

9.2 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - OCTOBER 2023

Date Prepared: 17 October 2023

Author: Manager Assets and Projects

Attachments:

1. [Capital Works Highlights - October 2023](#) ↓
2. [Capital Works Summary - October 2023](#) ↓

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 October 2023.

RECOMMENDATION

That Council receives the Infrastructure Services Capital Works Monthly Report for the month of October 2023.

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 2023/24 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 – October 2023**



Project Name: Bicentennial Lakes Gravity Sewer Main Upgrade

Program: Wastewater

Background

The gravity sewer main installation is located adjacent Bicentennial Lakes and connects the previously upgraded section upstream from Rankin Street and discharges upstream of the pump station at Byrnes Street. The project includes all works associated with the construction of a new sewer gravity main, inclusive of a water main relocation to enable the works.

The project is grant funded through the Queensland Reconstruction Authority (QRA) via the Qld Resilience & Risk Reduction Funding Program (QRRRF) and is expected to be completed in late 2023.

Scope of Works

Installation of new 450mm gravity trunk sewer main, sewer manholes and connections and relocation and upgrading of water mains located at Keeble Street and Jacobsen Street and connections and valving. Works are generally limited to the road reserve between the edge of road and property boundary.

Progress Update

Works commenced mid-May and have progressed well with the contractor installing the gravity sewer main and the construction of manholes in the verge adjacent to Railway Avenue during October.



Sewer installation on the verge between Queensland Rail line and Railway Avenue.

**Infrastructure Services Capital Works Report
Project Highlights – October 2023****Project Name: Mareeba Water Plant Booster Pump Station Project****Program: Water****Background**

As part of the Mareeba Shire Water Strategy, Council has committed to undertaking upgrades to the Mareeba Water Treatment Plant to cater for future growth and ensure that safe and reliable drinking water continues to be supplied to residents and businesses.

The upgrading of the existing Mareeba Water Plant Booster Pump Station will achieve two (2) critical elements; to lift the firefighting capacity in the Mareeba Township area as there are significant and ongoing pressure issues on the western side of the township, and to ensure Council meets the minimum required water pressure standards to its residents due to increased residential developments particularly on the eastern side and to the southern side of Mareeba.

Mareeba Water Plant Booster Pump Station Upgrade is funded by the Federal Government through the Black Summer Bushfire Recovery Grants Program (BSBRGP) and Mareeba Shire Council.

Scope of Works

The project will upgrade the clear water pump station at the Mareeba township Kowa Street water treatment plant (WTP). The works to be completed are:

- Structural design and certification of new Mareeba BPS building and associated building services works (HVAC, Fire Protection and Building Hydraulics)
- Procurement of pumps, generators and VSD's;
- Construction of the Booster Pump Station including the provision of pumps, switchboards, generator and surge vessels;
- Connection of the new pump station to existing trunk water infrastructure;
- Site civil, pavements, conduits and drainage, and site reinstatement works;
- Construction of concrete slab mounted surge vessel on inlet to Centenary Park BPS and associated pipeworks; and
- Commissioning of the Booster Pump Station for Council operation.

Progress Update

During October, the contractor made significant progress on the project:

Earthworks:

- Excavation of piers completed with auger.
- Final levels on concrete slab sections filled and cut to design level prior to concrete pour.
- Earthworks for building pad and auger drilling of holes for pier footing.

Electrical Conduiting and Cabling

- Additional under slab electrical and communications conduits installed.
- Main conduiting installation work to commence mid-November.

**Infrastructure Services Capital Works Report
Project Highlights – October 2023**



Pump Station Building construction:

- Concrete formwork set up for main slab pour and second surge vessel, and doorway slabs.
- Reinforcing steel installed for footings including piers and rag bolts for connection to steel superstructure.
- Concrete slab poured including piers.
- Termi-mesh installed prior to concrete pours.



Concrete pour for main slab of booster pump station building

**Infrastructure Services Capital Works Report
Project Highlights – October 2023**



Project Name: Mareeba Water Plant Filtration System Upgrade

Program: Water

Background

As part of the Mareeba Shire Water Strategy, Council has committed to undertaking upgrades to the Mareeba Water Treatment Plant to cater for future growth and ensure that safe and reliable drinking water continues to be supplied to residents and businesses. One of these upgrades is replacement of the ageing filtration system through construction of a new 6-cell filter block .

In addition to its own funds, Council has received grant funding towards upgrade of the Mareeba Water Plant Filtration System through the Queensland Government's Building Our Regions program.

Scope of Works

The scope of works includes:

- Construction of a new filtration system consisting of 6 dual media filters with inlet valve/penstock and magnetic flowmeter
- Construction of small new building to house backwashing system
- Construction of a new backwashing system consisting of backwash pumps, air scour blowers, float switches, backwash control valves, filter to waste capability, connection to existing wastewater handling system and associated pipework and valves.
- All necessary valve actuators, motors, drives and instrumentation for automated control of the filters and connection to existing electrical and SCADA control systems
- Modification of existing pipework to connect to new filters
- Earthworks and building approvals
- Commissioning and Testing
- Removal of redundant equipment

Progress Update

Works commenced and have progressed well with the contractor undertaking civil earthworks, blinding layer and cut off wall is scheduled to be poured early November.

Infrastructure Services Capital Works Report
Project Highlights – October 2023



Civil earthworks for new filtration system

**Infrastructure Services Capital Works Report
Project Highlights – October 2023**



Project Name: Water Main Replacement Upgrade Program – Mason Street

Program: Water

Background

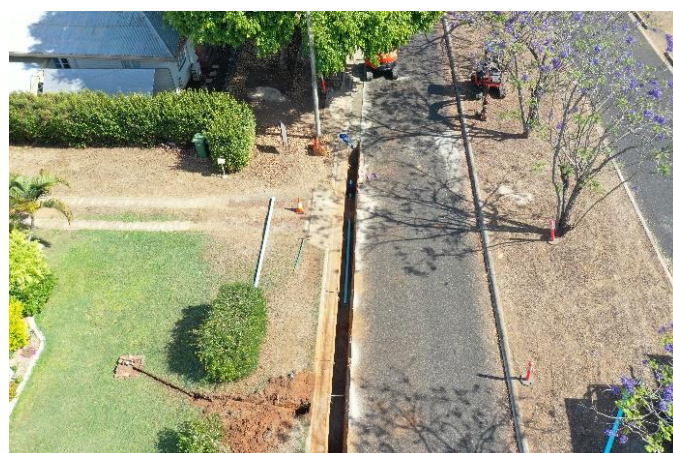
An allocation in the Capital Works Program has been provided in the 2023-2024 capital works program to replace the failed existing asbestos cement (AC) water mains. This section of water main was identified for replacement following the numerous main breaks occurring in the past few years in conjunction with Council's Water Strategy.

Scope of Works

The scope of works included replacement of the existing water main with PVC Supermain and Ductile iron (DICI) on road crossings, in addition to new service connections, valving and hydrants are being installed.

Progress Update

Works commenced early October at the intersection of Mason and Ferguson Streets with new 100mm PVC Supermain and works are now concentrated along Mason Street south of the Rankin Street intersection.



Mason Street installation of the new 100mm diameter PVC Supermain water main

Infrastructure Services Capital Works Report Project Highlights – October 2023



Project Name: New Kuranda Cemetery

Program: Cemeteries

Background

The existing Kuranda Cemetery has been approaching capacity for several years necessitating the requirement for Council to acquire a suitable location for the establishment of a new community burial facility. The property located on Kuranda Heights Road became available and was purchased for the purpose of becoming the preferred location for the new facility. The contract works for Stage 1 will provide burial capacity for the next 10 – 15 years.

Scope of Work

The tendered scope of works includes:

- Earthworks
- Roadworks
- Stormwater Drainage
- Water Supply/ Connection
- Carparking
- Landscaping
- Toilet Block
- Concrete works including: kerbs, pathways, beams

Progress Update

Bulk earthworks is now complete. Favourable weather conditions have enabled significant progress by the Contractor. Construction continued with the access road and car park, with kerbing installed in preparation for the laying and compaction of the road base material.



New Kuranda Cemetery – Kerb Installation



New Kuranda Cemetery – Kerb Installation

Infrastructure Services Capital Works Report Project Highlights – October 2023



Project Name: Bicentennial Lakes Revitalisation Project

Program: Parks and Open Spaces

Background

This project will activate the Lakes, breathing life back into the area and surrounds for the enjoyment of our community and visitors.

Scope of Work

The Bicentennial Lakes Project will completely revitalise the Lakes, starting in the southern section between Rankin Street and Keeble Street. In the southern section, the weirs will be removed, and the lakes will be filled to allow for more parkland. A watercourse will remain, although it will be narrower to encourage seasonal rains to flow through into the northern section. Water will no longer stagnate in a series of weirs. The increased parkland will allow for the addition of a playground and outdoor facilities.

Key Features:

- Bulk earthworks to improve the movement of water
- Earthworks to increase parkland in the southern section
- Construction of a playground and pump track
- New toilet facility
- Footpath improvements
- Construction of outdoor facilities

Progress Update

Waterway improvements

The weirs have been removed in the Southern Lakes precinct; the silt is being removed from the drained lakes and rock lining is being installed to reshape into a gully.

