9.2 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - JUNE 2021

Date Prepared: **9 July 2021**

Author: **Director Infrastructure Services**

Attachments:
1. **Capital Works Highlights - June 2021** ⇩
2. **Capital Works Summary - June 2021** ⇩

EXECUTIVE SUMMARY

The purpose of this report is to provide an update on capital works projects undertaken by the Infrastructure Services Department during the month of June 2021.

RECOMMENDATION

That Council receives the Infrastructure Services Capital Works Monthly Report for the month of June 2021.

BACKGROUND

Council's Capital Works program is focussed on renewal and upgrade of Council infrastructure to achieve Council's corporate vision of "A growing, confident and sustainable Shire". The program is funded through a combination of Council's own funding and external grants and subsidies.

RISK IMPLICATIONS

Financial

The capital works program is tracking within budget.

Infrastructure and Assets

Projects included in the current capital works program were identified through Council's Project Prioritisation Tool (PPT) which uses a risk-based, multi-criteria approach to rank projects in order of priority. The PPT is aligned with Council's Long-Term Financial Plan and Asset Management sub-plans, which focus of renewal of existing assets.

FINANCIAL AND RESOURCE IMPLICATIONS

Capital
All capital works are listed in and funded by the 2020/21 Capital Works Program.

LINK TO CORPORATE PLAN

Transport and Council Infrastructure: The provision of quality services and infrastructure for our growing community that is planned and managed using sound asset management principles.

IMPLEMENTATION/COMMUNICATION

Infrastructure Services Capital Works Report
Project Highlights - June 2021

Mareeba SHIRE COUNCIL

Project Name: Mareeba Pound Upgrade

Program: Community Buildings

Background

The existing Mareeba Pound has serviced the community as both Council's animal impoundment facility and animal refuge. A condition inspection identified that the structure has reached the end of its functional use and a new facility is needed. Funded through the Queensland Government's Works for Queensland Program, the project will provide for a modern facility that meets current standards for health and safety and animal welfare.

Scope of Works

The project provides for the construction of a dual-purpose facility capable of supporting both impoundment requirements of Council and an animal refuge/kennel. The scope of works for the project incorporates construction of a new building to the north of the current pound with associated fencing and roadworks. The existing facilities will be demolished at the completion of the new works.

Progress Update

External works, including northern dog and cat runs are now complete with turf also installed. Electrical and mechanical, internal fit out of cabinetry and vinyl sheet flooring are now complete. The last of the steel cages were programmed to be completed by the end of June, however lockdowns in Townsville resulted in delays to galvanising of the cages. Practical completion by the builder is now programmed for 26 July, after which time Council will complete the roadworks. An extension under Works for Queensland has been approved to 31 August 2021.

External works to the northern side including cat and dog runs

Internal kitchen fit-out with vinyl sheet flooring

Infrastructure Services Capital Works Report
Project Highlights - June 2021

Project Name: Cedric Davies Community Hub

Program: Community Buildings

Background

Council is redeveloping the former Mareeba Bowls Club site to provide a new library, community hall, bowls clubhouse and covered bowling green in a combined facility to be named Cedric Davies Community Hub.

Funding has been received under the Queensland Government's Local Government Grants and Subsidies Program and Works for Queensland Program, in addition to the Australian Government's Local Roads and Community Infrastructure Program.

Scope of Works

The scope of works includes modifications to the main building and construction of a new clubhouse and synthetic covered bowling green with the project being delivered over three (3) stages.

The first and second stages of the project involved the design and construction of an improved Bowls Clubhouse Facility and the replacement of one (1) existing lawn green with an undercover synthetic equivalent. This work was completed in late 2020.

The third stage of the project involves the refurbishment of the existing main building to cater for community services and training activities, a space for community events and recreational activities and provide space for a modern multi-faceted library service.

Progress Update

Stage 3 of the project commenced in January 2021, with all works now completed. All refurbishment works were completed in the first week of June, with a final walk through with contractor and architectural consultants undertaken early June with minor ommissions and defects identified. The building contractor has addressed most of these, and all items are expected to be addressed by mid July. RFID security gates are programmed to be installed early July and the relocation of old Library will commence from the end of July.

Completed signage to front of building

Library catalogue area

Infrastructure Services Capital Works Report
Project Highlights - June 2021

Mareeba SHIRE COUNCIL

Project Name: Mareeba Leagues Club roof renewal works

Program: Community Buildings

Background

Located at Doyle street Mareeba, the Mareeba Leagues Club has serviced the community for the past 27 years. A condition inspection identified that the roof covering for the Leagues club roof and the Grandstand roof had severely deteriorated, allowing ingress of water into the buildings.

Scope of Works

Partial replacement of the metal roof sheeting and associated flashings for the purpose of sealing to make the building watertight.

Progress Update

Council invited tenders from suitably qualified and experienced contractors to undertake the renewal of the roof coverings which closed on 11 January 2021. The Tender sought submissions for a lump sum price to renew the Leagues Club roof as well as a provisional lump sum to replace the Grandstand roof. Due to budget constraints for the project, the scope was reduced to only include one half of the Leagues club roof. The section identified for renewal houses the mechanical plant and has predominantly been the section of roof that has been the most affected by water ingress.

Works for the partial roof replacement commenced following the wet season and is now complete. The works were conducted in a professional and timely manner with no restrictions experienced to the business of the Mareeba Leagues Club. No ingress of water has been detected since the roof renewal works were completed.

Completed works seen from a drone perspective

Infrastructure Services Capital Works Report
Project Highlights - June 2021

Mareeba SHIRE COUNCIL

Project Name: Mason Street Sewer Duplication Project

Program: Wastewater

Background

There are several trunk gravity sewerage mains in the Granite Creek Sewer Pump Station (SPS) catchment. The catchment west of Railway Avenue (and James Street) and east of Granite Creek is served by a trunk gravity main that runs along Basalt Gully for most of its length. It has a number of incoming lines that includes the Mason Street gravity sewer main that serves the catchment south of Basalt Street, east of Basalt Gully and north of the future Mareeba Connection Road. In recent years, Council has experienced sewage surcharges (overflows) from two (2) maintenance holes on Mason Street gravity sewer main during wet weather events.

Council has received funding from Queensland Reconstruction Authority (QRA) under the Local Economic Recovery (LER) Program for the Mason Street Sewer Main Upgrade Project.

Scope of Works

A new gravity sewer main will be constructed from the road reserve behind Owens Street through the vacant land and east of Mareeba Cemetery continuing north along Mason Street to Granite Creek Pump Station. Due to the complexity of the project, the project scope was split in two (2) phases. Phase 1 (current project) comprises the sewer main section south of Rankin Street and will temporarily discharge into the existing trunk sewer main which runs parallel to Basalt Gully, north of Rankin Street. Phase 2 will be undertaken as a future project to continue north and connect to Granite Creek Pump Station.

Progress Update

Construction works are to commence 11 May from the recently constructed manhole on Strattmann Street. The next section of the Mason Street sewer duplication project will commence from this manhole back toward Costin Street and it is completed except for the road crossing.

A section of new sewer main has been installed (as in the photo below) the under-rail line between Morrow and Perkins Streets. Works will now be concentrated through the road corridor adjacent to the Pioneer Cemetery through to the connection point on the existing sewer main behind properties along Owens Street.

Excavation works to install the section of sewer main under the rail line

Infrastructure Services Capital Works Report
Project Highlights - June 2021

Mareeba SHIRE COUNCIL

Project Name: Hilltop Close Booster Station and Pipeline Project

Program: Water

Background

The Warril Drive area of Kuranda is supplied with water via an existing pump station at the bottom of Warril Drive, where water is reticulated to residences along the remainder of Warril Drive, Hope Close, Punch Close and Hilltop Close. A reservoir on top of Hilltop Close provides balancing storage for periods of low use and as a backup for firefighting purposes.

