



**muswellbrook
shire council**

Muswellbrook Shire Council

INFRASTRUCTURE COMMITTEE MEETING

**BUSINESS PAPER
27 FEBRUARY 2019**



INFRASTRUCTURE COMMITTEE MEETING, 27 FEBRUARY 2019

MUSWELLBROOK SHIRE COUNCIL

P.O Box 122
MUSWELLBROOK
21 February, 2019

Councillors,

You are hereby requested to attend the Infrastructure Committee Meeting to be held in the COUNCILLORS ROOM, Administration Centre, Muswellbrook on **27 February, 2019** commencing at 4.30pm.

Derek Finnigan
DIRECTOR - COMMUNITY INFRASTRUCTURE

Order of Business

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**MUSWELLBROOK SHIRE COUNCIL
INFRASTRUCTURE COMMITTEE MEETING**

AGENDA

WEDNESDAY 27 FEBRUARY 2019

1 APOLOGIES AND LEAVE OF ABSENCE

Moved: _____ **Seconded:** _____

2 CONFIRMATION OF MINUTES OF PREVIOUS MEETING

RECOMMENDATION

That the Minutes of the Infrastructure Committee held on **19 December 2018**, a copy of which has been distributed to all members, be taken as read and confirmed as a true record.

Moved: _____ **Seconded:** _____

PRESENT: Cr B.N. Woodruff (Chair), Cr M. Rush, Cr S. Bailey, Cr M. Bowditch, Cr J.F. Eades, Cr J. Foy, Cr M. Green, and Cr R. Scholes.

IN ATTENDANCE: Ms F. Plesman (General Manager), Mr D. Finnigan (Director - Community Infrastructure), Ms C. O'Brien (Acting Director – Environment & Community Services), Ms S. Pope (Executive Manager – Environment & Community Services), Ms G. Bobsien (Executive Manager – Economic Development & Innovation), Mr G. Abeywardena (Assistant Director – Community Infrastructure & Chief Engineer), Mr M. Lysaught (Manager, Property & Building Services), Mr J. Brown (Manager – Integrated Planning, Risk & Governance), Ms K. Scholes (Manager – Roads, Drainage & Technical Services), Mr A. Mitreski (Policy Officer), Mrs M. Sandell-Hay (PA to General Manager), Ms C. Middleton (Communications Officer), Mr D. Fernandes (Project Manager – Property & Building), Mrs L. Payne (Co-Ordinator – Financial Services), Mr P. Chandler (Recreation & Property Officer) and 1 person in the public gallery.

1 APOLOGIES AND LEAVE OF ABSENCE

RECOMMENDED on the motion of Crs Rush and Bowditch that:

The apologies for inability to attend the meeting submitted by Cr. G. McNeill, Cr. S. Bailey and Cr. S. Reynolds be ACCEPTED and the necessary Leave of Absence be GRANTED.

2 CONFIRMATION OF MINUTES OF PREVIOUS MEETING

RECOMMENDED on the motion of Crs Scholes and Eades that:

The Minutes of the Infrastructure Committee held on 28 November 2018, a copy of which has been distributed to all members, be taken as read and confirmed as a true record.

3 DISCLOSURE OF ANY PECUNIARY AND NON-PECUNIARY INTEREST

Nil

4 BUSINESS ARISING

Nil

5 BUSINESS

5.1 WASTE COMPLIANCE REPORT

RECOMMENDED on the motion of Crs Scholes and Bowditch that:

The information contained in this report be noted.

6 DATE OF NEXT MEETING

30 January 2019

RECOMMENDED on the motion of Crs Rush and Bowditch that:

The meeting adjourn until such time that Cr Green arrives so that a quorum is present.

7 CLOSURE

The meeting was declared closed at 4.33pm.

.....
Ms F. Plesman
General Manager

.....
Cr B. Woodruff
Chairperson

3 DISCLOSURE OF ANY PECUNIARY AND NON-PECUNIARY INTEREST

Section 451 of the Local Government Act requires that if a councillor or member of a council or committee has a pecuniary interest in any matter before the council or committee, he/she must disclose the nature of the interest to the meeting as soon as practicable and must not be present at, or in sight of, the meeting, when the matter is being discussed, considered or voted on.

A pecuniary interest is an interest that a person has in a matter because of a reasonable likelihood or expectation of financial gain or loss (see sections 442 and 443 of the Local Government Act).

A non-pecuniary interest can arise as a result of a private or personal interest which does not involve a financial gain or loss to the councillor or staff member (eg friendship, membership of an association, or involvement or interest in an activity). A councillor must disclose the nature of the interest to the meeting as soon as practicable.

Council's Model Code of Conduct now recognises two forms of non-pecuniary conflict of interests:

- Significant
- Less than significant

A Councillor must make an assessment of the circumstances and determine if the conflict is significant.

If a Councillor determines that a non-pecuniary conflict of interests is less than significant and does not require further action, they must provide an explanation of why it is considered that the conflict does not require further action in the circumstances.

If the Councillor has disclosed the existence of a significant non-pecuniary conflict of interests at a meeting they must not be present at, or in sight of, the meeting, when the matter is being discussed, considered or voted on.

