

9 INFRASTRUCTURE SERVICES

9.1 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - FEBRUARY 2022

Date Prepared: 18 February 2022

Author: Manager Projects

Attachments:

1. [Capital Works Highlights - February 2022](#) ↓
2. [Capital Works Summary - February 2022](#) ↓

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 February 2022.

RECOMMENDATION

That Council receives the Infrastructure Services Capital Works Monthly Report for the month of February 2022.

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 2021/22 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

Nil

Infrastructure Services Capital Works Report Project Highlights - February 2022



Project Name: Kanervo Road - Davies Creek Bridge Replacement

Program: Bridges

Background

A Level 3 engineering inspection and load assessment was undertaken on the Davies Creek bridge on Kanervo Road in 2015 which identified significant deterioration of some of the timber girders and a load limit of 14 tonnes was imposed on the bridge.

In August 2019, Council secured a grant under the Australian Government's Bridges Renewal Program towards upgrade of the existing bridge over Davies Creek on Kanervo Road. The purpose of this project is to restore the bridge to its original intended load limit, extend the life of the structure and provide accessibility for heavy vehicles.

Scope of Works

The scope of works includes replacing the existing timber girders and deck of the bridge over Davies Creek on Kanervo Road with concrete precast deck units and a concrete deck, in addition to strengthening of the existing abutments and pier and piers.

Progress Update

As at the end of February all pier blinding layers have been poured and the pier dowels installed. The four (4) pier extension reinforcement cages were fabricated at the Kowa Street Depot along with the form work. The cages and formwork were transported to site and all pier extensions were poured in late February.

It is proposed that when all work at the site can be performed under traffic is completed, the bridge crew will commence fabrication of the deck and kerb units for the Davies Creek Bridge upgrade on Davies Creek Road.

The intention is that once the wet season has ceased, the crew will return to Kanervo Road and remove the bridge deck and install the new concrete components. During this time, the bridge will be closed, and traffic will be detoured via Koah Road and Bolton Road.

The estimated duration of closure will be dependent on findings once the bridge deck is removed. There is a known potential issue with the western abutment that may require a full rebuild, but this cannot be confirmed until the bridge deck is removed. Should a rebuild be required, there is the potential for the bridge to be closed for up to 12 weeks, weather permitting.

**Infrastructure Services Capital Works Report
Project Highlights - February 2022**



Preparing formwork for pier extension



Pier dowels installed



Pier reinforcement in place



Completed Pier Extension



Infrastructure Services Capital Works Report Project Highlights - February 2022



Project Name: Wolfram Road, Dimbulah - Road Widening Ch 7810 - Ch 8640

Program: Rural Roads

Background

Various sections of Wolfram Road, Dimbulah are single lane bitumen seal and are prone to edge wear and edge drop. Commercial traffic using Wolfram Road has increased from 5.6% in 2008 to 15.4% in 2020. Funding was allocated under the Australian Government's Roads to Recovery program to provide a wider sealed road to improve road safety, provide transport efficiencies and to cater for increased traffic volumes.

Scope of Works

The scope of works includes the widening of Wolfram Road from Ch 7810 to Ch 8640 to a sealed width of 7.5m, the extension of existing culverts to cater for the wider road and the replacement of several existing headwalls and the cleaning and re-shaping of existing table drains and cut-off drains.

Progress Update

During February, the culvert extensions were completed apart from one that was found to be sunken and will require a full excavation prior to extension.

The unsuitable material in the full pavement rehabilitation section has been removed and replaced with geofabric, rock and select fill. Subsoil drains were installed in the failed pavement area to attempt to drain water from the pavement in future.

Cement Treated Base (CTB) was imported and compacted and a seal over this rehabilitated section has been booked for 8 March to minimise potential damage from wet weather whilst the rest of the road project is widened.



Culvert Extension



Select fill layer

Infrastructure Services Capital Works Report Project Highlights - February 2022



Project Name: Park Entrance Sign Renewal

Program: Parks and Gardens

Background

As part of the Parks and Open Spaces Strategy, Council has implemented an annual program to renew old and faded entrance signs at various Council-controlled parks within Mareeba Shire. This year's project has been funded under Phase 2 of the Australian Government's Local Roads and Community Infrastructure Program (LICRP2).

Scope of Works

The scope of work includes the renewal of old and faded park entrance signs at various locations within the region.

Progress Update

The first batch of signs listed in the table below have been installed. Approximately 70% of the budget for this project has been expended and the remaining funds should allow for another six (6) signs to be upgraded this financial year.

Location	Number of Signs
Bartley Park, Kuranda	2
Centenary Park, Kuranda	2
Harris Park, Kuranda	1
Hunter Park, Kuranda	1
Gregory Terrace Park, Kuranda	1
Kuranda Cemetery, Kuranda	1
Ros Common Park, Speewah	1
Alex Lawson Park, Mareeba	1
Sunbird Park, Mareeba	1
Stadhams Park, Mareeba	1

Table 1



Kuranda Cemetery



Roscommon Park



**Infrastructure Services Capital Works Report
Project Highlights - February 2022**



Sunbird Park



Alex Lawson Park



Infrastructure Services Capital Works Report Project Highlights - February 2022



Project Name: Mary Andrews Park, Mareeba - Replace Exercise Equipment

Program: Parks and Gardens

Background

As part of the Parks and Open Spaces Strategy, Council has implemented an annual program to renew aged and damaged exercise equipment in parks throughout the Shire.

The existing exercise equipment at Mary Andrews Park has been replaced with static exercise equipment and new synthetic under surfacing and shock pads. This project has been funded under Phase 2 of the Local Roads and Community Infrastructure Program (LICRP2).

Scope of Works

The scope of work includes the removal and disposal of the existing broken equipment and to supply and install the new static exercise equipment.

Progress Update

Works commenced on-site mid-January and while delayed due to the continuing wet weather, the installation was completed in late February.



Broken equipment



Early installation



Wet weather delays



Completed installation

Infrastructure Services Capital Works Report Project Highlights - February 2022



Project Name: Kuranda - AC Pipe Renewal Water Main Upgrade Project - Barang Street

Program: Water

Background

An allocation has been provided in the 2021/22 Capital Works Program to replace the failed existing asbestos cement (AC) water mains throughout the Shire as part of Council's strategy to address critical water issues across the Shire over the next 10 years.

This section of water main was identified for replacement following the numerous main breaks occurring in the past few years, extreme difficulty for QFES to access fire hydrants that are currently located on undulating terrain conditions at some sections. This project is being undertaken with funding assistance through the Queensland Government's Works for Queensland program.

Scope of Works

The scope of works includes replacement of the existing water main with a mixture of ductile iron 150mm pipe and 150mm PVC Supermain, in addition to new service connections, valving and hydrants.

Progress Update

Works have now been completed with all service connections and water main tie-ins finalised. Road reinstatement and line marking has also been completed.



Road reinstatement over the water main installation

Infrastructure Services Capital Works Report Project Highlights - February 2022



Project Name: AC Pipe Renewal Water Main Upgrade – Mareeba North

Program: Water

Background

An allocation has been provided in the 2021/22 Capital Works Program to replace the failed existing asbestos cement (AC) water mains throughout the Shire as part of Council's strategy to address critical water issues across the Shire over the next 10 years.

This section of water main was identified for replacement following the numerous main breaks occurring in the past few years and will complement works undertaken by Council work crews in 2021. This project is being undertaken with funding assistance through the Queensland Government's Works for Queensland program.

Scope of Works

The scope of work includes replacement of the existing water main with 100mm PVC Supermain, in addition to new service connections, valving and hydrants. The contractor will commence installing new mains along Starcke Street and then move onto Hampe Street. Once these sections are completed, the contractor will then progress to Moody Street where 300mm PVC Supermain will be installed.

Progress Update

Works on Starcke Street have now been completed with the contractor moving to Hampe Street to commence installation of the new water mains. It should also be noted that materials are getting more difficult to obtain and long lead times on flanged fittings and pipe work over 150mm in diameter.



Installations of the new 100mm diameter PVC Supermain water main Starcke Street and under boring from the cemetery entrance under Vaughan Street

Infrastructure Services Capital Works Report Project Highlights - February 2022



Project Name: Buy Back Shop Mareeba Waste Transfer Station

Program: Waste

Background

A new facility is currently under construction to be utilised as a Buy Back Shop at the Mareeba Waste Facility Site located on Vaughan Street, Mareeba.

