

9 INFRASTRUCTURE SERVICES

9.1 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - JANUARY 2022

Date Prepared: 21 January 2022

Author: Director Infrastructure Services

Attachments:

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

RECOMMENDATION

That Council receives the Infrastructure Services Capital Works Monthly Report for the month of January 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

**Infrastructure Services Capital Works Report
Project Highlights - January 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

All deck and kerb units were precast at the Kowa Street Depot prior to Christmas close down.

The bridge crew is now on-site and has commenced the widening of the piers. As much construction work as possible will be done under traffic and it is anticipated that the bridge will be closed in March to allow for further abutment works, the removal of the existing timber deck and the installation of the replacement concrete deck and kerb units (weather permitting).



Preparing for pier extension footing



Completed pier extension footing



Infrastructure Services Capital Works Report Project Highlights - January 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

At the end of January, the construction crew established to site in preparation for the culvert widenings. The current wet weather is likely to impact progress over the next few weeks but Wolfram Road is well drained and some progress should be made.

Below are photos of some of the defects this project will address.



Pavement failure at Ch 7960



Narrow culvert and failing headwall Ch 8600



Edge wear and breaks



Existing narrow road compared to previous stage

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



Project Name: AC Pipe Renewal Water Main Upgrade – Reynolds Street, Mareeba

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.

The section of water main on Reynolds Street was identified for replacement following the numerous main breaks occurring in the past few years and the need to undertake the water main replacement prior to undertaking kerb renewal and pavement rehabilitation works, which will commence after the wet season.

Scope of Works

The scope of work included replacement of the existing water main with 150mm PVC Supermain, in addition to new service connections, valving and hydrants. There were a large number of road crossing connections that were installed along Reynolds Street.

Progress Update

Works commenced early December and completed mid-January.



Road crossing and road verge installations of the new 150mm diameter PVC Supermain water main



**Infrastructure Services Capital Works Report
Project Highlights - January 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

A pre-start meeting was held with the contractor Terranovus Civil Pty Ltd and actual works commenced 28 January 2022 and are concentrated along Starcke Street. Works commenced 28 January 2022 with an expected three (3) month program weather dependent.



Installations of the new 100mm diameter PVC Supermain water main Starcke Street

**Infrastructure Services Capital Works Report
Project Highlights - January 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 commenced mid-October with an estimated four (4) month construction program, weather permitting. The contractor installed water mains from Rob Veivers Drive to Arara Street intersection prior to the Christmas shutdown and returned to site on 10 January 2022. The project will be finalised in February, weather permitting, with completion of remaining service connections, water main tie-ins and reinstatement of the road.



Laying and installation of the new 150mm diameter PVC Supermain water main



**Infrastructure Services Capital Works Report
Project Highlights - January 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 sewerred 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

Construction works commenced on 10 January and works to strip out the existing pump station scheduled for week beginning Monday 7 February. The project is expected to take up six (6) months to complete, with equipment items on order and some long delivery lead times envisaged.



Project Site

**Infrastructure Services Capital Works Report
Project Highlights - January 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 works commenced 10 January 2022 and works start from the Lifestyle Sewerage Pump Station working back toward the Hub. To date rain has interrupted the scheduled works program which is due for completion end of February.



Excavation works for gravity sewer main

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



Project Name: Kuranda Waste Transfer Station Weighbridge

Program: Waste

Background

As part of the ongoing implementation of Council's Waste Management Services Strategy, a new weighbridge and gatehouse are being installed at the Kuranda Waste Transfer Station. The project will improve access to the facility for users and assist Council in providing a more efficient waste management service.

Scope of Works

The scope of works includes supply, installation and commissioning of a single deck steel weighbridge, associated hardware, and construction of a new gatehouse.

Progress Update

The new weighbridge and associated equipment were delivered to site 21 January 2022 with installation works commencing 22 January. The majority of the equipment has now been installed and certified 1 February. Final site commissioning is scheduled for 15 February.



Newly installed Weighbridge

**Infrastructure Services Capital Works Report
Project Highlights - January 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 commenced late December and is progressing well despite recent inclement weather. At this stage final construction is scheduled for early March.

Expressions of interest for operation of the Buy Back Shop are being invited from February.



New Buy Back Shop Shed under construction



Infrastructure Services Capital Works Summary Report - January 2022

Project Description	Project Stage	Progress Comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)		
2021/22 Reseal & Asphalt Program	Construction	Preparation works on proposed resealed roads have commenced. AADT data sent to Pioneer NQ for seal design purposes. Reseal works programmed for April 2022 weather permitting
RD-05 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	Resheeting sections of Grievson and Kanervo Roads in December with material milled out of the Palm Valley Road widening and sealing project. Further projects to be programmed after wet season.
Program: 03 Urban Streets		
R2R Reynolds Street, Mareeba - Replace Kerb and Channel	Design	Roadworks and kerbing programmed for early May 2022. Sections of ageing water main replaced under the AC water main replacement program and cross-overs completed during January 2022.
Program: 04 Rural Roads		
TIDS Euluma Creek Road, Julatten Ch 5.565-6.343 Rehabilitate and Widen	Construction	Euluma Creek Road programmed for line marking week of 7 February, weather permitting. Some minor repair work required due to culvert topping the road in recent rain. Project will remain within budget.
TIDS Euluma Creek Road, Julatten Ch 7.01-9.325 Rehabilitate & Widen 3 sections within chainage	Construction	Project suspended due to wet weather and will resume when weather and site conditions permit.
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	Site compound established. Crew currently extending culverts. Progress is being impacted by wet weather.
R2R Palm Valley Road, Koah - Widen and Seal Ch 0.00-1.30	Construction	Palm Valley Road programmed to be line marked 2 February 2022, weather permitting.
Borzi Road, Mareeba - Widen and Seal Ch 0.03-0.67	Design	Programmed for construction July to October 2022.
Fallon Road, Kuranda - Rehabilitate Pavement Ch 0.874 - 0.948	Planning	DRFA funding for one site rejected, one site pre-approval. Quotes will be sought for the works with intent to finalise in dry season.
Program: 05 Bridges		
Kanervo Road, Replace Timber Bridge over Davies Creek	Construction	Pier 1 and 2 extensions are underway. Earthwork inspections carried out by GHD 28 January 2022. It is anticipated that the bridge will be closed in early March for the deck replacement, but this will be dependent on the weather.
BRP Davies Creek Road Bridge Replacement	Design	Programmed for construction April/May 2022.
Granite Creek, Mareeba - Replace Footbridge Deck (Eales Park)	Design	Consultant has completed inspections/assessment, Council anticipates receipt of report early February.
Palm Close, Mareeba - Replace Footbridge Boards	Design	Consultant has completed inspections/assessment, Council anticipates receipt of report early February.
Bicentennial Lakes Footbridge Safety Upgrade	Not commenced	Project on hold - potential for the full area to be upgraded under Parks & Open Spaces Strategy.
Program: 06 Drainage		
2021/22 Minor Culvert and Causeways Renewal	Construction	Two culverts currently being renewed. One at Kuranda Senior College Car Park and one on Speewah Road.
Amaroo Mareeba - Drainage Upgrade Stage 2 of 3 - Karobean Drive to Yarabee Close (300m)	Design	Stage 2 section has been cleared and is currently being surveyed for design. Construction currently programmed for June / July 2022.
Program: 08 Parking		
Borzi Park, Mareeba - Carparking Masterplan	Planning	Concept layouts to be developed for consideration February/March 2022.
Program: 09 Footpaths		
2021/22 Footpath Renewal Program	Not Commenced	To be programmed.
Basalt Gully Stewart Street, Mareeba Footpath Renewal	Construction	Major works completed November 2021. A new switchback link to Stewart Street and connection to picnic shelter will be completed in 2022 following completion of survey and design.
Rankin Street, Mareeba - Footpath Renewal (Chewko - Byrnes)	Completed	Project complete January 2022.
Program: 10 Parks and Gardens		
Mary Andrews Park, Mareeba - Replace Exercise Equipment	Construction	Contractor commenced installation 21 January 2022 and has been delayed due to wet weather.