4 BUSINESS ARISING

5 BUSINESS

5.1 WATER AND WASTEWATER LEVELS OF SERVICE REPORT FOR THE PERIOD OCT - DEC 2018

| | |
|---------------------------------|--|
| Attachments: | A. Quarterly Infrastructure Report - Oct to Dec 2018.pdf |
| Responsible Officer: | Derek Finnigan - Director - Community Infrastructure |
| Author: | Irene Chetty - Operations & Processing Engineer |
| Community Plan Issue: | <i>A safe, secure and reliable water supply and sewerage services are provided to all residents that will ensure public health</i> |
| Community Plan Goal: | <i>Provide safe, secure, efficient and effective water, sewerage and waste services in compliance with regulatory requirements.</i> |
| Community Plan Strategy: | <i>Ensure substantial achievement of Best Practice Water Supply and Sewerage Guidelines.</i> |

PURPOSE

This report summarises the performance of water and wastewater services, including drinking water quality and re-use quality supplied to Council's customers for the period of 1 October 2018 to 31 December 2018.

OFFICER'S RECOMMENDATION

Council notes the information contained in the report.

Moved: _____ Seconded: _____

BACKGROUND

The levels of service performance indicators for water and wastewater services are discussed in this report for the period 01 October 2018 to 31 December 2018.

CONSULTATION

Data for this report is extracted from the water & sewer treatment plants performance monitoring database, reticulation service requests, NSW Health drinking water database, re-use analyses from NATA accredited laboratory –SAL; as well as contribution from Water & Wastewater staff, operators and Council's Rate Dept.

CONSULTATION WITH COUNCILLOR SPOKESPERSON

This report will be reviewed by senior management who will then distribute a copy of the finalised report to the Mayor, Deputy Mayor and Councillor Spokesperson for Infrastructure to review and provide feedback.

REPORT

The attachment summarises the performance from Oct to Dec 2018 on:

- Levels of service for water services
- Levels of service for wastewater services
- Potable (drinking water) quality

- Re-use (or wastewater) quality
- Water consumption graphs for Muswellbrook, Denman and Sandy Hollow as accumulated monthly consumptions, 5 year accumulated averages and accumulated monthly allocations.

Discussion

- Drinking water quality in Muswellbrook and Denman consistently met the requirements of Australian Drinking Water Guidelines (2011). Water complaints were around 'dirty' water or slight detection of turbidity in the reticulation – this was resolved by flushing hydrants and dead-ends on services and mains; water quality checks were done thereafter to ensure build-up was flushed out thoroughly.
- The new, proposed Water Filtration plant at Sandy Hollow is expected to resolve the drinking water quality issues. NSW Dept. of Health has been notified of the Sandy Hollow project. The application for section 60 approval with Dept. of Industry has also commenced for the new plant.
- NSW Dept. of Health is presently reviewing the critical control points for the drinking water quality and will soon announce a site visit for a workshop on the performance of the treatment plants and compliance expectations.
- The average drinking water consumption across the three towns has remained below the five year average consumption for the period. The Voluntary Level 1 Water restrictions along with intermittent rain have helped in this respect.
- Response time to unplanned water and sewer service outages has been satisfactory i.e. networks team responded and repaired services well within the target of 4 hours.
- Muswellbrook reported 3 odour complaints originating from a sewer overflow, poor condition of the filter and seal at the odour control equipment on the rising main from sewer pumping station 4 and one odour complaint at a property.
- Two sewer blockages were reported: One at Muswellbrook as a result of root growth in the mains that led to a sewer overflow at a manhole in 73/75 Shiraz Street; the other overflow occurred at 42 Paxton Street due to build-up of foreign objects in the mains. Both blockages were cleared satisfactorily.
- Re-use quality has exceeded licence limits at both Denman and Muswellbrook. Re-use storage ponds are slimy and dirty due to algae growth and sludge deposits. High nutrient loading and very hot weather are aggravating algae & slime build-up in the storage ponds. High re-use pH reduces effectiveness of chlorine disinfection and therefore contributes to high counts of bacteria in the re-use supply to the end users.
- Denman Sewer treatment plant requires attention as its control system is obsolete, one aerator is corroded badly and has the potential to fail and the re-use pond has a thick blanket of sludge build-up and slime. These issues are contributing to poor treatment plant control, which in turn has contributed to deteriorating re-use quality. The concentrations of total suspended solids and biological oxygen demand has breached license requirements. Some work is being done to make process adjustments within the current plant limitations but this is not proving effective at the moment.
- Almost all treated re-use was utilised by the end-users at Muswellbrook. The golf course at Denman however, utilised only 74 % of the treated effluent.

With regards to the quality of reuse water produced in Muswellbrook, the current construction of a new recycled water treatment works will improve water quality so that it is compliant with Environment Protection Authority licence requirements.

With regards to the Denman recycled water treatment works, Council has obtained a \$300,000 grant through Restart NSW in order for a business case to be carried out for the construction of a new Denman water treatment plant.

OPTIONS

- The drinking water quality at Sandy Hollow can only be improved by upgrading the water treatment process. Council has considered this and have approved budget for the installation of a new filtration plant to address the poor drinking water quality. The new plant design, construction and commissioning will be managed by a company called Restech utilising additional funding from Arena. The design work for this project has commenced.
- Consideration must be given to resolution of the major issues at Denman Sewer Treatment Plant to ensure reliable plant operation within the Environment Protection Licence (EPL No.5059) limits.
- Recommend increasing re-use intake volumes at the Denman Golf Course.
- Review CCTV monitoring program of the sewer mains as major “unknown” blockages may result in severe property damage and EPA non-conformances.