Development of the Buy Back Shop was recognised as a key action in Council's Waste Management Services Strategy 2018-2027 to support waste reduction and enable circular economy opportunities, and to offset cost increases associated with the State Waste Levy and the closure of Mareeba Landfill. The Buy Back Shop will enable goods to be recovered and made available for purchase by the public, which will reduce valuable materials being sent to landfill.

Scope of Works

The scope of works includes supply and construction of a new shed, carpark and connection to water and power.

Progress Update

The new Buy Back Shop Shed construction now complete with Expressions of Interest for operating of the Buy Back Shop being invited released early March.



Newly constructed Buy Back Shop Shed

Infrastructure Services Capital Works Report Project Highlights - February 2022



Project Name: Granite Creek Sewage Pump Station Upgrade

Program: Wastewater

Background

An allocation has been provided in the 2021/22 Capital Works Program to renew and upgrade the Granite Creek Sewage Pump Station, located on Byrnes Street, adjacent to Granite Creek. The ageing infrastructure is rapidly deteriorating and reaching capacity, is inadequate to achieve current safety standards for servicing and maintaining the asset, and there have been numerous odour complaints about the pump station in its present form.

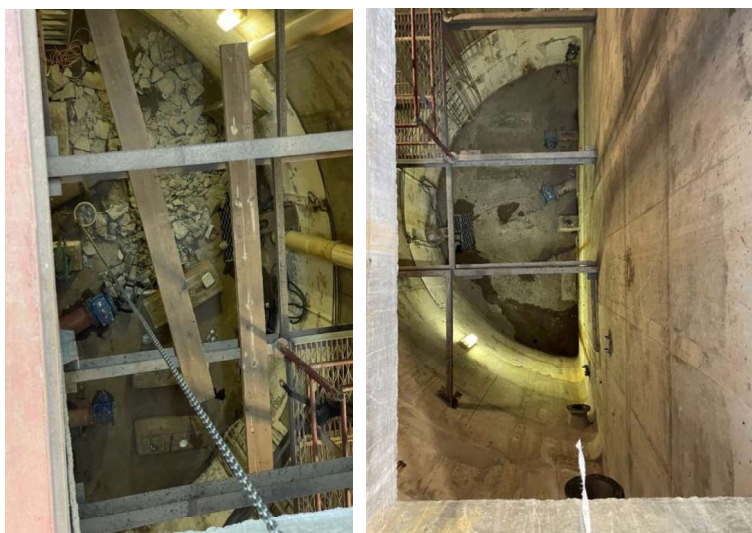
The upgraded pump station will meet current design standards and cater for future growth in the catchment area, which includes all sewered areas of the Mareeba township south of Granite Creek.

Scope of Works

The scope of works includes removal of the existing pump station building, pumps, pipework and associated services, and construction of a new dry well, supply and installation of new pumps, pipework, valves and switchboard. Wastewater will need to be bypassed during construction and the scope of works includes provision of a temporary aboveground bypass system and standby pump for the duration of the project.

Progress Update

Works to strip out the existing pump station now completed with the internal walls of the pump station to be re-coated with a membrane sealant to extend the life of the pump station internal walls. Demolition of the upper structure being delayed due to high ground water table due to recent and ongoing rain.



Stripping out the existing and old pump well internal walls, pipe work and associated fittings

Infrastructure Services Capital Works Report Project Highlights - February 2022



Project Name: The Hub Gravity Sewer Main

Program: Wastewater

Background

An allocation has been provided in the 2021/22 Capital Works Program for the installation of a new gravity sewer main and connecting the Cedric Davies Community Hub to the Lifestyle Sewerage Pump Station. The Hub was previously connected to a private pump station shared with QT's Early Learning Centre, which was exceeding capacity as a result of the relocation of the library and construction of the new Bowls Club.

Scope of Works

The scope of works includes the installation of 150mm PVC gravity sewer main which will then be connected the Cedric Davies Community Hub.

Progress Update

Construction commenced in January 2022 however rain has interrupted the scheduled works program which was due for completion end of February. Works will be completed by 11 March, weather permitting, with car park bitumen sealing scheduled for Friday 11 March.



Installations of the new gravity sewer main and manholes



Infrastructure Services Capital Works Summary Report - February 2022

Project Description	Project Stage	Progress Comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)		
2021/22 Reseal & Asphalt Program	Construction	Prestart meeting with Pioneer NQ 8 March 2022. Reseals to commence shortly afterwards, weather pending.
Betterment Co-Contribution	Not Commenced	Funding set aside for potential projects arising from potential 2021/22 DRFA events and as complimentary expenditure for Approved REPA projects to ensure 'value for money' outcomes are achieved.
Program: 02 Gravel Resheet		
2021/22 Gravel Resheet Program	Construction	A short section of unsealed road at the southern end of Martin Avenue is programmed to be resheeted in conjunction with the yearly maintenance grading program. This section of Martin Avenue requires "topping up" to lift the running surface above the table drain.
Program: 03 Urban Streets		
R2R Reynolds Street, Mareeba - Replace Kerb and Channel	Procurement	Procurement complete. Project programmed for late April, weather permitting.
Program: 04 Rural Roads		
TIDS Euluma Creek Road, Julatten Ch 5.565-6.343 Rehabilitate and Widen	Close Out	Project complete and claimed February 2022.
TIDS Euluma Creek Road, Julatten Ch 7.01-9.325 Rehabilitate & Widen 3 sections within chainage	Construction	Project suspended due to wet weather.
TIDS Euluma Creek Road, Julatten Ch 9.350-10.130 Rehabilitate & widen 3 sections within chainage	Design	Funding no longer split over two (2) financial years. Project will be delivered as part of 2022/23 Capital Works Program.
R2R Wolfram Road, Dimbulah Priority Sections Stage 2	Construction	Culvert extensions complete. Full rehabilitation of 210m of pavement complete to finished level and will be sealed early March, weather permitting. Widening of the remainder of the road will commence first week of March.
R2R Palm Valley Road, Koah - Widen and Seal Ch 0.00-1.30	Completed	Project complete February 2022.
Borzi Road, Mareeba - Widen and Seal Ch 0.03-0.67	Design	Project in design phase.
DRFA Betterment 2019 - Clacherty Rd, Shanty Ck Rd & Fossilbrook Rd	Construction	Fossilbrook Causeway has reached Practical Completion, minor works to establish rock protection required prior to closing project. Wet weather delays have occurred, works targeted for completion post-wet season, May 2022.
Fallon Road, Kuranda - Rehabilitate Pavement Ch 0.874 - 0.948	Planning	QRA approved remediation works to be quoted and completed in the 2022 calendar year.
Program: 05 Bridges		
BRP Kanervo Road, Replace Timber Bridge over Davies Creek	Construction	All pier extensions complete. Crew will complete all activities that can be carried out under traffic and then return to site when the wet season has ended to remove the bridge deck and do abutment renewals and deck replacement. Officers have concerns that if the bridge deck is removed now, residents may become flooded in as alternate route is via Bolton Road bridge which can go underwater for up to a week.
BRP Davies Creek Road Bridge Replacement	Procurement	Steel order is taking a long time to be filled. Works intend to fabricate the deck and kerb units in March/April (depending on steel supply).
Granite Creek, Mareeba - Replace Footbridge Deck (Eales Park)	Design	Project in design phase.
Palm Close, Mareeba - Replace Footbridge Boards	Design	Project in design phase.
Bicentennial Lakes Footbridge Safety Upgrade	Design	Project in design phase.
Program: 06 Drainage		
2021/22 Minor Culvert and Causeways Renewal	Construction	Waiting on designs for Leafgold Weir Road and Mclver Rd culvert installations.
Amaroo Mareeba - Drainage Upgrade Stage 2 of 3 - Karobean Drive to Yarabee Close (300m)	Design	Project in design phase.
Program: 08 Parking		
Borzi Park, Mareeba - Carparking Masterplan	Planning	Scoping out potential options, investigations and concept layouts to be developed for consideration March 2022.
Program: 09 Footpaths		
2021/22 Footpath Renewal Program	Procurement	Quotations called for the extension of the Rankin Street footpath to the intersection of Rankin and Constance Street and then down to the pedestrian gate of the theatre group building in Constance Street.