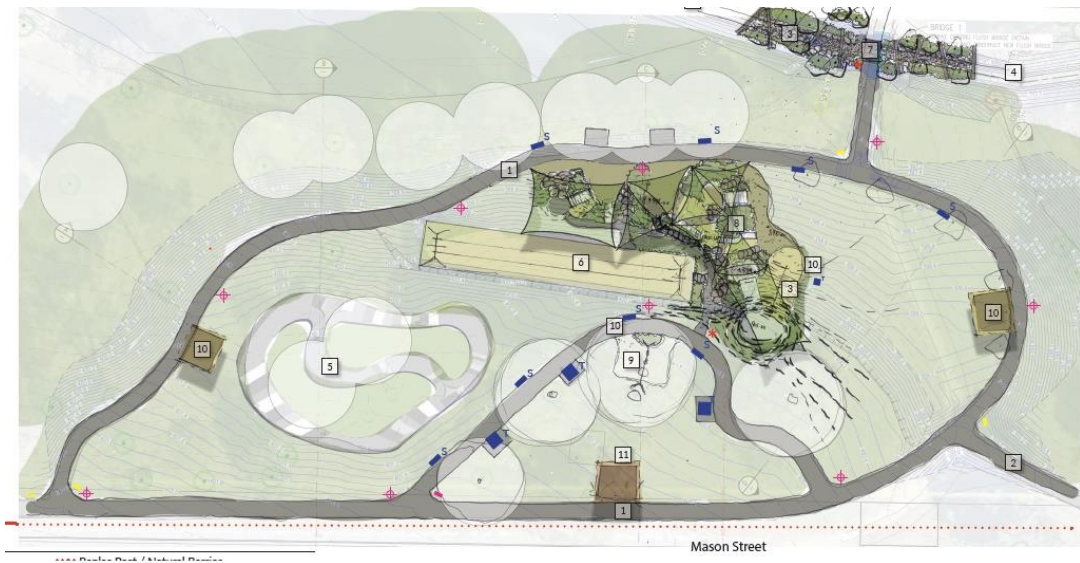
Mason Street Playground

A contract has been let for the pump track construction and construction works are scheduled to commence in mid-November 2023 and is scheduled for completion in the New Year.

Toilet construction works are underway.

Playground equipment including a flying fox, hill slides, rope climb net and swing are being manufactured.

Infrastructure Services Capital Works Report Project Highlights – October 2023



Bicentennial Lakes Southern Precinct Playground Concept Plan



Bicentennial Lakes Southern Section Reconfiguration Rock Lining Installation

**Infrastructure Services Capital Works Report
Project Highlights – October 2023**



Bicentennial Lakes Southern Section Reconfiguration Rock Lining Installation



Bicentennial Lakes Southern Section Reconfiguration

Infrastructure Services Capital Works Report Project Highlights – October 2023



Project Name: Dimbulah Pump Track

Program: Parks and Open Spaces

Background

As part of the Parks and Open Spaces Strategy, Council engaged with the Dimbulah community to identify a new play feature for the town. The clear feedback received was that tweens and teens needed to be catered for as well as younger children. The agreed outcome was that a pump track would provide an active recreation option suitable for all ages. As part of the project, a new fence will be installed between the playground and the highway. It was also identified that an old steel skate bowl on the outskirts of town and play equipment in the Dimbulah Memorial Hall Park that has reached end of life will be removed for safety.

Scope of Work

- The design to include a variety of features including berms, rollers, jumps and change of direction options.
- Approximately 130 lineal meters of asphalt track.
- Total track to consist of 350m² of asphalt.
- Line marking on asphalt.
- 400M² of turf for reinstatement upon project completion.
- Approx 80LM of 1200mm high, Banksia Weldmesh Rolltop fencing & 2 access gates.

Progress Update

Construction has commenced and earthworks are continuing to shape the pump track.



Infrastructure Services Capital Works Report

Project Highlights – October 2023



Dimbulah Pump Track Location



Dimbulah Pump Track Foundation Earthworks



Dimbulah Pump Track Shaping Earthworks



Dimbulah Pump Track Shaping Earthworks

Infrastructure Services Capital Works Report Project Highlights – October 2023



Project Name: Bilwon Road Biboohra – Road Rehabilitation and Culvert Upgrade

Program: Rural Roads

Background

In 2021, Council received a request through the Traffic Advisory Committee from the Queensland Police Service to undertake a safety review on a section of Bilwon Road between Querin Road and Rosing Road in response to a number of non-fatal traffic accidents. As a result of the review, a project was adopted and Roads to Recovery funding was allocated to the project in the 2022/2023 Capital Works Program.

Scope of Works

The scope of works includes the rehabilitation of the existing section of road, replacement of the 1800 diameter reinforced concrete pipes, generally improve the vertical alignment, upgrade the intersections at Querin Road and Rosing Road, and provide new driveway crossovers to several residences to match the new levels.

Progress Update

The project was completed in early October with the installation of the guard rail followed by line marking.



Before



After



Before



After

Infrastructure Services Capital Works Report Project Highlights – October 2023



Project Name: Springmount Road – Curve and Culvert Widening Ch 13.18 - Ch 18.10

Program: Rural Roads

Background

Springmount Road is classed as a Local Road of Regional Significance (LRRS) under the Roads and Transport Alliance and a critical transport route, servicing the regional sugar mill and landfill facilities as well as quarrying and agricultural properties.

In 2020, Council received a request through the Traffic Advisory Committee from a representative from the heavy transport industry to widen several curves on Springmount Road to provide adequate lane widths to cater for heavy vehicles.

Council received Federal Government funding from the Heavy Vehicle Safety and Productivity Program (HVSPP) to undertake curve and culvert widenings on Springmount Road. The grant will cover 80% of the design and construction costs with the Queensland Government’s Transport Infrastructure Development Scheme (TIDS) contributing 10% and Mareeba Shire Council the remaining 10%.

Scope of Works

The scope of works includes the widening and bitumen sealing of curves and associated culverts between chainage 13.18km and chainage 18.10km on Springmount Road. Extensive culvert inlet and outlet works were required to de-water some of the existing culverts that have silted up after many years.

Progress Update

Culvert headwall, wingwall and apron installations continued throughout October along with pavement widening works. The first of two bitumen seals for the pavement widening was completed on 26 October with the final seal expected to be undertaken in mid November.



Culvert apron prior to pouring

Infrastructure Services Capital Works Report Project Highlights – October 2023



Pumping concrete for culvert apron



Milling out existing pavement



Sealing of pavement widening

Infrastructure Services Capital Works Report Project Highlights – October 2023



Project Name: 2023/24 Gravel Re-Sheet Program

Program: Gravel Re-Sheet

Background

Council has an extensive road network and is responsible for 1,639km of unsealed roads. Unsealed roads lose gravel over time which requires the placement of additional gravel. This process is called 're-sheeting' and involves reshaping of the roads and drainage as needed, prior to placing, shaping and compacting new gravel road material. An annual allocation has been provided to undertake re-sheeting of gravel roads throughout the Shire.

Progress Update

During October, re-sheeting of various sections of Bolwarra Road commenced. The re-sheeting will cover areas of exposed rock and locations that are prone to pavement failure during the dry months. The total length of re-sheeting is estimated to be 15km.

The re-sheeting material is being sourced from stockpiled gravel on the road reserve and from several pits on Bolwarra Road that Council accesses under its Sales Permit issued by the Department of Agriculture and Fisheries.



Road reserve stockpile



Rilled re-sheeting material



Side tipping truck delivering material to the road



Laying out re-sheet material

Project Code	Project Description	Project Stage	Project Comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)			
P0001020	23/24 Reseal & Asphalt Program	Construction	At prestart meeting fgf indicated MSC reseals may be undertaken in December. No final works program received as yet.
P00835	BETTERMENT Co-Contribution	Procurement	Gully Betterment approved by QRA and construction contract documentation being finalised.
Program: 02 Gravel Resheet			
P0001022	23/24 Gravel Resheet Program	Procurement	Re-sheeting of various sections of Bolwarra Road commenced in October. The total length of re-sheeting is estimated to be 15km.
Program: 03 Urban Streets			
P0001023	Recovery Way (WTS) Rehab Ch 0.176-0.272	Not Commenced	Waiting on advice regarding R2R funding.
P0001024	Myola Rd Ch 0.2-3.06	Not Commenced	Waiting on advice regarding R2R funding.
P00791	Hastie/Constance Upgrade (School)	Procurement	In procurement.
P00795	TIDS 23-27 Herberton/Constance Inter	Design	Detailed design in progress.
P00797	TIDS Rankin/Walsh St Roundabout	Design	Preliminary design report received and returned to consultant with comments.
P00943	Design Only Mclver Rd Ch. 0.00-7.20	Design	Design to be progressed in 2024.
Program: 04 Rural Roads			
P0000948	TIDS 23/24 Springmount Rd Ch 11.35-12.7	Design	Final plans expected by mid November.
P0000949	TIDS 23-25 Springmount Rd Ch 6.7-7.55	Procurement	Procurement underway.
P00801	TIDS Ootann Rd Section 1&2 Widen & Seal	On Hold	On hold pending Federal Government funding review.
P00802	TIDS Springmount Rd - Ch13.2 to 18.1	Construction	Culvert headwall, wingwall and apron installations continued throughout October along with pavement widening works. The first of two bitumen seals for the pavement widening was completed on 26 October with the final seal expected to be undertaken in mid November.
P00836	R2R Bilwon Rd Rehab & Culverts	Completed	The project was completed in early October with the installation of the guard rail followed by line marking.
Program: 05 Bridges			
P00711	Granite Ck Mba Replace Footbridge Deck	Not Commenced	Not commenced.
P00712	Palm Cl Mba Replace Footbridge Boards	Procurement	Timber decking ordered. Work will carry over into 2023/24 financial year.
P00713	Bicentennial Lakes F/bridge Safety Upgr	Procurement	Work will be done in conjunction with Bi Lakes southern upgrade.
P00839	Bullaburrah Ck Rd C'way Relieving Slab	Not Commenced	Not commenced.
P00840	Clohesy River Barron St Inspect & Design	Design	GHD to undertake review of previous design and advise as to whether it remains suitable as replacement project.
P00841	Bolton Rd Inspect/Design/Repl Girders	On Hold	Draft report received, review underway.
P00842	Barron Riv. Bridge Oakforest Rd Insp/Des	Design	GHD Load Assessment completed, report anticipated by mid November.
P00843	Barron River Cwy Henry H Dr Repl Slabs	Not Commenced	Not commenced.