CONCLUSION

Drinking water quality is generally satisfactory in the Shire. Overall water consumption is within the five year average even though the hot, dry weather continues. The re-use quality remains below target and has therefore exceeded the Environment Protection Licence for both Muswellbrook and Denman.

SOCIAL IMPLICATIONS

This report highlights Council's results for the period Oct – Dec 2018, in relation to the stipulated levels of service and statutory requirements such as the Australian Drinking Water Guidelines of 2011, Environment Licences 1593 & 5059, Dept. of Industry Water Benchmarking and contract licence agreements with Mt Arthur Coal and Muswellbrook & Denman Golf Courses.

FINANCIAL IMPLICATIONS

No direct financial implications for Oct – Dec 2018.

POLICY IMPLICATIONS

Not applicable

STATUTORY IMPLICATIONS

Specific statutory regulations, including the Local Government Act, apply.

LEGAL IMPLICATIONS

Council is required to make every effort to ensure compliance with the applicable plant Environment Protection Licences.

OPERATIONAL PLAN IMPLICATIONS

The submission of the report complies with Council's Operational Plan 2018/2019 for the reporting of water and wastewater levels of service, performance indicators and compliance with health guidelines and environment protection licence parameters.

RISK MANAGEMENT IMPLICATIONS

The reporting of water and wastewater levels of service and performance indicators for the period Oct – Dec 2018, is used as a tool to manage the risk of non-compliance to the regulators.

LEVEL OF SERVICE PERFORMANCE INDICATORS - WATER SERVICES

Period: 1 October - 31 December 2018

| Indicator | Description | Report Period | Year to Date | Performance Target |
|--|--|---------------|--------------|--|
| Availability of Supply | Reported Events Outside Standard | | | |
| Muswellbrook & Denman | Minimum Pressure kPa (when conveying 0.15 L/s/lineament) | | | 200 kPa |
| | Maximum Static Pressure | | | 850 kPa |
| Water Restrictions (2007 Ongoing Management Plan) | | | | |
| Muswellbrook | Due to the ongoing drought conditions and bushfire season Voluntary Level 1 Water Restrictions were activated 17/09/2018 | | | Restrictions result in no more than 30% reduction in consumption, are not required for more than 10% of the time and that the average frequency of restrictions is less than 5 in every 100 years (the level of service) |
| Denman | | | | |
| Sandy Hollow | | | | |
| Peak Daily Demand (bore/assessment including commercial) | | | | (or peak day consumption/assessment) |
| Muswellbrook | | 2112.32 | | 3000 litres/assessment |
| Denman | | 2960.12 | | 3000 litres/assessment |
| Sandy Hollow | | 3278.69 | | 3000 litres/assessment |
| Supply Interruptions | | | | |
| Planned Interruptions to Supply (5 days notice to domestic, commercial & industrial customers) | Number of interruptions | 0.0 | 3.0 | <1/1000 customers/year |
| | Average time to repair | 0.0 | 3.1 | Hours |
| | Average length of interruptions | | | < 2 hours |
| | Maximum length of interruption | | | < 4 hours |
| Average length of interruption is not supplied as current systems do not allow accurate recording - | | | | |
| Unplanned Interruptions to Supply (due to main replacement - excluding service lines) | Number of interruptions | 1 | 2.0 | Mbk - 50, Denman - 10, SH - 2 per year |
| | Average time to repair | 8 | 9.3 | Hours |
| | Average length of interruptions | | | < 4 hours |
| | Number of Residences affected | 2 | 22.0 | 1/connection/year |
| Water Quality | | | | |
| Muswellbrook | | Averages | | |
| | Turbidity | 0.23 | 0.27 | 1 NTU maximum |
| | pH | 7.88 | 7.92 | 6.5 - 8.5 |
| | Total Hardness | 83.30 | 103.92 | <200 mg/L |
| | E-Coli | 100% | 100% | 100% Compliance |
| | Free Available Chlorine | 0.84 | 0.90 | 0.1 - 1.0mg/l |
| Denman | | | | |
| | Turbidity | 0.18 | 0.22 | 1 NTU maximum |
| | pH | 7.97 | 8.02 | 6.5 - 8.5 |
| | Total Hardness | 143.47 | 156.53 | <200 mg/L |
| | E-Coli | 100% | 100% | 100% Compliance |
| | Free Available Chlorine | 0.83 | 0.92 | 0.1 - 1.0mg/l |
| Sandy Hollow | | | | |
| | Turbidity | 0.20 | 0.22 | 1 NTU maximum |
| | pH | 7.79 | 7.84 | 6.5 - 8.5 |
| | Total Hardness | 589.45 | 663.05 | <200 mg/L |
| | E-Coli | 100% | 100% | 100% Compliance |
| | Free Available Chlorine | 1.08 | 1.10 | 0.1 - 1.0mg/l |
| Service Requests | | | | Leaks 50/year |
| Muswellbrook | Main Break | 7 | 14 | |
| | Fitting Repair | 23 | 53 | |
| | Service Repair | 28 | 78 | |
| | Service Replacement | 0 | 6 | |
| Meter replacements do not include those replaced during the bill read process | | | | |
| | Meter replacement | 119 | 237 | |
| Denman | Main Break | 2 | 4 | |
| | Fitting Repair | 0 | 6 | |
| | Service Repair | 4 | 15 | |
| | Service Replacement | 0 | 0 | |
| Meter replacements do not include those replaced during the bill read process | | | | |
| | Meter replacement | 22 | 40 | |
| Sandy Hollow | Main Break | 0 | 1 | |
| | Fitting Repair | 0 | 0 | |
| | Service Repair | 3 | 6 | |
| | Service Replacement | 0 | 0 | |
| Meter replacements do not include those replaced during the bill read process | | | | |
| | Meter replacement | 0 | 10 | |
| | | 218 | 468 | |
| Supply Failure Response Times (unplanned) | | | | |
| Muswellbrook, Denman & Sandy Hollow | Number where response time <1 hour | 87.5 | 88.0 | >95% |
| (expressed as percentage) | Number where completion time <4 hours | 96.0 | 94.0 | >95% |
| General Complaints (Management) | | | | |
| Water Quality (Dirty water, taste & odour) | | | | |
| Muswellbrook | | 9 | 15 | <1/1000 customers per year |
| Denman | | 2 | 5 | |
| Sandy Hollow | | 1 | 1 | |
| Pressure (not related to a main break) | | | | |
| Muswellbrook | | 8 | 16 | <10 |
| Denman | | 2 | 5 | <2 |
| Sandy Hollow | | 0 | 0 | <2 |
| Other | | | | |
| Service Provided | | | | |
| Time to provide an individual connection to water supply in serviced area (90% of time) | New Services | 0 | 1 | Number |
| | | | 100% | Percentage installed within 5 Working Days |