Infrastructure Services Capital Works Summary Report - February 2022

Project Description	Project Stage	Progress Comment
Rankin Street, Mareeba - Footpath Renewal (Chewko - Byrnes)	Close Out	Project complete January 2022.
Program: 10 Parks and Gardens		
Parks & Open Spaces Strategy	Completed	Parks and Open Spaces Strategy and 3 year action plan adopted by Council in February 2022. Refer attached report for progress updates on individual projects.
Program: 11 Water		
Mareeba and Kuranda Water Treatment Plant - Staged start-up of raw water pumps upgrade	Design	Propose to seek grant funding for this delivery of project.
Mareeba Water Treatment Plant - Filter 3 Install dedicated backwash pumps and reconfigure wash water feed pipes	Not Commenced	Project on hold pending outcome of BOR grant application for new filter block.
Mareeba Water Treatment Plant - Optimise clarifier performance upgrade	Design	Report on project received from City Water Technology with recommendations for further works.
Mareeba Water Treatment Plant - Backwash operation renewal	Not Commenced	Project pending outcome of grant application for new filter block. Working with City Water Technology for the implementation of this project, in conjunction with the new backwash system they are designing if grant funding is not successful.
Chillagoe Bore and Water Main Construction	Construction	Ergon have advised they should have the power connection established by 20 March with wet commissioning to follow.
Warril Drive, Kuranda - Water Main Replacement	Construction	Checking with contractor on outstanding orders before closing out.
W4Q4 Barang Street, Kuranda - Water Main Upgrade	Construction	Works completed except for some of the road reinstatement which has been delayed several times due to inclement weather.
W4Q4 Mareeba AC & Defunct Pipe Replacement 2.5km	Construction	Work is progressing well, Starcke Street completed along with the underbores. Contractor will now progress to Hampe Street. They are still awaiting delivery of the 300mm pipe for Moody Street.
2021/22 Water Telemetry/SCADA Upgrades	Procurement	Procuring new server grade PC's. Once these arrive the upgrading of the sites to the new version of Citect can commence.
2021/22 Valve Replacement Program (Reticulation)	Construction	Works progressing with more materials on order to allow continuation of works.
Mareeba WTP Study and potential upgrade of wastewater system to improve supernatant quality	Planning	This project will be delayed due to ongoing lockdowns in NSW affecting the ability of City Water Technology to perform their work.
Mareeba Water Treatment Plant Filtration Upgrade	Not Commenced	Project on hold pending outcome of BOR grant application for new filter block.
Chillagoe Water Treatment Plant Filter Cell	Completed	Works completed February 2022.
Program: 12 Wastewater		
Mareeba Wastewater Treatment Plant - Aeration diffusers replacement (every 5 years)	Construction	Equipment has arrived and arrangements will be made for installation in 2022 after wet season.
Kuranda Wastewater Treatment Plant - Replace Sludge Conveyor Belts	Procurement	Original supplier has advised they are too busy to manufacture a new belt, and alternate supplier has been sourced.
Telemetry/SCADA Upgrades	Procurement	Procuring new server grade PC's. Once these arrive the upgrading of the sites to the new version of Citect can commence.
New Sewer Pump Station Standby Generators x2	Procurement	The supplier has advised that new generators should arrive by March 2022.
2021/22 Mareeba Sewer CCTV & Relining Program	Construction	Relining Solutions have several crews working in Mareeba at present and project works are on schedule.
2021/22 Mareeba Wastewater Treatment Plant Component Renewals	Procurement	Installation and replacement of equipment scheduled from March to June.
Granite Creek, Mareeba Sewerage Pump Station Refurbishment	Construction	Project progressing well despite some inclement weather delays.
2021/22 Mareeba Pump Station Magflow Install Program	Procurement	New flow meters on order with long lead times on delivery.
2021/22 Mareeba Wastewater Reticulation Pump Renewal	Construction	Currently assessing which further pumps require replacement, with one pump being replaced to date and following scheduled servicing in May a final decision will be made on which pump/pumps are to be replaced.

Infrastructure Services Capital Works Summary Report February 2022

Project Description	Project Stage	Progress Comment
Minor Sewerage Pump Stations H2S protection and refurbishment.	Construction	Project progressing well despite some inclement weather delays.
Mareeba Gravity Sewer Main installation from Cedric Davies to Lifestyle Sewerage Pump Station	Construction	Works progressing well despite rain interruptions, site will be cleaned up and completed mid-March, weather permitting.
Program: 13 Waste		
Mareeba Waste Facility Weighbridge Data Recording System	Completed	New PC's and software installed and running well with some minor teething problems which are being resolved by March.
Kuranda Waste Transfer Station Weighbridge & Gatehouse	Construction	Weighbridge working well, some minor works being completed over the coming weeks.
Mareeba Waste Facility - Buy Back Shop Construction	Construction	Construction works on new shed completed, the Indent survey works and works being done to address tenure of road access to the WTS which State Government required as part of DA process.
Mareeba Waste Facility - Design for New Landfill Cells	Procurement	New cell design underway, consultant working in conjunction with Council officers and design expected to be completed by early to mid-2022.
Program: 15 Fleet		
GPS Vehicle Management System	Planning	Potential system and fleet to be fitted under assessment.
Replace Unit 5432 Sewerage Jet Rodder trailer with a hydro vac truck	Procurement	Monitoring auctions and will procure when suitable plant identified.
Fleet Replacement #1336 - LLOs Dual Cab Ute	Procurement	Purchase Order raised 10 September 2021; anticipated delivery March 2022.
Fleet Replace #676 Civil Works Truck	Procurement	Purchase Order raised 4 August 2021; anticipated delivery is April 2022. Truck is currently having the body fabricated.
Fleet Replacement #1317 - Western Roads Landcruiser	Procurement	Purchase Order raised 4 August 2022, anticipated delivery June 2022. Severe delivery delays due to COVID and production shortages.
Fleet Replacement #509 Backhoe	Procurement	Purchase Order raised 19 August 2021, anticipated delivery April/May 2022. Supplier notified council of delays due to SEQ floods.
Fleet Replacement #4053 - Husqvarna Zero Turn	Procurement	Purchase Order raised 26 October 2021; anticipated delivery March 2022.
Fleet Refurbishment #400 - Cat Excavator (Track) (Refurbishment of track grouser plates and track drive motor)	Procurement	Purchase Order raised December 2021; waiting parts, anticipated delivery April 2022.
Fleet Refurbishment Truck Mounted Water Tank	Planning	Works postponed due to private contractor's unavailability to undertake the work. Assessing option for replacement of truck and water tank with a purpose-built water truck in lieu of refurbishment of existing tank.
Program: 16 Depots and Council Offices		
Kowa Street, MSC Depot - Air conditioning Replacement	Completed	Completed February 2022.
Rankin Street, MSC Admin Office Refurbishment	Construction	Contractor engaged with delivery of works contingent on material supplies. Remains on track for completion prior 30 June 2022.
Kowa Street, MSC Depot - Emergency Generator	Planning	Investigations into existing services completed, engagement of specialist consultant to complete the design, schematics and schedules to be progressed March 2022.
Program: 17 Community Buildings		
Koah Tennis Court - Remove/replace the unstable timber light poles (with metal poles and caged footings within concrete)	Procurement	Quotations called, project to be completed May/June 2022, following wet season.
Dimbulah / Mareeba / Kuranda Pools Chlorine Dosing Improvements	Procurement	Scope of works being finalised and quotes sourced. Anticipate works commencing after wet season, May 2022.
Mareeba Leagues Club Grandstand Refurbishment	Procurement	Request for Quotations underway with works to be completed May/June 2022 after wet season.
Mareeba PCYC Shire Hall Part Roof Replacement (Partial roof replacement)	Procurement	Request for Quotations underway, with works to be completed May/June 2022 after wet season.
2021/22 Shire-wide Ablution Refurbishment Program	Construction	Mt Molloy septic refurb completed January 2022. Dimbulah toilets to be completed by end of March.
Program: 18 Non-Infrastructure Items		
Kuranda New Cemetery	Planning	Cemetery concept plan being presented to Council in March 2022.

Infrastructure Services Capital Works Summary Report - February 2022

Project Description	Project Stage	Progress Comment
DRFA Flood Warning Infrastructure Network MbaSC.0016.1819E.FWI - River Gauge (Biboohra)	Procurement	Construction to commence 22 April 2022.
DRFA Flood Warning Infrastructure Network MbaSC.0018.1819E.FWI - Rain Gauge (7 locations)	Procurement	Construction to commence 22 April 2022.
Program: 20 KIAC		
KIAC - New Wayfinding Signage	Construction	Arrangements made for defective signage to be sent back to fabricator in February for rectification. Delays expected as supplier is based in northern NSW and impacted by flooding.

9.4 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - FEBRUARY 2022

Date Prepared: 18 February 2022
Author: Manager Technical Services
Attachments: Nil

EXECUTIVE SUMMARY

The purpose of this report is to outline Council's Fleet, Design, Soils Lab, Survey, Quality, GIS, Project Management, Facilities and Investigation Services activities undertaken by Infrastructure Services during the month of February 2022.