Project Code	Project Description	Project Stage	Project Comment
Program: 06 Drainage			
P0001021	23/24 Minor Culvert & C/ways Program	Construction	Four culvert road crossings installed on Pickford Road in September.
P00844	MBA Amaroo Drainage Upgrades	Design	Design works to commence November, anticipate completion February 2024
P00845	MBA Hastings Dr Replace Concrete Pipe	Construction	Repair options under review.
P00938	Tilse Street Upgrade Drainage	Construction	Stormwater Pit rectification works commenced by developer in October.
Program: 07 Traffic Facilities			
P0000947	Mareeba Aerodrome Safety & Repairs	Construction	Hydraulic Consultant has provided the specifications for remediation works. Replacement pumps have now been received.
P0000951	Anzac Ave LATM Upgrades	Design	Initial concept prepared.
P0001025	Design Only Byrnes St Accessibility	Planning	Stormwater capacity assessment commenced.
Program: 08 Parking			
P00715	Borzi Park Mba Carparking Masterplan	Design	Concepts prepared and under review.
P00846	MBA Heritage Centre Carpark Extension	Design	Layout Plan and Quantities provided for pricing. Options provided to Council.
Program: 09 Footpaths			
P0001026	23/24 Footpath Renewal Program	Design	Basic drawings of sites being finalised before quotations are called.
P0001027	23/24 Footpath Upgrade Program	Planning	Locations to be identified.
Program: 10 Parks and Gardens			
P0001028	Mary Andrews Park Repaint Play Equip	Construction	Refurbishments have commenced.
P0001029	Kda Com Precinct Parks Upgrade	Planning	Planning to progress in 2024.
P0001030	Mba-Dim Rd/Mulligan Hwy Intersection	Not Commenced	To be undertaken after March 2024.
P0001031	Byrnes St Median Hedges (Lloyd-Granite)	Not Commenced	To be programmed for after March 2024.
P00794	LRCIP2 Mba Byrnes Street Medians	Construction	New street bins to be installed from mid November.
P00805	Chillagoe Parks Improvement	Construction	RFQ submissions for half sized Basketball courts received. Molloy Constructions awarded works. Works to commence early January 2023.
P00806	DIM Parks Refresh	Construction	Pump Track works progressing well with works to be complete late November 2023.
P00807	KDA Centenary Park Playground Upgrade	Construction	Playground completed.
P00809	MBA Bicentennial Lakes (Southern) D&C	Construction	Waterway reconfiguration progressing. Playground equipment in manufacturing. Toilet construction commenced.
P00817	MBA Byrnes St Medians	Not Commenced	Project to be programmed for after March 2024.
P00818	MBA Anzac Memorial Pk L'scaping & Safety	Construction	Signage works to be completed November 2023.
P00853	MBA Byrnes St Traffic Islands (BP)	Not Commenced	Commence project after March 2024.
P00855	MBA Connection Rd/Byrnes St Intersection	Not Commenced	Commence project after March 2024.
P00860	KDA Anzac Park Landscaping	Design	Design under review following public consultation.
P00861	KDA Coondoo Street Refurb	Design	On hold pending grant application outcome.
P00862	KDA CBD Planter Boxes & Gardens	Not Commenced	On hold pending grant application outcome.

Project Code	Project Description	Project Stage	Project Comment
P00865	IRV Bill Newburn Park Refresh	Procurement	Shelter and swing set installation expected in December 2023/January 2024.
P00939	Roscommon Park -Renew Exercise Equipment	Procurement	Equipment installation expected in December 2023/January 2024.
Program: 11 Water			
P0001032	Chillagoe WTP Construct Storage Shed	Construction	Works to commence mid November.
P0001033	Chillagoe WTP Construct Roof over Plant	Construction	Works to commence mid November.
P0001034	Ibis Dam Replace Inlet Feed Pipeline	Planning	Stores have ordered materials, once they arrive actual installation works will commence.
P0001035	23/24 WTP Minor Infra Replace Program	Construction	Various minor projects under way which include the Dimbulah WTP chlorination works and Mareeba WTP sludge lagoon concreting.
P0001036	23/24 AC Water Main Replace Program	Construction	Works underway with contractor making good progress.
P0001037	23/24 Water Telemetry/SCADA Upgrades	Planning	W&W along with IT participating in a presentations by iControl on Ignition Historian and with Parasyn on Canary as the current Historian eDNA is at the end of its useful life. Following the presentations a decision will be made on which new Historian platform for W&W will be acquired.
P0001038	23/24 Retic Valve/Hyd Replace Program	Construction	Works progressing now materials have arrived.
P0001039	23/24 Retic Smart Meter Replace Program	Construction	Works on installation of new meters underway and this work will progress for some time.
P00730	Mba WTP Study for Upgrade of WW System	Construction	Estimated completion early to mid 2024.
P00733	BOR6 MWTP Filtration Upgrade	Construction	Contractor on site with civil excavation works underway. There are some long lead times on equipment arrivals though at this stage not expected to hold project up but will advise as things progress.
P00824	MBA Clear Water Booster Pump Station	Construction	Contractor has mobilised to site with civil works underway, again there are some very long lead times on critical equipment items for this project and will advise as things progress but at this stage the project is on schedule.
P00874	MBA WTP Raw Water Pumps & Electrics	Construction	Project work is underway with manufacturing of new electrical switchboard, it's estimated that the switchboard and electrical cabling will be installed late November through December with internal pump station works to follow.
P00876	BOR6 22/23 Water Forward Design Program	Design	Although works are completed and project could be closed out Council are waiting on advice to whether residual funds can be attributed to the Raw Water Pump Station project design .
P00877	MBA Additional Pressure Reduction Valves	Construction	This work is being done in conjunction with the booster pump station project. It should be highlighted there is a 28 week lead time on the delivery of equipment from France.
P00878	MBA Deommission Basalt St Elevated Tank	Construction	This work will be done in conjunction with the commissioning of the booster pump station.
P00879	MBA Decommission Granite Ck Pump Station	Planning	Project cannot commence until the new water booster station project has been commissioned.

Project Code	Project Description	Project Stage	Project Comment
P00882	WTP Minor Infrastructure Replacements	Construction	Works will be completed mid to late December.
P00883	MBA WTP Clarifier Infra Process Improv.	Design	Design report completed and received. Project funds could be used for grant seed funding on next BOR grant program.
Program: 12 Wastewater			
P0001040	Mba WWTP Install Gantry (Blower Room)	Planning	Design works with OSE Group. Design options due week ending 10 November 2023.
P0001041	Mba WWTP Inlet Works Replacements	Construction	New screens ordered and being manufactured, once they're made they'll be shipped to site and installed.
P0001042	Kda WWTP Intet Works Replacements	Construction	New screen being manufactured and once made will be shipped to site and installed.
P0001043	Atherton St Pump Station Refurb	Not Commenced	Project subject to grant funding.
P0001044	Robins St SPS Rising Main Upgrade	Not Commenced	Project subject to grant funding.
P0001045	23/24 WW Retic Pump Renewal Program	Planning	An assessment will be made during the routine pump servicing in November on which pump/pumps require replacing.
P0001046	23/24 WW Telemetry/SCADA Upgrades	Planning	W&W along with IT participating in presentations by iControl on Ignition Historian and with Parasyn on Canary as the current Historian eDNA is at the end of its useful life. Following the presentations a decision will be made on which new Historian platform for W&W will be acquired.
P0001047	23/24 WW CCTV & Relining Program	Construction	Contracts have just been signed off on and works will commence on the regional program with MSC's section to be scheduled in due course.
P0001048	SPS New Standby Generators	Construction	New generators now positioned at relevant pump stations. Electrical and telemetry connections will be done as soon as practical.
P0001049	23/24 WW Manhole Rehab/Replace Prog	Construction	Project tender now awarded and contractor to complete works by end of financial year.
P0001050	Kennedy Hwy PS Control Board Upgrade	Construction	Project under way with the manufacturing of the new switchboard. Once built it can be shipped to site and installed.
P0001051	Mba WWTP Sewer Pump Replacement	Procurement	Supervisor Treatment Operations placed an order for the new pump, once it arrives it will be installed. There is a 12 to 16 week lead time on delivery.
P0001052	23/24 WWTP Minor Infa Renewal Program	Construction	Works currently underway and should be completed this financial year.
P0001053	23/24 WWPS Refurbishment Program	Construction	Working with suitable consultants and suppliers to understand the works required at some key SPS's before commencing works and councils fabricator completed the upgrading of shelters to the pump stations in Kuranda.
P00886	MBA Bi-Lakes Sewer Main Capacity	Construction	QRail have finally provided Wayleave Approvals for the four rail corridor crossing works. Contractor has now mobilised a second team to ensure the works are completed by 22 December.
P00889	22/23 MBA Sewer CCTV & Relining	Construction	Final lines hopefully completed mid to late November and using assistance from Council's reticulation team for night works.
P00894	Minor WW Pump Station Refurbishments	On Hold	Subject to grant funding.