■ This Report has been prepared using information available at the time of collation and may not include a complete data set for the report period.

■ Performance Targets are those identified in the current 2005/2006 Strategic Business Plan.

■ Report Period and Year to Date in some cases will be the same due to the commencement of new report year

LEVEL OF SERVICE PERFORMANCE INDICATORS - WASTEWATER SERVICES

Period: 1 October - 31 December 2018

| Indicator | Description | Report Period | Year to Date | Performance Target |
|--|---|---------------|--------------|-------------------------|
| Availability of Service | | | | |
| Muswellbrook | Average Dry Weather Flow (ADWF) | 2.21 | 2.20 | 3.6 MI per day |
| | Peak Wet Weather Flow (PWPF) | 4.23 | 4.23 | 18.7 MI per day |
| | Rainfall | 151.0 | 203.55 | mm |
| Denman | Average Dry Weather Flow (ADWF) | 0.33 | 0.32 | 0.3 MI per day |
| | Rainfall | 144.50 | 202.00 | mm |
| System Failures (causing overflow) | | | | |
| Category 1 | | | | |
| Failures due to rainfall and deficient design capacity | | | | |
| Muswellbrook | | 0 | 0 | 2 per year |
| Denman | | 0 | 0 | 1 per year |
| Category 2 | | | | |
| Failures due to pump or other breakdown | | | | |
| Muswellbrook | | 0 | 0 | 1 per year |
| Denman | | 0 | 0 | 1 per year |
| Category 3 | | | | |
| Failures due to blockages | | | | Muswellbrook - 100/year |
| Muswellbrook | Roots Blocking Sewer | 1 | 1 | |
| | Foreign Objects in Sewer | 0 | 0 | |
| | Broken/Blocked Sewer Pipe | 0 | 0 | |
| | Blocked Junction | 0 | 0 | |
| | Blocked Boundary | 0 | 1 | |
| | TOTAL | 1 | 2 | |
| Denman | Roots Blocking Sewer | 0 | 0 | Denman - 20/year |
| | Foreign Objects in Sewer | 1 | 1 | |
| | Broken/Blocked Sewer Pipe | 0 | 0 | |
| | Blocked Junction | 0 | 0 | |
| | Blocked Boundary | 0 | 0 | |
| | TOTAL | 1 | 1 | |
| Response Times (unplanned - to system failures) | | | | |
| Occasions where response time < 1hr (%) | | 100.0% | 100.0% | > 95% |
| Occasions where completion time < 4 hrs (%) | | 100.0% | 100.0% | > 95% |
| General Complaints (Non Urgent) | | | | |
| Muswellbrook | Odour complaints (Sewer Treatment Works) for period | 0 | 0 | 1 per year |
| | Odour complaints (other) for period | 4 | 6 | 1 per year |
| Denman | Odour complaints (Sewer Treatment Works) for period | 0 | 0 | 1 per year |
| | Odour complaints (other) for period | 0 | 0 | 1 per year |
| Effluent Quality | | | | |
| | | Report Period | | |
| | | Min | Max | |
| Muswellbrook Wastewater | BOD | 6 | 22 | <20 mg/l |
| Treatment Plant (Golf Course) | SS | 10 | 75 | <30 mg/l |
| Muswellbrook Wastewater | BOD | 6 | 26 | <20 mg/l |
| Treatment Plant (HVEC) | SS | 11 | 56 | <30 mg/l |
| Denman Wastewater | BOD | 3 | 7 | 20 mg/l |
| Treatment Plant (Golf Course) | SS | 35 | 71 | 30 mg/l |
| Muswellbrook Effluent Reuse (HVEC) | E-Coli | <10 | <10 | < 150/100mls (Contract) |
| Muswellbrook Effluent Reuse (Golf Course) | E-Coli | <10 | 410 | < 150/100mls |
| Denman Effluent Reuse (Golf Course) | E-Coli (Reuse Reservoir Outlet) | | | |

■ This Report has been prepared using information available at the time of collation and may not include a complete data set for the report period.

