintenance of infrastructure is recognised, as to is the community assistance and support during this period.

### **Officer's Recommendation**

THAT this report be received.