

# OPERATIONS BULLETIN

ISSUE 18. OCTOBER 2016

## Basin air quality data now live online



▲ *Caption: CSIRO check one of the five air monitoring systems that are now live-streaming air quality data from the Surat Basin on the web.*

Communities in the Surat Basin now have access to live-streamed air quality data from the first comprehensive air quality measurement program ever undertaken in the region.

The data shows air-quality in the Surat region as clean or better than locations in South-East Queensland.

The air quality data and the modelling results will help residents feel confident that the Surat Basin is a safe and healthy region with clean air.

CSIRO, through the Gas Industry Social and Environmental Research Alliance (GISERA) is leading a study that involves collection of air quality measurements through a network of five ambient air quality stations in the Chinchilla, Miles and Condamine region.

Through the study, specialised instruments are measuring carbon monoxide, methane, volatile organic compounds, nitrogen dioxide, ozone and other particles in the atmosphere.

The study will be undertaken over two years and some of the data collected is streamed live to the Queensland Government website (<http://www.ehp.qld.gov.au/air/data/search.pjp>).

The data is accessible to everyone, which means communities and the general public can stay informed about air quality in the Western Downs region, how it compares to other parts of the state and how the levels compare to the government's air quality standards.

The data will be used to model how natural and man-made emission sources including power stations, mines, livestock production, motor vehicles, bushfires, vegetation and the natural gas industry affect air quality.

By running the model with different emission sources switched on or off, the degree of contribution from different sources including the natural gas industry can be investigated.

## 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.

### 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 October:

#### 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 October, 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 (September 2016)	2016 Year to Date Production (as at 20 September)
Kenya	40 ML/d	13,066 ML
Northern	15 ML/d	4,272 ML

### Charlie project update

Construction of the Charlie project continues. A significant amount of rain in September caused some delays, however the team minimised the work time that was lost by planning work in advance to ensure crews could return to work quickly.

The health, safety and wellbeing of the project's workforce is our number one priority. In September teams participated in driver training, behavioural safety and mental health awareness training.

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 and police escorts will be used to ensure safe delivery.

#### Charlie Field Compression Station

The Charlie Field Compression Station construction progresses. Priority work for the construction team is now underground works. The final pre-fabricated modules arrived in September. Major construction components will be delivered from October when mechanical, piping and welding construction will begin. The electrical team have over two kilometres of cable to install.

#### Pipelines

Overall progress for the 34km gas and water pipelines is over 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 is 56% complete. Stringing and welding of the water pipeline is in progress.

#### Ponds

Both Charlie and Phillip pond liners have been installed to ensure no loss of water from the ponds. The next phase of works is focussed on the installation of new pumps and connecting of the water pipeline.

#### Substation Expansion

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 over half complete.

A 34km overhead transmission line between the Woleebee Creek and Charlie substations is underway. All steel transmission line poles have been installed between Woleebee Creek and Charlie.

## Western Downs road transportation update

QGC is 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 and are expected to be complete by early November 2016. The access is located 8.4km west of the existing Bundi Road / Cecils Road intersection. The upgrading of the nearby Mount Organ Road / Bundi Road intersection is scheduled for completion in mid-October 2016.

### Perretts Road

The road closure at Perretts Road at the Horse Creek Crossing has been delayed due to the recent wet weather and will be closed from 10 to 21 October to upgrade the floodway at the crossing. The crossing is located approximately 2.7km south of the Ryals Road/Perretts Road intersection. This includes gravelling of Perretts Road from Bundi Road to Ryals Road and is expected to be complete end-October 2016.

### Cecils Road

The bitumen sealing of Cecils Road between Bundi Road and Ryals Road has commenced and will be completed in late-November 2016. The sealing of the road is now underway.

### Ryals Road, Perretts Road, Goldens Road

The works to widen, improve alignment and drainage on Ryals, Perretts and Goldens Roads have commenced 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. Traffic control will be in place during October for works requiring detours at two locations along Ryals Road. There will also be ongoing earthworks occurring at various locations.

Weather conditions and unforeseen events, may impact dates and timings. 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.

## Tragic road accident

At the time of the QGC Operations Bulletin being published, we have learnt an employee who works for one of our contracting partners, Easternwell, passed away following a single vehicle accident. The accident occurred on Kumbarilla Lane, near Ruby Jo (approximately 40 kilometres west of Dalby) on Sunday 9 October 2016.

Our deepest sympathies go to the man's family, friends and his Easternwell and QGC work colleagues, during this difficult time.

The Queensland Police Service is conducting a full investigation into the accident. QGC and Easternwell have commenced investigations into the incident.

