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New equipment arrives at Phonesack Nampan Project



Eight 1000tph QS70 Knelson Concentrators have now been delivered

Phonesack Group own three projects within Laos, the largest of which is the massive 3,500tph Nampan Project.

Consep recently delivered a package of equipment for the final mill line at the Nampan Project. The latest package includes two more CS10000 Consep Acacia packages, each complete with electrowinning, detoxification and solution recycling modules. This brings the total to ten Consep Acacias (8 x CS10000's and 2 x CS4000's) to be used by Phonesack Group at its three projects, with a total concentrate capacity of 132tpd.

The final milling line at Nampan also includes eight QS70 Knelson Concentrators and eight QS48 Knelson Concentrators. This brings the total number of Knelson Concentrators installed across Phonesack Group's three projects to forty five, with a total installed Knelson capacity of 22,800tph!

All three Phonesack projects use Consep's sampling equipment extensively, and for the final Nampan mill line we delivered a total of six separate sampling stations. In total across the three projects there are now twenty seven separate sampling stations. All sampling stations were designed to meet the strictest of sampling design codes.

Consep maintains a strong presence on site to support the project, and we look forward to a long partnership with Phonesack Group.



Guyana Goldfields Aurora Project Success



Consep's latest Belt Drive Slurry Samplers for the high tonnage duties in the plant



Sampling stations for Burkina Faso

Consep's new website goes live

Consep's online presence has undergone a significant upgrade in recent times to provide our customers with a more advanced, user friendly and updated website that showcases our products, capabilities and history.

Consep's engineers have been working closely with web developers to create the new web site, which represents the most significant upgrade in the past decade.

The site provides our customers with a new perspective on the strength of

Consep, for which 2016 marks 26 years of designing and manufacturing specialised equipment for the gold & mineral, construction and water industries around the world.

We are proud of this long awaited update and look forward to your feedback.

Please do not hesitate to visit the new website at www.consep.com.au



Consep Acacias for Western Africa



The installation list of Consep Acacias installed in Africa has continued to grow, with over 25 units installed across the continent, including many into Africa's biggest gold mining companies.

The past few months have seen a number of new installations come on line in West Africa, including the Roxgold Yaramoko Project in Burkina Faso, the Aureus New Liberty Project in Liberia and the MNG Gold Kokoya Project in Liberia.

All of these projects are successfully commissioned and producing gold.

The Roxgold Yaramoko Project has been achieving greater than nameplate throughputs and recoveries since commissioning, with the project utilizing a complete gravity package from Consep including dual Consep gravity feed screen, dual Knelson Concentrators, a Consep Acacia and Electrowinning module.

Advancing Safety on Sydney's Skyline

Consep commissioned its CH200 series Consep Hoist on Lend Lease's ICC Hotel project located in Darling Harbour Sydney in March this year. ICC hotel or International Convention Centre hotel will be Sydney's largest 5 star CBD hotel. It will be 35 stores and consist of approximately 600 luxury hotel rooms.

ICC is a Lend Lease operated site with Dalma being its formworker. It is well known onsite that through the use of the Consep Hoist, Dalma are continuously achieving 4 day pour cycles.

Through Consep's continual technological developments and long standing relationship with Lend Lease we can now boast that the Consep Hoist exceeds all of the requirements of Lend Lease's new GMRs. Lend Lease's GMRs or Global minimum requirements is a set of standards that is used across all Lend Lease sites around the world. These set of standards are far and beyond any Australian and European standards.

The most recent safety development on the Consep Hoist, which was utilised on the ICC project is the "Consep Hoist Capture Net". The construction industry has had a huge focus on minimising falling objects from buildings. Consep thus proactively engineered the "Consep Hoist Catch Net". The catch net acts as a secondary safety measure for capturing falling objects within the hoist's work zone.

It is a steel framed basket bolted to the underside of the hoist rails. We have utilised a proven twin net system which is the combination of a fine and course weave nets that increases our capture effectiveness.

The catch net is able to interface with the building seamlessly. Careful design avoids having a horizontal opening between the net and the building, maximising safety.

Other safety developments that have occurred recently on the Consep hoist is the ability to offer true floor to ceiling edge protection. Through a unique system Consep's edge protection is able to interface with Dalma's formwork allowing stripping and forming of edge boards and formwork to be down without any issues.

