Attachment 15

Hanson’s Drivers Code
- All drivers must NOT use exhaust brakes on Harts Road and Stanmore Road
- All drivers are to ensure their load is legal, secure and side bars, draw bar and tailgate are clear of material.
- No truck will be permitted to leave the site if it is over the legal GVM for that vehicle.
- All trucks MUST use the wheel washer when exiting the quarry.
- All litter must be placed in the bins provided on site, including cigarette butts.
- All drivers are required to drive in a safe and courteous manner. Have respect for other road users. No Tailgating and conform to all public road speed limits.
- It must be remembered that your driving behaviour is the Company image that the general public see and if tarnished can severely impact on our ability to gain planning approval for new operations.
- No unnecessary use of radio systems to allow good communication on site.
- All vehicles entering the site must be fully roadworthy and maintained. Hanson may inspect any vehicle, or request maintenance records for any vehicle. Hanson reserves the right to prohibit any vehicle from the site if we believe it may not be roadworthy or safe to operate.
- No maintenance or repairs to be performed on trucks within the quarry without the Quarry Manager’s approval.
- Hanson has a Drug and Alcohol Policy which includes random testing.
- Any accidents, incidents, complaints, hazards, spillages or near misses must be reported to the Quarry Manager immediately. This includes on the haul routes outside of the site (public roads).
- All Trucks must STOP at the corner of Harts Rd and Stanmore Rd after exiting the quarry, & obey traffic rules at all times.
- The quarry operating hours for sales are 6.30am to 5.30pm Monday to Friday, and 8.00am to 12.00am Saturday.
Wolffdene Quarry Driver’s Code

Hanson Construction Materials Pty Ltd operates a hard rock quarry at Harts Road, Wolffdene. The quarry is located close to residential areas and supplies a range of quarry products to the Brisbane and Gold Coast areas.

The transport routes to the Pacific Highway and Beenleigh require travel on Harts Road and Stanmore Road, passing close residential neighbours. Courteous driving, and limiting the use of exhaust brakes will assist in maintaining a good relationship with the local community.

All heavy vehicle drivers are required to be responsible and professional, and drive in accordance with this Driver’s Code.

Hanson will enforce this code and follow up on any complaints. Breaches or blatant disregard to the code may lead to prohibition from entry to the quarry site.

Hanson Driver’s Code is required to be understood and completed by all drivers. The signed confirmation will be held at the quarry.

Contact Details:
Quarry Manager 07-5549 7077

Wolffdene Requirements:

- All drivers must obey all signs, directions and instructions, & give way to all quarry vehicles.
- No soil, dirt or other materials are permitted to be brought onto the site without the Manager’s prior approval. All trucks must be free of any build-up of soil or dirt before entering the site.
- Upon entry to the site, stop at the weigh bridge or communicate with the loader driver on UHF channel 16 before entering the stockpile area or UHF channel 18 on dump truck haul roads and obeying site road rules at all times.
- Maximum speed limits:
  - Harts Road 60km/hr
  - Quarry Site 30km/hr
- Steel capped boots and high visibility vest/clothing must be worn at all times inside the quarry boundaries. Hard hats must be worn if exiting the truck cab passed the tarping station.
- You must remain in the cab while loading, unless instructed by the loader driver.
- All quarry mobile equipment (FEL’s, dump trucks, water truck etc) have right of way at all times.
- **No children are permitted on site**, this includes in truck cabs. Trucks carrying children will be turned around and not loaded.
- All loads are to be tarped prior to leaving the quarry. The only exception is single sized rock larger than 75mm. The tarp must cover the whole body, without air gaps. Tarping must be done in the designated bay after the weighbridge.

Hanson Construction Materials Pty Ltd

Wolffdene Quarry Driver’s Code

Confirmation of Understanding of the Code

I, __________________________ (print)
________________________
of (company) have read/had the Driver’s Code explained to me and understand the requirements of the code. I confirm I will comply with the requirements of the Driver’s Code.

Signed: __________________________

Date: __________________________

Endorsed By: __________________________

(Hanson Representative)
Community engagement report for Wolffdene Quarry

Executive summary

Our community relations commitment

Wolffdene Quarry has operated under Hanson’s management since 1983 and ensuring good community relations with its neighbours, surrounding residents and the wider community has been an ongoing focus for the company and the quarry.