Infrastructure Services Capital Works Summary Report - January 2022

Project Description	Project Stage	Progress Comment
2021/22 Park Entrance Sign Renewal Program	Construction	Signs programmed for installation 1 February 2022.
Mareeba Byrnes Street Medians Landscaping	Design	Corridor permit application being prepared for TMR, with minor electrical modifications underway so civil works can commence towards end of wet season.
Program: 11 Water		
Mareeba and Kuranda Water Treatment Plant - Staged start-up of raw water pumps upgrade	Design	Design underway.
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	Bore and pipeline commissioned by auxiliary (generator) power. Awaiting Ergon to connect power which has now been deferred to late March 2022.
Warril Drive, Kuranda - Water Main Replacement	Construction	Works completed November 2021; however heavy rain has been creating some wash outs on the main and some driveways which are being repaired.
W4Q4 Barang Street, Kuranda - Water Main Upgrade	Construction	New water installations complete, grout filling of old mains underway, along with service connections and reinstatement of road works.
W4Q4 Mareeba AC & Defunct Pipe Replacement 2.5km	Construction	Pre-start meeting held with Terranovus Civil 25 January, contractor on-site and commenced works on Starke Street. Underbore preliminary works also underway.
2021/22 Water Telemetry/SCADA Upgrades	Procurement	Sourcing new server PC's to enable the project to advance to implementation phase.
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.
2021/22 Hydrant Renewal Program	Completed	Works completed for this financial year, awaiting final invoicing and once processed project will be closed out.
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	Construction	Final filter replacement cell has arrived and will be installed late February / early March.
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	Belts for the conveyor will need to be made by the supplier.
Telemetry/SCADA Upgrades	Procurement	Sourcing new server PC's to enable the project to advance to implementation phase.
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	Purchase orders issued for quoted goods. Potential long lead times on delivery of some items.
Granite Creek, Mareeba Sewerage Pump Station Refurbishment	Construction	Contractors working on project and works expected to be completed around mid-2022.
2021/22 Mareeba Pump Station Magflow Install Program	Planning	Pump stations that will have flow meters fitted are Robins Street and Kenneally Road. Equipment to be ordered early February and once sourced will be installed.
2021/22 Mareeba Wastewater Reticulation Pump Renewal	Construction	Currently assessing which SPS 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.
Minor Sewerage Pump Stations H2S protection and refurbishment.	Construction	Works underway with contractor doing the works concurrently with Granite Creek SPS upgrade.
Mareeba Gravity Sewer Main installation from Cedric Davies	Construction	Works underway, slight delays due to wet weather with

Infrastructure Services Capital Works Summary Report - January 2022

Project Description	Project Stage	Progress Comment
Program: 13 Waste		
Mareeba Waste Facility Weighbridge Data Recording System	Completed	New PC and software installed and SUEZ to remove their system 1 February.
Kuranda Waste Transfer Station Weighbridge & Gatehouse	Construction	New weighbridge installation works continuing, major components already installed with data and electrical connections and certification to be completed by 1 February.
2021/22 Mareeba Waste Facility - Leachate Pump Station Pump Replacement (Annual replacement rolling program)	Completed	Works completed January 2022.
Mareeba Waste Facility - Buy Back Shop Construction	Construction	Construction of new shed well underway.
Mareeba Waste Facility - Design for New Landfill Cells	Procurement	New cell design underway, consultant working in conjunction with Council officers and work expected to be completed by early to mid-2022.
Program: 15 Fleet		
GPS Vehicle Management System	Planning	Potential systems 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 February 2022.
Fleet Replacement #676 - Civil Works Truck	Procurement	Purchase Order raised 4 August 2021; anticipated delivery is February 2022
Fleet Replacement #1317 - Western Roads Landcruiser	Procurement	Purchase Order raised 4 August 2021; anticipated delivery is April 2022.
Fleet Replacement #4009 Toro 72" Mower	Completed	Machine was delivered early December 2021. Final stage of fit out complete, machine in service early January 2022.
Fleet Replacement #509 Backhoe	Procurement	Purchase Order raised 19 August 2021; anticipated delivery is April 2022.
Fleet Replacement #1250 - Water and Waste Hilux	Completed	New Vehicle delivered 15 December 2021. Vehicle fitted out with toolboxes and in service mid-January 2022.
Fleet Replacement #1251 - Water and Waste Hilux	Completed	Completed January 2022.
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 programmed for January / February during wet season.
Fleet Purchase 3 x Portable Traffic Lights	Completed	Lights delivered 15 December 2021 and in service mid-January 2022.
Program: 16 Depots and Council Offices		
Kowa Street, MSC Depot - Air conditioning Replacement	Construction	Minor works required to finalise project.
Rankin Street, MSC Admin Office Refurbishment	Planning	Quotes received for minor internal works. Quotes for external works to be called March 2022.
Kowa Street, MSC Depot - Emergency Generator	Planning	Size and location of generator/s needed under assessment.
Program: 17 Community Buildings		
Koah Tennis Court - Remove/replace the unstable timber light poles (with metal poles and caged footings within concrete)	Planning	Quotes to be called again from February/March with works to be completed May/June 2022 after wet season.
Dimbulah / Mareeba / Kuranda Pools Chlorine Dosing Improvements	Planning	Quotes to be called February, works to be completed over the wet season.
Mareeba Leagues Club Grandstand Refurbishment	Procurement	Quotes to be called again in early February with works to be completed May/June 2022 after wet season.
Mareeba PCYC Shire Hall Part Roof Replacement (Partial roof replacement)	Design	Quotes to be called again in early February 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.
Kuranda SES Facilities Upgrade	Completed	Works completed in January 2022.
Program: 18 Non-Infrastructure Items		
Kuranda New Cemetery	Planning	Draft master plan to be tabled at February Council meeting.
DRFA Flood Warning Infrastructure Network MbaSC.0016.1819E.FWI - River Gauge (Biboohra)	Construction	Site investigations conducted November 2021. Works to commence March / April 2022.
DRFA Flood Warning Infrastructure Network MbaSC.0018.1819E.FWI - Rain Gauge (7 locations)	Construction	Site investigations conducted November 2021. Works to commence March / 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.

9.4 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - JANUARY 2022

Date Prepared: 21 January 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 January 2022.