A dedicated rising water main is to be constructed, from the existing pump station to the reservoir to prevent pressure fluctuations caused by the existing pumps when filling the reservoir.

Scope of Works

The scope of works includes supply and installation of new pipeline, alterations and cut-ins to existing water network, supply and installation of a new booster pump station structure and associated internal asset construction and installation and associated electrical and SCADA works.

Progress Update

Works commenced with the under boring section from Warril Drive to Hilltop Close and installation of pipe work. The booster station concrete slab was poured on 7 May, which will house the booster pump set, electrical switchboard comprising system controls and telemetry and emergency generator power supply. Construction of the pump shed now completed along with standby generator installation and electrical connections.

The new booster pump set has arrived and will be installed by mid-July allowing for connection of the remaining pipe work and associated fittings.

Booster station shed and standby generator

Infrastructure Services Capital Works Report
Project Highlights - June 2021

Mareeba SHIRE COUNCIL

Project Name: Speewah Road Pavement Rehabilitation

Program: Rural Roads

Background

Speewah Road provides access to the rural community of Speewah. Due to the growing volumes of traffic, there was a need to undertake pavement rehabilitation works and improvement works to bus facilities on Speewah Road. This project was funded under Phase 1 of the Australian Government's Local Roads and Community Infrastructure Program.

Scope of Works

The scope of works included the rehabilitation and widening of the bitumen formation to create a bus turnaround and the replacement of the existing bus shelter and driveways.

Progress Update

Construction works for this project commenced in early May 2021 and were finalised in late June, with the exception of line marking which was not able to be completed due to the on-going wet weather. Line marking will be reprogrammed for early July, weather permitting.

Bus shelter slab

Completed unsealed pavement

Completed sealed pavement

Completed bus shelter

Infrastructure Services Capital Works Report
Project Highlights - June 2021

Mareeba SHIRE COUNCIL

Project Name: Renew Major Culvert Pin Road, Mutchilba

Program: Bridges

Background

The purpose of the project was to undertake repairs works of the causeway over the Walsh River on Pin Road, Mutchilba to ensure continued safe access for traffic. This project was funded under Phase 1 of the Australian Government's Local Roads and Community Infrastructure Program.

Scope of Works

The scope of works included the removal and replacement of cracked and damaged topping slabs, reinstate washed out backfill, repair broken northern headwall and install new southern headwall.

Progress Update

Works commenced late May 2021 and were completed early June with the road re-opening to traffic on Friday 4 June.

South western end of culvert (before)

South western end of culvert (after)

Infrastructure Services Capital Works Report
Project Highlights - June 2021

Mareeba SHIRE COUNCIL

Project Name: Amaroo Development Drainage Improvements Stage 1

Program: Drainage

Background

Much of the stormwater from the residential areas in the eastern area of Mareeba flows into natural gullies located within drainage reserves, before discharging into the Barron River. Council is undertaking staged drainage improvement works to reshape these drains and install concrete bases to improve accessibility for maintenance and reduce ponding of water.

This project was funded under Phase 1 of the Australian Government's Local Roads and Community Infrastructure Program.

Scope of Works

The scope of works included the construction of a concrete invert drain within the drainage reserve at the Amaroo Development between Emerald End Road and Karobean Drive.

Progress Update

Works commenced on 14 June and were completed on 25 June. The invert drain is 253m long and 2m wide. During the project, a temporary sump was installed at a storm water outlet at Ch 120 to allow the drain below the outlet to dry out so construction could continue.

Construction of concrete invert

Infrastructure Services Capital Works Report
Project Highlights - June 2021

Mareeba SHIRE COUNCIL

Project Name: Oakey Creek Bridge, Hodzic Road - Girder Replacement

Program: Bridges

Background

The existing timber bridge over Oakey Creek on Hodzic Road, Biboohra provides access to rural properties and forestry reserve on the western side of Oakey Creek. A routine bridge inspection identified that several timber girders were in poor to very poor condition and required replacement.

This project was funded under Phase 1 of the Australian Government's Local Roads and Community Infrastructure Program.

Scope of Works

The scope of works included the construction of a side-track and the removal and replacement of four (4) failing bridge girders.

Progress Update

The bridge rehabilitation works were undertaken by Council's bridge crew and commenced on 4 June. A side-track was installed to allow for traffic movement whilst the bridge was out of commission. The change out of the girders was completed and the bridge was reopened to traffic on 18 June 2021.

Side-track construction

Girder removal

Girder replacement

Completed bridge works

Infrastructure Services Capital Works Summary Report - June 2021

Project Description	Project Stage	Progress Comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)		
2020/21 Reseal & Asphalt Program	Construction	Line marking programmed for August 2021.The roundabout at Chewko/Rankin intersection will be overlayed during the September school holidays due to contractor unavailability in June.
Program: 02 Gravel Resheet		
2019/20 Gravel Resheet	Construction	Re-sheeting works programmed for Hurricane and Strathleven Roads.
2020/21 Gravel Resheet	Not Commenced	All council's construction resources have been engaged in projects where grant finding dictates that works must be completed by 30/06/2021. Given this, the remaining funds in the 2020/21 Gravel Resheet budget will be rolled over to the 2021/22 financial year.
Program: 04 Rural Roads		
TIDS Euluma Creek Road, Julatten - Rehabilitate and widen Ch. 5.565 - 6.343	Construction	Programmed for September/October 2021.
R2R Wolfram Road, Dimbulah - Priority Sections Safety widening - Stage 1 and 2	Completed	Project complete May 2021. Minor cost overruns due to greater sealing costs than expected, wet weather and additional drainage works carried out in the next section.
LRCIP - Speewah Road, Speewah - Rehabilitate pavement: Ch. 0.345 to 0.5 and refurbish bus shelter	Completed	Practical completion achieved 24 June 2021. Line marking reprogrammed for early July, weather permitting.
DRFA Betterment Co-contribution	Construction	Shanty Ck Rd Causeway - construction to commence in July 2021. Fossilbrook Rd Causeway - contractor providing project documentation for review, possible start August 2021.
Fallon Road, Kuranda - Rehabilitate Pavement, Ch 0.874 - 0.948	Planning	Geotechnical Report received, pipe inspection to be carried out to assess potential damage from 2021 DRFA Event.
Program: 05 Bridges		
LRCIP Hodzic Road, Oakey Creek, Biboohra - Replace girders	Completed	Project completed June 2021
LRCIP Renew Major Culvert, Pin Road Mutchilba	Completed	Project completed June 2021
Hales Siding Road Timber Bridge Replacement	Construction	Programmed for July to October 2021
Kanervo Road - Replace Timber Bridge over Davies Creek	Procurement	Programmed December 2021 to April 2022
Program: 06 Drainage		
2020/21 Minor Culvert Renewal Program	Procurement	Replacing culvert at entrance to Mareeba Cemetery. Six (6) to eight (8) week lead time for concrete pipes.
LRCIP Amaroo Drainage Improvement - Stage 1 of 3	Completed	Works commenced late May 2021 and completed late June 2021.
Program: 08 Parking		
TTC - Railway Avenue, Mareeba - New Carpark	Completed	Project completed June 2021.
Program: 09 Footpaths		
Footpath Renewal (All localities)	Construction	Further footpath works are yet to be programmed.
STIP - Mt Molloy Footpath - Replace 430m	Construction	The path has reached the Fraser Road pedestrian crossing and construction work has ceased until later in the first half of the new financial year.
Program: 10 Parks and Gardens		
Shire Beautification Program	Construction	Vegetation management at the Granite Creek end of the Bicentennial Lakes was completed late May.
Kuranda CBD Renew Irrigation & Planting	Construction	Ongoing. This budget is used on an 'as required basis' for the continual upgrade of irrigation and plants in Coondoo Street.
Bi-Centennial Lakes - seed funding	Not Applicable	No grants identified as yet.
Mt Molloy Centre Islands, Replace irrigation and kerbing	Construction	Concrete and irrigation work complete. Garden plantings will be covered by underspends on other capital works projects.
Centenary Park Upgrade - Mareeba	Procurement	Play equipment suppliers Urban Play have advised that the installation of the play equipment will commence 12 July 2021. An extension has been sought from W4Q3 and Council are yet to be advised of the outcome.
LCRIP2 Shire-wide Park, Open spaces and Facility Upgrades	Planning	Projects to be determined in conjunction with development of the Parks and Open Spaces Strategy.
Program: 11 Water		
Chillagoe - Replace existing water reservoirs	Completed	Completed June 2021
Hilltop Close, Kuranda - New water main and booster	Construction	New booster pump has arrived and will be installed mid-July 2021.