Any learnings from this incident will be shared more broadly with industry colleagues in due course.

## Independent groundwater report approved by Department of Environment and Heritage Protection

Independent and comprehensive research released by the Office of Groundwater Impact Assessment was approved by the Chief Executive of the Department of Environment and Heritage Protection on 19 September and replaces the original 2012 report.

The independent report shows Queensland natural gas from coal seams operations will produce 26% less water than previously estimated, over the life of the industry.

Of the 22,500 water bores studied in the area (the majority privately operated), 459 may be affected by natural gas production. This is a 13% reduction on QGIA's 2012 report. Under the *Queensland Water Act 2000* (water Act) QGC is obliged to "make good" any land owner water bores that are impacted by operations.

The reduction is due to a contraction of the area of planned development, better information about which aquifer each bore accesses, decommissioning of some bores, and the use of a new groundwater flow model that better represents the movement of water within and between formations.

Natural gas in coal seams is held in place by the pressure of groundwater. The water is pumped to the surface by wells, relieving this pressure and allowing gas to flow and be collected.

Under the *Queensland Water Act 2000* (water Act) QGC is also required to undertake bore baseline assessments before gas production commences. This process provides information on bore and groundwater characteristics before gas extraction begins.

## Hundreds attend LNG traineeship information night



◀ *Caption: Mick Smith, QGC's LNG Process Operator trainee is excited about a new career in LNG. The 2017 intake with Energy Apprenticeships Group is now underway.*

Gladstone locals will once again have the chance to join the LNG Process Operator Traineeship program in 2017. Over 200 locals attended the launch to learn how they can secure a place in the program and pursue a career in the LNG industry.

QGC hosted six of the 18 trainees in 2016 who gained practical, real-world experience at the Gladstone LNG plants while completing their Certificate III in Process Plant Operations.

The innovative training program enables Gladstone residents with no LNG experience to gain qualifications and apply for LNG Process Operator roles.

Mick Smith is one of the six trainees QGC hosted in 2016. "Since starting with QGC and Energy Apprentices Group in February it's honestly been the best eight months of my working career. I've been paid to learn a skillset that I'm interested in perfecting and I've worked beside a great group of trainees. Our group is made up of people from a variety of backgrounds, ranging from a school leaver, a vet nurse to a mechanical engineer, so don't let a lack of industrial experience hold you back from applying," he said.

"The support network we had with Energy Apprenticeships Group, QGC and the Australian Centre for Energy and Process Training is very professional. I get the feeling that they really want to see us succeed, the time and effort invested in us has been unbelievable and they give you everything you need. But you still need to put in the work."

The program is being coordinated by specialist training group, Energy Apprenticeships Group Academy (EAGA), a collaboration between the Chamber of Commerce and Industry of Western Australia (CCI) and the Challenger Institute of Technology's Australian Centre for Energy and Process Training (ACEPT). ACEPT is also supporting Central Queensland University in delivering the best-practice program. For more information on the program click here <http://www.eag.com.au/QLD2017>.



▲ *Gladstone locals learn how to secure a place in the 2017 LNG Process Operator Traineeship. The program supported by the Gladstone LNG companies is delivered by Energy Apprenticeships Group.*

## Gladstone Regional Council tour Curtis Island

Representatives from the Gladstone Regional Council, including Mayor Matt Burnett and Councillors, and the Gladstone Region LNG Community Consultative Committee visited QGC's operations on Curtis Island in September

The group met with QGC Vice President Tony Nunan and toured the world-class facility, which is operated by a predominantly local workforce. At our Curtis Island plant 98% of QGC's staff and 100% of QGC contractors are Gladstone locals.



## 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.

## 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
Monday 10 October 2016	Wandoan	CCIQ Business Resilience Forum, 6.30am – 9.30am, Bushlander Motel, Henderson Road, Wandoan Cost: Free <a href="https://wandoan.cciq.com.au/events/business-resilience-forum-2/">https://wandoan.cciq.com.au/events/business-resilience-forum-2/</a>
Tuesday 11 October 2016	Tara	CCIQ Business Resilience Forum, 6.30am – 9.30am, Tara Bowls Club Cost: Free <a href="https://tara.cciq.com.au/events/business-resilience-forum/">https://tara.cciq.com.au/events/business-resilience-forum/</a>
Wednesday 12 October 2016	Miles	CCIQ Business Resilience Forum, 5pm – 8pm, Swagsman Motor Inn, Marian Street, Miles Cost: Free <a href="https://miles.cciq.com.au/events/business-resilience-forum/">https://miles.cciq.com.au/events/business-resilience-forum/</a>
Thursday 13 October 2016	Chinchilla	CCIQ Business Resilience Forum, 6.30am – 9.30am, Community ConneXions, Middle Street, Chinchilla Cost: Free <a href="http://bit.ly/2dIRw2m">http://bit.ly/2dIRw2m</a>
Friday 14 October 2016	Jandowae	CCIQ Business Resilience Forum, 6.30am – 9.30am, Paula's Place Café, High Street, Jandowae <a href="https://jandowae.cciq.com.au/events/business-resilience-forum/">https://jandowae.cciq.com.au/events/business-resilience-forum/</a>