RECOMMENDATION

That Council;

1. receives the Infrastructure Services, Technical Services Operations Report for January 2022; and
2. endorses the procurement of a Toolbox Trailer and a Grader Display Screen with funding to be sourced from savings in the current Fleet Renewal Program.

BACKGROUND**Technical Services**Design, quality and investigations:

Investigation activities undertaken in January included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	57	23
Drainage Investigations	7	4
NHVR Permit Applications	1	14
Aerodrome Investigations	1	0
Traffic Count Surveys	0	0
Parks Investigations	3	1
Dial Before You Dig Requests	0	117

Soil Laboratory:

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

Asset Inspections:

Scheduled inspections of Council's transport infrastructure assets have been undertaken during the month of January. Field inspections were directed towards culvert crossings of roads within the shire and road inspections. Work was completed towards updating data in the Maintained Road Network within the Shire with the first review being undertaken. In addition to field inspections, work was completed towards improving data collected for the footpath, water, sewerage, roads and kerbs.

Inspections planned for February 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	The Edge Stage 3A	Off-maintenance
Mareeba	Amaroo Stage 11	On-maintenance
Mareeba	The Edge Stage 2B	Off-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:

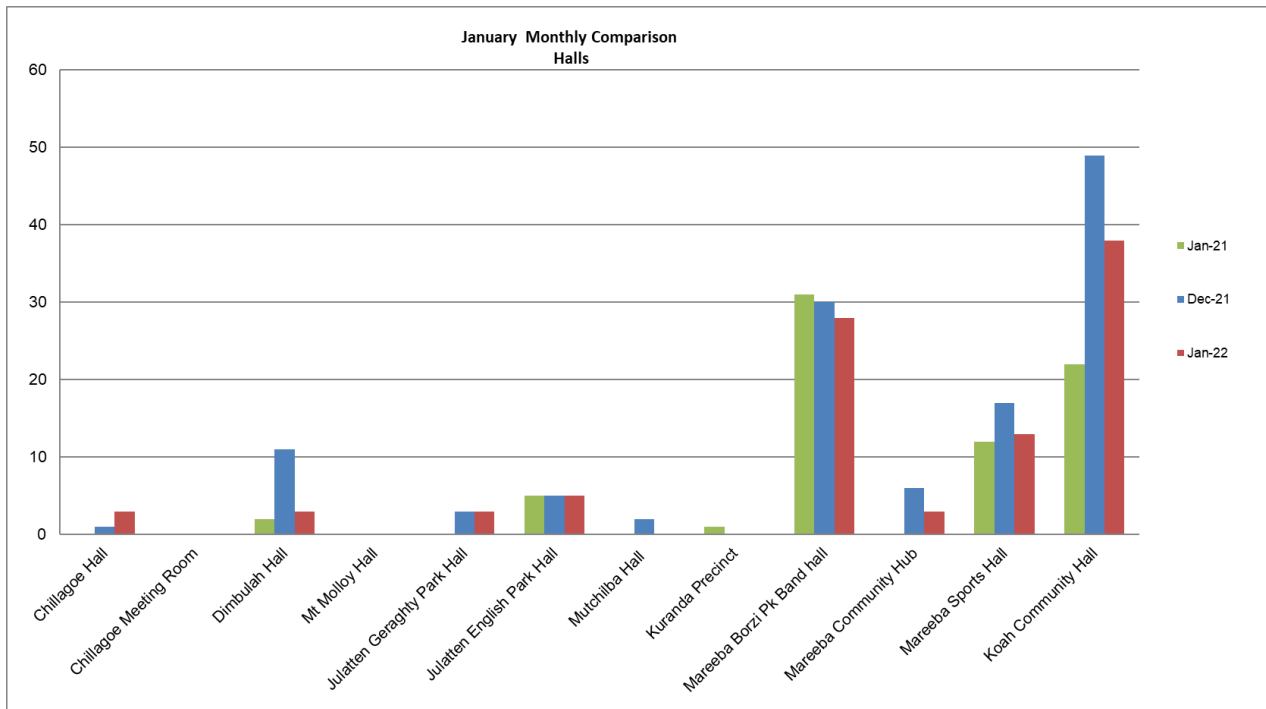
Program	Status
2021 DRFA Program General	Mareeba Shire activated DRFA assistance measures linked to Tropical Cyclone Imogen and associated low pressure system that occurred 2 – 12 January 2021. A consultant has been engaged to assist with delivery of the 2021 DRFA Program. Betterment projects are to be identified and submitted in future funding rounds.
2021 DRFA REPA Program	High priority sites have been awarded to successful contractors, following notification from QRA of eligible activities, with the majority of sites now complete. Council at its Ordinary Meeting, 15 December 2021, endorsed award of the REPA Contracts on condition of endorsement by QRA.
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	All sites have been physically completed.

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.

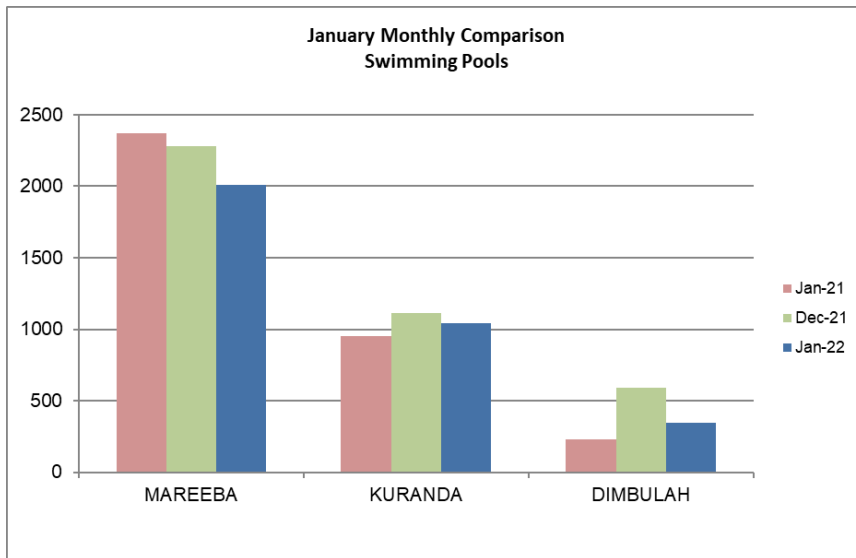
January hall hires have decreased compared to last month, however for the same period last year there has been an increase. Sporting groups are yet to return from school holidays and cancellation due to low numbers were evident.