Over time the quarry has consistently worked to establish and consolidate strong relationships with residents’ groups, local schools and a range of community organisations, providing tours of the quarry and information about its programs and operations. The quarry has also donated rocks and materials to several community projects, provided funding to local schools and community initiatives, welcomed primary school students and university classes on site for practical studies of flora, fauna and geology, and volunteered manpower and time to assist local residents with environmental works and drivers for road awareness presentations at local high schools.

In addition to positive community relationships, in recent years Wolffdene Quarry has won a number of awards for its environmental rehabilitation and management achievements and awards at local, state, national and international levels for its creation of a young driver safety program involving local youth and road awareness groups.

Hanson has created a Fact Sheet about Wolffdene Quarry for general information and distribution in the community which includes details of the local community initiatives it drives and supports, invites members of the public to take a tour of the quarry and invites community feedback. This Fact Sheet is readily provided to community organisations for display and sharing with members, to Council, schools and other organisations, and has been locally letterbox dropped and handed out at local events. The Fact Sheet’s format is now being utilised by other quarries nationally as a template and best practice tool for sharing general information about each quarry and its community relations activities.

Hanson recognised the importance of its community relations several years ago by contracting a dedicated communications officer to field, address and monitor community concerns, complaints and positive feedback. This officer regularly meets with residents individually and in groups, attends to Council officer requests and meetings, coordinates representation from the quarry at community events and local group meetings and provides on-site tours of the quarry and its operations. Community engagement and consultation continues to be a major commitment by Hanson and is undertaken year round in keeping with a strategic communications plan.
Community engagement activity from 2012 to date

From February 2012 Hanson’s Wolffdene Quarry has undertaken a comprehensive community engagement and consultation program over several stages to engage, inform and ultimately educate residents of the area and other stakeholders about the long running local quarry.

The community engagement program was developed based on the findings of a preliminary research project to ascertain the existing knowledge and attitudes of stakeholders about the quarry and its operations. The research project included one-on-one surveys by door knocking local residents’ homes and initiating meetings with key stakeholders in the Yatala, Beenleigh and Ormeau catchment areas.

The preliminary research instrument asked residents a series of questions, inviting their opinions and comments about what they thought of the Wolffdene Quarry to determine the depth of their knowledge of the quarry’s operations and where the products went, and to identify any key issues or concerns about the quarry.

Residents and business owners were asked, for example, if they were aware of the economic, environmental and community benefits that the quarry’s local operation returns to the community. These include its injection of up to $13 million into the local economy, ongoing employment for at least 40 local residents and approximately 60 consulting companies, sustainable environmental management, and its sponsorship of educational and cultural programs in local schools and for community groups.

A copy of the survey instrument is provided as an attachment.

Major findings of the research were that many residents:

- Ranged from being not interested to ambivalent about the quarry;
- Accepted that it had been there for years, often before they moved into the area;
- Did not know what a quarry actually did or why we needed quarries;
- Had concerns about truck movements on Stanmore Road and the motorway from a road safety perspective but assumed that truck drivers followed necessary regulations;
- Were most concerned by local youth issues, job opportunities, environmental care, and safety on the surrounding roads, but did not necessarily make any connection between these issues and the quarry’s presence.

Following up the results of the research findings, a comprehensive program was then designed, coordinated and delivered by Campaign Group and Hanson staff in cooperation with key stakeholders that were identified as most likely to effectively reach a range of community audiences. The activities undertaken within this community engagement program are detailed as follows.

**Resident surveying**

Consultants and team members of Wolffdene Quarry door knocked residents' homes within a specific radius from the quarry site to gauge opinion and seek feedback to a series of questions as well as inviting general comment from participants. The area included
Enkleman Road, Kristy Court, Harts Road, Colwill Crescent, Sears Road and Rundell Court. A letter was prepared for letterboxing in case the resident was not at home at the time of the visit. In total, the surveying team spoke directly with 95 residents and left 350 letters and a contact business card in mail boxes. The letters left in mailboxes prompted contact from 22 residents wishing to provide feedback and discuss their views with quarry staff. See attachments 1 and 2.

**Database**

During the research surveying process all participants were invited to provide their details for a community database for future updates by telephone or email and in response 16 residents and 15 key stakeholders asked to be kept up to date. The majority of residents surveyed responded that they did not see the need to join a database and indicated that they were satisfied with how the quarry was currently operating and communicating generally with the local community. See attachment 3.