Program: 13 Waste

Project Code	Project Description	Project Stage	Project Comment
P0001054	23/24 Mba L/Fill Leachate Pump Replace	Planning	An assessment will be done in the November service round on which pumps to replace.
P0001055	23/24 Mba L/Fill PS Pump Replace	Planning	An assessment will be done in the November service round on which pumps to replace.
P00935	MBA/KDA Transfer Station Security Improv	Construction	Contractor has been engaged and once their equipment arrives the works will commence.
Program: 15 Fleet			
P0001066	Fleet Replace #14 Grader Caterpillar	Procurement	Purchase order raised and sent. Expected delivery March/April 2024
P0001067	Fleet Replace #401 Mini Excavator	Planning	Currently in planning stage.
P0001068	Fleet Replace #619 Job Truck Tipper	Procurement	Tenders received, evaluations in progress.
P0001069	Fleet Replace #1206 Mitsu Pool Vehicle	Procurement	Tenders received, evaluations in progress.
P0001070	Fleet Replace #1210 Mitsu Pool Vehicle	Planning	Currently in planning stage.
P0001071	Fleet Replace #1231 Toyota WW	Procurement	Tenders received, evaluations in progress.
P0001072	Fleet Replace #1313 Nissan Dual Cab	Procurement	Tenders received, evaluations in progress.
P0001073	Fleet Replace #1402 Mazda Oncall Veh	Procurement	Tenders received, evaluations in progress.
P0001074	Fleet Replace #2055 Mitsu P&G	Procurement	Tenders received, evaluations in progress.
P0001075	Fleet Replace #4050 Kubota Zero Turn	Procurement	Tenders received, evaluations in progress.
P0001076	Fleet Replace #4051 Kubota Out Front	Procurement	Tenders received, evaluations in progress.
P0001077	Fleet Replace Jet Rodder Trailer	Completed	Machine has been delivered, waiting handover training, 7/11/2023.
P0001078	Fleet New Caterpillar Mini Excavator	Procurement	Waiting delivery. Possible delivery Nov 2023.
P00427	GPS Vehicle Management System	In Progress (for the non-infrastructure projects)	As new equipment comes on line, Procurement will commence. Expected Dec 2023.
P00915	Fleet Replace #675 Crew Cab Tipper	Procurement	Truck received and with the body fabricator. Waiting delivery date from supplier.
P00916	Fleet Replace #623 Crew Cab Tipper	Procurement	Truck received and with the body fabricator. Waiting delivery date from supplier.
Program: 16 Depots and Council Offices			
P0001064	Mba Depot Admin Building Refurb	Design	Design works and Scope continuing.
P0001065	Mba Depot Stores Mez Floor Safety Upgr	Planning	Waiting on the Contractor to install joists and stairs. Once finished the old flooring will be removed and replaced.
P00759	Kowa St MSC Depot Emergency Generator	Planning	Options under review.
Program: 17 Community Buildings			
P0000950	Cedric Davies Hub Disaster Resilience Up	Construction	Works to commence mid - late November 2023.
P0001056	Chillagoe Hall Septic Modifications	Procurement	Design works completed. RFQ submissions due 10 November 2023.
P0001057	Mba Aquatic Fac Pump Shed Upgrades	Planning	Repair works have been completed. Scope of Works out for the fencing of the open area.
P0001059	Mba/Dim Aquatic Condition Assessment	Planning	Condition Assessment scope of works in development. Expect Quotations to be sought end of 2023.

Infrastructure Services Capital Works Summary Report - October



Project Code	Project Description	Project Stage	Project Comment
P0001060	Dimbulah Hall Replace Roller Doors/Gates	Construction	Installation planned for November.
P0001061	Dimbulah Hall Replace Roof	Completed	Major works completed.
P0001062	23/24 Amenities Refurbishment Program	Planning	All fixtures have been upgraded. Quote for painting has been awarded. Repairs to the female toilet will be completed by 10 November and painting will commence.
P0001063	Davies Park Lighting Upgrade	Design	Preliminary Lighting design received for use with grant funding application.
P0001087	Aquatic Facilities Equipment	Procurement	Pool Blankets and Chair Lift onsite, awaiting Lessee installation.
P0002902	SES SUPPORT Kda SES External Facility	Procurement	RFQ submissions received 2 November 2023. Works awarded to Mareeba Sheds and Gas.
P00749	Aquatic Facility Upgrades & Splash Park	Completed	Splash Park and pool heaters are operational. Minor emergent electrical upgrades are planned.
P00793	MBA Women's Restroom Refurb	On Hold	Waiting on Assessment Report.
P00819	22/23 Shire Toilet Facility Repl Program	Construction	Mareeba Cemetery and Vains Park complete. Aerodrome Toilet confirmation of completion underway.
P00827	MBA Community Hub Signage & Seating	Construction	Shelter and seating completed.
P00905	KDA Community Prec. Toilet Refurb	Completed	Painting works completed.
P00909	KDA Aquatic Cnt 25m Pool Aquaris Upgrade	Procurement	Awaiting receipt of 2nd & 3rd quotes from suppliers, it has proven difficult to source contractors for works.
P00910	22/23 MBA Roof Replacement Program	Completed	Works now completed.
P00941	23/24 Park/Sporting LED Lights Arnold Pk	Design	Electrical Engineer undertaking design. Waiting on the report due to staff shortage from contractor.
P00942	22/23 DIM Town Hall A/C/Solar/Lighting	Design	Electrical engineering design commenced.
Program: 18 Non-Infrastructure Items			
P0000946	Mba Cemetery New Mausoleum Wall	Construction	Works commenced. Under slab completed.
P0001058	WAT Cemetery Lawn Plaque on Beam	Not Commenced	Not commenced.
P0001083	Tech New Drone & Software	Close Out	Drone received, minor parts yet to be received.
P0001084	Mba Cemetery New Lawn Beam (x2)	Not Commenced	Will be completed this calendar year.
P0001085	Mba Cemetery Expansion Planning	Not Commenced	Not commenced.
P00446	Kuranda New Cemetery	Construction	Earthworks are complete. Contractor looking to secure dates for bitumen and asphalt pavement works pre-christmas.
P00932	MBA MIP Expansion	Planning	Draft Masterplan to be received.

9.3 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - OCTOBER 2023

Date Prepared: 17 October 2023
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, Facilities and Investigation Services activities undertaken by Infrastructure Services during the month of October 2023.

RECOMMENDATION

That Council receives the Infrastructure Services, Technical Services Operations Report for October 2023.

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

Investigation activities undertaken in October included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	80	23
Drainage Investigations	24	2
NHVR Permit Applications	0	48
Traffic Count Surveys	0	10
Parks Investigations	3	1
Miscellaneous e.g., Planning; Local Laws	30	12
Before You Dig Requests	0	61

Soil Laboratory:

Council's Soil Laboratory provides NATA-accredited soil and material testing for internal and external services. Approximately 114 tests were undertaken during the month, with just over half of that being for External Clients.

Asset Inspections:

Facility asset condition and defect inspections continue, and a review of internal facility processes/practices is underway to seek efficiency improvements. Inspections are currently targeted towards assisting in the development of Asset Management sub plans.

Ongoing improvements to GIS data associated with water, sewerage, roads, underground stormwater, and kerbs asset data sets continues, as information is received from other areas of Council. An internal data improvement project for stormwater assets has resulted in improved asset and condition data within the Mareeba Township, with Kuranda Township soon to be completed.

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
Kuranda	Jum Rum Rainforest Estate Stage 1, Fallon Road	Under construction
Mareeba	Prestige Gardens Stage 1-6	Under construction
Mareeba	Catherine Atherton Drive	Under construction
Mareeba	Emerald End Road and Country Road	Under construction
Mareeba	Amaroo Stage 13a	On-maintenance
Mareeba	Amaroo Stage 12	On-maintenance
Mareeba	7 Haren Street	On-maintenance
Mareeba	Kenneally Estate Stage 4	Off-maintenance
Mareeba	Mareeba Roadhouse and Accommodation Park, Williams Close	On-maintenance - Monitoring
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	Far North Queensland Low Pressure Trough, that occurred 1 – 7 February 2022. Contracts awarded for restoration works are progressing well, with the Western and Dimbulah contracts having reached practical completion and the others nearing completion. Gamboola Crossing bridge construction in progress.
2022 Betterment	QRA approval received, and construction contract documentation being finalised.
2023 DRFA	Northern and Central Queensland Monsoon and Flooding Event, 20 December 2022 – 30 April 2023. Focus on finalising damage assessments/submission for QRA consideration as well as preparing reconstruction contracts for priority locations.
2023 Fires	A number of fires within communities have been responded to by QFES, with Council providing support on request, i.e. traffic management, plant engagement, etc.

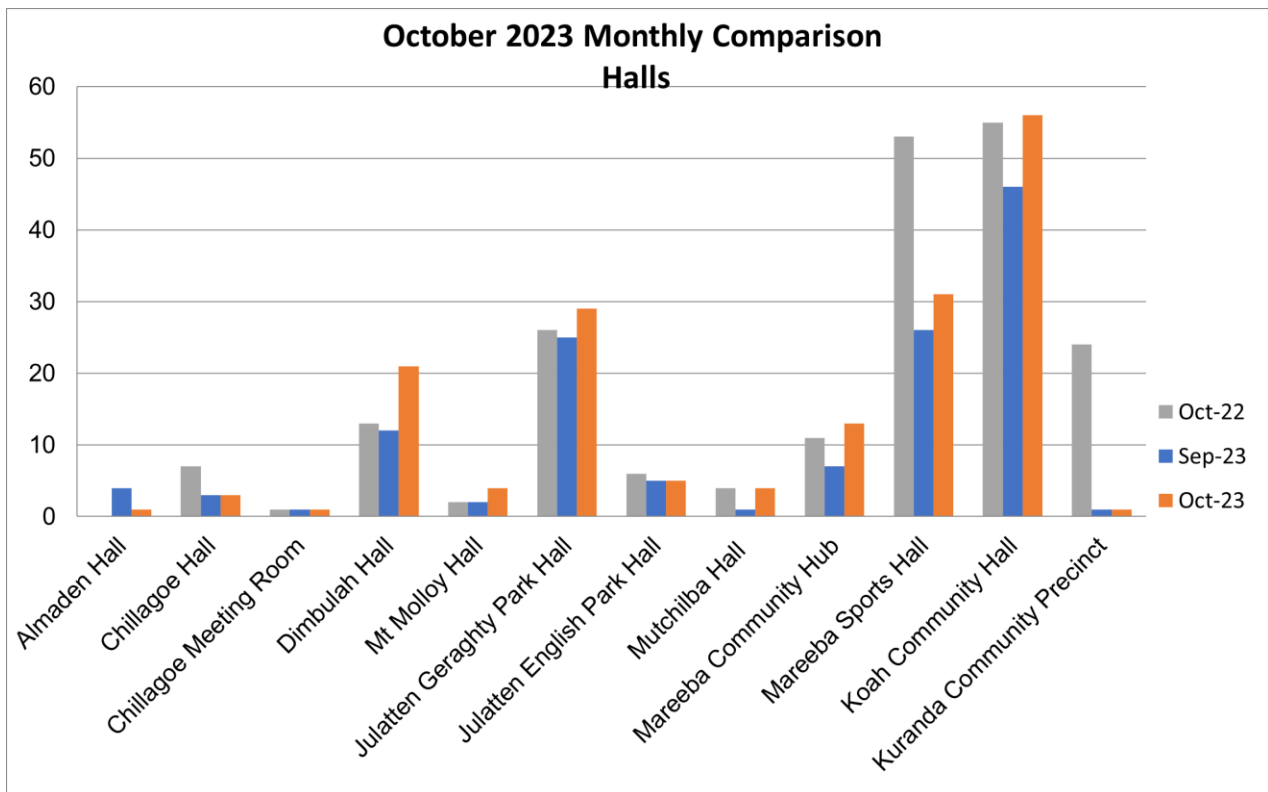


Gamboola Crossing over Mitchell River, Strathleven Road – construction of bridge piers and headstocks in progress