Swimming Pools

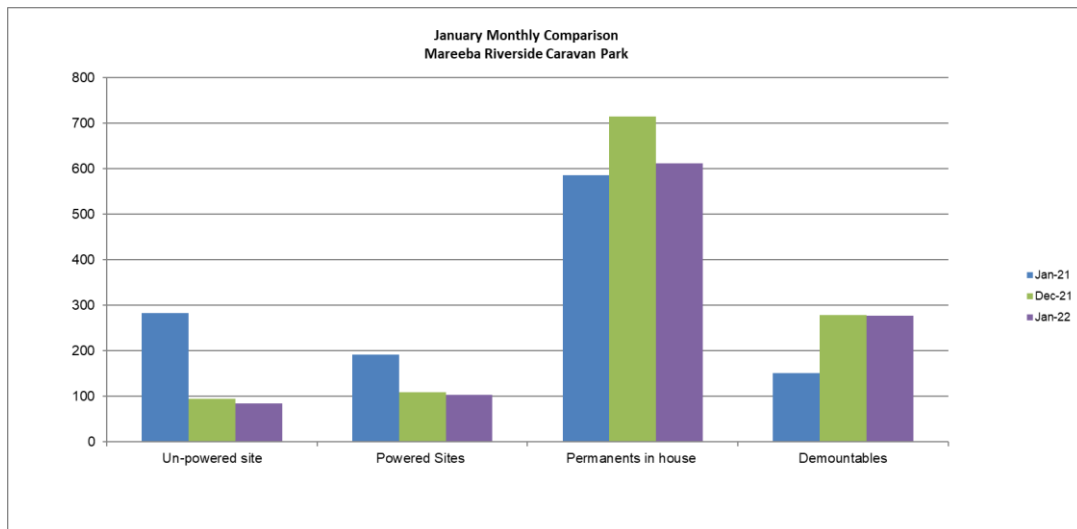
All Pools were open to the public with the new Managing Lessee undertaking a ground-up review of practices at all facilities, which has resulted in a number of proposed changes, including gate entry practices at all facilities.

Utilisation of the pools for January was down on historic and previous months numbers, which may be due to inclement weather.

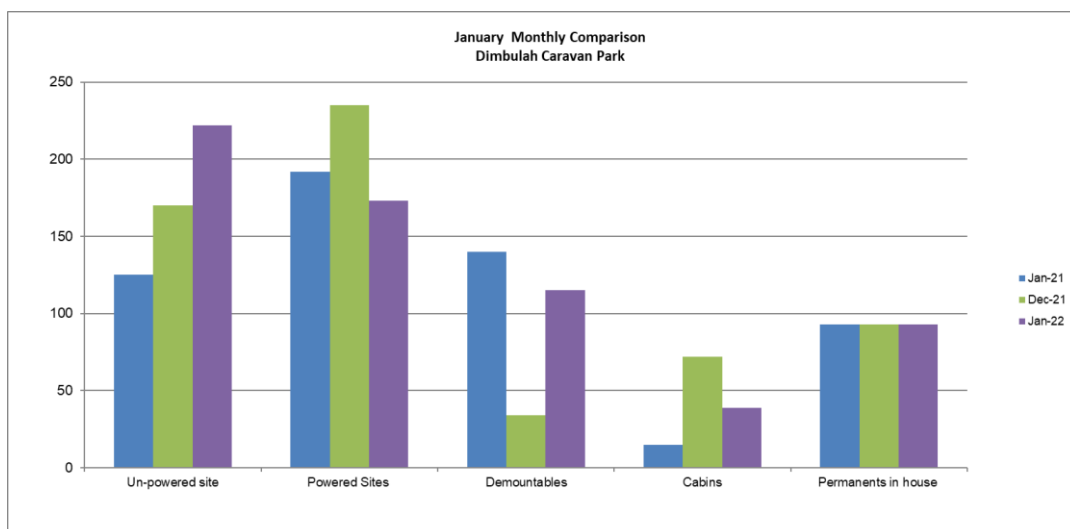


Caravan Parks:

Mareeba Riverside Caravan Park has seen a reduction for bookings across all facilities and sites. This may be due to a reduction in farm workers/visitors moving on now the Queensland Border is open.



Dimbulah Caravan Park overall utilisation has increased compared to last month and for the same period last year. Having a long weekend increased the unpowered sites for campers and demountables.



Vandalism & Graffiti:

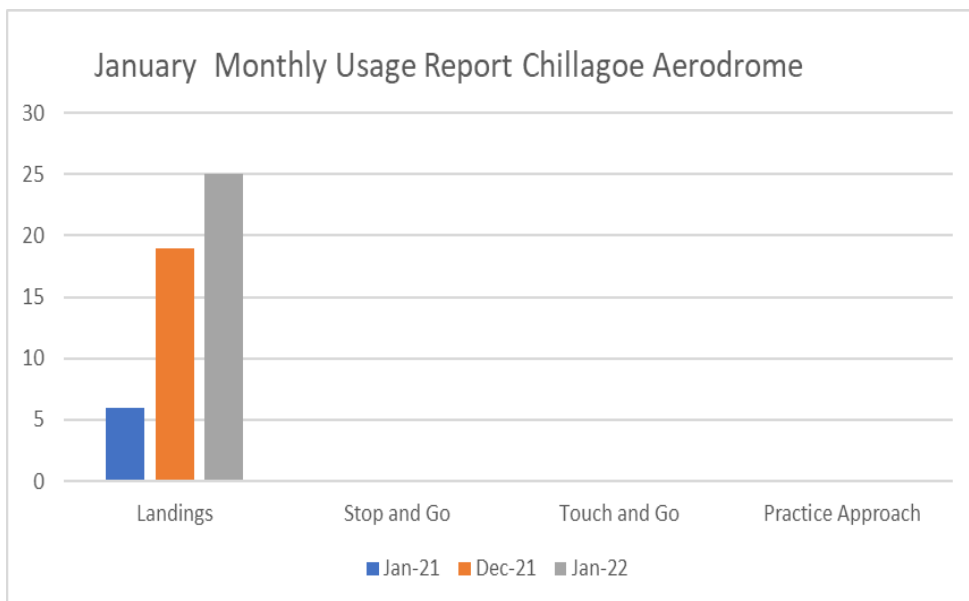
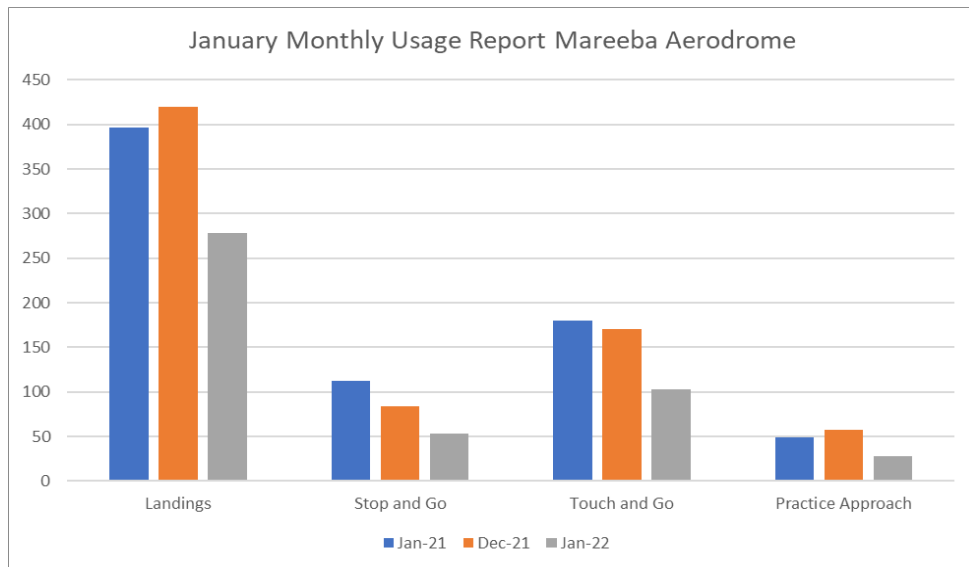
During January, 8 reports of vandalism/graffiti were recorded for Council facilities, with annual costs provided below;

Financial Year	Actuals	Comments
2015/16	\$ 2,134.00	• Mareeba CWA Toilets/restroom - vandalism and graffiti x 4
2016/17	\$ 16,546.00	• Mareeba PCYC - vandalism x 1
2017/18	\$ 23,948.00	• Rotary Park - vandalism x 1
2018/19	\$ 14,851.00	• Irvinebank Toilets - vandalism x 1
2019/20	\$ 14,211.18	• Julatten Geraghty Park Hall - vandalism x 1
2020/21	\$ 62,199.62	
2021/22	\$27,035.66	

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.