Updating of this database continues on an ongoing basis to include residents from the wider community interested in the quarry’s operations, regional community groups, young people considering traineeships with Hanson and general public enquiries from people interested in quarry tours or Wolffdene’s excellent track record for award winning community and environmental programs.

**Website and online marketing**

A focus of the community engagement program was to increase the online presence of Wolffdene Quarry and encourage residents to refer to it regularly for information. Search engine optimisation was undertaken to ensure that when keywords or search terms such as Wolffdene Quarry, Quarry and Harts Road, and Hanson and Wolffdene are used, that visitors are directed easily to online information and a number of positive stories to highlight the benefits of the quarry. The online marketing campaign also highlights job creation and opportunities, safe driving, youth support and sustainability messages, which were all major interests of surveyed residents and stakeholders.

The Google search ranking of Wolffdene Quarry currently shows the top searches linking to positive news stories. Wolffdene Quarry also created a community website, which is integrated with the existing corporate website at www.hanson.com.au. The objective of the community website is to inform, raise awareness of, and showcase the many community outreach efforts of the quarry and the company. See attachment 4.

**Stakeholders**

Wolffdene Quarry has operated at its current location since 1983 and has over the years created a range of relationships with community stakeholders, so a stakeholder matrix was developed to map the company’s network and the range of communication it conducts. The processes of surveying local residents, contact with community newspapers and reviewing community websites and portals enabled a thorough stakeholder matrix to be prepared. The matrix was continually updated throughout the community engagement project and continues to be updated as a reference tool for all communication activities.
Stakeholders include community groups, business associations, local businesses, schools, residents, political representatives of all levels, media and industry bodies. Communication with each stakeholder is tailored to their preference for methods and regularity, and the matrix lists specific concerns and objectives raised by stakeholders for continued contact. Communication activities include one-on-one meetings, telephone, email and correspondence to provide collateral, as well as site tours, familiarisations and presentations for community groups, as appropriate. See attachment 5.

**Relationship building**

As part of stakeholder identification and contact, meetings were initiated with several community and industry groups, including the Beenleigh-Yatala Chamber of Commerce,Beenleigh PCYC, Yatala Enterprise Area Association and Ormeau Lions Club.

Following these meetings Wolffdene Quarry became an active member of the Beenleigh-Yatala Chamber of Commerce and Yatala Enterprise Area Association and is providing in-kind sponsorship to these and other smaller groups to further their community work.

Wolffdene Quarry is in discussion with Beenleigh PCYC about developing a potential schoolies and youth safety program and the quarry has also committed to supporting the Neighbourhood Watch association in the area. The quarry is now regularly invited to a range of community meetings and events as a proactive representative of the local business community.

Wolffdene Quarry played a major role in providing support, sponsorship and an information stand at the 2013 Ormeau Lions Fair in August, mounting a display of machinery and quarry safety and handing out information about the local quarry’s operations, commitment to the community, driver safety standards and free, family-friendly merchandise. Staff registered more than 100 names of people interested in taking a tour of the quarry, as well as interest in traineeships and employment on site, and of more than 2000 visitors during the weekend the display stand fielded no complaints or concerns about the quarry at all. One written, positive comment from a local resident reflected the general feedback that the team received over the two days: “Hanson is really important to our community, creating local jobs and giving back – I wish more local companies were as caring as your guys are.”

**Schools outreach**

A significant outcome of research found that youth issues, young adults driving safely on local roads, and job opportunities for young people are major concerns for local residents and stakeholders. These concerns were also supported by media research, which indicated a high number of youth fatalities on local roads in the area.

Based on this information and discussion with stakeholders, a focus of the community engagement program was to develop a project for working with local high schools in a long term way to address young driver safety and awareness of sharing the road with local traffic, including heavy vehicles. Assisting in job training and awareness amongst senior students was a secondary aim.
As a result of the community engagement program relationships have been successfully developed with Rivermount College and Ormeau Woods State High School to achieve several outcomes, including Wolffdene Quarry’s ongoing commitment to:

- Inclusion on a mock job interview panel for year 11 and 12 students to provide real world feedback for students and support their preparation for future employment opportunities.
- Truck driving presentations by Hanson employees, in a voluntary capacity, to educate and raise awareness about cars and trucks safely coexisting on local roads.
- Donations of materials for school projects; see attachment 6.
- Involvement of year 8 students in the quarry’s environmental management and rehabilitation program as a case study for their term four sustainability studies.
- School tours of the quarry site to identify native flora and fauna for Year 11 and 12 biology students.
- Ongoing presentations about Wolffdene Quarry’s operations for school visits; see attachment 7.
- Sponsorship of the placement of up to 75 Rivermount College year 11 and 12 students in road safety training for learner drivers; see attachment 8.