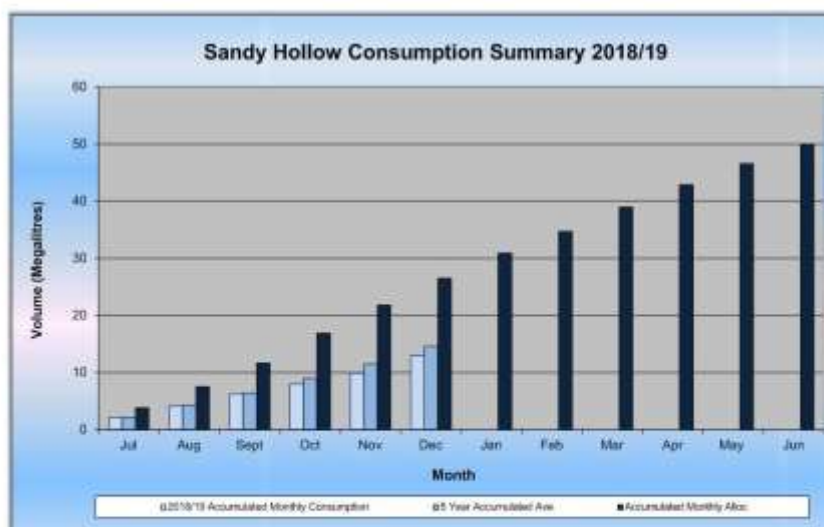
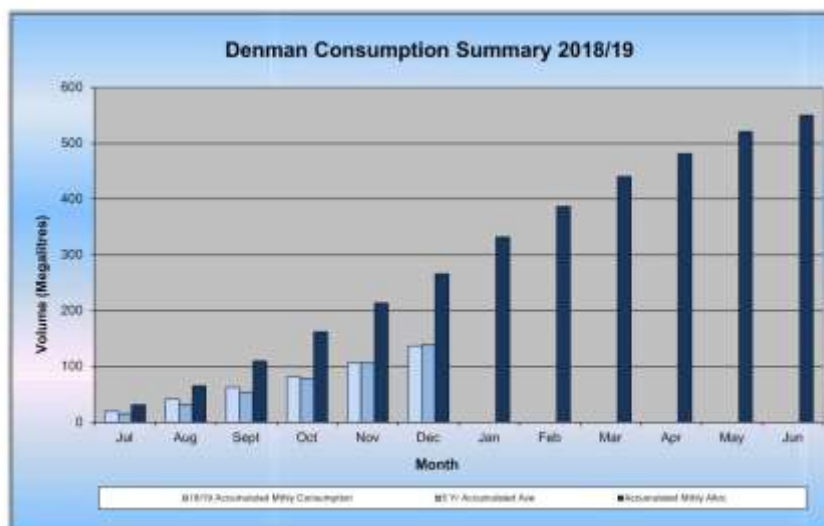
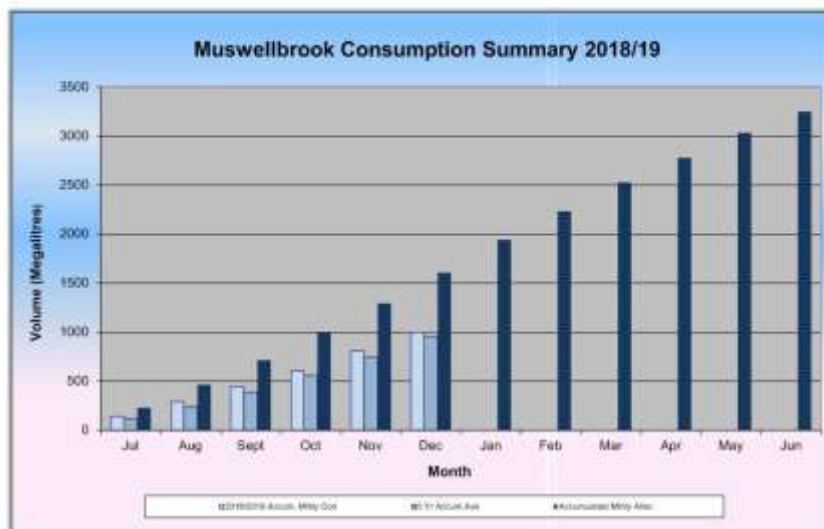
■ Performance Targets are those identified in the current 2005/2006 Strategic Business Plan.

■ Report Period and Year to Date in some cases will be the same due to the commencement of new report year

