

OPERATIONS BULLETIN

ISSUE 17. SEPTEMBER 2016

QGC brings online speech therapy to Western Downs schools



▲ *Caption: Students at five Western Downs schools can now access specialist support in the classroom through QGC's Health-e-Regions program.*

Students across the Western Downs can now access specialist support in their classrooms through the expansion of QGC's Health-e-Regions 'Telehealth' service support after the successful pilot project at Tara Shire State College.

Students at Chinchilla State School, St Joseph's Catholic School (Tara), Miles State School and Wandoan State School are participating in a telehealth based speech pathology program led by the University of Queensland's Centre for Online Health.

'Speech and language' development has been identified as a priority need for students in the Western Downs. In 2015, a telehealth based speech pathology program was successfully trialled at the Tara Shire State College.

The eight students involved in the pilot improved their speech and writing skills, behavioural and academic performance.

Delayed speech and language in the early years disadvantages children from the start of school and often results in difficulties with literacy and numeracy.

Health-e-Regions uses internet and video conferencing (telehealth) to deliver specialist health services to remote communities. Students can work with experts without the inconvenience and costs of travel, accommodation and the need for carers to take time off work, required for visits to city-based experts.

Since 2013, the Health-e-Regions project has been assisting people in the Western Downs to connect with health professionals in Brisbane via telehealth. QGC has contributed more than \$2.4 million over five years for the project.

Surat Basin

This section features information about activities in our natural gas development areas that cover more than 4,900 square kilometres and span from south of Tara to north-west of Wandoan.

Drilling rigs

We are currently drilling about 25 wells a month to expand our inventory.

The following activities are planned for September:

- two rigs drilling new CSG wells and associated activity
- nine rigs completing new wells and servicing existing wells
- four crews building new access roads and well pads and two crews rehabilitating existing and old well pads
- two mobile fluid treatment plants servicing these rigs. Mobile fluid treatment plants clean the fluids from drilling operations for reuse on the rigs
- two crews completing well and surface equipment maintenance.

Rig crews stay in small mobile camps that are set up near the rigs. On average, rigs are relocated every three to four days and require 11 to 20 truck movements. Rigs and camps are moved in accordance with travel management plans that are approved by local governments and the Queensland Department of Transport and Main Roads.

Well site inspections

A team of 50 operators inspect each of QGC's more than 2,500 wells once a fortnight. Operators are required to adhere strictly to land access and weed management rules for individual properties. This team, who drive utility vehicles, represent a major proportion of our light vehicle movements around the region.

Gathering

This work is in addition to ongoing installation of gas and water gathering pipelines to connect new wells to our existing processing networks. The following activities will occur in September:

West and north-west of Wandoan

- Pipe trenching, pipeline laying and backfilling and tying-in connections.
- Construction of gathering risers into well pads.
- Rehabilitation of construction sites and pipeline easements.

Pipeline inspections

QGC operators work in small teams to inspect the 543 kilometres of Wallumbilla Gladstone Pipeline easement to monitor the infrastructure and progress of vegetation rehabilitation.

In September, the following activities will occur:

- Aerial inspections from west of Dalby (Ruby Jo site) to west of Wandoan (Woleebee Creek site) and between Chinchilla and Gladstone during the first half of the month.
- Daily, on-ground easement inspections from west of Dalby (Ruby Jo site) to Gladstone.

Water Treatment

The Northern Water Treatment Plant, at Woleebee Creek south-west of Wandoan, and the Kenya Water Treatment Plant, south-west of Chinchilla, are successfully processing water produced in the surrounding gas fields for beneficial use within these regions.

These two water treatment plants enable QGC to make available 97% of produced water for beneficial use.

The following table summarises the average daily production at each water treatment plant and the total volume of water processed to date in 2016.

Water Treatment Plant	Average daily production (August 2016)	2016 Year to Date Production (as at 20 August)
Kenya	45 ML/d	11,730 ML
Northern	15 ML/d	3,799 ML

Charlie project update

Construction of the Charlie project is over one-third complete. Charlie project has continued its impressive HSE record. Three of the four construction teams have completed more than 150 days of work without injury.