## Canadian First Nations Kitselas tour Curtis Island



▲ *Caption: Representatives of Canadian First Nations people Kitselas hear from QGC representatives on how traditional land owners can achieve meaningful and sustainable opportunities with an LNG business.*

Canadian First Nations group Kitselas visited QGC's operations on Curtis Island in September as part of a self-funded fact finding mission to understand how traditional land owners can benefit and build sustainable opportunities from an LNG industry.

Pictured are (from left) Kitselas Band Councillor Noel Argueta; QGC Cultural Heritage Coordinator Greg Blackman; Kitselas Band Councillor Roxanne Ridle, QGC Midstream Operations Manager Adrian Button; Kitselas Band Council Land and Resources Department staff member Debbie Moore, and QGC Social Performance Community Liaison Officer Robyn Sotiris.

## QGC's world-first technology on display



▲ *Caption: QGC Aviation and Ground Transport Manager Richard Eva, QGC Social Performance Coordinator Carlie Watson, Australian Research Centre for Aerospace Automation Director Professor Duncan Campbell, Australian Association for Unmanned Systems President Dr Reece Clothier show the Scaneagle UAV (Remotely Piloted Aircraft Systems) technology QGC uses in its operations at the Dalby Drone Industry Forum.*

## Chinchilla State High School students ready to try a trade



▲ *Caption: Year 10 Chinchilla State High School students ready to start the Try-A-Trade program supported by QGC*

Students from Chinchilla State High School got a taste of a variety of different trades at the launch of the 2017 Try-A-Trade program funded by QGC. The Try-A-Trade program is a 10 week pre-vocational "try trade" training program for students in year 10. QGC has supported the program for four years. A number of students who took part in the 2016 program have continued work experience roles one day per week and were given opportunities to begin a school based apprenticeship.

QGC's Remotely Piloted Aircraft System (RPAS) was on display at the Dalby Drone Industry Forum as an example of how the emerging drone technology can benefit both resources and agricultural sectors.

QGC has partnered with Boeing in developing the world's first commercial use of beyond-line-of-sight RPAS in our gas field operations.

The forum, held in September, allowed over 350 participants to hear from experts in the aerospace industry on the opportunities the technology presents as well as safety, privacy laws and regulations.

QGC's RPAS monitor natural gas wells and associated infrastructure which, until now, have mostly been inspected on the ground by four-wheel-drive. Landowners will benefit, over time, from fewer visits to their properties while QGC and the community will benefit from fewer vehicles on the roads.

**QGC brings online speech therapy to Western Downs schools**



▲ *Caption: Students test out the new technology at Chinchilla State School (top row), Wandoan State School (bottom left) and, Tara Shire State College (bottom right) at the launch of the expansion of QGC's Health-e-Regions program at five Western Downs schools. 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.*

**Brigalow Recreation Grounds upgrades canteen in time for the 56th annual Brigalow Bush Carnival**



▲ *Caption: The Brigalow Recreation Grounds canteen and dining area open just in time for the 56th annual Brigalow Bush Carnival on Saturday 17 September 2016 after undergoing an upgrade with the help of the QGC Communities Fund. QGC Lead Social Performance Advisor Kristelle Townsend, Brigalow Recreation Ground committee President Greg Olm, and Member for Warrego Ann Leahy open the Brigalow Recreation Grounds canteen and dining area. The \$85,000 upgrade was completed with a \$50,000 grant from the QGC Communities Fund.*

## QGC Communities Fund grant upgrades Hannaford Hall



▲ *Caption: QGC Lead Social Performance Advisor Kristelle Townsend (left) and Hannaford Club Committee President Joseph Gleeson (right) along with the residents of Hannaford celebrate the opening of the upgraded community hall. The QGC Communities Fund grant of \$50,000, along with over \$21,000 raised by the Hannaford Club members funded the refurbishment.*

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](mailto:community@qgc.com.au)

## Enquiries

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