RECOMMENDATION

That Council receives the Infrastructure Services, Technical Services Operations Report for February 2022.

BACKGROUND

Technical Services

Design, quality and investigations:

Investigation activities undertaken in February included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	62	30
Drainage Investigations	19	4
NHVR Permit Applications	0	16
Aerodrome Investigations	1	0
Traffic Count Surveys	0	1
Parks Investigations	2	3
Dial Before You Dig Requests	0	99

Soil Laboratory:

Council's Soil Laboratory provides NATA-accredited soil and material testing for internal and external services. The laboratory was closed for most of February with staff on leave.

Supplier	No. of Tests
Internal	31
External	18

Asset Inspections:

Scheduled inspections of Council's transport infrastructure assets have been undertaken during the month of February. Field inspections were directed towards roads, kerb and channel and gates and grids within the shire. In addition to field inspections, work was completed towards improving data collected for the water, sewerage, roads underground stormwater and kerbs.

Inspection Type	No. of inspections
Roads	60
Kerb and Channel	283
Subtotal	343

Inspections planned for March will continue to focus on the kerb and channelling, underground stormwater network as well as inspection of Council roads and other transport infrastructure.

Operational Works and Subdivisions

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

Locality	Subdivisions Name	Status
Mareeba	Amaroo Stage 12	Under construction
Koah	123 Fantin Road (Two Chain Road)	On-maintenance
Mareeba	Kenneally Estate Stage 4	On-maintenance
Mareeba	The Edge Stage 3	On-maintenance
Mareeba	Amaroo Stage 11	On-maintenance
Mareeba	Mareeba Roadhouse and Accommodation Park, Williams Close	On-maintenance -Monitoring
Kuranda	72 - 76 Mason Road Stage 1	On-maintenance
Kuranda	112 Barnwell Road widening	Monitoring

Disaster Recovery Funding Arrangements (DRFA)

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
2022 DRFA	Mareeba Shire activated DRFA assistance measures linked Far North Queensland Low Pressure Trough, that occurred 1 – 7 February 2022. Council has commenced assessment of damage, emergency repairs and immediate restoration of impacted roads throughout the Shire. A consultant will be engaged to assist with delivery of the 2022 DRFA Program in the coming months.
2021 DRFA Program General	Mareeba Shire activated DRFA assistance measures linked to Tropical Cyclone Imogen and associated low pressure system that occurred 2 – 12 January 2021. A consultant has been engaged to assist with delivery of the 2021 DRFA Program. Betterment projects are to be identified and submitted in future funding rounds.
2021 DRFA REPA Program	Council at its Ordinary Meeting, 15 December 2021, endorsed award of the REPA Contracts on condition of endorsement by QRA. Works have commenced on the Dimbulah Package of Sites, with the Western and Mid-Western Contracts to commence in the near term.

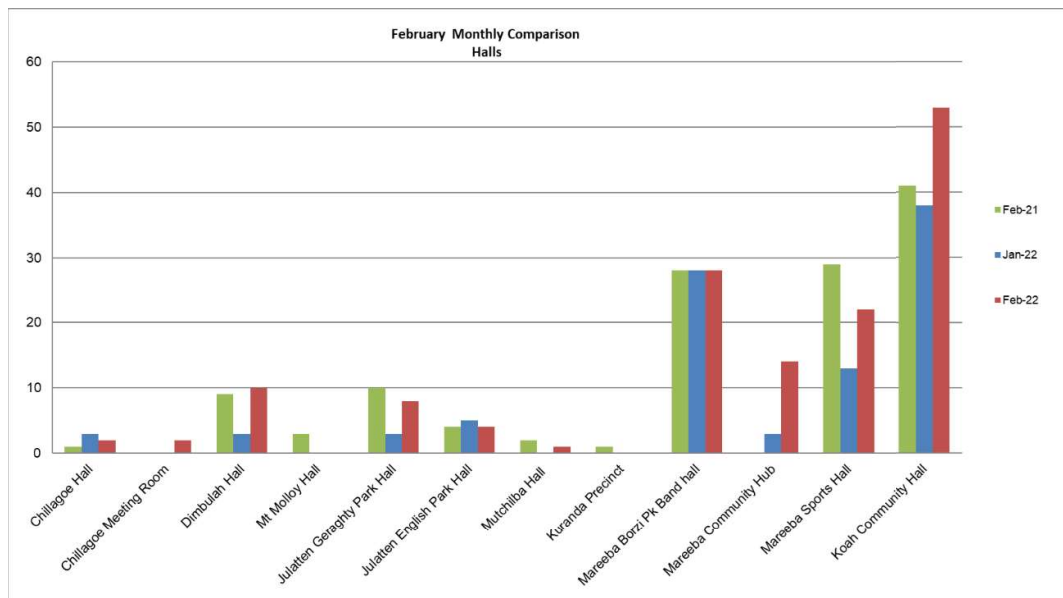
Program	Status
2019 DRFA	Gamboola Crossing remains the only site not yet completed. Commencement occurred in late October however rainfall within the Mitchell River Catchment has required demobilisation from site. Works will be recommenced as soon as access to the site is available.
2019 Betterment	Fossilbrook Crossing remains the only outstanding site which was delayed due to wet weather. The crossing has reached practical completion, however minor works remain.

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.

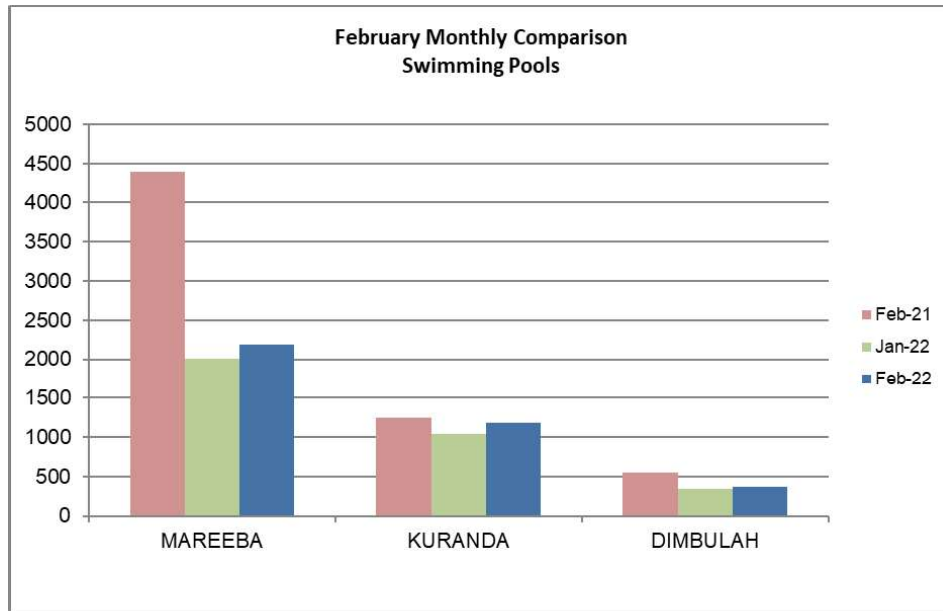
February hall hires have generally increased. Small community groups and clubs are returning to the halls and recommencing their activities.



Swimming Pools

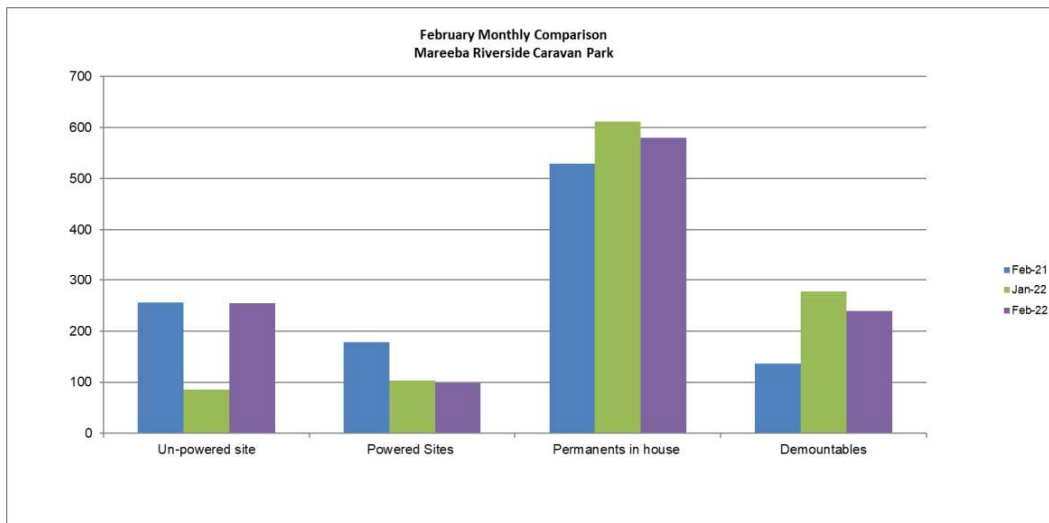
All Pools were open to the public with the new Managing Lessee undertaking a ground-up review of practices at all facilities, which has resulted in a number of proposed changes, including gate entry practices at all facilities.