Consep will always strive to provide the construction market with an industry leading materials hoist that offers exemplary safety standards and innovative design. No challenge is too great!



Cronulla Clarifier Upgrade Project

In December 2015 Consep was awarded an order for Stainless Steel sludge removal systems to upgrade the four existing clarifiers at Sydney Water's Cronulla Waste Water Treatment Plant (WWTP), one of our earliest customers.

The order was a culmination of a number of years collaborating with Sydney Water site personnel, various engineering consultants and EPCM contractors to conduct a thorough review of Cronulla's existing clarifier equipment and associated operation and maintenance procedures.

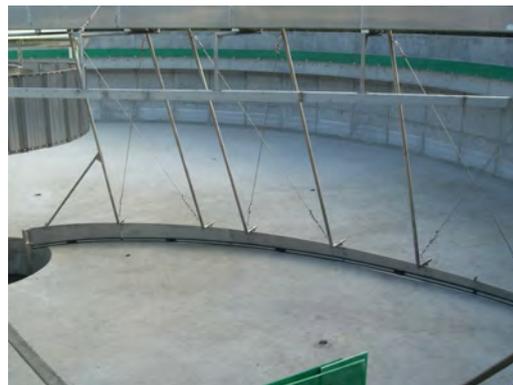
The new sludge removal system will address the requirements of Cronulla WWTP and improve the transport of settled solids and increase clarifier availability through a reduction in both planned maintenance activities and downtime.

The equipment was delivered on time and on budget to the exacting high quality standards of Sydney Water. Consep personnel will also be involved throughout the installation and commissioning stages of the project, working with the EPCM contractor in a timely and safe manner.

The project allowed the successful implementation of Consep's capabilities in project delivery & management, design & drafting, quality manufacturing and field services.

Consep has built a reputation for supplying quality water and wastewater treatment processing solutions for water service organisations across Australia and New Zealand. The strength of Consep and WesTech lies in the supply of innovative and robust equipment for these industries, and this project was further testament to this ability.

We would welcome the opportunity to be involved with any plant upgrade or optimisation projects you may be considering so please contact us today to discuss your requirements.



Guyana Goldfields Aurora Project Success

Guyana Goldfields Inc. has established itself as the premier gold producer in Guyana, South America. Following the commissioning of their flagship asset in August 2015, the Aurora gold mine has a proven execution and a significant potential for the years to come. Consep supplied a wide range of technology for the project's gravity recovery circuit and gold room.

The consolidation of the project is a remarkable milestone for the Canadian company that has been operating in Guyana continuously since 1996. Located in the remote Cuyuni-Mazaruni region of Guyana, 175km from Guyana's capital, Georgetown, developing a robust and reliable infrastructure was critical. During the construction phase approximately 1,000 employees were working on site, of which 70% were Guyanese nationals and the remaining 30% comprising 20 other nationalities. The operational phase of the mine saw the labour force being reduced to approximately 400 persons, most of which are Guyanese nationals.

The project was EPC delivered by GSJV, a joint venture that combined the processing and operational experience of Sedgman with the vast construction track record of Graña y Montero. Aurora was completed on -budget and achieved full commercial production in January 2016.

This is the second gold project for Sedgman, following the successful delivery of the Mungari Gold Project in Western Australia in early 2014. Consep worked in both projects with Sedgman and was exceptionally pleased to assist remotely and on-site during the project feasibility stages, engineering, commissioning and ramp-up of the plants.

The mine plan for the Aurora Gold Mine is designed to produce 2.86 million ounces of gold, averaging 188,000 ounces per year, over an initial 16 year mine life. Guyana Goldfields Inc. is currently working in the mill expansion to increase throughput rate from 5,000 to 8,000 tpd.

Consep supplied a wide range of technology for the Aurora Project. The gravity circuit includes Screen, Knelson Concentrator and Consep Acacia Dissolution and Electrowinning Module. The gold room was supplied with Electrowinning Cells and Rectifiers for recovery of pregnant solution produced for both the gravity circuit and the elution circuit. The gravity gold is around 30% of the total gold produced, with an Acacia Electrowinning Recovery of 99%.

