

OPERATIONS BULLETIN

ISSUE #21 MARCH 2017

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TRAINING THE FUTURE OF LNG



The future of Gladstone's LNG looks bright with the 2017 LNG Operator trainees announced at the official launch on 1 March 2017.

The LNG Process Operator trainees began their studies in February, embarking on the program which enables Gladstone locals with no LNG experience to gain qualifications to apply for LNG Process Operator roles.

The trainees follow in the footsteps of the successful 2016 intake who are now either employed full-time or completing their on-the-job experience on Curtis Island.

The 2017 trainees will study at Central Queensland University (CQU) and gain practical, first-hand experience at QGC and Australia Pacific LNG downstream operator ConocoPhillips' facilities. The two LNG companies are jointly funding and supporting the program.

Tony Nunan, Shell's Vice President for QGC said, "QGC is committed to investing back in the Gladstone community and this initiative targeting

improved access to training and employment opportunities for local residents is vital to ensure we have a pipeline of skilled workers in the LNG industry.

"This year's cohort joins the first intake of trainees who now have 12 months of study and practical experience behind them thanks to this bespoke training program."

At the conclusion of the two-year program, graduates will receive a Certificate III in LNG Process Plant Operations.

The program is coordinated by Energy Apprenticeships Group (EAG), a collaboration between the Chamber of Commerce and Industry of Western Australia (CCI) and the South Metropolitan TAFE's Australian Centre for Energy and Process Training (ACEPT). In addition, ACEPT will support CQU in delivering the best-practice program.

Welcome aboard! QGC's 2017 LNG Process Operator trainees began their studies in February. The program enables Gladstone locals with no LNG experience to gain qualifications to apply for LNG Process Operator roles.

"THIS YEAR'S COHORT JOINS THE FIRST INTAKE OF TRAINEES WHO NOW HAVE 12 MONTHS OF STUDY AND PRACTICAL EXPERIENCE BEHIND THEM THANKS TO THIS BESPOKE TRAINING PROGRAM."

CHARLIE PROJECT UPDATE



The Charlie project is progressing well and work has continued safely and on-time despite the Christmas holiday break period and severe storms.

The recent extreme hot weather has heightened the safety focus on heat awareness ensuring staff are working safely and regularly hydrated.

The delivery of the large pre-assembled units and packaged equipment is now complete with the Charlie Field Compression Station compressors arriving to Australia and successfully transported to Chinchilla in the New Year.

Around 400 kilometres of gas and water pipelines have been installed. The gas and water pipelines that connect to QGC's Woleebee Creek facilities have been successfully tested.



The Charlie Pump Station, Woleebee Creek Sub-station and Charlie and Phillip ponds have been completed and tested, ready to be operational.

QGC UPGRADES ROADS

QGC is upgrading various roads, some of which are currently being worked on, and other upgrades will start in coming weeks. Road upgrades are summarised below:

PERRETS ROAD

Upgrading and gravel surfacing on Perrets Road is complete. Due to recent dry conditions the road has become dusty. QGC has arranged for dust to be controlled however drivers should

reduce speed and stay to the left when travelling through dusty areas.

CECILS ROAD

The last section of sealing works is complete. Speed restrictions and possible traffic controls will be in place. The road may be narrow and dusty in some sections. Drive to conditions and comply with road signage.

RYALS ROAD

The sealing of Ryals Road will be conducted in late-March 2017. Speed restrictions and traffic control will be in place. Planning for the construction of the floodway across Horse Creek is well advanced and these works are anticipated to commence in late-March 2017. The Horse Creek floodway construction will require that Ryals Road be closed to traffic at this point for around two weeks. Further notice on road closures will be provided prior to the works commencing.

GOLDENS ROAD

A six kilometre section of gravel construction on Goldens Road from Peretts Road west has been completed.

BUNDI ROAD

The Western Downs Regional Council has lifted the five tonne load restriction on the Sundown Creek Bridge. A 42.5 tonne load restriction is now in place. Vehicles above this mass are required to use the side-track around the bridge.

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 and encourage all drivers to keep safe and drive to conditions.

Increased traffic to the Charlie project is expected as construction progresses. QGC's detailed transport management plan for the project includes In-vehicle Monitoring System 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.

WANDOAN COMMUNITY MEMBERS TOUR QGC'S CHARLIE DEVELOPMENT

Wandoan community members saw first-hand the construction progress on QGC's Charlie development in early February 2017.

The 26 community members toured a well site, power substation, field compression station, a water pond, high voltage power infrastructure and rehabilitated land.

The Charlie field compression station has an improved design from older compression stations and can gather additional volumes of gas.

About 100 wells typically supply a field compression station. With improvements to design around 400

wells will supply the Charlie field compression station which will be linked to QGC's existing Woleebee Creek facilities.