Utilisation of the pools for February have slightly increased. Learn to swim and squad numbers are increasing and is potentially aligned with the return to school.

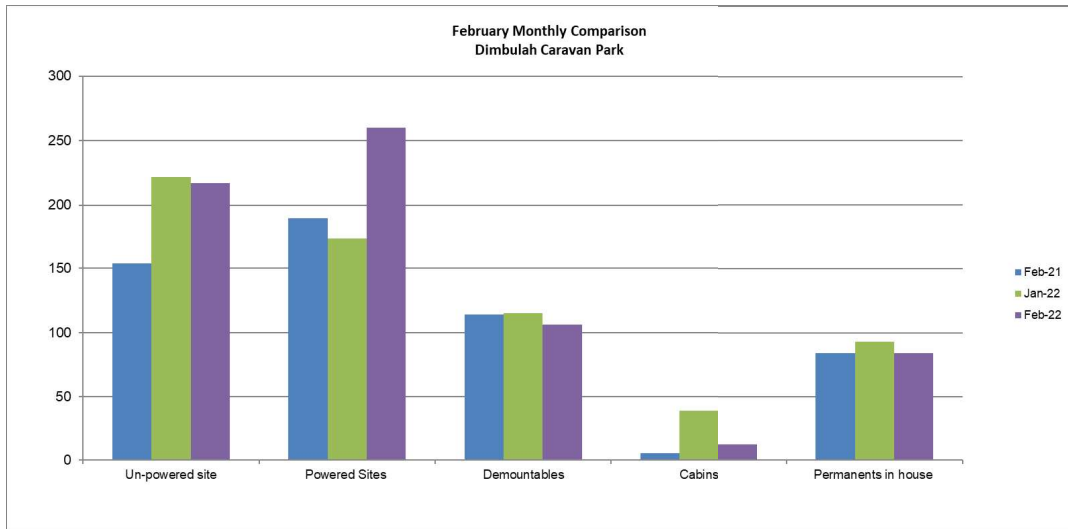


Caravan Parks:

Mareeba Riverside Caravan Park has seen a slight overall increase from the previous month, with seasonal workers starting to return to the area.



Dimbulah Caravan Parks overall utilisation has increased compared to both the previous month and corresponding period from the previous year.



Vandalism & Graffiti:

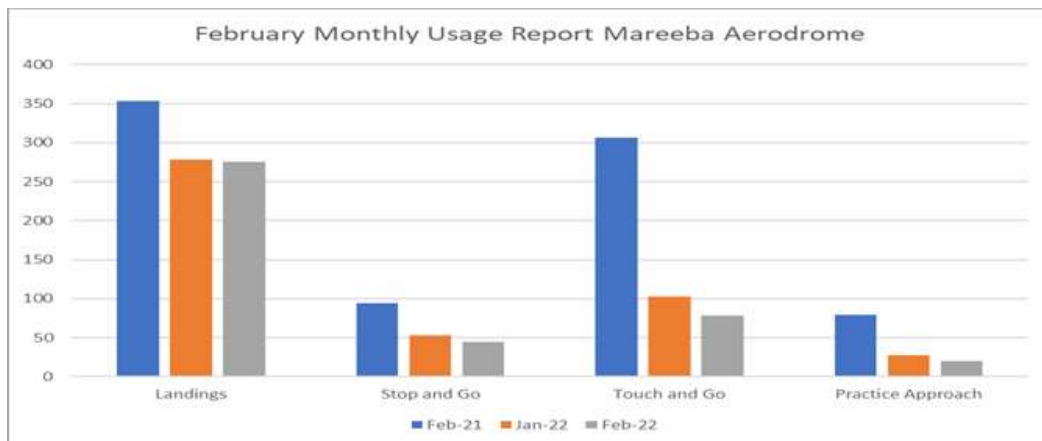
During February, 16 reports of vandalism/graffiti were recorded for Council facilities, with annual costs provided below;

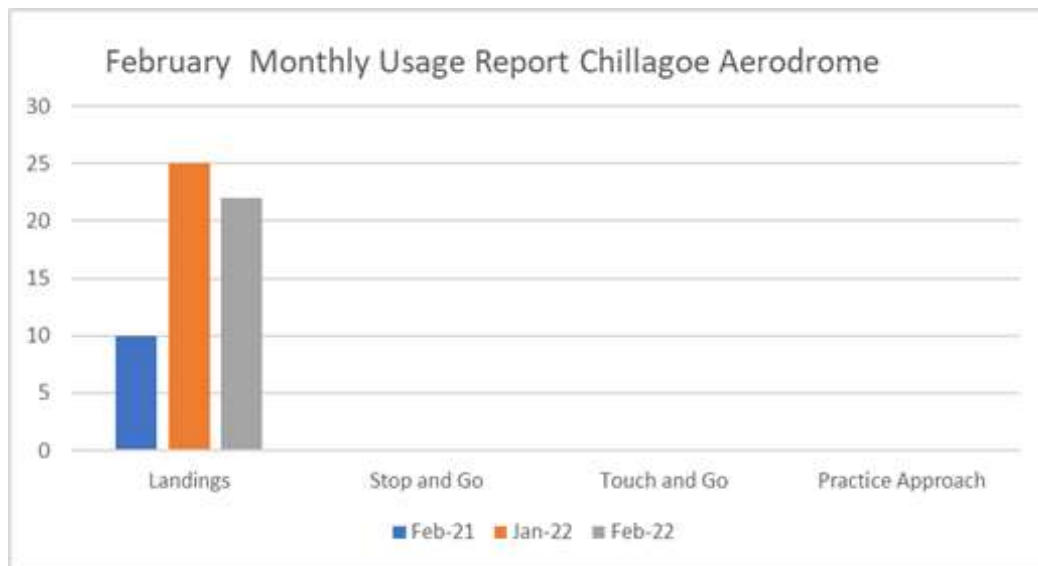
Financial Year	Actuals	Comments
2015/16	\$ 2,134.00	• Mareeba CWA Toilets/restroom - vandalism and graffiti x 8
2016/17	\$ 16,546.00	• Mareeba PCYC - vandalism x 1
2017/18	\$ 23,948.00	• Mareeba Arnold Park toilets - vandalism x 2
2018/19	\$ 14,851.00	• Mareeba Rankin Street Office - vandalism x 1
2019/20	\$ 14,211.18	• Mareeba Barron River toilets - vandalism x 1
2020/21	\$ 62,199.62	• Chillagoe tennis Courts - vandalism x 1
2021/22	\$30,825.08	• Mareeba Firth Park - graffiti and vandalism x 1 • Kuranda Visitors Info Centre - graffiti x 1

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

Aerodromes

Mareeba Aerodrome recorded a reduction in activity for January, potentially owing to inclement weather conditions. Chillagoe Aerodrome has only minor activity recorded for the period.





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

Programs are being delivered in line with expectations, a small surplus across the portfolio is anticipated.

Operating

Additional cost 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.

Council’s replacement Backhoe is currently located in a flood affected region of Brisbane.

9.8 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - FEBRUARY 2022

Date Prepared: 18 February 2022
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 February 2022.

RECOMMENDATION

That Council receives the Infrastructure Services, Water and Waste Operations Report for February 2022.

BACKGROUND

Water and Wastewater Treatment:

All treatment plants are performing satisfactorily. Water demand was varied across all schemes with rainfall in some catchments resulting in slightly lower consumption per connection compared to the previous month.