Infrastructure Services Capital Works Summary Report - June 2021

Project Description	Project Stage	Progress Comment
Kuranda Water Treatment Plant - Replace backwash blowers	Completed	Blowers commissioned and operating May 2021.
Kuranda Water Treatment Plant - Replace clarifier bridge scraper	Completed	Completed May 2021.
SCADA Cybersecurity Upgrade	Completed	Project closed out 30 June
Mareeba and Kuranda WTP - Staged start-up of raw water pumps upgrade	Design	City Water Technology working on this project have attended site to commence planning for upgrades. Report due in new financial year.
Mareeba Water Treatment Plant - Based on a successful trial of new turbidity meters, implement automated backwash on high turbidity	Design	Works done in conjunction with City Water Technology and final report due end of August.
Mareeba, Kuranda and Dimbulah Water Treatment Plants - Replace chlorine analysers	Procurement	Delays due to unavailability of analysers due to COVID.
Mareeba Water Treatment Plant - filter 3 Install dedicated backwash pumps and reconfigure wash water feed pipes	Design	Project pending outcome of grant application for new filter block.
Chillagoe Water Treatment Plant - Install conductivity meter on raw water transfer line, trend conductivity on SCADA	Construction	New equipment was installed but there is a technical issue with the equipment and a replacement probe is pending installation.
Install a static mixer and injection quill for ACH dosing - Kuranda	Completed	Equipment on site and installed late June 2021.
Rankin Street West - Water main replacement and upgrade	Completed	Completed May 2021.
Kuranda Water Treatment Plant - Overhaul Sedimentation Tank	Completed	Completed May 2021.
Telemetry/SCADA Upgrades	Completed	Completed June 2021.
Valve Replacement Program (Reticulation)	Completed	Completed June 2021.
Mareeba Water Treatment Plant - Coagulation mixing renewal	Completed	Completed June 2021.
Mareeba Water Treatment Plant - Clarifier condition assessment	Completed	Report received, confirming clarifiers are in sound condition with a long remaining life.
Mareeba Water Treatment Plant - Optimise clarifier performance upgrade	Completed	Tank assessment report received, no issues identified.
Mareeba Water Treatment Plant - Backwash operation renewal	Design	City Water Technology working on a report, delays experienced due to COVID, report is expected August 2021.
Hydrants Renewal Program	Completed	Work completed in conjunction with the hydrant maintenance program.
Fraser Road Mt Molloy Water Main Upgrade	Completed	Project completed May 2021 following minor reinstatement works.
LER / LRCIP2 Chillagoe Bore & Water Main Construction	Construction	Pre-start meeting held, works programmed to commenced mid July 2021.
Program: 12 Wastewater		
2019/20 Mareeba Sewer CCTV & Relining Program	Completed	Completed June 2021.
Minor sewerage station H2S protection	Completed	Completed May 2021.
Telemetry/SCADA Upgrades	Completed	Completed May 2021.
2 x New standby generators for 2 priority pump stations	Completed	Completed May 2021.
2020/21 Mareeba Sewer CCTV & Relining Program	Completed	Completed June 2021.
2020/21 Manhole Rehabilitation and Replacement Program	Construction	Project progressing well with work approximately 50% complete.
Replace KSTP Bioreactor Aeration Diffusers	Completed	Project completed May 2021 and closed out June 2021.
Kuranda Wastewater Treatment Plant - Replace SMBS Dosing Pumps	Completed	Completed June 2021.
Mareeba Wastewater Treatment Plant - Aeration diffusers replacement (every 5 years)	Construction	Equipment ordered, long lead time on delivery as the ordered goods come from the USA.
Renew Mareeba and Kuranda Wastewater Reticulation Pumps	Completed	Completed June 2021.
SCADA Cybersecurity Upgrade	Completed	Completed June 2021.
LER - Mason Street Sewer Main Upgrade	Construction	Project works progressing well despite ground water inundating the excavation works.
Program: 15 Fleet		

Infrastructure Services Capital Works Summary Report - June 2021

Project Description	Project Stage	Progress Comment
GPS Vehicle Management System	Planning	Procurement to commence in August.
Replace Unit 625 Mitsubishi Truck	Construction	Delivery delayed to July 2021 due to delays with fabrication of body.
Replace Isuzu Prime Mover Unit 681	Completed	Prime mover delivered later June 2021.
Replace Unit 5432 Sewerage Jet Rodder trailer with a hydro vac truck	Procurement	Monitoring Auctions and well procure when suitable plant identified.
Program: 16 Depots and Council Offices		
Kuranda Depot Install hardstand and improve drainage	Completed	Completed June 2021.
Program: 17 Community Buildings		
Cedric Davies Community Hub	Construction	Defect Inspection completed and defect close out underway. Young Readers area Mural to be painted July, with opening to the public in early August.
Koah Tennis Court - Remove/replace the unstable timber light poles	Not Commenced	Application by Koah Community Group to build a large undercover facility has been received. Lighting project on hold awaiting outcome of this proposal.
Toilet Facility Refurbishments	Completed	Completed June 2021.
Mareeba, Dimbulah and Kuranda Aquatic Facilities - Remote monitoring upgrade for all swimming pools	Construction	Contractor delays due to COVID with August install now anticipated.
Mareeba Leagues Club roof repairs	Completed	Completed June 2021.
Program: 18 Non-Infrastructure Items		
Kuranda New Cemetery	Planning	Design consultant engaged to prepare masterplan for new cemetery, which is programmed to be finalised by late 2021.
DRFA Flood Warning Infrastructure Network MbaSC.0016.1819E.FWI - River Gauge (Biboohra)	Procurement	Tenders received and evaluation completed. Awaiting responses to post-tender clarifications before awarding the contract.
DRFA Flood Warning Infrastructure Network MbaSC.0018.1819E.FWI - Rain Gauge (7 locations)	Procurement	Tenders received and evaluation completed. Awaiting responses to post-tender clarifications before awarding the contract.
Program: 20 KIAC		
KIAC - Barron Falls Walking Track Phase 2	Completed	QPWS advise National Park section opened to the public 1 June 2021.
KIAC - New Wayfinding Signage	Construction	Minor issues identified with some products supplied, discussions with supplier are ongoing.
KIAC - Jum Rum Creek Walking Track Rehabilitation	Completed	Completed June 2021.
KIAC - Jungle Walking Track Rehabilitation	Completed	Completed June 2021.
Program: 23 W4Q3 - Works for Queensland 3		
W4Q3 Lerra Street Kerb & Drain Improvements	Completed	Completed May 2021.
W4Q3 Footpath Renewal All localities	Completed	Completed May 2021.
W4Q3 Mareeba Pound Upgrade Pound/Facility	Construction	Building works substantially complete with practical completion anticipated 26 July. Road works to be completed by early August. Extension to grant program to 31 August 2021 has been approved.
W4Q3 Rankin Street Office Air-conditioning Replacement and Refurbishment	Completed	Completed June 2021.
Program: 24 W4Q4 - Works for Queensland 4		
W4Q4 Bicentennial Lakes Solar Lighting	Construction	Solar lights are due at Kowa Street depot week of 5 July. Extension to grant program to 31 July 2021 has been approved. Lights will be installed and commissioned by end of July.
W4Q4 Dimbulah Hall replace linoleum flooring	Completed	New roller shutter installed but lock to be fitted and kitchen is operation. Small amount of works to be completed to the splashback.
W4Q4 Riverside Caravan Park refurbish shower amenity block	Planning	Inspection identified full replacement of building needed which cannot be achieved within available funding or timeframes. Propose deferral of project.
W4Q4 Dimbulah Caravan Park refurbish dongas and front office facilities	Completed	Completed June 2021.
W4Q4 Dimbulah Swimming Pool refurbish kiosk	Completed	Completed June 2021.New roller doors and shutters installed but the wrong locking mechanism installed. Supplier will need to replace the units when they arrive in 4 weeks.
W4Q4 Refurbish Kuranda Recreation Centre Hunter Park	Construction	Building contractor commenced late June. Extension to grant program to 31 July 2021 has been sought to enable works to be completed by late July.
W4Q4 Dimbulah Hall and Shire Hall Park electrical capacity upgrade	Completed	Completed May 2021.