QGC's Lead Project Engineer, Ponds and Pumps, James Nyman talks to Wandoan community members during a tour stop at QGC's Charlie development.

GLADSTONE

RESEARCH REVEALS PREVIOUSLY UNKNOWN TURTLE BEHAVIOUR IN THE GREAT BARRIER REEF



Great Barrier Reef conservation areas and the future management of turtles are beginning to be better understood with satellite technology funded by QGC enabling tracking of nesting flatback turtles.

Turtle behaviour along the Great Barrier Reef is now better understood after QGC applied innovative satellite technology to reveal the migration pathways of nesting flatback turtles in November 2016.

Understanding the movements of the turtles is showing what areas are particularly important for conservation and assists with the future management of this special species.

Ten turtles were fitted with a specially designed harness and satellite tag after laying a clutch of eggs at Avoid Island, near Mackay.

The tags record the depth, water temperature and location of turtles at regular intervals, transmitting data back to QGC every few hours via satellite.

QGC's Marine Adviser Andrew Tapsall said the collaborative project had revealed some interesting results, particularly on the whereabouts of turtles during the time between successive nesting events.

"All ten turtles ventured south of Avoid Island after nesting, resting for two weeks within a shallow waterway known as Broad Sound" north of Curtis Island.

"This area may be more important for the conservation of this vulnerable species than was previously thought", he said.

After laying up to four clutches of eggs, the turtles are now returning to their long term foraging grounds, located hundreds of kilometres to the north of Mackay in the Great Barrier Reef.

"While all the turtles were tagged on the same small nesting beach at Avoid Island, they are returning home to different locations, hundreds of kilometres apart", Andrew said.

"The migration paths they are taking on their return journey are quite varied and will provide important information to assist with future management of the species", he said.

QGC is conducting extensive turtle monitoring in the Gladstone region as part of its LNG project. Avoid Island, located 250 km north of Gladstone, is a control site, located well away from mainland development.

"The results at Avoid Island show us how turtles in an undisturbed landscape behave, assisting when considering information collected closer to Gladstone, where industry is present," he said.

The project is being implemented as a collaborative partnership with the Queensland Trust for Nature, Department of Environment and Heritage Protection, James Cook University, Gladstone Ports Corporation and Eco Logical Australia.

ENVIRONMENTAL SYSTEM INTERNATIONALLY CERTIFIED

QGC's Environment Management System at the LNG plant in Gladstone has been independently certified as meeting the ISO14001 Environmental Management Standard.

The certification provides assurance to government regulators and the community that strict operational controls are in place to manage risks to the environment.

ISO14001 is the international specification for the environmental management system which assists QGC in managing environmental operational risks.

The Environment Management System was developed during the early stages of construction in 2011 and achieved the certification in December 2016.

QGC's Surat Basin operations received the certification in November 2015, meaning all of QGC's operations are now certified by independent certifier Lloyds Register Quality Assurance. QGC is the only on-shore natural gas company in Australia to receive this certification.

QGC Operations Manager Adrian Button said "the ISO14001 certification of QGC's LNG plant is a real milestone and commendable achievement".

It has been a journey spanning five years from construction, commissioning and start-up of the LNG plant, through to the current steady-state operations".

"QGC is serious about our environmental duty of care and high standards of environmental management have always been a priority for the businesses".

"The achievement is an example of what hard work, dedication and team work can achieve. It is also fitting as this achievement coincided with the plant's 200th cargo in December 2016," Adrian said.

GLADSTONE'S HEALTHY HARBOUR



The health of the Gladstone Harbour has been judged as good to very good in the 2016 Harbour Report Card.

The report card is based on the results of the testing of 95 measures between July 2015 and June 2016 and showed little change in the harbour's overall health from the previous year.

Minister for Environment and Heritage Protection Dr Steven Miles released the report in February 2017 saying it was a "good result".

"To see water quality good to very good throughout the system, given the scale and intensity of industry here in Gladstone, and agriculture upstream, it is good news" he said.

All smiles with a good report card for the health of Gladstone Harbour. From left, Gladstone Healthy Harbour Partnership chair Paul Birch, Gladstone Healthy Harbour Partnership Media and Communications Officer Lyndal Hansen, Minister for Environment and Heritage Protection Dr. Steven Miles and QGC's Marine Adviser Andrew Tapsall

With the three LNG projects on Curtis Island now operational, there has been a substantial increase in large ship movements in the harbour.

The report confirms the environmental health of Gladstone Harbour meets all relevant State and Federal Government Marine Water Quality guidelines.

The report card is developed by Gladstone Healthy Harbour Partnership and is assessed for quality assurance by an independent science panel.

GLADSTONE 'MEGA-PROJECT' NAMED THE WORLD'S BEST

Congratulations to Bechtel, for winning the Platts Global Energy Awards Construction Project award for construction of the Curtis Island LNG plants.

Bechtel constructed the QGC LNG plant which QGC took over full operations from November 2015.