Please also see attachment 9 for a copy of the school presentation and attachment 9a for a photo of the young driver safety workshop.

**Presentations**

As part of the education component of the community engagement program, Wolffdene Quarry and Hanson were invited to present at breakfast meetings of Beenleigh-Yatala Chamber of Commerce and other groups including local Lions and Rotary groups.

The Chamber of Commerce breakfast in April 2012 was attended by 110 leading business people within the area, divisional councillors, Mayoral candidates for both Logan and Gold Coast City Council and executive members of the Chamber.

The breakfast presentation encompassed the operations and values of the Wolffdene Quarry, Hanson’s corporate commitment to local communities; outlined generally what quarries do; how quarries operate and why they are located where they are; and what the larger industry as a group is doing to work with communities. The presentation was well received and led to a number of subsequent discussions and meetings with community members at their invitation. A copy of this presentation, which was delivered by General Manager Danny Cooper, is provided as attachment 10.

Further community presentations were invited and attended by quarry staff to Ormeau Lions Club, Beenleigh PCYC, Rivermount College, Gold FM management and the Urban Development Institute of Australia (UDIA).

As noted, Wolffdene Quarry has also committed to providing regular presentations to local schools’ senior students to educate and raise awareness about safely driving around trucks. In May and July 2012, three Hanson employees voluntarily took part in the presentation and provided an interactive workshop for students of two high schools to board a haulage truck and experience blind spots and the visibility out of the cab, firsthand. Student participation
and feedback was excellent and the school has asked Hanson to return to provide the presentation on a yearly basis.

Wolffdene Quarry’s innovative young driver safety program was commended by the schools involved, as well as parents and local residents, as an extremely welcome, positive effort to address road safety and young driver awareness. The resounding success of the program will see it subsequently rolled out nationally by all of Hanson’s offices.

At the urging of the schools, Hanson submitted the program for recognition in the Australian Road Safety Awards and at the end of 2012 the project won two categories of awards at both the State and then National level. The program was then nominated by consultants for an international award for community projects and in February 2013 it was awarded a Bronze level Stevie Award in the USA, judged by an international panel as an outstanding community collaboration initiative. This accolade was reported Australia wide and internationally and has resulted in a range of industry bodies and other companies contacting Wolffdene Quarry to create new benchmark driver safety projects throughout Queensland and in the Northern Territory.

Complaints system

Following the research surveying and community meetings phases, Wolffdene Quarry received four complaints or concerns from local residents. The concerns all centred on truck movements and the use of exhaust brakes along Stanmore Road, particularly around residential areas. All concerns were addressed individually and personally and these residents were also invited to join the community database for future contact.

Following the feedback, Hanson’s standard truck driver contract was amended to advise drivers to limit their use of exhaust brakes on Stanmore Road. Wolffdene Quarry also spoke with the traffic manager at Gold Coast City Council (via Cr. Gates’ office) about the installation of two caution signs on Stanmore Road. The signs were planned for Council’s installation in 2012 as a result. At least two local residents later contacted the quarry to follow up this activity and thanked Hanson staff for their responsiveness to local community issues.

Councillors and Council officers

At the outset of the community engagement program Wolffdene Quarry personally met with Gold Coast City Council divisional Councillor and Deputy Mayor Donna Gates. Cr. Gates was informed of the quarry’s plans and community engagement program content and timing. Consultants asked that any complaints or issues received at her office regarding the quarry be directed to designated contacts for prompt response. Cr. Gates has continued to work with the program, forwarding a number of stakeholders to Wolffdene Quarry.

Wolffdene Quarry also engaged with Council officers within different departments of Gold Coast City Council. In March 2012 a tour and presentation was coordinated for officers within the divisions of economic investment, job creation, traffic, and sport and recreation. Feedback indicated that Council officers appreciated the opportunity to visit the quarry site and build relationships for information sharing.
The Council officer for economic growth and job opportunities invited Wolffdene Quarry to participate in a video they were producing to encourage senior students to enter the STEM industries (Science, Technology, Engineering and Mechanics). The Council invited five participants from these industries to participate in the video, which will be shown to all students within local schools via Gold Coast City Council. Wolffdene Quarry was the only representative of Queensland’s extractive industry to be invited to be involved. In conjunction with this department, Wolffdene Quarry also coordinated a public relations based launch on site in July. To view a copy of the video follow this link:

Wolffdene Quarry is continuing to work with the traffic department of Gold Coast City Council regarding the installation of signs cautioning truck drivers to limit the use of exhaust brakes on Stanmore Road. See attachment 11 for the placement of the signs.