Consep is looking forward to work with Sedgman in new endeavors, and continue supporting Guyana Goldfields Inc. for the life of the Aurora mine and future developments.

The Guiana Shield is a known gold region that covers the countries of Venezuela, Guyana, Suriname and French Guiana. Consep will consolidate our presence in the area with the upcoming commissioning of Newmont's Merian project in Suriname.



Doray Andy Well Gravity Optimisation

The Doray Andy Well Projects achieves very high gravity recovery via a gravity circuit supplied by Consep in 2013. Continued optimisation of the mill circuit allowed the site to increase mill feed tonnage, which then required a review of the gravity circuit and its performance. Collaborating with the site processing team, gravity recovery was able to be maximised.

Doray Minerals became Australia's newest gold producer in 2013 with the completion of Andy Well gold project. Operating at the lowest cost with highest gold grade, Doray Minerals took the lead in the highest margin gold producer on the ASX. The Andy Well gold mine is located in the northern Murchison region of Western Australia. Andy Well's processing plant consists of gravity and CIP.

Due to the higher mill throughput, Consep attended site to modify the PLC programming to allow both Knelsons to operate in parallel.

The Consep gravity feed screen vibrating screen was modified to increase throughput, with new panels installed. Half the screen was upgraded in March and the remainder in April.

The gravity circuit includes a Consep Gravity Feed Screen, two (2) Knelson Concentrators, a Consep Acacia and an Electrowinning module with Consep cell. The two Knelson Concentrators operated in an alternating duty-standby mode – where one waits for the other to finish concentrating before starting. This custom PLC programming was deliberate to allow continuous operation of the Knelson Concentrator, and stability of the grinding circuit water balance.

Gravity recovery increased from 71% pre the changes, to 75% in March and continued to increase close to 80% in April. Consep's equipment displayed their inbuilt flexibility to allow the increase in gold recovery with no major changes required. Despite the doubling of mill feed tonnage, and increase in gold grade, Consep was able to support the site in finding low cost, high return improvements.

However, by 2016 Doray Andy Well had more than doubled their mill feed throughput, with ore that was at times triple the grade of the projects initial ore, and hence changes were needed within the gravity circuit.

Despite increases in throughput, grade and increase in gravity recovery, the Consep Acacia continued to achieve maximised recovery, effectively with no changes required. The unique design of the Consep Acacia system allows significant increases in gold throughput without issue.



Consep has recently undertaken gravity test work and circuit modelling to establish methods for further improvements in gravity recovery.

Consep's qualified and experienced gravity recovery experts will continue to work closely with Doray Minerals and Andy Well to assist with optimising the gravity circuit and its performance.

Sampling stations for Burkina Faso

A recent trend in the supply of sampling equipment has resulted in Consep supplying packaged solid sampling plants for several gold projects across the world. Our long terms experience in sampling, together with our extensive product range, allows our customers to have confidence in the systems that we supply.



In May of this year, Consep commissioned our first Sample Station installation in Burkina Faso in West Africa. Consep provided commissioning assistance to Norgold's Bouly Heap Leach Project, which is located near Norgold's Bissa Gold Mine. The Bouly Heap Leach Project is designed to deliver 7 Mtpa of gold via the use of crushing, agglomeration via cement and water addition, and conventional heap leaching with cyanide.

Consep worked directly with Lycopodium, the EPCM services provider, for commissioning of the pre-agglomeration Sample Station which comprises a Cross-Belt 1200ARM Sampler, Gyrotory Cone Crusher, Belt Feeder, 4810 Rotary Vezin Sampler, RSC4 Rotary Sample Collector a Rejects Conveyor, along with a Form 2 MCC and PLC Control Panel for the system.

Consep also provided and commissioned an additional Cross-Belt 1200ARM Sampler for post-agglomeration sampling located further downstream, designed to take samples on demand, with the option of timed sampling.

Once commissioned and whilst on-site, Consep provided training and support to sampling personnel who travel between the Bissa and Bouly Mines collecting sample. The automated nature of the Sampling Station as well as the collection capacity of the Rotary Sample Collector allows personnel to visit the Sampling Station located at the Bouly Mine Site at the end of every shift (every 12 hours). Training was conducted over the course of two days and covered startup and shutdown of the Sampling Station as well as fault handling and sample removal procedures.



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