POTABLE WATER AND WASTEWATER STATISTICS

Period: 1 October to 31 December 2018

| WATER | Report Period | 5 Year Period Average | 5 Year Peak for Period | 5 Year Min. for Period | Description |
|--|---------------|-----------------------|------------------------|------------------------|--|
| Muswellbrook | | | | | |
| Consumption for Period | 550.43 | 558.71 | | | ML |
| Annual Consumption to Period End | 999.67 | 948.83 | | | ML |
| Maximum Daily Consumption | 10.87 | | 12.13 | | ML |
| Minimum Daily Consumption | 2.68 | | | 2.43 | ML |
| Average Daily Consumption | 5.99 | 6.07 | | | ML |
| Rainfall for Period | 151.00 | 175.30 | | | mm |
| Yearly Rainfall to Period End | 203.55 | 274.76 | | | mm |
| Dennan | | | | | |
| Consumption for Period | 74.19 | 66.18 | | | ML |
| Annual Consumption to Period End | 136.45 | 139.18 | | | ML |
| Maximum Daily Consumption | 1.93 | | 2.89 | | ML |
| Minimum Daily Consumption | 1.10 | | | 0.30 | ML |
| Average Daily Consumption | 0.39 | 0.94 | | | ML |
| Sandy Hollow | | | | | |
| Consumption for Period | 6.78 | 8.20 | | | ML |
| Annual Consumption to Period End | 12.95 | 14.57 | | | ML |
| Maximum Daily Consumption | 0.20 | | 0.24 | | ML |
| Minimum Daily Consumption | 0.035 | | | 0.020 | ML |
| Average Daily Consumption | 0.07 | 0.09 | | | ML |
| Muswellbrook | | | | | |
| Raw Sewage (ML) | 200.88 | 202.31 | 8.69 | 0.26 | Inflows to Wastewater Treatment Plant (ML) |
| Potable Water to Sewer (%) | 36.49 | 36.21 | | | Potable water consumption to WWTP (%) |
| Dennan | | | | | |
| Raw Sewage (ML) | 30.67 | 29.90 | 1.22 | 0.14 | Inflows to Wastewater Treatment Plant |
| Potable Water to Sewer (%) | 41.34 | 34.70 | | | Potable water consumption to WWTP (%) |
| TREATED EFFLUENT | | | | | |
| Muswellbrook | | | | | |
| Quantity Reused (ML) | 185.29 | 278.93 | | | ML |
| Percent Effluent Reused | 92.24 | 137.87 | | | Total WWTP inflow for period reused (%) |
| Effluent discharged to the environment | 0.00 | | | | ML |
| Dennan | | | | | |
| Quantity Reused (ML) | 22.76 | 36.77 | | | ML |
| Percent of Effluent Reused | 74.21 | 122.97 | | | Total WWTP inflow for period reused (%) |
| Effluent discharged to the environment | 0.00 | | | | ML |



**5.2 COMMUNITY INFRASTRUCTURE CAPITAL WORKS STATUS REPORT
FOR SECOND QUARTER OF 2018-2019**

| | |
|---------------------------------|---|
| Attachments: | A. 2018-2019 CI Capital Works-Hybrid |
| Responsible Officer: | Fiona Plesman - General Manager |
| Author: | Derek Finnigan - Director - Community Infrastructure |
| Community Plan Issue: | <i>Our community's infrastructure is planned well, is safe and reliable and provides required levels of service</i> |
| Community Plan Goal: | <i>Improve and maintain civic precincts.</i> |
| Community Plan Strategy: | <i>Deliver the capital program substantially on time, on budget and in accordance with relevant design and construction standards.</i> |

PURPOSE

The report presents in tabular form the status of Community Infrastructure capital projects for the second quarter of 2018-2019, updated to 31 December 2019.

OFFICER'S RECOMMENDATION

The information contained in this report be noted.

Moved: _____ **Seconded:** _____

REPORT

The table of projects is updated by the Community Infrastructure Section Managers on a monthly basis and reported quarterly to the Infrastructure Committee.