Deliveries of major equipment to the main site and laydown yards near Woleebee Creek Central Processing Plant will continue regularly during the next three to four months. Where required, specialist transportation companies have been engaged and police escorts deployed to ensure safe delivery.

The Charlie Field Compression Station construction is underway. Concrete foundations have been completed for all 12 compressors and 10 of the 15 modules fabricated in Gladstone have been installed.

Overall progress for the 34km gas and water pipelines is almost halfway complete between the Charlie Field Compression Station and existing facilities at Woleebee Creek. The mainline welding for the gas pipeline is complete, and installation and backfill of the pipeline 45% complete. Coating of the welded field joints and trenching of the main pipeline is also complete. Welding of the water pipeline has commenced, six welding machines are being used to complete the task.

The Charlie pond and pump stations are 45% complete. The Phillip pond liner has been installed to ensure no loss of water from the pond. The next phase of works include construction of pump station underground services and foundations.

The underground services Charlie pump station is complete and the construction of foundations will continue during September.

The Woleebee Creek Central Processing Plant substation is being expanded to accommodate the Charlie development. A new substation adjacent to the Charlie Field Compression Station as well as an overhead transmission line connecting the two substations is under construction and is almost half complete.

A 34km overhead transmission line between the Woleebee Creek and Charlie substations is underway. Two piling rigs continue to work along the easement pouring concrete piles that will support the steel transmission line poles. The transmission line pole installation commenced in late August and will continue through September. Up to five poles are installed each day.

Western Downs road transportation update

In the coming months, major components for the Charlie project, including the pipework will be delivered via road. A small number of large semi-trailers will transport preconstructed modules to the site.

Some heavy vehicles and wide loads will seek approval to use extended sections of the Grosmont Road and L Road routes.

These approvals are given on a case by case basis by permit through the National Heavy Vehicle Regulator. The expected transport route will be via Wandoan, onto Jackson-Wandoan Road, Grosmont Road, L Road, Bundi Road, and into the Charlie development area.

If driving on the Warrego Highway, Leichhardt Highway or Jackson Wandoan Road please be aware of road conditions and the possibility of vehicles hauling very large or heavy loads.

Please observe the signage and any directions provided by the leading or trailing vehicles associated with these loads.

QGC is also upgrading various roads, some of which are currently under construction, and others will commence in the coming weeks. These road upgrades are summarised below:

Bundi Road intersections

Works have commenced on the Charlie Field Compression Station access to Bundi Road. The access is located 8.4km west of the existing Bundi Road/Cecil's Road intersection. These works and the upgrading of the nearby Mount Organ Road/Bundi Road intersection are scheduled for completion in mid-October 2016.

Perretts Road

Perretts Road will be closed at the Horse Creek Crossing for one week to upgrade the floodway at the crossing from the 19 September 2016. The crossing is located approximately 2.7km south of the Ryals Road/Perretts Road intersection. This includes graveling of Perretts Road from Bundi Road to Ryals Road and is expected to be complete in mid-October 2016.

Cecil's Road

The bitumen sealing of Cecil's Road between Bundi Road and Ryals Road will commence on 15 September and will be completed in mid-December 2016. The road will be graded from 1 September 2016.

Ryals Road, Perretts road, Goldens Road

The work to widen, improve alignment and drainage on Ryals, Perretts and Goldens Roads will commence on 5 September 2016 and will be completed towards the end of December 2016. The works include the full length of Ryals Road, the section of Perretts Road between Ryals and Goldens Road and the first 6.5 km of Goldens Road.

Depending on weather conditions and unforeseen events, the above dates may change. All works will be performed in accordance with a council-approved traffic management plan. Please adhere to the advisory traffic signage installed before and during the closure periods. We thank you for your patience.

Increased traffic to the Charlie project is expected as construction progresses. QGC's detailed transport management plan for the project includes IVMS tracking for all QGC vehicles and traffic controls in affected areas. For any concerns please phone the QGC Community Information Line on 1800 030 443.