Infrastructure Services Capital Works Summary Report - June 2021

Project Description	Project Stage	Progress Comment
W4Q4 Dimbulah Swimming Pool Solar	Completed	Completed May 2021.
W4Q4 Mareeba WWTP Solar	Completed	Completed May 2021.
W4Q4 Mareeba Swimming Pool Solar	Completed	Completed February 2021.
W4Q4 Mareeba Water Treatment Plant Solar	Completed	Completed June 2021.
W4Q4 Kuranda Water Treatment Plant Solar	Completed	Completed May 2021.
W4Q4 Community Hub Solar	Completed	Completed June 2021.
W4Q4 Centenary Booster Pump Solar	Construction	New concrete path has been constructed to the perimeter of the shed. Awaiting the installation of the new playground to finalise the path on the north edge. Extension to grant program to 31 July 2021 has been approved.
W4Q4 Mt Molloy Community Hall Refurbishments	Completed	Completed May 2021.
W4Q4 Arnold Park Toilet Upgrade	Completed	Completed June 2021.
W4Q4 Rankin Street Public Disability Toilet	Completed	Completed June 2021.

9.4 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - JUNE 2021

Date Prepared: **28 June 2021**

Author: **Manager Technical Services**

Attachments: **Nil**

EXECUTIVE SUMMARY

The purpose of this report is to summarise Council's Fleet, Design, Soils Lab, Survey, Quality, GIS, Project Management, Facilities and Investigation Services activities undertaken by Infrastructure Services during the month of June 2021.

RECOMMENDATION

That Council receives the Infrastructure Services, Technical Services Operations Report for June 2021.

BACKGROUND

Technical Services

Design, quality and investigations:

Investigation activities undertaken in June included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	83	49
Drainage Investigations	9	2
NHVR Permit Applications	0	9
Aerodrome Investigations	1	0
Traffic Count Surveys	0	16
Parks Investigations	5	2
Dial Before You Dig Requests	0	45

Soil Laboratory:

Council's Soil Laboratory provides NATA-accredited soil and material testing for internal and external services. The laboratory completed the following testing in the month of June:

Supplier	No. of Tests
Internal	36
External	179

Asset Inspections:

Scheduled inspections of Council's transport infrastructure assets have been undertaken during the month of June. Field inspections were directed towards the underground stormwater netwrok within the Mareeba CBD. In addition to these field inspections, work was completed towards improving data collected for the footpath, water, sewerage, roads and kerbs.

Inspections planned for July will continue to focus on the the underground stormwater netwrok as well as the annual inspection of Council roads and other transoprt infrastructre.

Operational Works and Subdivisions

To ensure ongoing compliance with development conditions, both during construction and on-maintanence, Council undertakes routine inspection and monitoring of sites. The following developments remain current:

Locality	Subdivisions Name	Status
Mareeba	Kenneally Estate Stage 4	Under construction
Mareeba	The Edge Stage 3	Under construction
Mareeba	The Edge Stage 3A	Under construction
Mareeba	Amaroo Stage 11	On-maintenance
Mareeba	The Edge Stage 2B	On-maintenance
Kuranda	3 Hilltop Close	On-maintenance
Mareeba	Mareeba Roadhouse & Accommodation Park, Williams Close	On-maintenance
Kuranda	72 - 76 Mason Road Stage 1	On-maintenance
Kuranda	112 Barnwell Road widening	Monitoring

Disaster Recovery Funding Arrangements (DRFA - previously NDRRA)

The DRFA is jointly funded by the Commonwealth and Queensland governments to help alleviate the costs of relief and recovery activities undertaken in disaster-affected communities by delivering recovery activities to return affected eligible assets back to pre-event condition. The status of declared disaster events currently being managed are provided below:

Program	Status
2021 DRFA	Mareeba Shire activated DRFA assistance measures associated with Tropical Cyclone Imogen and Associated Low Pressure System, 2 - 12 January 2021. DRFA has been approved for Counter Disaster Operations (CDO) and Reconstruction of Essential Public Assets (REPA). Council is finalising emergent response works to those roads which only recently became accessible. A consultant has been selected to assist Council with delivery of the 2021 DRFA Program, with works anticipated to commence from July.
2019 DRFA	Gamboola Crossing remains the only site not yet completed. Commencement after the wet season, with completion prior December 2021 is anticipated. Gamboola Crossing is not yet fully accessible following flooding of the Mitchell River in January.
2019 Betterment	Preparation for delivery of the 2019 Betterment works is underway;

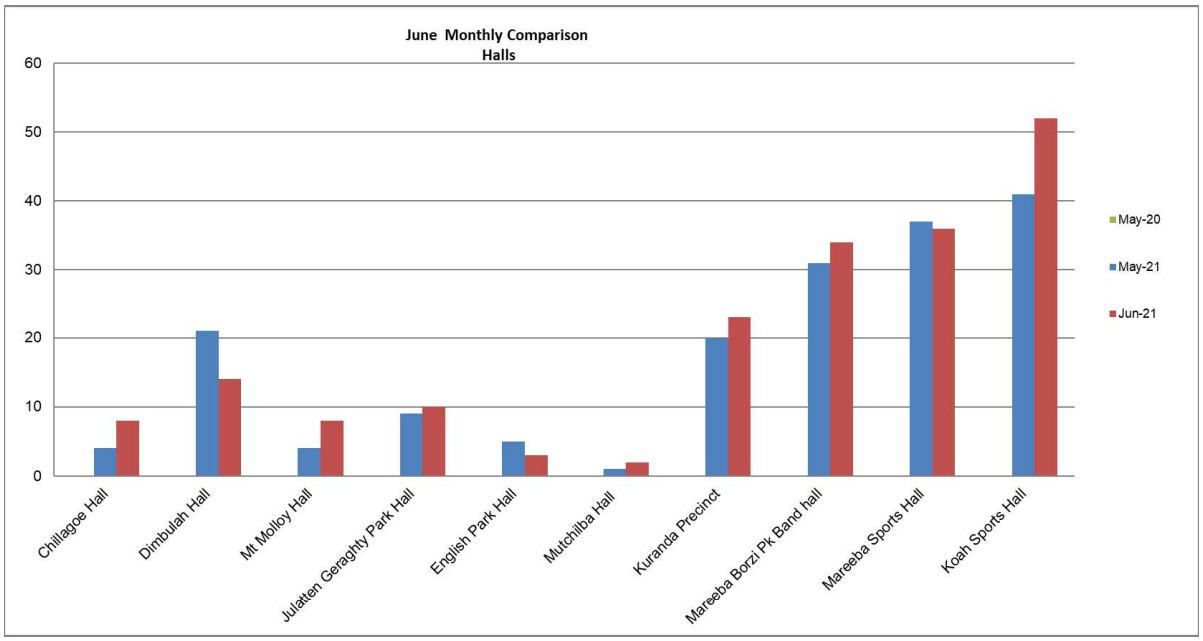
Program	Status
	• Fossilbrook Road, Lynd Crossing - Tender awarded, works to commence after wet season. • Shanty Creek Road, Creek Crossing - Tender awarded, works to commencing in July 2021. • Clacherty Road, Creek Crossing - completed May 2021. Other betterment projects to be identified and submitted in future funding rounds.