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)	5,659	802	266	195	58
Number of Connections	4,385	982	157	272	137
Average daily water consumption per connection (L)	1,291	817	1,694	717	513

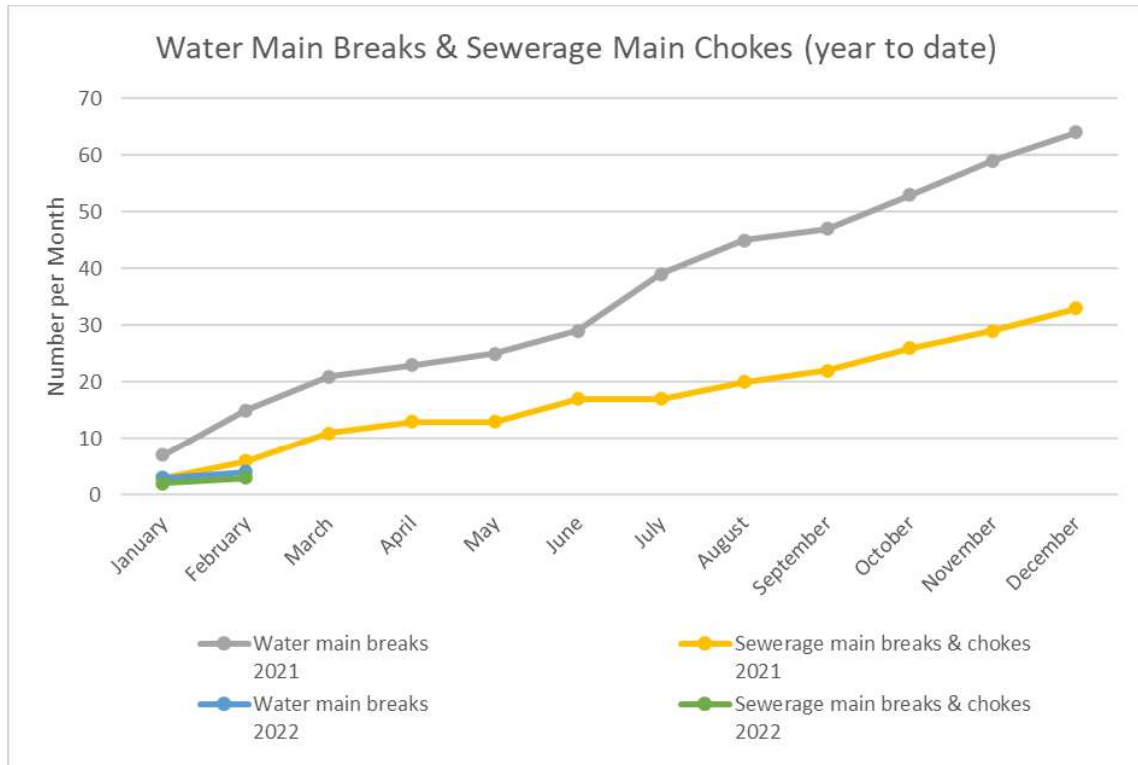
** Mt Molloy is an untreated, non-potable water supply*

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	4,690	234
Number of Connections	3,424	346
Average daily inflow per connection (L)	1,370	676

Water and Wastewater Reticulation:

Council's water reticulation crew attended to four (4) water main breaks and three (3) 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:

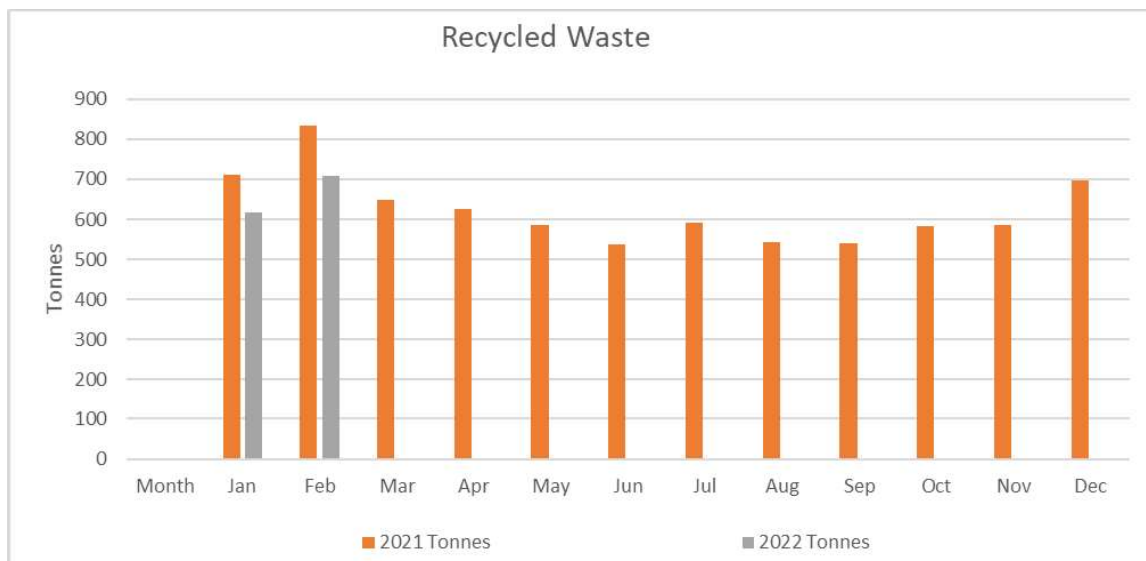


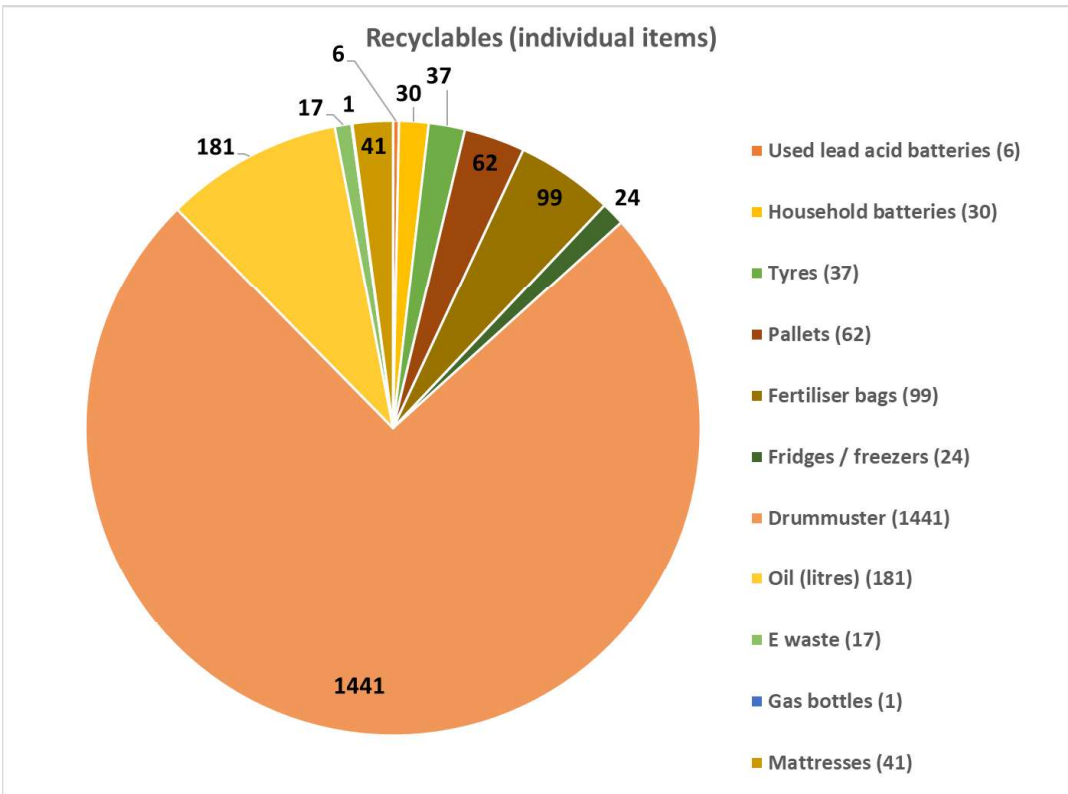
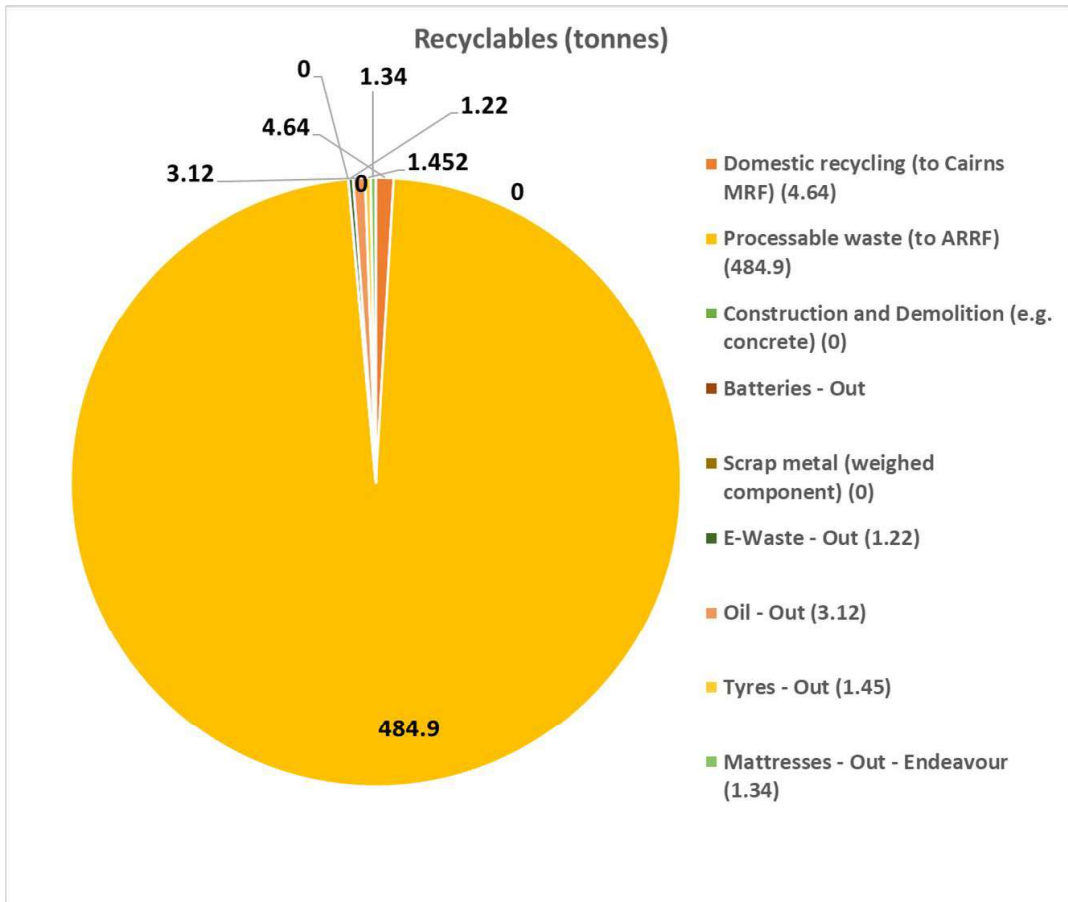
Waste Operations:

All transfer stations are currently operational. New iWeigh software has been implemented in the Kuranda and Mareeba Transfer Stations and waiting arrival of new tablets for the other transfer stations.

Recycling

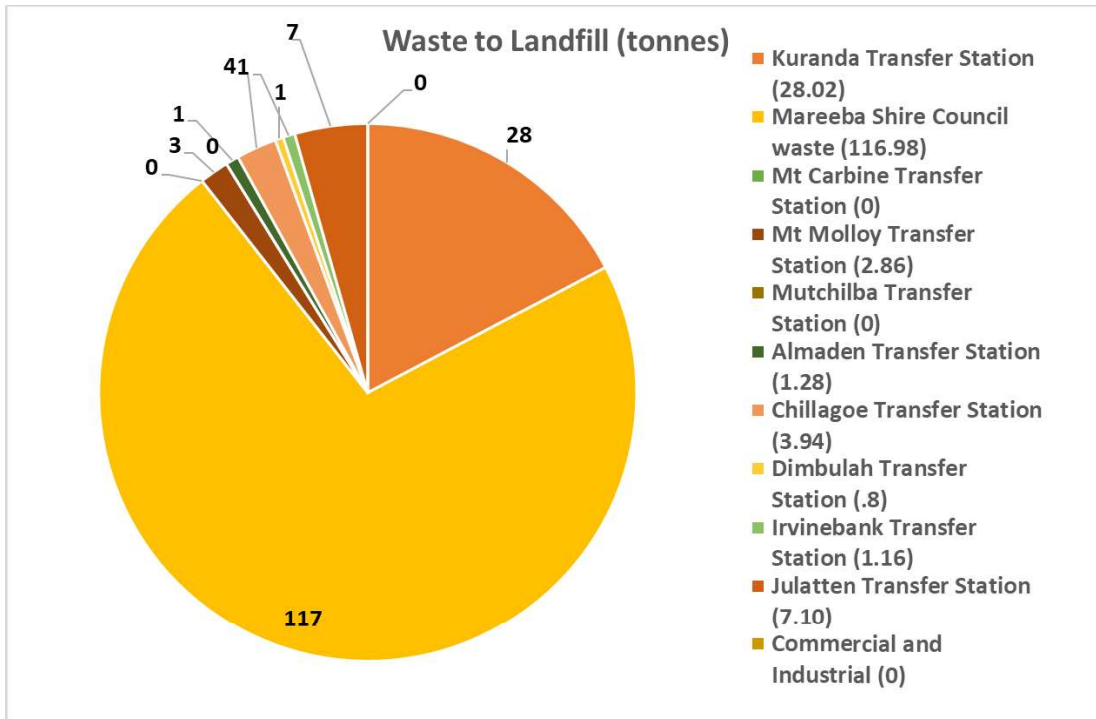
Waste material collected at each of the waste transfer stations are either deposited directly to the Springmount Waste Facility, recycled or transported to the SUEZ Advanced Resource Recovery Facility (ARRF) in Cairns for processing.





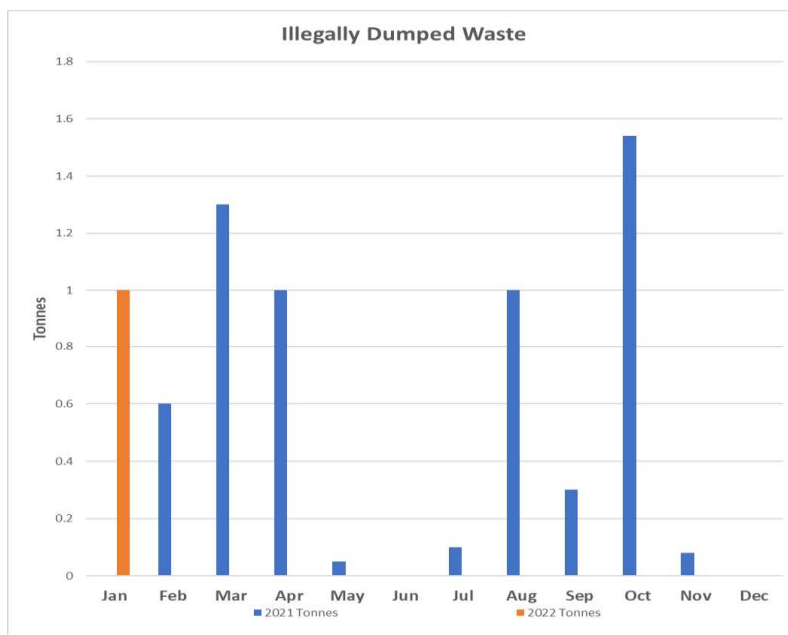
Waste to Mareeba Landfill

Mareeba Landfill is no longer receiving residual waste from the SUEZ Advanced Resource Recovery Facility (ARRF) plant in Cairns. Landfill waste in February was transported off site to the Springmount Waste Facility includes 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.



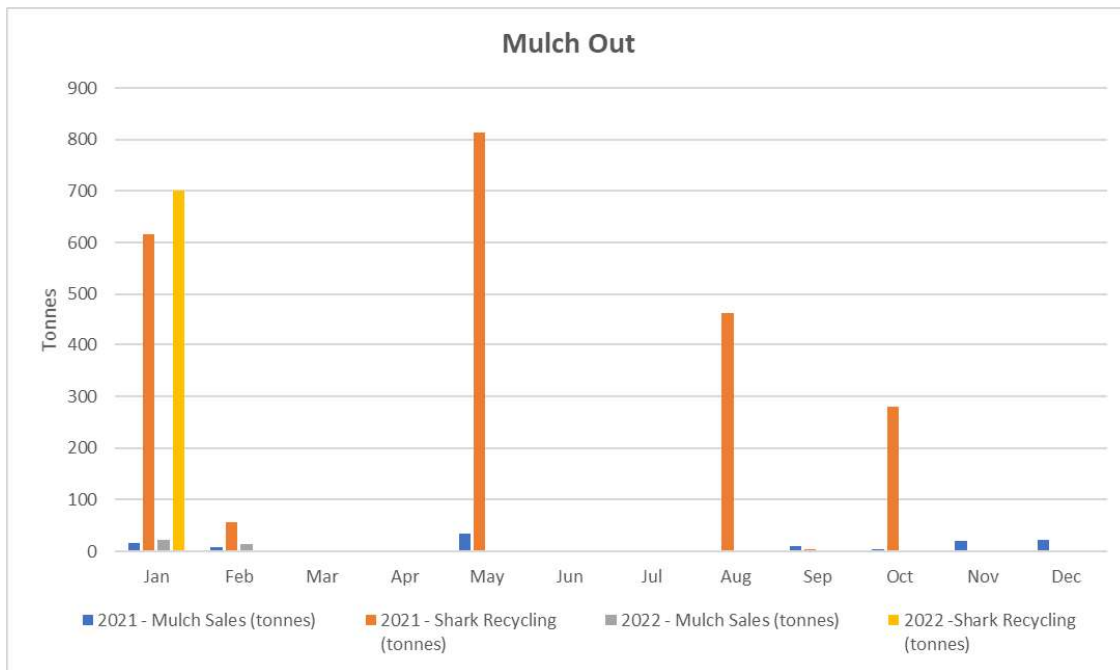
Illegally Dumped Waste

No illegally dumped waste was recorded through Mareeba Waste Transfer Station during the month of February.