Western Downs Regional Council tours QGC's Woleebee Creek



The Western Downs Regional Council recently met with QGC Vice President Tony Nunan for a briefing on QGC's local content policy, land access arrangements and community investments.

Council toured a well site, central processing plant, water treatment plant and QGC's Remotely Piloted Aerial System at Woleebee Creek near Wandoan.

QGC and the Council discussed local employment in the Western Downs. In the last financial year, 41% of QGC's upstream staff lived locally in the Surat Basin.

In addition, 24% of our upstream contractor workforce lived in the Western Downs, in towns such as Chinchilla, Dalby, Tara and Wandoan.

Gladstone

LNG Trainees join production crews on shift

QGC's six LNG Operator Trainees will soon get their first taste of operating an LNG plant around the clock when they begin shift work from mid-September.

Each of the trainees, Rayna McDonald, Jason Gilmore, Nyarla Johnson, Cally Rudwick, Brett Robinson and Mick Smith will join one of the four production crews.

The production teams work across a mix of 12-hour night and day shifts to ensure the Curtis Island facility operates 24 hours a day, 365 days a year.

The QGC trainees are among the first intake of 18 Gladstone locals participating in an innovative training program which provides a new career pathway for those wanting to enter the LNG industry.



▲ *Caption: LNG Operator Trainee Cally Rudwick 'learns the ropes' with Production Shutdown Coordinator Marcus Mohess as part of valuable on-the-job training at QCLNG.*

The trainees, who previously had no LNG experience, are completing their Certificate III in LNG Process Plant Operations at CQUniversity Australia and are gaining practical, first-hand experience at the three LNG facilities.

QGC's trainees recently completed a four-week training block at ACEPT in Perth. ACEPT has a small operational plant and control room which enabled the group to gain valuable, practical experience in running a virtual plant and achieve several key course competencies.

The trainees have completed their emergency response training which included two days practical training at the Gladstone Fire Station, followed by a three-day course at the Queensland Fire and Rescue Academy on Whyte Island.

The LNG Operator Traineeship Program is jointly funded and supported by QGC, Santos GLNG and APLNG downstream operator ConocoPhillips who have worked closely with coordinator, Energy Apprenticeships Group Academy (EAGA), in developing a tailor-made course for Gladstone.

Becoming a supplier

QGC supports the long-term, economic sustainability of the regions in which we operate through a focus on local content participation.

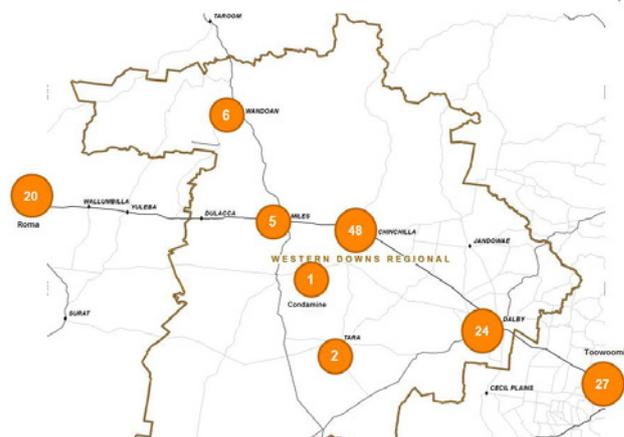
Our Local Content Policy targets four goals: supporting competitive procurement, facilitating job creation, promoting reconciliation and building economic sustainability.

We actively encourage our employees and contractors to source quality, cost-effective goods and services locally, based on full, fair and reasonable opportunities.

This is in line with our participation in the voluntary Queensland Resources and Energy Sector Code of Practice for Local Content administered by the Queensland Resources Council and as required, project-based Australian Industry Participation Plans.

Visit <http://www.bg-group.com/australia/becomingasupplier> to register your interest in becoming a supplier or for a fact sheet on how to access our supply chain.

QGC providing new work for local business



In the last financial year 86 suppliers in the Western Downs have been awarded contracts by QGC. These suppliers provide a diverse range of goods and services from scaffolding, concrete batchplants, cleaning services, accommodation and telecommunications.