| Project | Project Stage Investigation (I) Design (D)/ Construction (C) | Budget for Project | PLANNED START | PLANNED COMPLETION | PLANNED COMPLETION (EXTENDED) | ACTUAL START | ACTUAL COMPLETION | STATUS as at 31 December 2018 |
|---|---|-----------------------|------------------|-----------------------|-------------------------------------|-----------------|----------------------|---|
| Roads and Drainage Capital Works | | | | | | | | |
| Denman Town Centre [3550.4261] | C | \$2,500,000 | Aug-18 | Jun-19 | | Aug-18 | | Construction of Stage 1 Car Park and service road complete except for integrated parking at Denman Legal and adjacent footpath construction.. Drainage, pavement landscaping & electrical installation complete. The carpark has been opened for public use. Water mains renewal work including installation of new water services is complete with temporary road restoration undertaken. Project planning and public consultation has been undertaken in preparation for commencement of Stage 2 road and footpath construction in Ogilvie St. Update - 18 Feb 2019 - Stage 2 works are currently in progress. |
| Safety Device Renewal Program [3590.4145] | c | \$152,306 | Apr-19 | Jun-19 | | | | Part funding co-contribution to Resources for Regions projects programmed for 4th quarter. |
| Kerb & Gutter Renewal [3560.4065] | C | \$128,125 | Aug-18 | Nov-18 | | Aug-18 | Nov-18 | A Priority renewal program was reported to Infrastructure Committee in July, 2018. The 18-19 Programme has been completed with works undertaken in the following locations up to the value of the funding allocated for this financial year. Osbourne, Forbes, King, Burgundy and Karoola Ave are complete. |
| Footpath Renewal [3500.4072] | C | \$159,900 | Aug-18 | Nov-18 | | Aug-18 | Nov-18 | Priority renewal program was reported to Infrastructure Committee in July, 2018. Identified footpath renewals in Brook St, Maitland St, Denman Wetland, Turtle St, Paxton St, Arbor, Bell St, Tierney St, Finnegan Cr, Wananuah Circuit & Patterson Place have been completed. The programme of work for the 2018-19 year is now completed. |
| Bridges Renewal Spring Creek Bridge 3550.2499.504 | C | \$602,500 | Sep-18 | Dec-18 | | Sep-18 | Dec-18 | Spring Creek Deck Renewal project is completed. Some minor reinstatement work and removal of sed fencing is being undertaken however the road conditions have now been reinstated. |
| Sandy Hollow Town Centre Project | C | \$40,000 | Dec-18 | Jun-19 | | Nov-18 | | Post and rail fencing was installed on the public space outside the Community hall. The balance of the funding is for landscaping works adjacent to the Hall however this work is on hold pending decision on construction of a public toilet in the pocket park. If this toilet is constructed some landscaping will need to be undertaken to facilitate the toilet placement. |
| New Footpaths [3500.4073] | C | \$102,500 | Sep-18 | Nov-18 | | Sep-18 | Nov-18 | Priority program was reported to Infrastructure Committee in July. Footpaths constructed in Carl St & Roger St have been completed. The programme was completed in November. |
| Urban Road Renewal [3500.4050] | C | \$565,087 | Oct-18 | Jun-19 | | Oct-18 | Dec-18 | The renewal of Hyde St Denman from McCauley to Babbington St has been completed. This project included the reconstruction of road pavement, new kerb and gutter on the eastern side, minor drainage improvements, reinstatement of driveways, and footpath and concrete edge strip on the western side. |
| Carpark Renewal [3580.4234] | C | \$105,575 | Oct-18 | Nov-18 | | Oct-18 | Oct-18 | A new asphalt surface was provided at the Campbells Corner car park in October, 2018. |
| Drainage Devices Program [3540.4065] | C | \$161,950 | Dec-18 | Jun-19 | | Dec-18 | Dec-18 | Ancillary drainage pit construction and improved lintels have been constructed /provided in Ogilvie St Denman in preparation for Main St upgrade. This work is now complete. The lintels will be placed when the new kerb and gutter is constructed. |
| Rural Road Regravelling Program [3500.4055] | C | \$336,200 | Mar-19 | Jun-19 | | Oct-18 | | Work has been carried out on Yarrowa Rd in July and January. Work is programmed to be undertaken on Castlerock road in the 3rd quarter and Wells Gully road in the 4th quarter. |
| Regional Road Renewal Program [3502.4135] | I | \$70,000 | Apr-19 | Jun-19 | | | | Proposed work sites identified at Bylong Valley Way. Waiting for confirmation of funding from RMS to determine scope of works. This work will be undertaken in the 4th quarter. |
| Road Resealing Program [3500.4030] | C | \$706,700 | Nov-18 | Apr-19 | | Oct-18 | | A Prioritised program was reported to Infrastructure Committee in July, 2018. Resealing programme to commence 29 October 2018 with Urban roads now completed. Rural roads have been completed except for sections on Martindale and Wybong road (Spring Creek Bridge) this remaining work is programmed to be undertaken in the 3rd quarter. |