Bechtel's Oil, Gas and Chemicals Business president Alasdair Cathcart said "We are thrilled to have received the Platts Construction Project of the Year award for the massive scale of engineering and construction work on Curtis Island".

"This award is a testament to our talented team who worked collaboratively with our customers, the excellence of our extensive global supply chain, and the commitment and support of the local community.

"Our combined efforts and innovative approach to mega-project execution resulted in the delivery of reliable gas liquefaction facilities as well as sustainable local benefits," he said.

THE WORLD SCIENCE FESTIVAL REGIONAL PROGRAM IN CHINCHILLA

The World Science Festival Brisbane Regional Program is set to bring science out of the lab and to Chinchilla on 1 April 2017.

The free event at the Chinchilla Cultural Centre, will give visitors the opportunity to explore the wonders of science through workshops, hands on activities and visual displays.

QGC is supporting The World Science Festival Brisbane Regional Program as

part of the Future Makers partnership with the Queensland Museum Network.

Future Makers aims to create a whole-of-life approach to science, technology, engineering and maths (STEM) education.

For more information <http://www.worldsciencefestival.com.au/program/events/chinchilla-community-event/>.

COMMUNITIES

DATE	LOCATION	ACTIVITY
1 April	Chinchilla	World Science Festival - Regional Program, 9am – 4pm Location: Chinchilla Cultural Centre 68 Heeney Street, Chinchilla. Cost: Free For more information: http://www.worldsciencefestival.com.au/program/events/chinchilla-community-event/
6 April	Gladstone	Gladstone Industry Supply Chain Expo 2017, Thursday 6 April 2017, 9 – 2pm. Location: Leo Zussino Building, CQ University, Bryan Jordan Drive, Gladstone Cost: \$300 For more information: https://www.gea.asn.au/

OVER 15,000 ATTEND THE 2017 CHINCHILLA MELON FESTIVAL



The 2017 Chinchilla Melon Festival was once again a sticky success with more than 20 tonnes of watermelon smashed over the three day event.

The festival saw 15,000 visitors enjoy the melon capital of Australia.

QGC has proudly sponsored the biennial festival since 2009 to support the communities in which we operate.

A team of more than 75 QGC volunteers helped set up the Melon Festival games arena on Saturday 18 February.

QGC sponsored the Melon Games Arena at Chinchilla State School and hosted events including melon skiing, melon bungy, tug-o-war, chariot races and melon ironman and women races.

Prior to the festival, to celebrate all things melon, QGC hosted a 'Show us your Melon-head' competition, which invited the local community to dress up a watermelon to look like a person and upload the photo on Facebook, Twitter or Instagram with the hashtag #QGCMelonHead. Check out the entries we received [here](#).

The winner received a \$2,000 donation to a charity of their choice and a \$1,000 Betta Home Living Chinchilla voucher.

This year's winner of the #QGCMelonHeads competition was 'Melon Baby' by Julz Kay. With special mentions to 'He's a working class melon' by Krystle McConville for second place, and 'Dolly Melon' by Denice Ashton for third place.



Get your skates on, melon-skates that is. QGC's 75 volunteers hosted the Melon Games Arena at the 2017 Chinchilla Melon Festival.

QGC COMMUNITIES FUND UPGRADES THE CALLIOPE RIVER HISTORICAL VILLAGE



President of the Port Curtis Historical Society, Colin Druery (far left) and Port Curtis Historical Society Treasurer Robin Redshaw (second left), show the Wheeler family the upgraded facilities at the Calliope River Historical Village. Visitors to the historical village can now easily and safely access a number of buildings and exhibits with wheel chair ramps, landings and handrails recently installed. The Port Curtis Historical Society received a \$46,585 donation from the QGC Communities Fund to carry out the work.

OVER \$197 MILLION SPENT IN QGC'S OPERATIONAL AREAS

In 2016 over \$197 million was spent by QGC and our primary contractors in the Surat Basin and over \$15 million in the Gladstone region.

QGC have Indigenous Land Use Agreements which include commitments to jobs and procurement opportunities. We actively pursue opportunities to directly engage Indigenous owned suppliers across an array of business areas. Over \$8 million was spent with Indigenous businesses in 2016 by QGC.

In 2017, QGC's Contracts and Procurement team will continue to identify suitable and sustainable work packages that can be communicated through local Chambers of Commerce and Traditional Owner groups. QGC also works closely with our primary contractors to ensure our local communities are considered in recruitment drives and sub-contracting activities further down our supply chain.

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.

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

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.

Landholders planning to do any digging around buried pipelines should call 'Dial Before You Dig' (call 1 100, <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 fires.

Visit our information centres at:

Chinchilla

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

Gladstone

72 Goondoon Street,
Gladstone, QLD 4680

Wandoan

27 Royd Street,
Wandoan, QLD 4419