The community relations officer continues to respond to enquiries and proactively liaise with Council officers about the quarry’s community engagement, resident queries and local issues.

**Public relations**

The research project indicated that not many residents and stakeholders were knowledgeable about Wolffdene Quarry and the levels of community support that the company provides in terms of environmental management, job opportunities and recurring economic returns. A public relations plan was created to schedule positive publicity to share the many good news stories of the quarry, its staff, programs and community outreach.

The schedule included a range of news and feature stories and angles for raising awareness of the quarry and its activities within the community.

Resulting news stories to date include:

- Hanson’s innovative school leaver traineeship program in the Gold Coast Sun, APN Worksearch feature (published in seven regional papers in Queensland and northern NSW) in June and the Quarry e-newsletter on 11 June 2012; see attachment 12.
- An environmental care leadership story about the award Wolffdene Quarry received in November 2011 for the rehabilitation of bench tops, appearing in the Quarry e-newsletter on June 4 and Beenleigh-Yatala Chamber of Commerce newsletter, which is shared with their member base. See attachment 13 and http://www.quarrymagazine.com/Article.aspx?id=2505&h=Hanson-program-an-environmental-winner
- Hanson’s successful graduate employment program, featuring staff member Courtney Evans, was published by the University of Queensland’s alumni magazine; see attachments 14 and 14a.
- A story about the road safety presentation at Rivermount College appeared in the Rivermount College newsletter, Beenleigh-Yatala Chamber of Commerce newsletter, Hanson website and Albert and Logan News. The story was also published in the Quarry e-newsletter in June 2012; see attachment 15.
- A story about the donation of materials to the Rivermount College appeared in the school newsletter; see attachment 15a.
Positive media coverage was also recorded by several radio stations across the Gold Coast in May of the 2013 visit and presentation of the young driver safety program at Rivermount College.

The awards presented to Hanson for the Wolffdene Quarry young driver road safety program have resulted in media coverage in all Gold Coast media, Gold Coast City Council’s newsletter, school newsletters, and online media at State, national and international levels, as well as extensively in social media.

Positive public relations opportunities prepared and managed to date include:

- Joint media event with Cr. Gates, traffic department and Wolffdene Quarry at the installation of the exhaust brakes sign on Stanmore Road;
- The launch of the STEM video at Wolffdene Quarry;
- Media attendance at the Ormeau Woods State High School truck presentation;
- Photographs of the young driver road safety program appearing widely in local and state-wide media;
- National media coverage of the Australian Road Safety Awards dinner, where the quarry won two award categories;
- International media coverage and extensive online coverage of the international Bronze Stevie Award awarded for the collaboration between the quarry and local schools to address local road safety;
- The young driver safety program’s use as a case study securing international award recognition for innovative community outreach;
- Extensive attendance by Wolffdene Quarry staff at community events and public information displays throughout the local area;
- Continued liaison to promote regional advancement and community initiatives with Gold Coast City Council’s economic development staff; and
- Rivermount College involving Wolffdene Quarry in its sustainability studies in an ongoing way.

Public consultation period

Specific community engagement activity will be undertaken during the public notification and consultation period for the development application for the quarry’s extension.

The objectives are twofold:

1. To be responsive to any enquiries from local residents, Council and the wider community;
2. To provide general information updates to stakeholders already included in Wolffdene’s database as they have expressed interest in direct communication.