Fleet

Delivery of the 2021/22 fleet replacement program is progressing well, with recent financial forecasts providing anticipated savings to the program. As a result, it is proposed to reallocate a portion of current year's savings towards the procurement of two (2) new minor plant assets, being a Toolbox Trailer and a Display Screen for Grader 14.

These assets will result in operational efficiencies for the construction crew (trailer) provide improvements to the operation of the final trim grader (display screen). A review of the potential costs indicate that procurement of the assets will be well within savings in the current program.

Future operating costs for the infrastructure will be recovered through internal hire rates associated with to the various assets.

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***

Reallocation of savings within the Fleet Renewal Program to provide for the procurement of a Toolbox Trailer and Display Screen for the Final Trim Grader.

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.

9.5 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - JANUARY 2022

Date Prepared: 21 January 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 January 2022.

RECOMMENDATION

That Council receives the Infrastructure Services, Water and Waste Operations Report for January 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)	5,706	853	259	378	67
Number of Connections	4,385	982	157	272	137
Average daily water consumption per connection (L)	1,301	869	1,917	1,650	593

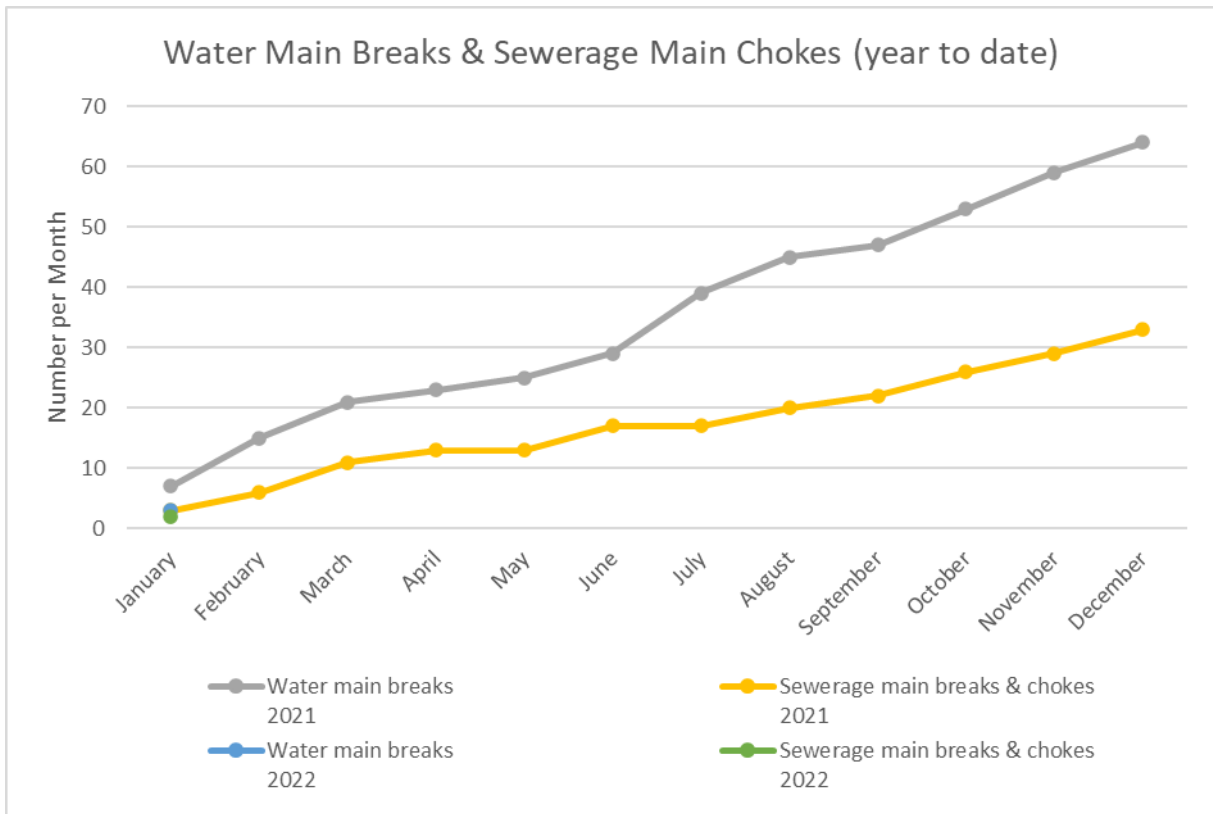
* Mt Molloy is an untreated, non-potable water supply

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	3,872	285
Number of Connections	3,424	346
Average daily inflow per connection (L)	1,311	824

Water and Wastewater Reticulation:

Council's water reticulation crew attended to three (3) 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:

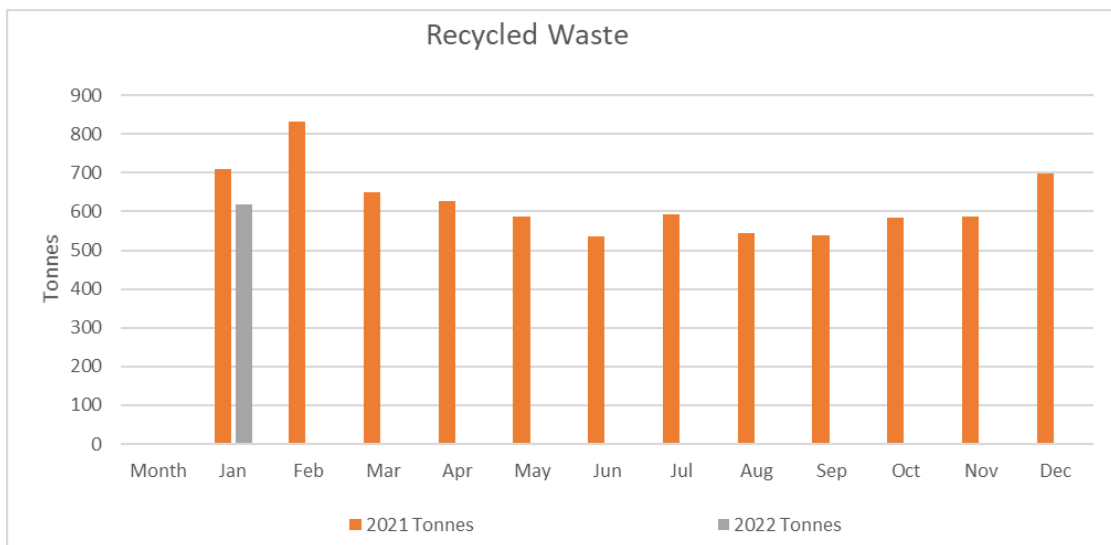


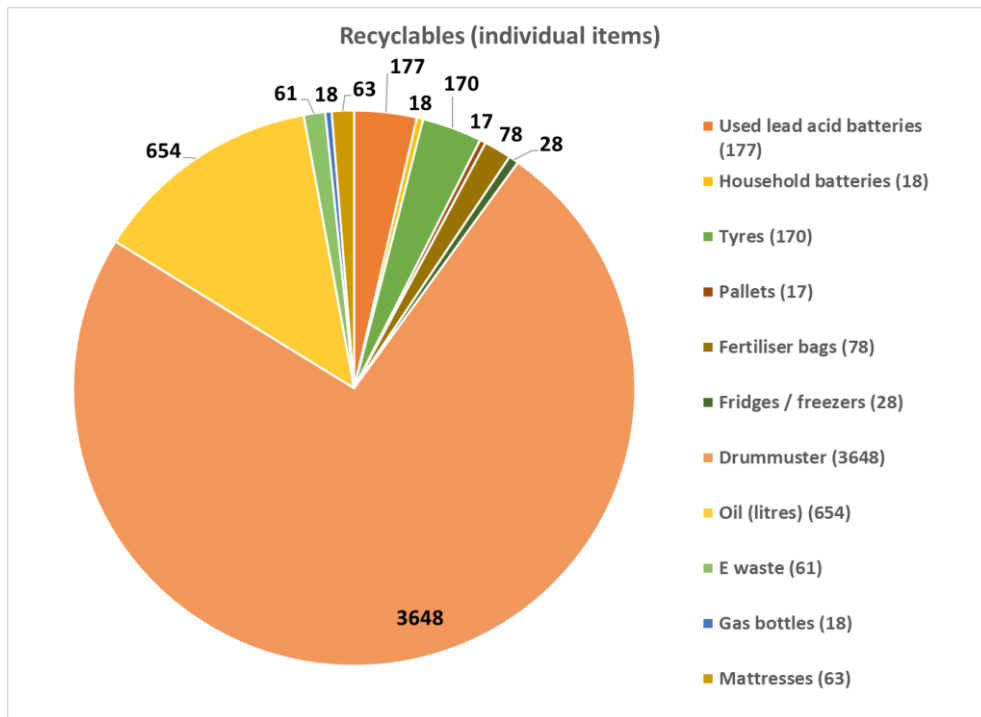
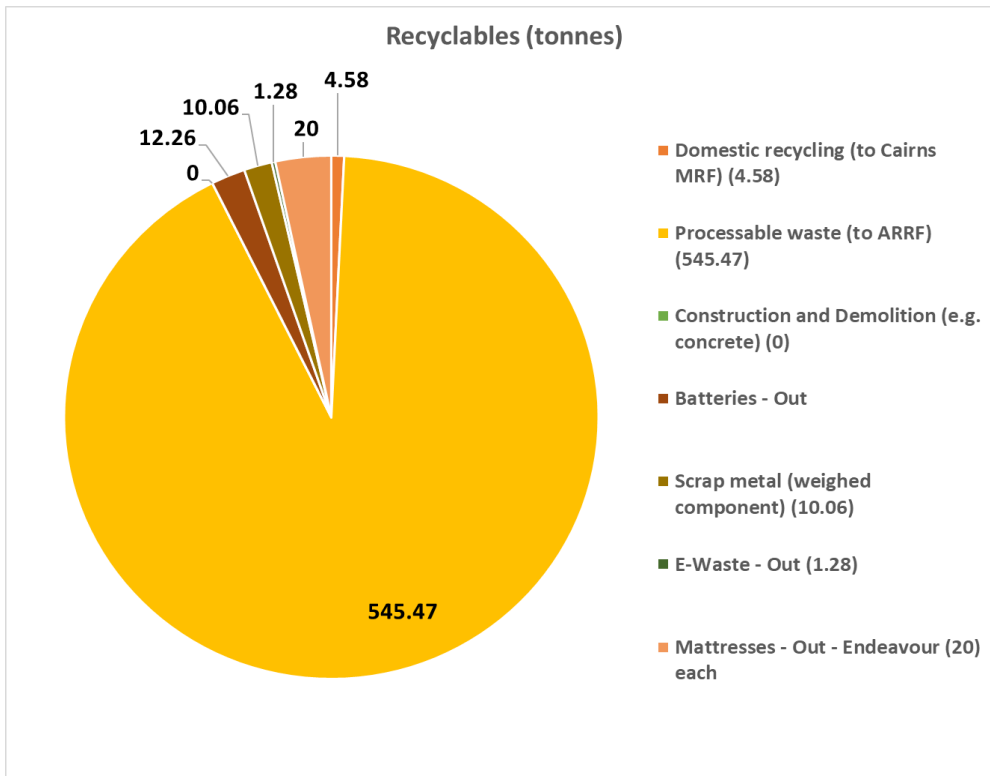
Waste Operations:

All transfer stations are currently operational.

Recycling

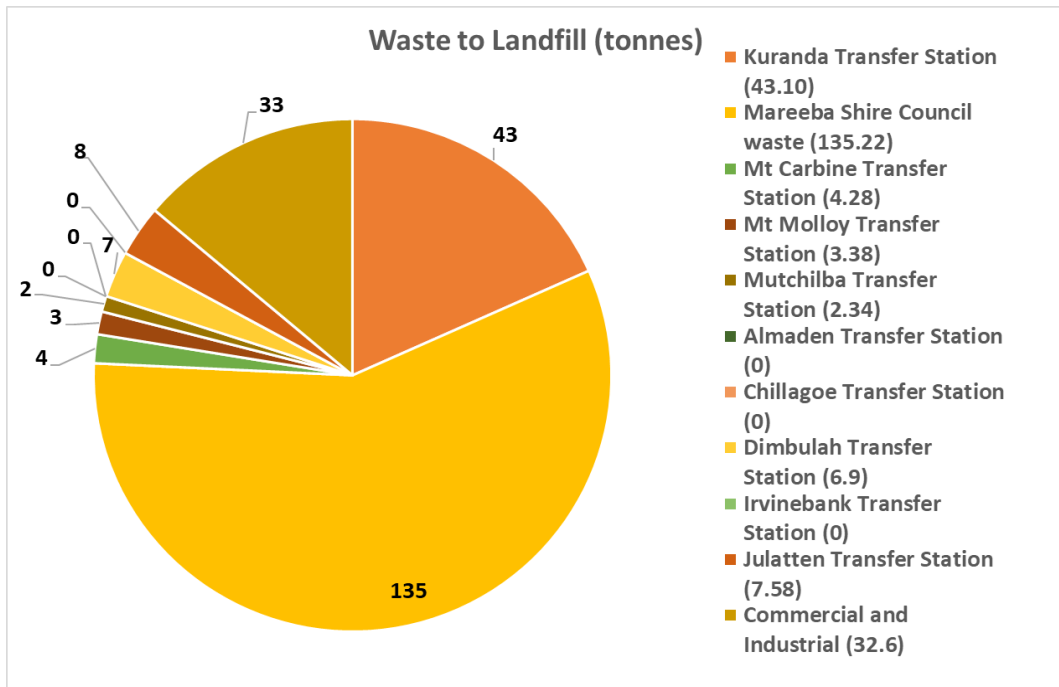
Waste material collected at each of the waste transfer stations are either deposited directly to the Springmount Waste Facility, recycled or transported to the SUEZ Advanced Resource Recovery Facility (ARRF) in Cairns for processing.