Facilities

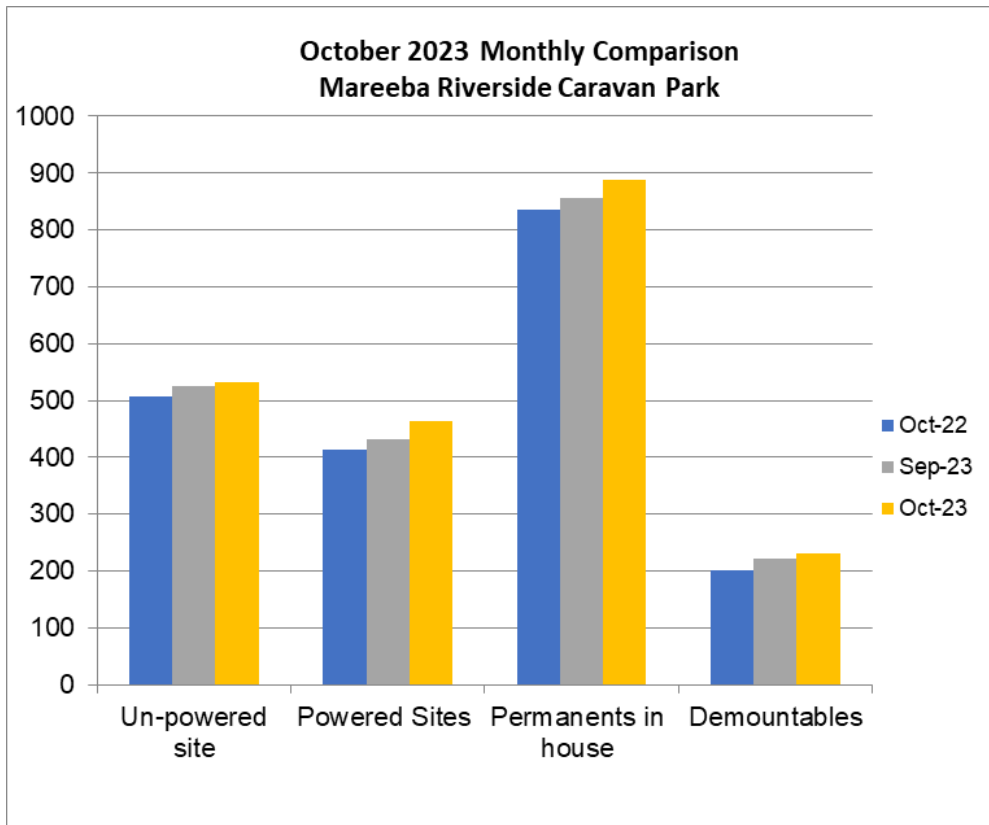
Community Halls:

Maintaining safe and efficient access to Council’s Community Halls is recognised as an important aspect for the community’s ongoing wellbeing. Improvement in attendance numbers comparative to both previous months and years was generally recorded across the portfolio.

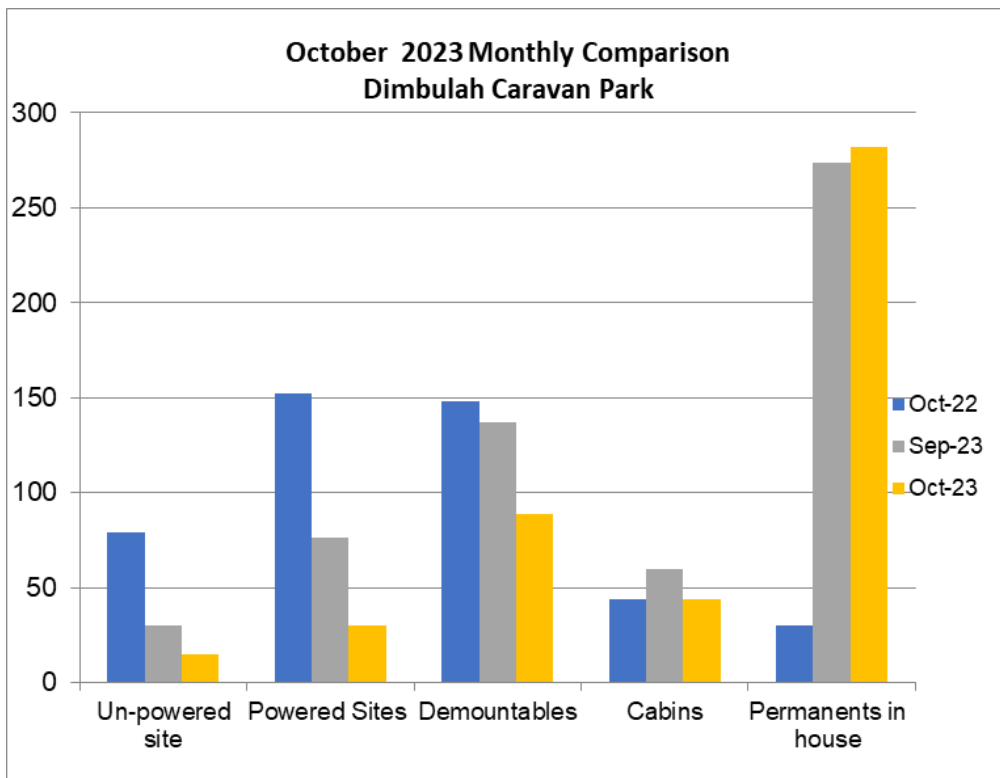


Caravan Parks:

Mareeba Riverside Caravan Park tenant numbers have continued to improve across all sectors.

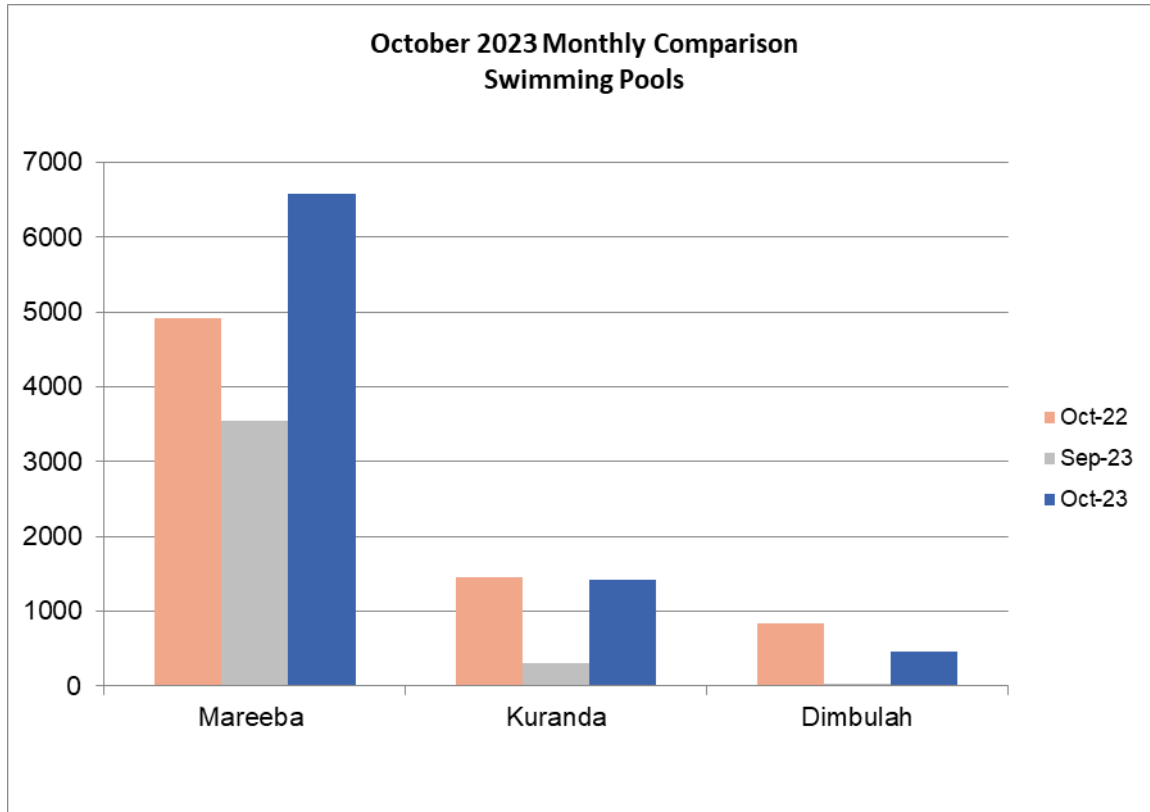


Dimbulah Caravan Park visitor numbers have generally remained constant. The decline in camping/caravan and increase in longer term stays is largely due to a change in the reporting method between the current lessee compared with the previous lessee.