Chinchilla's Specialty Services is just one example of a local supplier engaged by QGC. The contract with the supplier was renewed this year after a competitive tendering process and was awarded for \$6.8 million to supply site technical cleaning services.

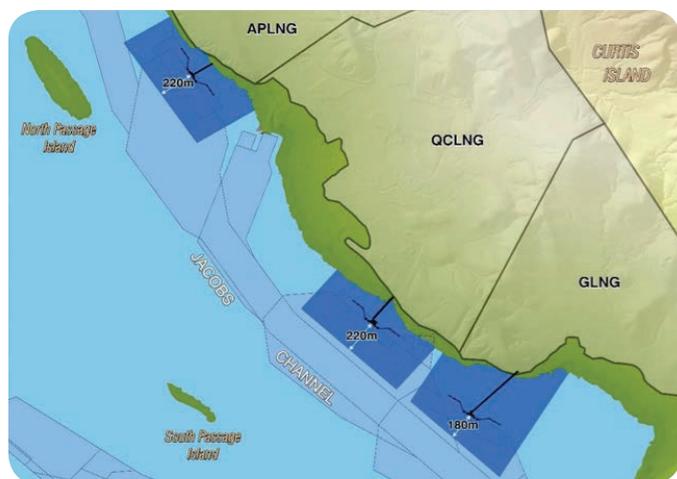
In the last financial year, \$254 million was spent by QGC on goods and services within our operating regions. Of this amount 21% was spent in the Western Downs.

New contracts in 2016	Location
Frog Services	Chinchilla
Speciality Services Queensland	Chinchilla
Assess Orr	Dalby
Boodles Concrete	Miles
Eastwood Village	Miles
Wandoan Accommodation Park	Wandoan

Waterside Restricted Zone

The following information is provided on behalf of QGC and Gladstone Ports Corporation to users of Gladstone Harbour near the LNG facilities on the south-eastern corner of Curtis Island.

- A waterside restricted zone (WRZ) is an area of water where ships may berth, moor or anchor to which access to other vessels is restricted and to which unauthorised entry is an offence.



For up-to-date information on activities in Gladstone Harbour, please remember to always check the Gladstone Ports Corporation website www.gpcl.com.au, which includes information about hazards and safety zones; and the Maritime Safety Queensland notices to mariners at www.msq.qld.gov.au. Vessel Traffic Service broadcasts can be monitored using VHF channels 13 or 15.

- A WRZ is activated at the QCLNG wharf one hour before the arrival of an LNG carrier and remains while the vessel is berthed and until it is 400m from the berth after departing.
- The zone extends 220m from the wharf, 220m from its most northerly and southerly points and back under the jetty towards the shore.
- As port operator, Gladstone Ports Corporation (GPC) is responsible for managing and enforcing WRZs to meet standards set by the Maritime Transport and Offshore Facilities Security Act 2003.
- Commercial and recreational users must not enter, stop, or anchor within a WRZ unless authorised to do so by GPC.
- A 250m safety zone around the wharf is also active while a vessel is berthed.
- For more information about WRZs please contact the Gladstone Ports Corporation Security Office on **07 4976 1350**.

Pipeline

Landholders planning to do any digging around buried pipelines should call **'Dial Before You Dig'** (call 1100, <http://www.1100.com.au>) to obtain the specific location of the pipelines and associated infrastructure.

Call the **QGC Operations Centre (1800 77 88 98)** to report any emergencies, damage or vandalism, flooding, subsidence, washouts or erosion, unauthorised access to easement facilities or uncontrolled fire.

Communities

Date	Location	Activity
1 – 11 September	Miles	Beef, Bells and Bottle Tree Festival. https://www.facebook.com/Beef-Bells-Bottle-Tree-Festival-306840632710922/home Cost: Various events.
2 – 4 September	Wandoan	State Polocrosse Festival. Wandoan Showgrounds, Roche Creek Road, Wandoan. https://www.facebook.com/events/1160761857302531/
17 September	Brigalow	Brigalow Bush Carnival, Brigalow Recreation Grounds Cost: \$4, Primary School children free.
26 September	Dalby	Dalby Drone Industry Forum. Monday 26 September, 9am – 5.30pm. Dalby Showgrounds Pavilion, Nicholson Street, Dalby. Cost: Free.