Facilities

Community Halls:

Maintaining safe and efficient access to Council Community Halls is recognised as an important aspect for the community's ongoing wellbeing. All facility users are required to comply with the conditions set out by the State Government's COVID-19 Restrictions Roadmap.

June hall hires have slightly increased against the previous month. Community groups and clubs are returning to the halls, recommencing their activities following the emergence of COVID-19.



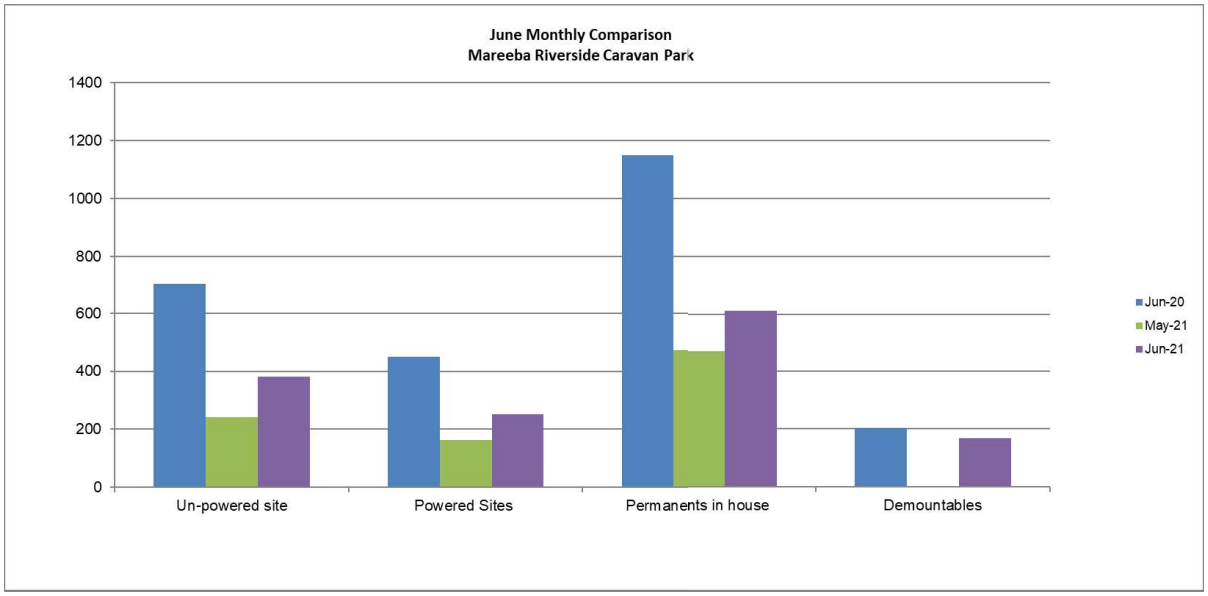
Swimming Pools

All Swimming Pools are closed for the months of June and July for the annual scheduled winter period shutdown. Maintenance is carried out during this period.

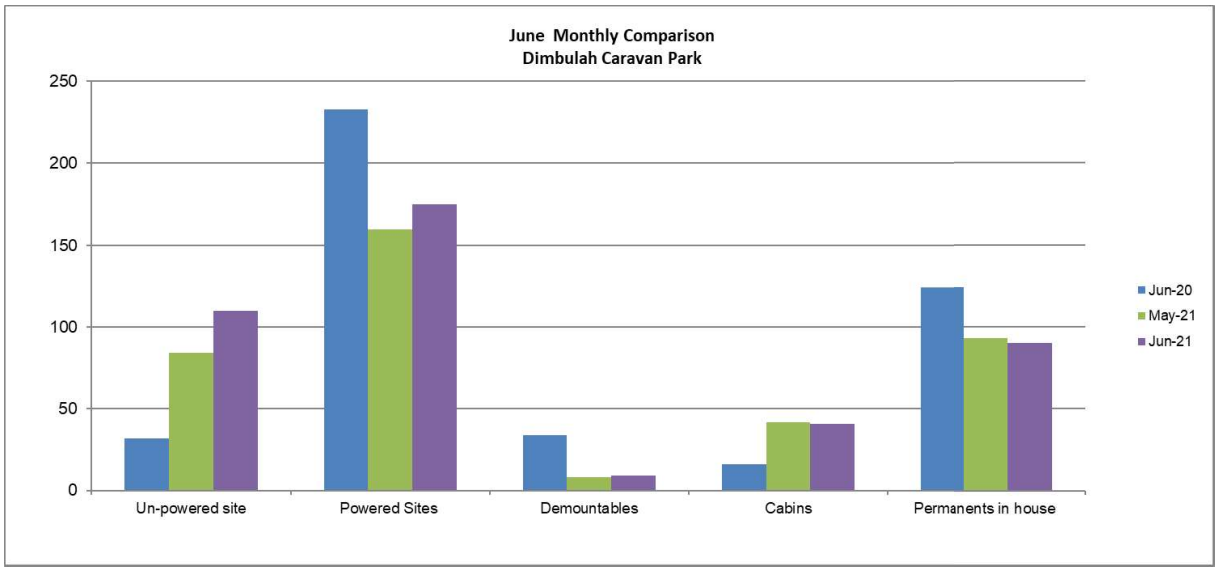
Council has released an Expression of Interest (EOI) for the Operation and Management of the three (3) pools and the Dimbulah Caravan Park, which has closed late June 2021.

Caravan Parks:

Mareeba Riverside Caravan Park utilisation increased in June. Backpackers and grey nomads are returning and are utilising the facility.



Dimbulah Caravan Park utilisation also had a slight increase compared to last month. Campers are returning.



Following the end of financial year, a brief review of park utilisation across the past three (3) years has been undertaken and is provided below.

Period	Mareeba Riverside Caravan Park	Dimbulah Caravan Park
2018/2019	32,361	7,073
*2019/2020	32,129	7,223
*2020/2021	17,187	7,050

*COVID-19 impacted years.

Utilisation numbers for the recent 2020/21 operating year for both Mareeba and Dimbulah caravan parks indicates they are still operating under previous years' numbers. Mareeba heavily relies on the backpackers, grey nomads and seasonal workers which has been impacted due to COVID.

Council has released an Expression of Interest (EOI) for the Operation and Management of the three (3) pools and the Dimbulah Caravan Park, which will close late June 2021.

Vandalism & Graffiti:

During June, four (4) reports of vandalism/graffiti were recorded for Council facilities, with annual costs provided below;

Financial Year	Actuals	Comments
2015/16	$ 2,134.00	• Mareeba Sports Hall - graffiti
2016/17	$ 16,546.00	• Mareeba Arnold Park - vandalism
2017/18	$ 23,948.00	• Mareeba Anzac Park memorial - graffiti x 2
2018/19	$ 14,851.00	
2019/20	$ 14,211.18	
2020/21	$ 62,199.62	

Note - actuals for vandalism/graffiti do not reflect costs to repairs during that period. Incoming expenses for repairs carry over until works are completed.