All documents and information formally submitted to Council for the development application are generally available to the public and so such materials will be provided upon request, uploaded to the company website and proactively provided to community representatives.
Specific actions to be undertaken are:

1. Continuing to update the database as community members seek information about the quarry;
2. Fielding and promptly returning all calls from the community, including general public enquiries about the advertisement notice of the development application;
3. Providing a Development Application Fact Sheet that outlines the development application for Wolffdene Quarry to all enquiries. See attachment 16;
4. Hand delivering the DA Fact Sheet to residents within a 2 kilometre radius of the quarry and to residents noted within the database as interested in direct communication to inform them of the development application;
5. Directing all enquiries to the dedicated website landing page for information or to contact the community engagement officer for Wolffdene Quarry;
6. Continuing to share positive news of the quarry’s outreach activities with the community, e.g. ongoing programs and projects with local schools and community groups;
7. Emailing the DA Fact Sheet and a link to the website to specific stakeholders including the divisional Councillor, local political representatives, school Principals and teachers that are currently involved in quarry projects and community ambassadors with whom the quarry has developed programs to date, e.g. Beenleigh-Yatala Chamber of Commerce and Ormeau Lions Club; and
8. Offering community members and small community groups an opportunity to tour the quarry, ask questions and be provided the DA Fact Sheet.

On the closure of the public notification period this community engagement report will be updated to include a record of community concerns and support and company responses to those, to inform the ongoing strategic community relations plan for Wolffdene Quarry.
Script for meetings with residents

Hi my name is ________ and I’m from Hanson’s Wolffdene Quarry. I am the community engagement officer.

We were wondering if we could take a moment of your time to have a chat about our project, introduce ourselves and also ask you a few questions for our internal survey and research about our operations and involvement in the community.

I promise it won’t take too long.

If asked about why, we have been working out of the local site since 1983 and we want are undertaking internal research about our public perception, areas we could improve on and areas that we excel at.

We are also looking at launching some key community projects within the local community this year and we want to obtain valuable information from the people who know the area best – our neighbours, you.

If no, thank you for your time and I’ll leave a card should you ever have any questions about the quarry or would like to talk at a more convenient time.

If yes, proceed. I have a series of questions I would like to ask, if you don’t feel comfortable answering any of them just say pass and we’ll move on. Should you want this information to be anonymous that is also fine. Just let me know.

Questions to ask –

• How long have you lived in the region?
• What is your impression of Wolffdene Quarry?
• Do you know much about Hanson, who operate and manage the quarry?
• What are your impressions about quarries in general?
• From your experience what are some key areas that we excel in?
• From your experience what are some key areas that we could work on?
• Which area holds the highest importance for you –
  o Job creation and retention
  o Youth employment
  o Sporting projects and funding
  o Cultural projects and funding
  o Safe driving and youth programs
• Would you be interested in being kept up to date about our project and proceedings? If yes, what are the best contact details for you? (If pushed about what they will be contacted about – new community projects/programs, awards, news and updates on operations, job vacancies etc)
• Would you be interested in visiting the site and taking part in a tour of our operations? If yes, take details and best time for tour.
• Any questions you would like to ask me?

Thanks again for your time. Here is my card and should you ever have a question feel free to give me a call or drop me an email.
Dear valued neighbour,

I would like to take this opportunity to introduce myself. I am the new community engagement officer for Wolffdene Quarry at Luscombe.

As you might know, Wolffdene Quarry has been operating off Harts Road, since 1983.

Through providing local employment opportunities and assisting many community groups, we have always had a vested interest in working with the local community and surrounding businesses.

It’s with this in mind, I stopped by your house today to introduce myself, have a chat about my new role and to provide my details should you wish to have a chat or tour our facility.

Please give me a call on 0421 664 969 or email me on sarah.morgan@hanson.com.au if you have time for a quick chat, either face-to-face or by phone.

Kind regards

Sarah Morgan
Community Engagement Officer – Wolffdene Quarry, Hanson
Rhonda Dore, 54, 4 Enkelman Road, 3807, rhonda@innerdevelopment.com.au, didn't want to be contacted.

Bruce Atkinson, 14-16 Enkelman Road, 3807, bruce@designstream.com.au, wanted to be updated.

Kristy Court, 4 Enkelman Road, 3807, had no issues or concerns about the quarry.

Sandra Gillanders, 103 Colwill Crescent, 0408 626 710, sandra@innerdevelopment.com.au, had no issues or concerns about the quarry.

Denis Forster, 68 Colwill Crescent, 5546 4515, djf4444@bigpond.net.au, had no issues or concerns about the quarry.

Karen Mowles, 30-32 Enkelman Road, 0408 880 800, fundraising.services1@gmail.com.au, had no issues or concerns about the quarry.

Ziggy Fromana, 47-49 Enkelman Road, 3 yrs, had no problem at all. Said the trucks are a way of life there. Had lived in Ormeau before for 12 years. Doesn't want to be contacted. not on database.