Eight Western Downs producers to explore their China opportunity



▲ *Caption: Four of the eight producers learning to get their businesses ready to export are: (L-R Front Row) Cecilia Donohoe and Kirillee Donohoe (L-R Back Right), Food Leaders Australia Chief Executive Dr Ben Lyons; Trade and Investment Queensland TradeStart Expoert Advisor, Geraldine Doumany; Steven Keating; Clay Cini; QGC Social Performance Coordinator Carlie Watson; Aaron Scheid and Damien White.*

QGC has partnered with Food Leaders Australia to support eight producers to participate in the Western Downs Eastern Opportunities project. The project will help producers further develop their export strategies and assist their business in getting export ready.

The selection of the eight producers starts the next stage of the project, which followed a series of free Agricultural Export Opportunity Forums hosted in Tara, Wandoan and Chinchilla in May this year.

Participants will receive expert, tailored coaching and advice to open up opportunities to export produce to China through targeted market research. They will also visit China later this year.

The visit will give participants a deeper understanding of the market and opportunities relating to their product, relationship-building opportunities with key contacts and introductions to potential customers.

Vice President QGC Tony Nunan said it was as an exciting project.

“QGC is keen to see ongoing growth and sustainability in the Western Downs region through both the long term operation of our natural gas assets and our support of the agricultural industry,” Mr Nunan said.

The producers will also receive one-on-one support for 12 months following the delegation.

Gladstone team rolls up sleeves for Relay for Life



▲ *Caption: QGC in the Community volunteers Robyn Sotiris and Heather Carper help out at this year's Relay for Life.*

QGC's Midstream team recently rolled up their sleeves to help the organisers of Gladstone's Relay for Life event. The team set up and packed down the event.

The organisers appreciated the extra sets of hands that helped ensure the event was a great success.

Gladstone Relay for Life raised over \$97,000 for Cancer Council's research, prevention and support services.

Queensland Museum initiative will bring LNG into the classroom



▲ And action! QGC graduate Sarah Gallegos hosts one of the short films on STEM produced by the Queensland Museum Network as part of QGC's Future Makers partnership.

Queensland school students will soon have access to a behind-the-scenes look at QGC's operations on Curtis Island, hosted by the very people who work there.

As part of QGC's Future Makers partnership with Queensland Museum Network, a series of short films have been produced to inspire students to undertake careers in Science, Technology, Engineering and Mathematics (STEM). The films demonstrate the links between converting natural gas to a liquid at an LNG plant as part of the year six and nine science curriculums.

The Queensland Museum team spent two days on Curtis Island in late August, capturing the operations team at work across site and interviewing Midstream team members about their roles and how their love of science has led them to their respective careers.

Production Technician, Mark Land, Graduate Electrical Engineer, Sarah Gallegos and Graduate Process Engineer, Ellen King each shared their own personal insights into working at an LNG plant. They spoke of their pride in being members of the QGC team which has achieved several firsts including being the world's first producer of LNG from natural gas sourced from coal seams.

The videos will be made available to schools across Queensland from October 2016.

This *Operations Bulletin* is designed to provide communities in the Surat Basin and Gladstone with a variety of information about our activities. It has been developed in response to feedback from community members interested in understanding what to expect from our operations.

Visit the QGC website (<http://www.bg-group.com/qgc>) to read *Links Australia*, our quarterly magazine. You can also sign-up to our subscription list to receive copies of both publications.

We look forward to your feedback at community@qgc.com.au

Enquiries

For all general enquiries, please call **1800 030 443** (24-hour-toll-free) or email community@qgc.com.au

Visit our information centres at:

Chinchilla

Woolworths Complex,
Shop 18-20 Nrll Dytry,
Chinchilla, QLD 4413

QGC PO Box 266,
Chinchilla, QLD 4413

Gladstone

72 Goondoon Street,
Gladstone, QLD 4680

Wandoan

27 Royd Street,
Wandoan, QLD 4419

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