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

COVID-19 impacts in relation to closure and re-opening of facilities will be managed in line with Queensland Government requirements.

FINANCIAL AND RESOURCE IMPLICATIONS

Capital
Nil

Operating
Additional costs associated with graffiti and vandalism is expected and will be accommodated within existing budget allocations.

LINK TO CORPORATE PLAN

Financial Sustainability: A council that continuously operates in a cost-effective manner while managing council's assets and reserves to ensure a sustainable future.

Transport and Council Infrastructure: The provision of quality services and infrastructure for our growing community that is planned and managed using sound asset management principles.

Community: An informed and engaged community which supports and encourages effective partnerships to enhance the liveability of the Shire.

Economy and Environment: A resilient economy that promotes and supports the shire's natural assets and local industry and encourages investment while preserving and future proofing for generations to come.

9.7 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - JUNE 2021

Date Prepared: **28 June 2021**

Author: **Manager Water and Waste**

Attachments: **Nil**

EXECUTIVE SUMMARY

The purpose of this report is to summarise Council's Water and Waste activities undertaken by the Infrastructure Services Department during the month of June 2021.

RECOMMENDATION

That Council receives the Infrastructure Services, Water and Waste Operations Report for June 2021.

BACKGROUND

Water and Wastewater Treatment:

All treatment plants performing satisfactorily. Water demand was slightly higher across all schemes with Chillagoe's consumption may be attributed to filling of the new water reservoir.

Inflows through the wastewater treatment plants have dropped with the Mareeba WWTP recording the most notable.

Routine environmental monitoring did not detect any exceedances of environmental discharge limits. No anomalies or reportable notifications were reported in relation to routine water quality testing conducted during the month.

Water Treatment	Mareeba	Kuranda	Chillagoe	Dimbulah	Mt Molloy*
Water Plant average daily production (kL)	6,880	810	331	373	73
Number of Connections	4,385	982	157	272	113
Average daily water consumption per connection (L)	1,569	825	2,180	1,371	646

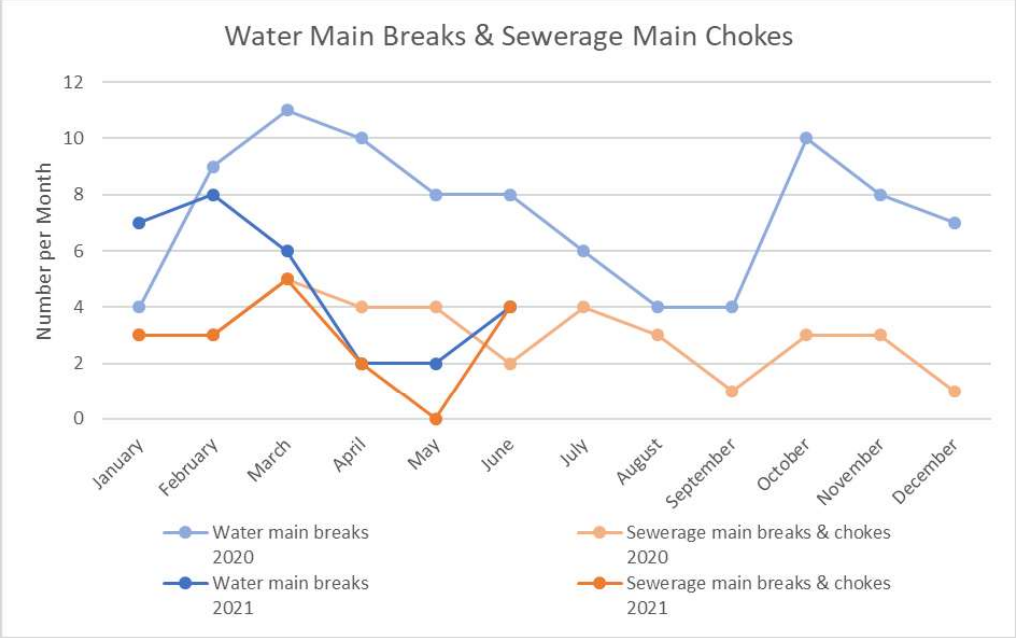
** Mt Molloy is an untreated, non-potable water supply*

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	2,289	203
Number of Connections	3,424	346
Average daily inflow per connection (L)	669	587

Water and Wastewater Reticulation:

Council's water reticulation crew attended to four (4) water main breaks and small water leaks and four (4) sewer main breaks this month, and average response times were within targets set out in Council's customer service standard for water services.

Monthly statistics are shown on the water reticulation main breaks and sewerage main breaks and chokes:

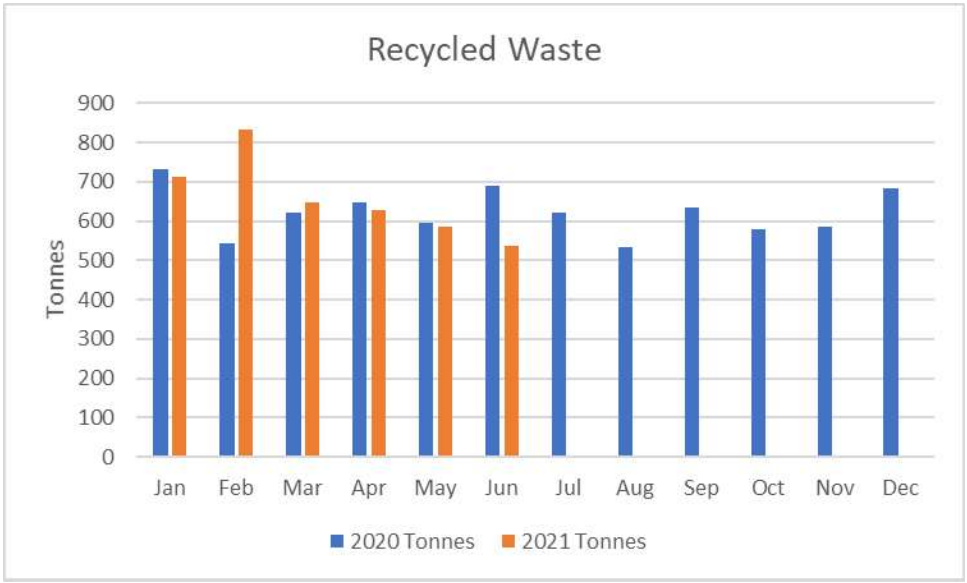


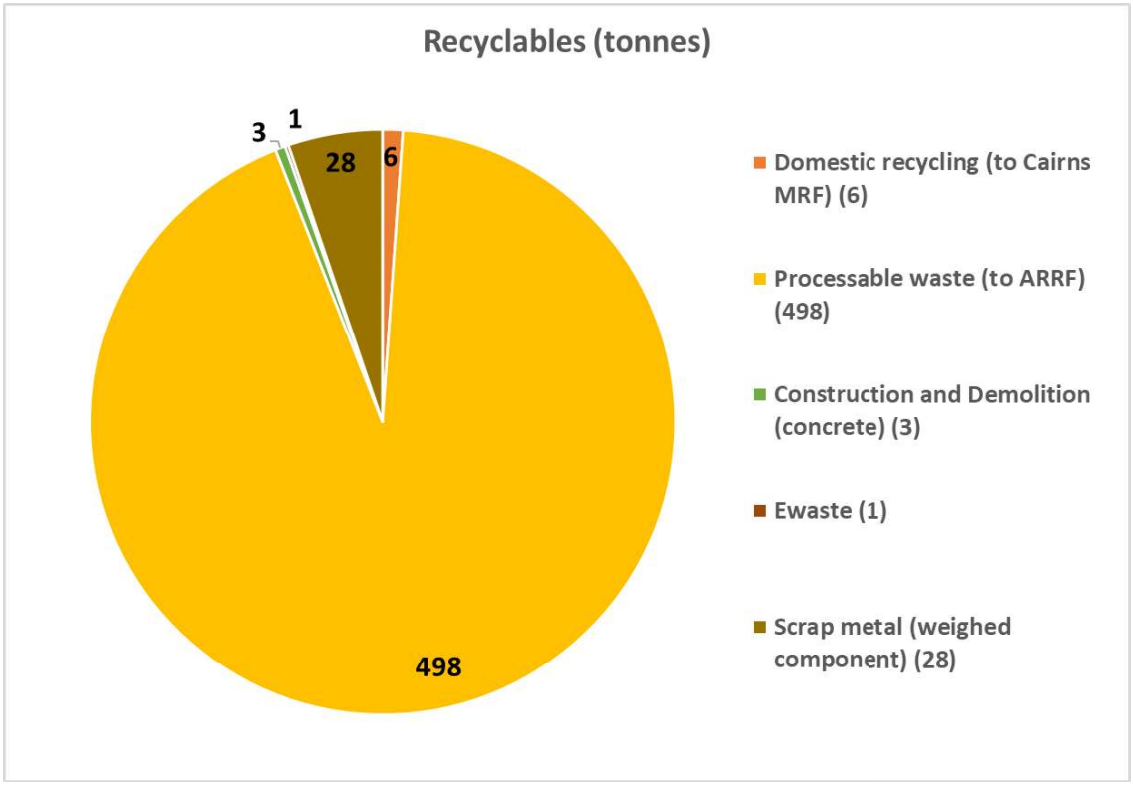
Waste Operations:

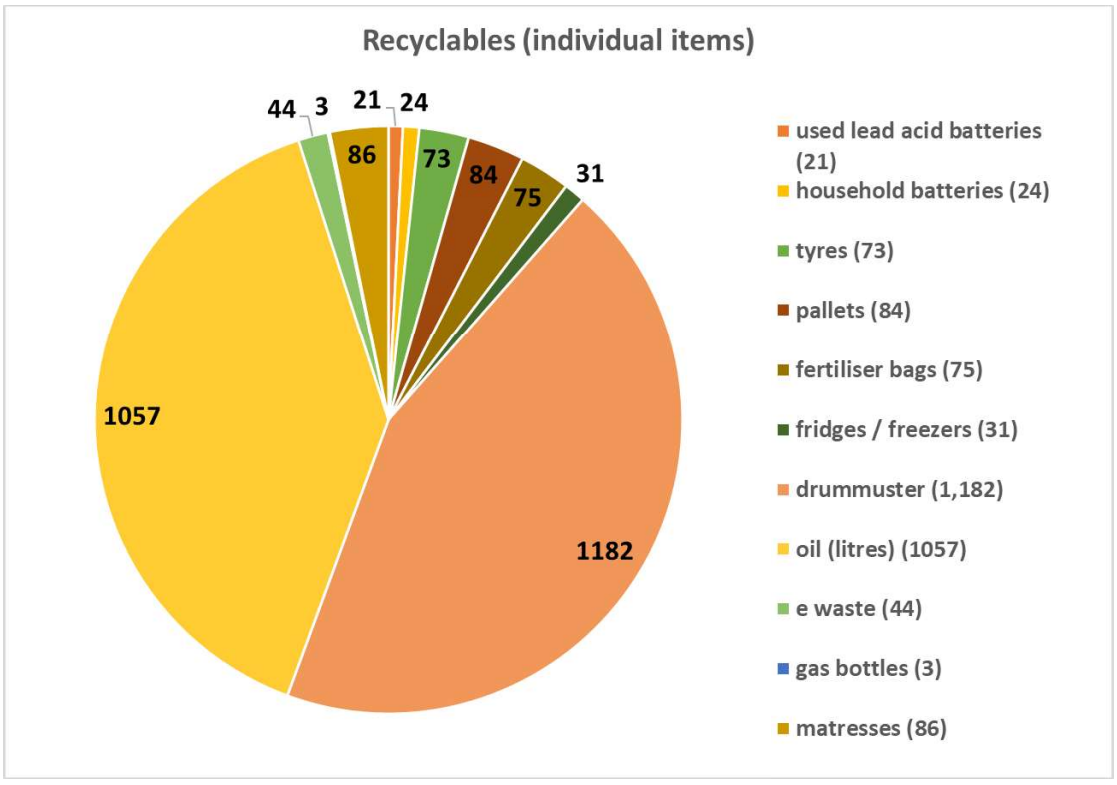
All transfer stations and Mareeba landfill are currently operational.

Recycling

Waste material collected at each of the waste transfer stations are either deposited directly to the Mareeba landfill, recycled or transported to the SUEZ Advanced Resource Recovery Facility (ARRF) in Cairns for processing.

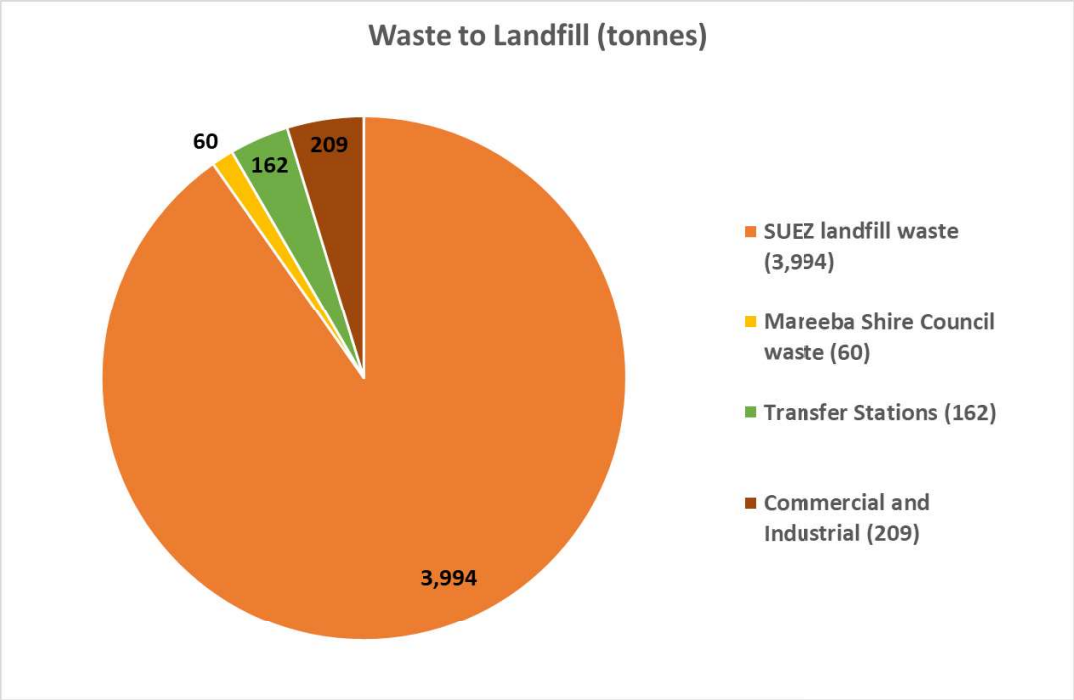






Waste to Mareeba Landfill

Waste directed to Mareeba Landfill is primarily residual waste from the SUEZ Advanced Resource Recovery Facility (ARRF) plant in Cairns, with minor quantities received from the waste transfer stations (Mareeba included), commercial and industrial waste, and waste that Mareeba Shire Council produces from its own activities.