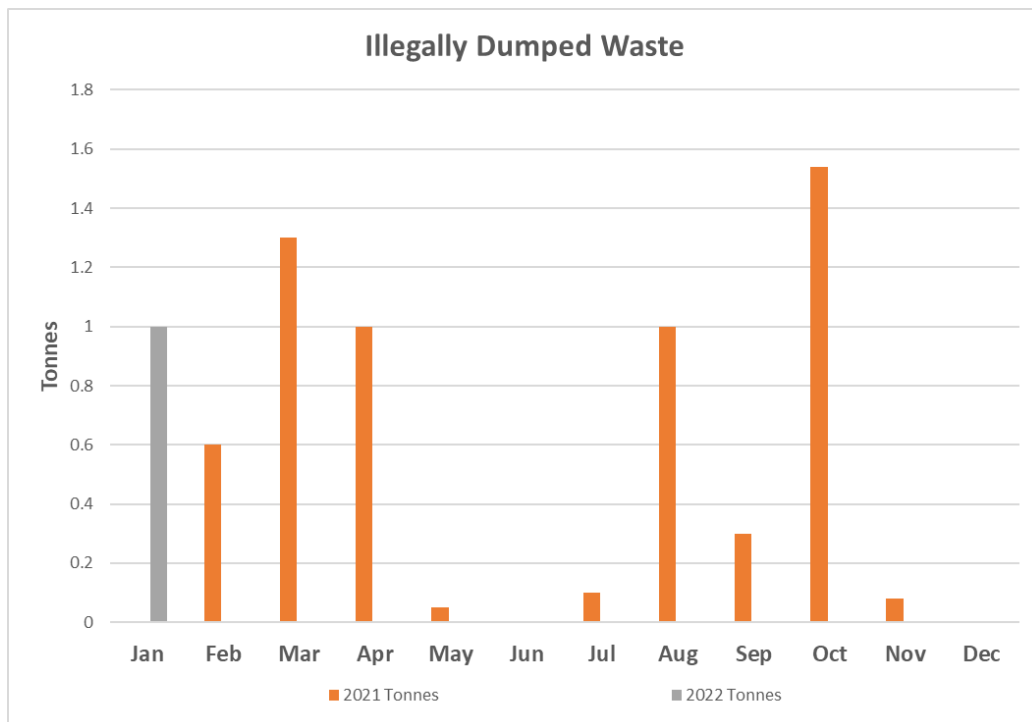
Waste to Mareeba Landfill

Mareeba Landfill is no longer receiving residual waste from the SUEZ Advanced Resource Recovery Facility (ARRF) plant in Cairns. Landfill waste in January 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.



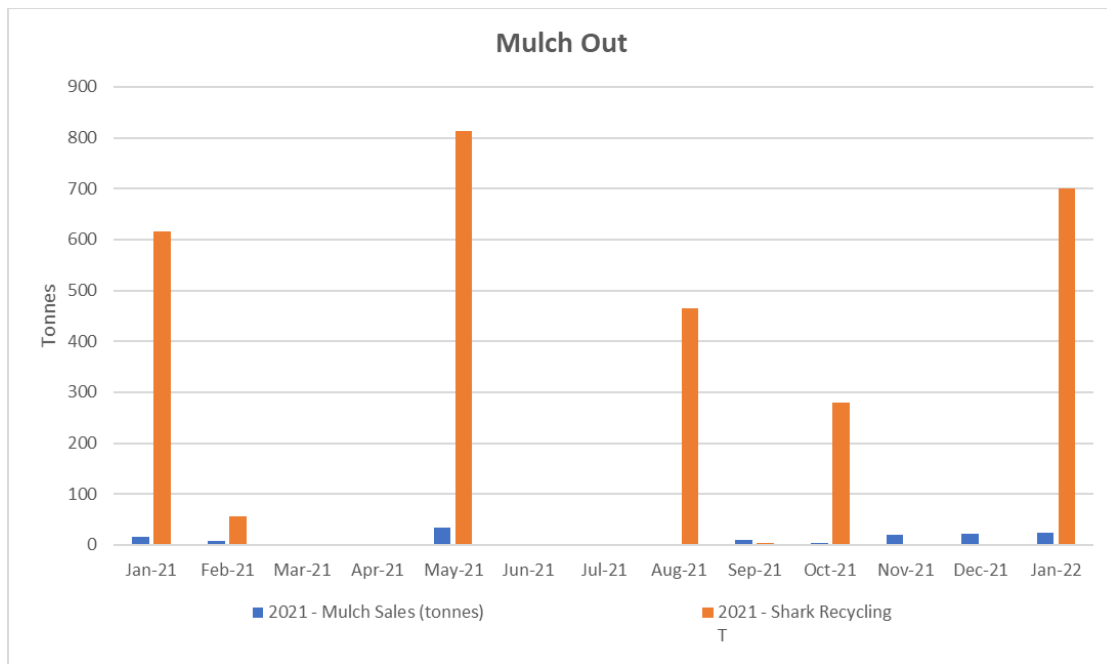
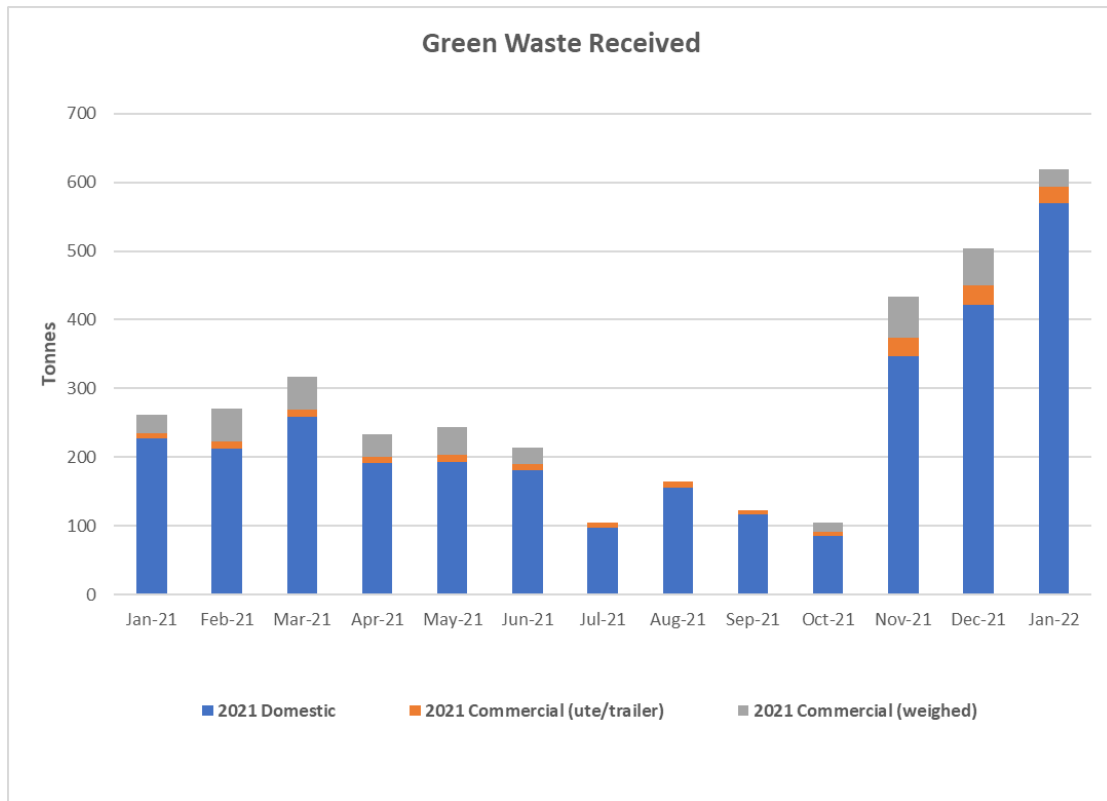
Illegally Dumped Waste