Green Waste

Council received a total of 495 tonnes of green waste in the month of February. Green waste was last mulched in mid-January and will again be mulched late March.



RISK IMPLICATIONS

Environmental

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

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

Nil

FINANCIAL AND RESOURCE IMPLICATIONS***Capital***

Nil

Operating

Nil

LINK TO CORPORATE PLAN

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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.

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 while delivering affordable levels of identified services within the Shire.

IMPLEMENTATION/COMMUNICATION

Nil

9.9 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - FEBRUARY 2022

Date Prepared: 7 March 2022
Author: Manager Works
Attachments: Nil

EXECUTIVE SUMMARY

The purpose of this report is to summarise Council's Transport Infrastructure, Parks and Gardens, Bridge Maintenance, RMPC and Land Protection operational activities undertaken by Infrastructure Services during the month of February 2022.

RECOMMENDATION

That That Council receives the Infrastructure Services, Works Progress Report for the month of February 2022.

BACKGROUND

Transport Infrastructure

Road Maintenance Activities

Wet weather has impacted Council's Unsealed Road Maintenance Program. The crew is currently in the Mt Molloy area but is unable to grade to program due to the wet conditions on a number of roads. The crew will continue to grade where possible but there will be sections of unsealed roads that will require further treatment later in the year. Earlier in February, the grading crew was tasked with trimming high shoulders and building up edge drops on local roads in preparation for the upcoming reseal program that will commence mid-March weather permitting.

Additionally, crews have been carrying out emergency repairs to roads across the Shire, particularly in the Irvinebank /Watsonville and Arriga areas. Mareeba Shire Council were advised on 24 February that the Minister for Fire and Emergency Services approved activation of the jointly funded Commonwealth /State Disaster Recovery Funding Arrangements (DRFA) for the "Far North Queensland Low Pressure Trough, 1 -7 February 2022".

Officers have been inspecting both state controlled and local roads within the shire to document any damage and check on road safety and accessibility.

Customer Requests

During the month of February, the Works Group received 174 Customer Requests (CRs) with 226 resolved (resolved requests include those received prior to February 2022). The table below shows the number of requests lodged per Works section for the month.

Month	Roads	Parks and Gardens	Pest Management
February	131	36	7

At the time of reporting, the Works Group had 75 open (unresolved) requests.

Bridges and Major Culverts

Maintenance and inspections were carried out on the following bridges, causeways and major culverts during the month of February.

Location	Area	Structure
Davies Creek Road	Mareeba	Causeway
Carmen Road	Paddy's Green	Causeway
Chapmans Road	Julatten	Major Culvert
Kelly Road	Speewah	Major Culvert
Springmount Road	Mutchilba	Major Culvert
Sandy Creek Road	Dimbulah	Major Culvert
Rankin Street	Mareeba	Major Culvert
Boonmoo Road	Dimbulah	Major Culvert
Ganyan Drive	Speewah	Major Culvert
Keeble Street	Mareeba	Major Culvert
Springmount Road	Mutchilba	Major Culvert
No Name Road	Koah	Bridge
Davies Creek Road	Mareeba	Causeway
Henry Hannam Drive	Mareeba	Causeway
Malone Road	Mareeba	Major Culvert
Wolfram Road	Dimbulah	Major Culvert
Wolfram Road	Dimbulah	Major Culvert
Boonmoo Road	Dimbulah	Major Culvert
Trimble Road	Mareeba	Causeway
Boonmoo Road	Dimbulah	Major Culvert
Jeffrey Road	Kuranda	Bridge
Springmount Road	Mutchilba	Bridge
Davies Creek Road	Mareeba	Causeway
Schincariol Road	Dimbulah	Major Culvert
Carr Road	Julatten	Major Culvert
Stoney Creek Road	Speewah	Bridge
Little Road	Kuranda	Bridge
Myola Road	Kuranda	Bridge
Price Creek Road	Mutchilba	Major Culvert
Speewah Road	Speewah	Bridge
Ganyan Drive	Speewah	Major Culvert
Mclver Road	Mareeba	Causeway

TMR Routine Maintenance Performance Contract (RMPC)

As a result of the DRFA activation, emergency repair works have commenced on the Herberton-Petford Road and the Burke Developmental Road.

Slashing was completed between Dimbulah and Eureka Creek on the Burke Developmental Road.

Over 100m² of pavement repairs and pothole patching have been attended to on the Mulligan Highway between Mareeba and Mt Molloy and Mt Molloy and Mt Carbine. Herbicide spraying was completed on the Mulligan Highway and Mossman-Mt Molloy Road. The 2021/22 sign replacement program continued on the Mareeba-Dimbulah Road, Mossman-Mt Molloy and the Mulligan Highway replacing signage over 10 years of age. Tree trimming was undertaken on overhanging branches the Kennedy Highway and the Mareeba Connection Road.

Parks and Open Spaces

Mowing and brush cutting were again the predominant activities undertaken by Parks and Gardens staff during February. Parks and Gardens have engaged the services of slashing and mowing contractors on a limited basis in line with budget constraints to try and keep up with the workload.

Coupled with this increased workload, the Parks and Gardens operation has not had the services of four (4) low security prisoners from the Lotus Glen Correctional Facility who assist staff at the Mareeba Cemetery each Tuesday, Wednesday and Thursday. These additional workers went into COVID-19 lockdown at Lotus Glen Correctional Facility just prior to Christmas and are yet to return. Temporary labour hire engagement of one (1) additional person to assist at the Mareeba Cemetery for the next month has been arranged.

Other points of note for the Parks and Gardens Section during February are:

- Five (5) burials
- The completion of the replacement static exercise equipment at Mary Andrews Park (capital project)
- The installation of 12 park entrance signs (capital project)
- Mow and brush cut JCU House and SES Depot
- Irrigation repairs at Davies Park
- Mow and brush cut the eastern end of the Mareeba Airport

Land Protection

Parthenium Weed: Inspections were carried out on 12 active sites known to Mareeba Shire Council. All landholders are complying with their biosecurity obligation. Officers will continue to monitor one (1) site every two (2) weeks with the other 11 every three (3) weeks.

Giant Rats Tail Grass: Council's annual roadside spray program continued this month. Staff are treating roadsides and table drains throughout the shire. Selective herbicides are used in order to allow other vegetation to provide competition for the weed.

Amazon Frogbit on the Mitchell River Catchment: Mareeba Shire Council maintain a sentinel site program on Two Mile Creek. Officers keep five (5) sites clear of all water weeds so that when inspections are carried out at Frogbit is easily identified. All sites were clear on this visit.

Feral dogs: Several landholders have been in contact with Mareeba Shire Council and they are currently organising co-ordinated baiting to hopefully take place in the coming weeks in the top end of the Tinaroo Creek /Barron River area, weather permitting.

Feral Pigs: A number of property owners were given advice on baiting, shooting and trapping of feral pigs. Land Protection officers are also currently in talks with a landholder in the Maryfarms area who is interested in trialling a "hog hopper" feeding station that he will be able to get on loan from the council.



Hog Hopper

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

COVID-19 impacts in relation to operations will be managed in line with Queensland Government restrictions.

FINANCIAL AND RESOURCE IMPLICATIONS

Operating

All operational works are funded by the section specific 2021/22 maintenance budgets.

LINK TO CORPORATE PLAN

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IMPLEMENTATION/COMMUNICATION

Nil