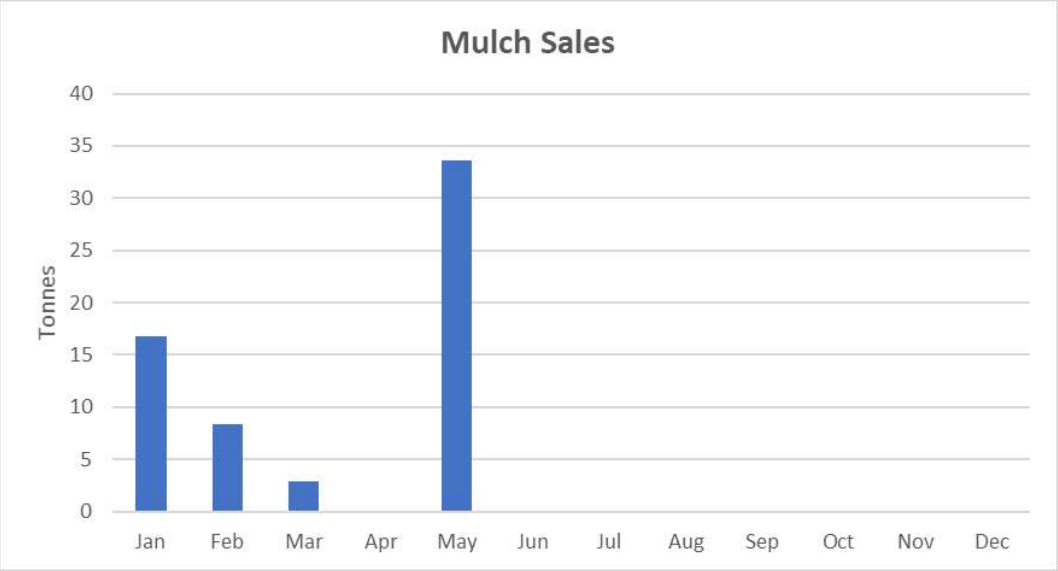


Illegally Dumped Waste

Council received one (1) illegally dumped gas bottle through Mareeba Waste Transfer Station during the month of June.

Green Waste

Council received a total of 213 tonnes of green waste in the month of July. No green waste was mulched and there were no mulch sales.



RISK IMPLICATIONS

Environmental

Council holds an Environmental Authority issued under the *Environmental Protection Act 1994* to operate landfill facilities.

The Environmental Authority major amendment process is underway.

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

Nil

FINANCIAL AND RESOURCE IMPLICATIONS

Capital

Nil

Operating
Nil

LINK TO CORPORATE PLAN

Financial Sustainability: A council that continuously operates in a cost-effective manner while managing council's assets and reserves to ensure a sustainable future.

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Economy and Environment: A resilient economy that promotes and supports the shire's natural assets and local industry and encourages investment while preserving and future proofing for generations to come.

Governance: Sound decision making based on effective frameworks and clear strategic direction to achieve regulatory compliance and affordable levels of service delivered to the community.

9.8 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - JUNE 2021

Date Prepared: **8 July 2021**

Author: **Manager Works**

Attachments: **Nil**

EXECUTIVE SUMMARY

The purpose of this report is to summarise Council's Transport Infrastructure, Parks and Gardens, and Bridge operational activities undertaken by Infrastructure Services during the month of June 2021.

RECOMMENDATION

That Council receives the Infrastructure Services, Works Progress Report for the month of June 2021.

BACKGROUND

Transport Infrastructure

Road Maintenance Activities

Unsealed road maintenance grading continued throughout the shire in June with the following roads being graded.

Area			
Chillagoe	**Almaden**	**Western**	**Eastern**
Aerodrome Road	Lappa-Mt Garnet Road	Fossilbrook Road*	Cowan Road
Cathedral Street	Emuford-Woepen Road	Bolwarra-Torwood Road*	Peters Road
Cemetery Road	Mt Cardwell Road	Blackdown-Bulimba Road*	Adil Road
Eastern Street		Highbury Road	Coyle Road
Frew Street		Drumduff Road	Hume Road
Exchange Road		Junevale Road*	Querin Road
Hospital Avenue		Springfield Road	Rogers Road
Georgetown Road			Rush Road
Smelter Road			Bullock Road
Weir Road			Grigg Road
Reservoir Road			
Zillmanton Road			

* Denotes roads that were started in May and have been on-going

Customer Requests

Since the start of 2021, the Works Group received 1,192 Customer Requests (CRs) with 1,115 of these requests resolved. The table below shows the number of requests lodged per month and the number of requests that were resolved.

Month	CRs Lodged	CRs Resolved
January 2021	269	197
February 2021	202	229
March 2021	195	193
April 2021	191	172
May 2021	167	177
June 2021	168	147
Total	**1192**	**1115**

At the time of reporting, the Works Group had 36 open (unresolved) requests.

Bridges and Major Culverts

In June, the bridge crew completed herbicide spraying that is done in conjunction with the Mareeba area slashing program.

Bridge maintenance and inspections were carried out in the Kuranda, Koah and Speewah areas along with capital works projects on Pin Road and Hodzic Road.

TMR Routine Maintenance Performance Contract (RMPC)

RMPC activities on the Burke Developmental Road included a medium formation grade between Disaster Recovery Funding Arrangements (DRFA) sites from Louisa Creek to Trimble's Crossing and also DRFA sites from Almaden to Chillagoe. Slashing was undertaken between Dimbulah and Almaden and herbicide spraying was completed between Dimbulah and Pump Creek and from Almaden to Old Spring Valley Grid.

In the eastern areas of the shire the remainder of the sign replacement program was completed, the entrance and shoulders to the Lyons Rest Area on the Kennedy Highway were reformed and the approaches to the Edmund Kennedy Bridge were boom slashed. On the Mulligan Highway between Mareeba and Mt Molloy a heavy shoulder grade was undertaken in sections to remove large edge breaks along with culvert inlets and outlets cleaning. On the Mossman-Mt Molloy Road surface drains were cleaned and cleared and slashing was carried out between the Rex Range and Mt Molloy and between Mt Molloy and the Desailly Range.

Parks and Open Spaces

Mareeba Parks and Gardens staff were assisting in capital works during June with the turfing of the surrounds of the refurbished toilet and new playground at Centenary Park and the new toilet at Arnold Park.

The standard activities of mowing, pruning, slashing and hedging continued throughout the month with the unseasonal rain promoting vegetation growth in the eastern parts of the shire.

Land Protection

Electric Ants: Attractant baits were laid in five (5) green waste sites and all ants collected were sent to the Electric Ant Team for identification. No target ants were detected.

Siam Weed: During June, the active sites were all been inspected. Land Protection officers carried out extended surveys of the full length of Back Creek at Petford, Emu Creek below Irvinebank and as far as the Eight Mile Mine, Sandy Creek at Mt Molloy from the Mulligan Highway down to its confluence with Rifle Creek. All plants found were removed, flowers cut off to prevent seed set and their locations marked on to Council's Weed GIS layer. This work was done in conjunction with the landowners and local Biosecurity officers.

Wild dogs: Coordinated baiting has taken place on seven (7) properties on the Lynd and the Tate Rivers These properties form an aggregate of 503,300 hectares.

Feral Pigs: Free feeding followed by the laying of toxic baits has taken place on pastoral properties in the Western area of the Shire.

Rabbits: Traps were loaned to several landowners, poison baits laid and Callisivirus was introduced into rabbit populations around Paddy's Green.

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

COVID-19 impacts in relation to closure and re-opening of facilities will be managed in line with Queensland Government restrictions.

FINANCIAL AND RESOURCE IMPLICATIONS

Operating
All operational works are funded by the section specific 2020/21 maintenance budgets.

LINK TO CORPORATE PLAN

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IMPLEMENTATION/COMMUNICATION

Nil