Aquatic Centres

Attendance numbers for Mareeba have strengthened through October, while Kuranda and Dimbulah have generally remained consistent with previous years entries. Numbers are anticipated to remain strong due to warmer temperatures now being experienced within the region, as well as the availability of the Splash Park at Mareeba.



Vandalism & Graffiti:

During October, six (6) reports of vandalism and graffiti were recorded for Council facilities, with annual costs provided below;

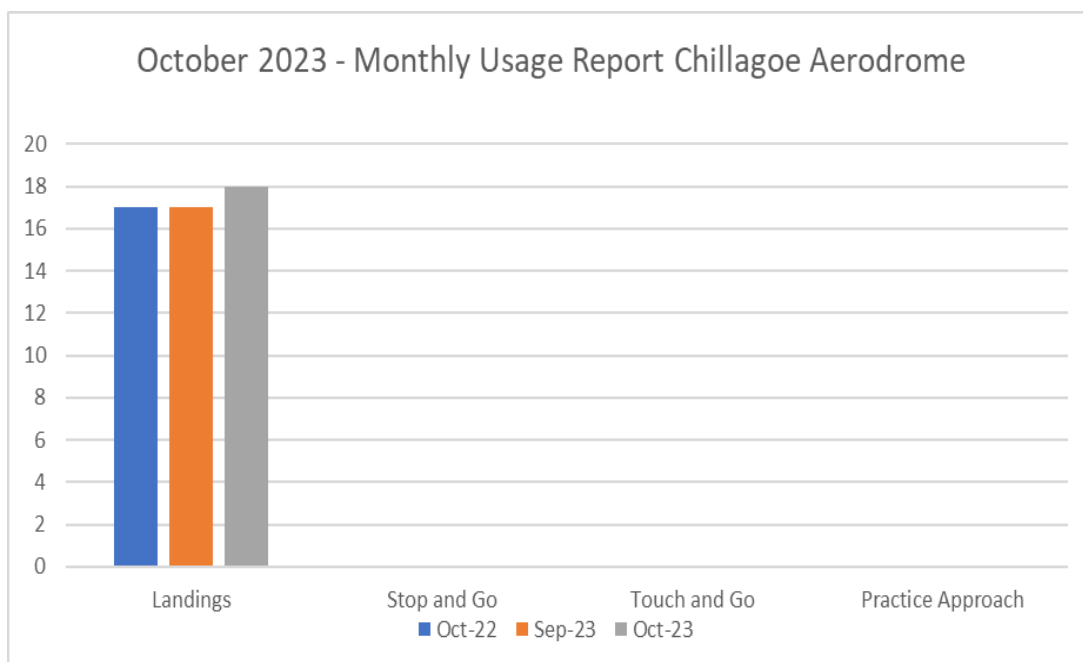
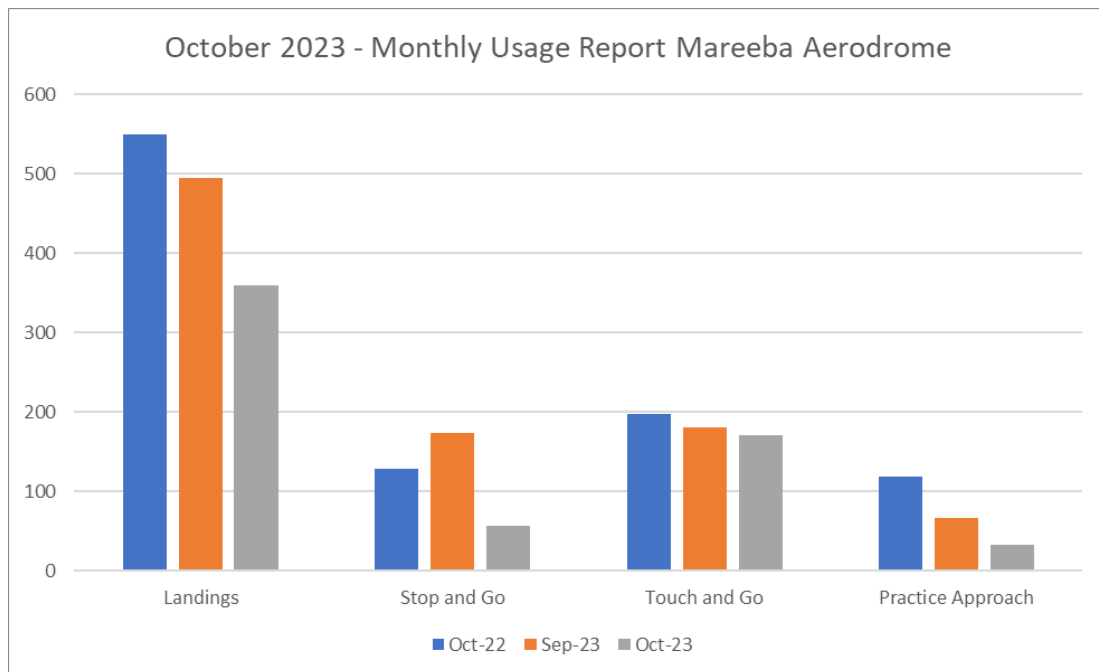
Financial Year	Actuals	Comments – October 2023
2015/16	\$ 2,134.00	<ul style="list-style-type: none"> • Dimbulah Heritage Park Lighting - Vandalism x1 • Mareeba Centenary Park Toilets – Vandalism x1 • Mareeba Davies Park Toilets – Graffiti x1 • Mareeba Rankin St Office – Graffiti x1 • Mareeba Sports Hall – Graffiti x1 • Mareeba Sports Hall – Vandalism x1
2016/17	\$ 16,546.00	
2017/18	\$ 23,948.00	
2018/19	\$ 14,851.00	
2019/20	\$ 14,211.18	
2020/21	\$ 62,199.62	
2021/22	\$ 48,301.12	
2022/23	\$33,030.18	
2023/24	\$1,750.92	

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:

The data recorded below is current for the month of October, however there is usually a lag of some data for each current month from the service provider, which continues to be updated into the next month.

Utilisation has seen a general reduction for the month, which may in part be due to the weather conditions.



FINANCIAL AND RESOURCE IMPLICATIONS

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.

9.4 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - OCTOBER 2023**Date Prepared:** 17 October 2023**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 October 2023.

RECOMMENDATION

That Council:

1. receives the Infrastructure Services, Water and Waste Operations Report for October 2023; and
2. amends the Mareeba Transfer Station Fees & Charges to rename "*Skip Bin Fee*" to "*Commercial Bay Processing Fee*" to apply a consistent fee structure for commercial operators to dispose of their waste at the commercial processing bay for \$26 (incl GST) in addition to commercial waste charges.

BACKGROUND**Water and Wastewater Treatment:**

All treatment plants are generally performing satisfactorily. Water demand was varied across all schemes. Low rainfall in most catchments has resulted in increased consumption per connection compared with previous years.

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.

Data for Mt Molloy is unavailable for the month of October due to a faulty bulk flow meter. Parts are being sourced for replacement. Connections have been updated with information provided by the Rates Section to correspond with annual KPI reporting.

Water Treatment	Mareeba	Kuranda	Chillagoe	Dimbulah	Mt Molloy*
Water Plant average daily production (kL)	12,185	923	408	589	N/A
Number of Connections	4,141	1053	127	246	111
Average daily water consumption per connection (L)	2,942	876	3,213	2,394	N/A

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

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	2,078	201
Number of Connections	3,519	356
Average daily inflow per connection (L)	591	563

Mareeba Water Treatment Plant Upgrades:

Three (3) critical infrastructure projects at the Mareeba Water Treatment Plant (MWTP) have commenced as part of Council’s 10-year Water Strategy:

- MWTP Filtration System Upgrade
- MWTP Raw Water Pump Upgrade
- MWTP Booster Pump Station Upgrade

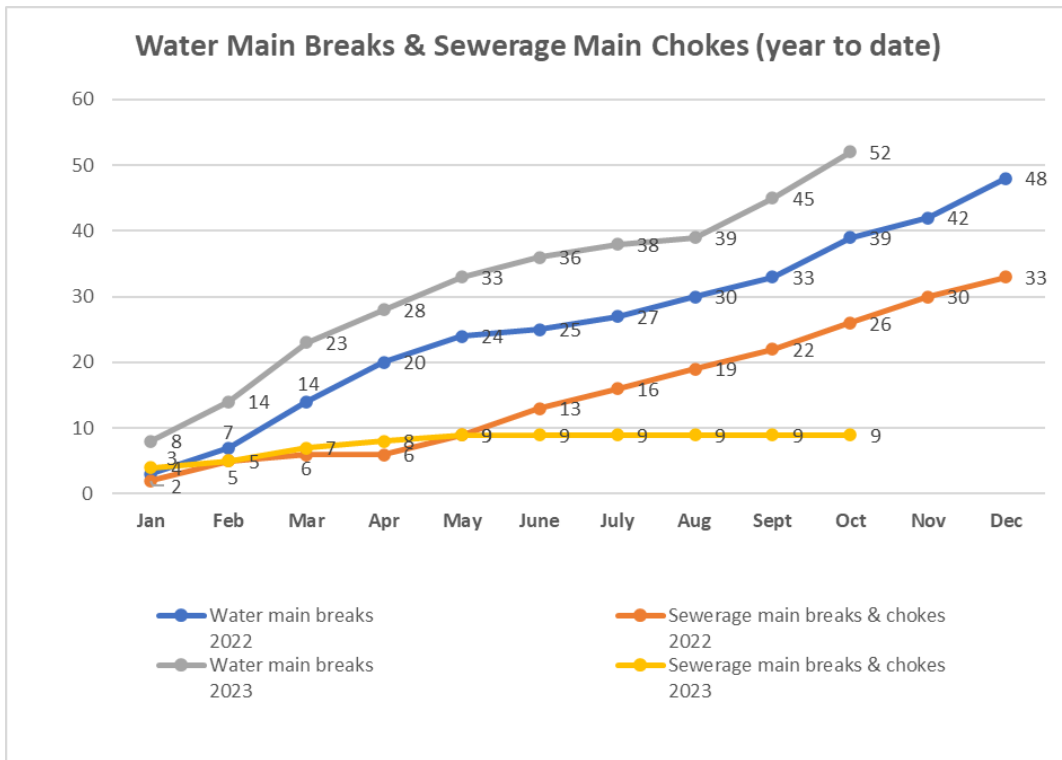
These projects will increase capacity of the plant and ensure that Council is able to supply safe water to residents and businesses in Mareeba now and into the future. Completion of the upgrades is programmed for mid-2024.