Council received a small amount of illegally dumped waste through Mareeba Waste Transfer Station during the month of January.



Green Waste

Council received a total of 618 tonnes of green waste in the month of January. Green waste was last mulched in mid-January and will again be mulched late February or early 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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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

9.6 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - JANUARY 2022

Date Prepared: 4 February 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 January 2022.

RECOMMENDATION

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

BACKGROUND**Transport Infrastructure**Road Maintenance Activities

Unsealed road maintenance grading was suspended during the month of January and will recommence 1 February 2022 with some additional, out of sequence maintenance grading to be undertaken on Slape Road and George Fabris Road before the crew is re-establishes in the Mt Molloy area to continue the unsealed road maintenance grading program. Both Slape Road and George Fabris Road have sustained running surface defects due to recent and on-going rain.

During the month of January, other operational activities included:

- Herbicide spraying of rural road in the Mareeba area in readiness for the slashing program commencement next month
- Road repairs to scours and washouts, pothole patching of rural and urban roads and Mareeba area
- Cleaning of blocked grates in Mareeba streets
- Reinstate signage around Mareeba Streets
- Clearing flood debris from bridges on Bolton Road, Black Mountain Road, Mt Lewis Road, Anzac Avenue, Bilwon Road and Chapmans Road
- Tree removal on several roads in the Julatten, Mt Molloy, Kuranda, Speewah and Koah areas
- Slashing in the Julatten and Mt Molloy areas
- Mowing, herbicide spraying and slashing of roads in the Dimbulah, Mutchilba and Chillagoe areas
- Road repairs to scours and washouts in the Watsonville area

Customer Requests

During the month of January, the Works Group received 198 Customer Requests (CRs) with 191 resolved (resolved requests include those received prior to 2022). The table below shows the number of requests lodged per Works section for the month.

Month	Roads	Parks and Gardens	Pest Management
January	137	52	9

At the time of reporting, the Works Group had 88 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 January.

Location	Area	Structure
Oak Forest Road	Kuranda	Bridge
Barron Street	Koah	Bridge
Anzac Ave	Mareeba	Bridge
Cardina Boulevard	Speewah	Bridge
Black Mtn Road	Kuranda	Bridge
Jeffrey Road	Kuranda	Bridge
Bolton Road	Koah	Bridge
Kelly Road	Speewah	Major Culvert
Veivers Drive	Speewah	Major Culvert
Barron Street	Koah	Bridge
Bolton Road	Koah	Major Culvert
Koah Road	Koah	Causeway
Keeble Street	Mareeba	Major Culvert
Kowa Street	Mareeba	Major Culvert
Little Road	Kuranda	Bridge
Myola Road	Kuranda	Bridge
Ganyan Drive	Speewah	Major Culvert
Clohesy River Road	Koah	Major Culvert
Davies Creek Road	Mareeba	Bridge
Stoney Creek Road	Speewah	Bridge
Speewah Road	Speewah	Bridge
Seary Road	Mareeba	Major Culvert

TMR Routine Maintenance Performance Contract (RMPC)

Vegetation management works have commenced on the western and eastern State-controlled roads with herbicide spraying completed on the Burke Developmental Road (BDR), Mareeba - Dimbulah Road and Mulligan Highway between Mareeba and Mt Molloy. Slashing was completed on the Mossman - Mount Molloy Road and is underway on the Mulligan Highway between

Mareeba and Mt Molloy and on the Mareeba - Dimbulah Road. Boom slashing was completed on the Kennedy Highway.

During January, water courses were monitored daily with road closure signage being erected in accessible areas as required. A road condition report is submitted daily to the Cairns Traffic Management Centre during periods of unsettled weather.

In late January, the BDR was placed under a five (5) tonne load limit on the instruction of TMR from just north of Chillagoe to the Shire boundary at Dunbar.

Council staff have been unable to access the BDR beyond the Walsh River at Trimble's Crossing for some weeks and road conditions past that point remain unknown.

Parks and Open Spaces

The recent and ongoing rain has made vegetation management a priority with Parks and Gardens staff focussed on maintaining open spaces within the Mareeba Shire for January, which will continue for the remainder of the wet season. Parks and Gardens have engaged the services of slashing and mowing contractors on a limited basis due 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 lockdown at Lotus Glen Correctional Facility just prior to Christmas and are yet to return.

Staff from other sections are being used to bolster Parks and Gardens resources with assistance being provided through the Transport Section's construction and maintenance staff at every opportunity, acknowledging their first priority must remain with road and bridge maintenance particularly given recent flooding events.

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

- Four (4) burials
- The removal and storage of Christmas trees and associated decorations
- The commencement of the replacement exercise equipment at Mary Andrews Park (capital project)
- Several tree removals
- Twice-weekly mowing of Davies Park

Land Protection

Parthenium Weed: Inspections were carried out on the 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.

One new Parthenium infestation has been located at Dimbulah on the highwater mark of the Walsh River discovered while inspecting the area for Amazonian Frogbit after a report Frogbit was seen upstream of Bruce Weir. No Frogbit was located, and officers believe it is not in the area. Land Protection Officers (LPOs) spoke with the property owner, who was aware of the Parthenium

and has been treating it himself for several years. LPOs arranged with the property owner to inspect the property approximately every quarter.

Giant Rats Tail Grass: Council's annual roadside spray program has started for the year, 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.

Katherine Green Bellyache bush: One active site at Koah was inspected after the recent rains and several seedlings were located but no mature plants. The property owner is complying with biosecurity obligations.

Feral Pigs: A customer Request was received from Speewah stating several property owners have feral pigs regularly entering their property. The property owners believe it is the same pigs traveling the creek line on the back of their properties. The area is not suited to 1080 baiting due to property size and advice was given on exclusion fencing, trapping and shooting as alternative control methods.

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