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| Contract 2018-2019-0077 Upgrade of Thomas Mitchell Drive - Stage 4A | C | \$1,011,970 | Mar-19 | Jun-19 | | | | Report submitted to 12 February Ordinary Meeting of Council approving successful tenderer. The successful tenderer has been engaged, and the project is anticipated to commence on site in March 2019. |
| Recreation, Property & Buildings | | | | | | | | |
| Denman Memorial Hall Restoration (3910.5889) | C | \$2,465,728 | Oct-18 | Feb-19 | Apr-19 | Oct-18 | | Concreting works and framing completed. Installation of structural steel frames underway. |
| Denman Recreational Vehicle (RV) Destination | C | \$118,270 | Aug-18 | Dec-18 | | Aug-18 | Dec-18 | Practical completion of this phase of the project has been completed. The Denman Tourist Park Master Plan has been adopted by Council. Draft style guide produced and informing Mens Shed Development Application for Heritage Shed. The draft style guide will be reported to Council for adoption. The balance of funding will be used as con-contribution for grant funding being sought to construct amenities supporting the Heritage Shed. |
| Inclusive Playgrounds | C | \$20,000 | May-19 | Jun-19 | | Dec-18 | | Under the Everyone Can Play in NSW Grant Program for new inclusive playground equipment - Application lodged for Highbrook Park playground equipment. |
| Indoor Sports Centre refurbish floors | C | \$25,000 | Feb-19 | Apr-19 | | | | Quotations received and being assessed. |
| Karoola Park Master Plan | I | \$15,000 | Oct-18 | Feb-19 | | Oct-18 | | Draft Master Plan prepared with stakeholder consultation planned. |
| Muswellbrook Animal Shelter (3910.5587) | D | \$1,200,000 | May-19 | Dec-19 | | | | EOI assessed and awarded to Conrad Gargett for concept design master plan. There will be a requirement for the funding to be carried over to 2019-20, as construction will not be completed in 2018-19. |
| Muswellbrook Aquatic Centre - Stage 1 (3700.5442) | D | \$3,250,000 | Nov-18 | Nov-19 | | Nov-19 | | DA prepared to be lodged. Stakeholder consultation ongoing. |
| Muswellbrook Rail Noise Abatement (3950.4168) | C | \$1,950,000 | Nov-18 | Mar-19 | | | | Survey works completed and detailed design progressing. |
| Olympic Park Car Park and Bridge Approach | C | \$697,880 | Jan-19 | Jan-19 | | Jan-19 | | Works commenced 23/1/19. Drainage, stormwater and excavation works underway. Update - car park construction project in progress. |
| Olympic Park Master Plan (Bridge) | D | \$2,150,000 | Jul-19 | Nov-19 | | Sep-18 | | Awaiting designs for stakeholder consultation with councillors and user groups. |
| Regional Entertainment and Conference Centre (3690.5433) | D | \$15,000,000 (Est) | Dec-18 | Jun-19 | | | | Council resolved on winning design. Negotiations underway with potential design consultant. |
| Toddler Shade Highbrook Park | D | \$25,000 | Nov-18 | Dec-18 | | Dec-18 | Dec-18 | Completed |
| Upper Hunter innovation Precinct Stage 2 (3690.6438) (Includes Innovation Hub and Weidmann Café) | D | \$3,600,000 | May-18 | Nov-18 | | Jun-18 | | DA lodged 15 June 2018. Ongoing correspondence to seek OEH approval and Council's planning approval. This project will carry over into 2019-20. Arrangements have been made for the grant funding to be carried over. |
| Victoria Park and Cemetery Improvements | C | \$517,613 | Dec-18 | Feb-19 | | Jan-19 | | Drainage, stormwater and excavation works underway. At the request of sports field users, Field 1 works will be delayed until September 2019. |
| Weeraman Fields master Plan | I | \$15,000 | Jan-19 | Mar-19 | | Jan-19 | | Grant funding has been successful. Completion expected before the season starts. Master Plan will need to be reduced or put in to stages. |
| Water | | | | | | | | |
| Reservoir Renewal and Replacements [5310.4321] | D | \$1,537,500 | Apr-19 | Sep-19 | | | | Design work is being undertaken by GHD for new roof and trusses for No5 Res at Muswellbrook, previous design investigation showed some trusses were under designed. Design complete and tendering for fabrication and installation of roof along with internal coating. Work to be undertaken winter of 2019. |
| Muswellbrook Water Treatment Plant Replacements [5310.4560] | I/D/C | \$922,227 | Jul-18 | Jun-19 | | Jul-18 | | List of proposed work includes: 1. Chemical system upgrades; 2. Electrical Panel Design work; 3. Clarifier Channel replacement; 4. Recarb Electrical Panel - Panel complete, installation to be progressed; 5. No1 High Lift Pump and Motor - Motor quotes requested and motor ordered, installation Nov/Dec; 6. Old WTW Asbestos removal; 7. UV Treatment design; 8. Fluoride system upgrade; 9. Carry over of Electrical upgrade (Installation complete and commissioned) - Works complete including removal of some redundant cabling. |

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| Reticulation - Muswellbrook - Capital [5320.4340] | D/C | \$1,025,000 | Jul-18 | Jun-19 | | Jul-18 | | Ogilvie Street Water Main stage One has been completed and all residents reconnected to the new main Design work for next 4 years of water main replacements Sept - Additional requirement for design of duplicate south Muswellbrook main |
| Replacement of Water Meters Programme [5320.4376] | C | \$71,750 | Jul-18 | Jun-19 | | Jul-18 | | Ongoing replacement of water meters when identified as faulty or requiring replacement Replacement is performed by operations personnel as required |
| System Plant Asset Renewals [5340.4400] | I/D/C | \$1,352,016 | Jul-18 | Jun-19 | | Jul-18 | | Planned work includes: 1. New Backwash pond at Muswellbrook WTP, quotes being sought for design 2. Sandy Hollow Res Pipework; 3. Muswellbrook Instrumentation; 4. Muswellbrook Intake Valves; have been replaced 5. Condition based asset renewals based on previous condition audit. |
| Reticulation - Rail Underboring [5340.4377] | D/C | \$773,835 | Jan-19 | Jun-19 | | | | Rail Underboring at Hill Street and Ogilvie Street to replace old water mains under the rail lines Contract with Kerroc underway Sept 2018 - In principal approval given by ARTC for revised crossing locations, at Ogilvie Street Denman and Lower Hill Street Muswellbrook. Work is due to commence in Feb/March for completion in May. |
| Sewer | | | | | | | | |
| Mains Renewal [6310.4481] | D | \$852,732 | Mar-19 | Jun-19 | | | | SPS5 Rising Main relining, tendering process is progressing Civil Repairs and Renewals to improve reactive workload of networks team is progressing Lower Hill Street Manhole |
| Construction - RWTW [6310.4472] | C | \$9,537,941 | | Mar-19 | | | | Process commissioning reschedule to mid-March. Tentative date for completion of Process Commissioning is end of April. |
| Denman Treatment Plant Upgrade [6310.4473] | C | \$172,109 | Jul-18 | Sep-18 | | Jul-18 | Oct-18 | Carry Over project completed. Removal of Sludge at Denman STP. Contract with Conhur site work completed August 2018. |
| Access & Security Improvements [6340.4475] | I | \$20,500 | Sep-18 | Jun-19 | | Sep-18 | | A prioritised plan is currently being developed for the carrying out works by June 2019. |
| Sewer Pump Station 2 | I/D/C | \$512,500 | Jan-19 | Jun-19 | | | | This work has been deferred until the carrying out of the sewer reticulation study. As approved by Council at the January 2019 Ordinary Meeting of Council, the remaining funding will be utilised in the purchase of a jetter and robotic camera for the Networks team. |

6 DATE OF NEXT MEETING

27 March 2019

7 CLOSURE