While these works occur at the Mareeba Water Treatment Plant there may be disruptions from time-to-time. As a result, the community has been asked to conserve water and reduce consumption during the upgrades. It may be necessary to introduce water restrictions to enable certainty of water supply to residents.

Water and Wastewater Reticulation:

Council's water reticulation crew attended to seven (7) water main break, and zero (0) sewer main breaks/chokes this month, and average response times were within targets set out in Council's customer service standard for water services.

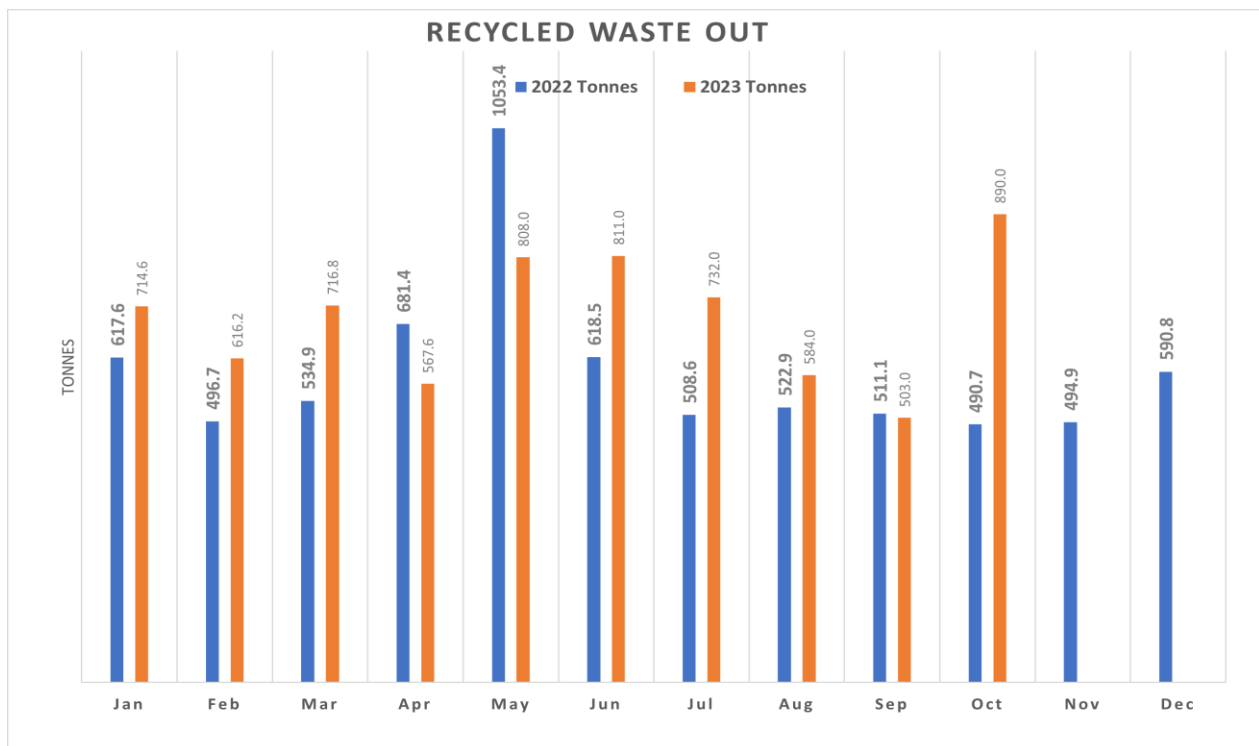
Monthly statistics are shown on the water reticulation main breaks and sewerage main breaks and chokes:

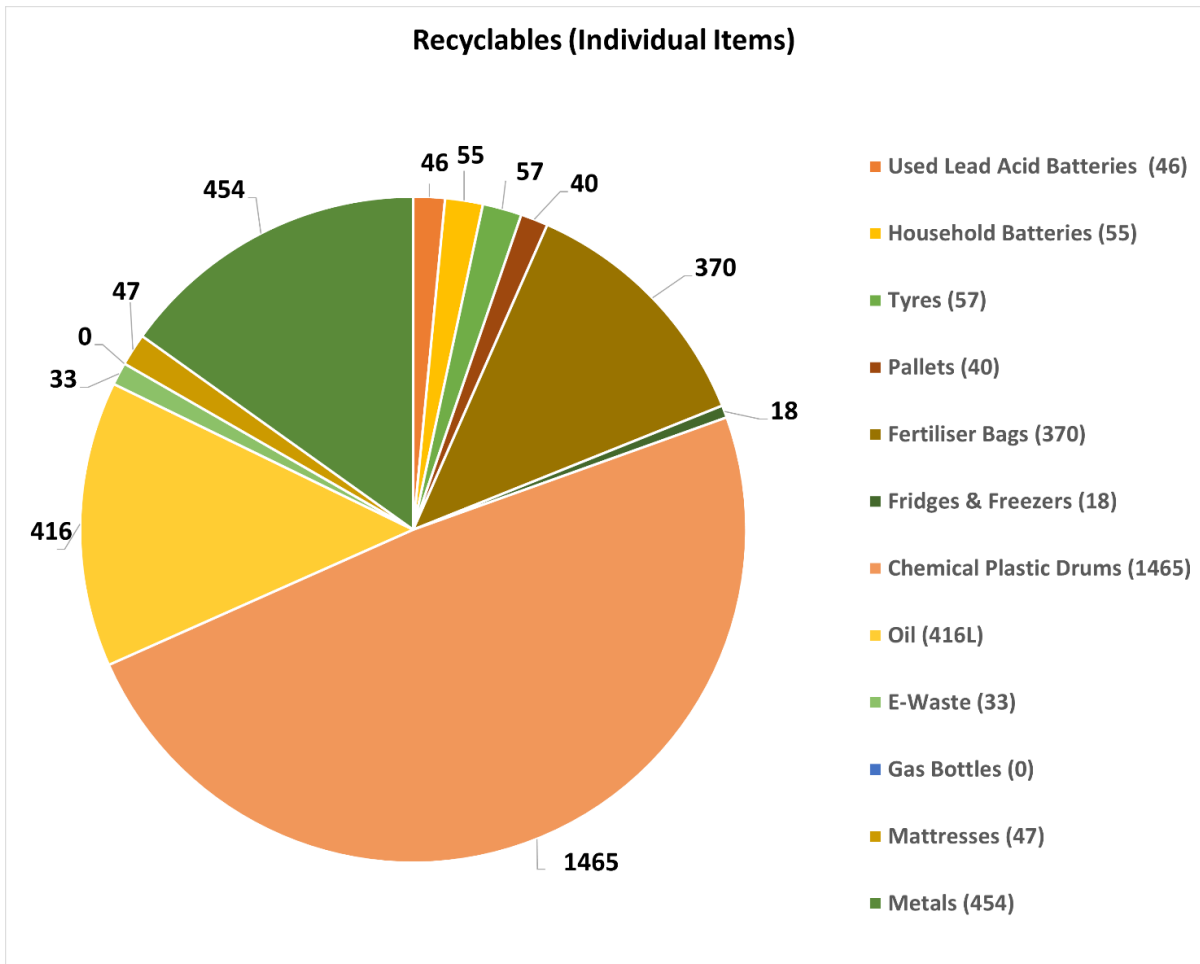


Waste Operations:

Recycling

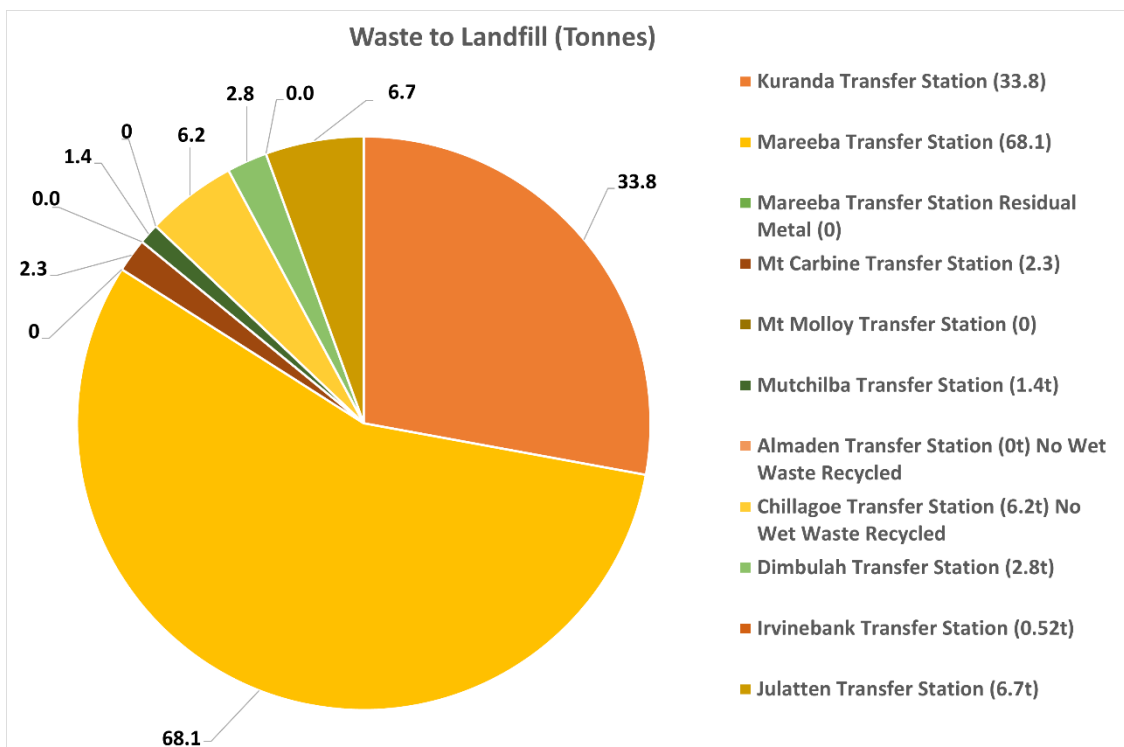
Waste material collected at each of the waste transfer stations are either deposited directly to the Springmount Waste Facility, recycled, or transported to the Veolia Advanced Resource Recovery Facility (ARRF) in Cairns for processing. During October, 468 tonnes of waste was processed through the ARRF, and 9 tonnes of domestic items were recycled at the MRF.





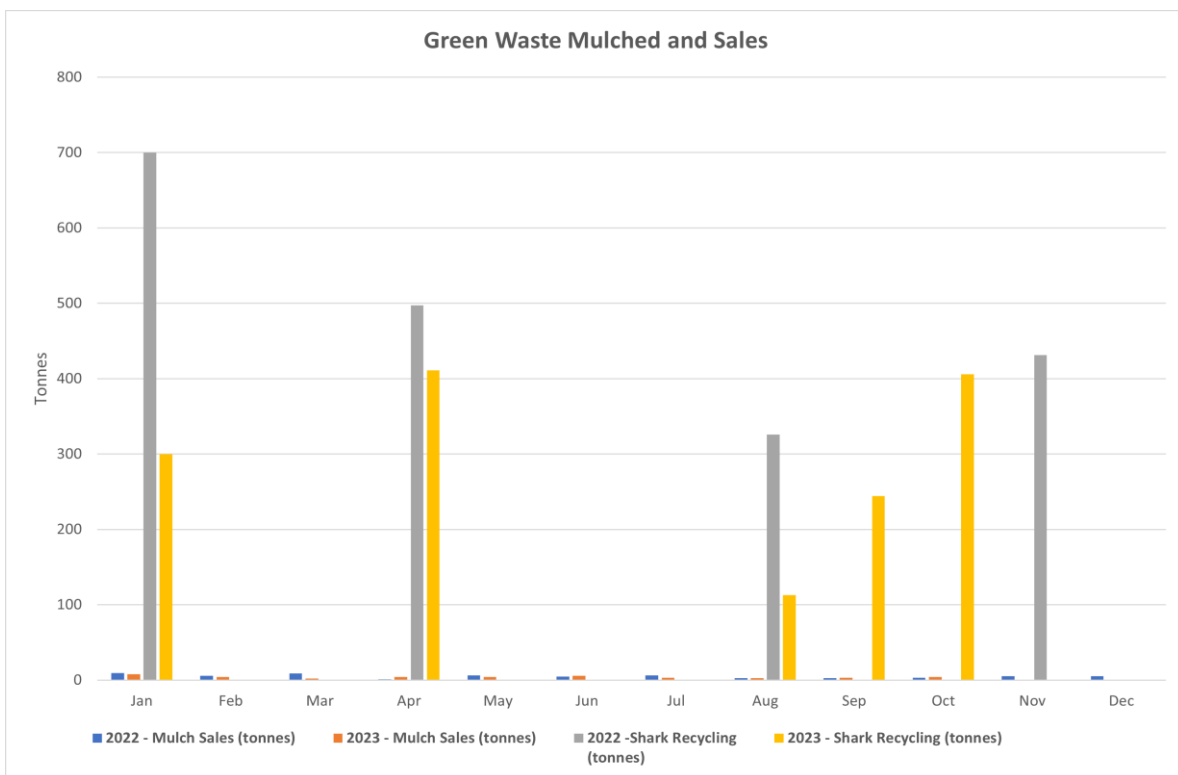
Waste to Transfer Stations

Transfer Station dry waste is transported off site to the Springmount Waste Facility. During October a total of 121 tonnes of waste was sent to landfill.



Green Waste

During October, Council received a total of 167.3 tonnes of green waste. Kuranda recorded 1.4 tonnes of green waste from locations registered as being potentially contaminated with Electric Ants. A total of 3.9 tonnes of mulched green waste was sold throughout October. Shark Recycling removed 71.7 tonnes of mulched green waste from Kuranda Transfer Station and 334 tonnes from Mareeba Transfer Station.



Waste Fees and Charges

Commercial operators disposing of waste at Mareeba Transfer Station in a skip bin are charged a Skip Bin Handling Fee of \$26 (incl. GST) on top of commercial waste (tonnage) charges for their

waste disposal. Skip bin waste is tipped at the Commercial Waste Bay, which is then loaded by machinery into a Roll-On-Roll-Off (RORO) bin and transported to Springmount Waste Facility. The Skip Bin Handling Fee is charged to cover the additional costs of handling involved.

Other commercial operators who present at the transfer station with waste in a tipper truck are currently directed to manually unload their waste into the public RORO bins. Feedback from some commercial operators has been received that manual unloading of their waste is not always practical, and they have requested the option to dispose of their waste in the Commercial Waste Bay as skip bin operators currently do.

This will only be available to commercial operators with vehicles to a maximum 4.5 tonne GVM capacity.

It is proposed that the “*Skip Bin Fee*” be renamed to “*Commercial Bay Processing Fee*” to allow equal opportunity for commercial operators to dispose of their waste at the Commercial Processing Bay. This fee will remain at \$26 (incl GST). This will provide consistent and fair waste disposal charges to all operators. Commercial operators who do not wish to be charged the addition fee will be offered the option to manually unload their waste into the public RORO at no extra cost apart from the commercial waste (tonnage) charges.

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

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.

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

9.5 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - OCTOBER 2023**Date Prepared:** 31 October 2023**Author:** Manager Works**Attachments:** Nil**EXECUTIVE SUMMARY**

The purpose of this report is to summarise Council's Transport Infrastructure, Parks and Gardens and Land Protection operational activities undertaken by Infrastructure Services during the month of October 2023.

RECOMMENDATION

That Council receives the Infrastructure Services, Works Progress Report for the month of October 2023.

BACKGROUND

A summary of works completed in October 2023 is provided below.

Transport InfrastructureUnsealed Road Maintenance Grading

Road	Locality
Bolwarra Road	Crystalbrook
McGrath Road	Mareeba
McBean Road	Glen Russell
Kanervo Road	Koah
Drumduff Link Road	Highbury
Fassio Road	Paddy's Green
Hume Road	Biboohra
Rains Road	Paddy's Green
Coyle Road	Biboohra
Bilwon Road	Biboohra
Keal Close	Mareeba
Cetinich Road	Paddy's Green
Hawkins Road	Paddy's Green

Road	Locality
Pickford Road	Biboohra
Valleley Road	Biboohra
Querin Road	Biboohra
Ivicevic Road	Paddys Green
Tyrconnell Road	Arriga
Rosing Road	Biboohra
Beh Road	Paddy's Green
Brooks Road	Paddy's Green
Studt Road	Mareeba
Rogers Road	Biboohra
Rush Road	Biboohra
Grigg Road	Biboohra

Unsealed Road Maintenance Grading was boosted in October with the addition of another grading crew that has become available for a period of time whilst the upgrade of the Bicentennial Lakes is underway. The extra crew should enable the northern grading program to reach Kuranda area by Christmas Close Down.

General Maintenance

Activity	Area
Tree Clearing	Speewah, Chewko, Myola, Mareeba, Chillagoe
Bitumen Patching	Julatten, Mutchilba, Arriga, Mareeba, Dimbulah
Drainage Works	Koah, Paddy’s Green, Oak Forest, Mareeba, Kuranda, Julatten
Signage Repairs & Replacement	Kuranda, Dimbulah, Julatten, Irvinebank, Mareeba, Mutchilba
Unsealed Road Maintenance	Koah, Kuranda, Julatten, Bilwon, Mt Mulgrave, Gamboola
Footpath Repairs	Kuranda

Customer Requests

During the month of October, the Works Group received 95 Customer Requests (CRs) with 173 resolved (resolved requests include those received prior to November 2023). The table below shows the number of requests lodged per Works Section for the month.

Month	Roads	Parks and Gardens	Pest Management
October	70	19	6

At the time of reporting, the Works Group had 49 open requests.

TMR Routine Maintenance Performance Contract (RMPC)

Grading of the Burke Developmental Road was completed in October along with the pipe inspections. The cleaning of culverts on the state controlled network continues.

Corflute Local Fire Ban signs were installed at the Rifle Creek Rest Area to discourage campfires that have been ongoing at the rest area during the Total Fire Ban.

80km signs have been installed at Bibohra on the Mulligan Highway to allow the electronic speed signs to be switched on.

Causeways and floodways were patched on the Herberton - Petford Road.

Line marking was completed on the newly widened sealed shoulder at Centenary Park, Mareeba.

Parks and Open Spaces

General mowing in Mareeba, Dimbulah , Mt Molloy, Julatten, Kuranda and Chillagoe is now on a needs basis only. Irrigated parks are being mowed once per fortnight on average. There was no mowing at Irvinebank and Bibohra in October.

Activities undertaken in October include;

- Benjamina Figs planted at Mareeba northern town entrance including irrigation extension
- New rocker installed at Mary Andrews Park and the rubber softfall was patched
- Burials – x3 Mareeba, x2 Dimbulah, x3 Kuranda
- Brewery Hole and Jack Bethel Park maintenance
- Tree trimming for street sweeper access and the Kuranda Bus Interchange