Dagmar Ganser, 6 Enkelman Road, 3287 3015, dagmar@truemedicine.com.au, has no problem with quarry or trucks.

Patricia Wilson, 90 Colwill Crescent, 5546 4405, patanddon@bigpond.com, was more worried about the quarry. Was keen to be kept informed. Said job opportunities for women in the community was a must. Wants to be kept up to date.

Bethany Williams, 64 Colwill Crescent, 0408 626 710, had no issues or concerns about the quarry. Was爱护 about the quarry. Was keen to be kept informed. Said job opportunities for women in the community was a must. Wants to be kept up to date.

Karen Sheppard, 64 Colwill Crescent, 0408 626 710, had no issues or concerns about the quarry. Was爱护 about the quarry. Was keen to be kept informed. Said job opportunities for women in the community was a must. Wants to be kept up to date.

New to the area.

Said there was a problem with noise from trucks using air brakes in the early morning (sometimes at 2am-3am!), particularly at the roundabout.

Mentioned a couple of trucks had failed to negotiate the roundabout and ended up in people's backyards in recent years, and a motorcyclist had been killed in a collision with a truck at the roundabout a couple of years ago.

Said there was a problem with noise from trucks using air brakes in the early morning (sometimes at 2am-3am!), particularly at the roundabout.

More annoyed and worried about motorbike club. Wants to be kept up to date.

Wants to kept informed. Has no problem with quarry or trucks.

Knew the previous quarry manager and said if she had any issues she would take it up with the quarry manager/operator directly. Said there had been a problem with crime and break-ins lately. Didn't want to be updated.

Was more concerned about motorbikes at club. Was keen to be kept informed. Said job opportunities for women in the community was a must. Wants to be kept up to date.

Didn't know where it was.

Wasn't concerned about the quarry.

Also said he's son can't open his window as the noise from air brakes too much.

Said he was woken regularly at 4.30am by trucks using exhaust brakes.

Trucks and use of air brakes was a large concern.

I informed him that wasn't our area to discuss and best they call them directly. Didn't have anything to add. Wants to be kept up to date.

Was a member of Yatala Progress Association and wanted to know about Wagner's land and if it was true if Hanson bought Wagner's land and also what is happening to Tony Stephensen land.

Was glad to see the intersection off Paterson Road installed. Job creation as she said her nephew had been out of work for years. Wants to be kept up to date particularly if connected with jobs and road improvements.

Hasn't got a problem with the quarry.

Neutral about the quarry. Didn't know who managed and operated it (and didn't care).

Has no problem with the quarry or the view she has. Said she bought the property knowing it was there.

Also mentioned there was a problem with hooning in the area but had no concerns about the quarry. Supported programs for job creation and safe driving. Happy to be kept informed about relevant issues via email.

This couple were generally neutral. They said there were a lot of trucks and it would be good if there was a bigger road to accommodate them.
Web results after typing Wolffdene Quarry in search engine in Google

Search
About 42,200 results (0.32 seconds)

Search Options

• The web
• Pages from Australia

Search Results

1. **Hanson- Wolffdene Quarry- 25500 hours with LSM Technologies**
   www.lsmtechnologies.com.au/news_item.cfm?n=179&site_id...Cached - Similar
   11 Nov 2008 – strongHanson Wolffdene Quarriesstrong have utilised strongLSM Technologies Autogreasersstrong and strongTechnical Servicesstrong for ...

2. **Wolffdene Quarry - Hanson**
   you are here: Sustainability | Wolffdene Quarry ... Project review · Sustainability · Careers · News · Wolffdene quarry drive home safety message · Contact us ...

3. **Rivermount College and Wolffdene Quarry drive home safety message**
   www.hanson.com.au/.../Wolffdenequarrydrivehomesafetymessage.as...Cached
   Thursday, May 31, 2012. 3801 characters. THREE Hanson employees from Wolffdene Quarry recently presented a special workshop at the local Rivermount ...

4. **Precast > News > Hanson Wolffdene quarries proves green can be ...**
   www.hanson.com.au/.../HansonWolffdenequarriesprovesgreencanbe...Cached
   Friday, May 25, 2012. 3156 characters. A LEADING Queensland quarry operator has demonstrated that extractive industries and local ecosystems can ...

5. **Premixed concrete | Aggregates | Precast > Sustainabilty - Hanson**
   you are here: Sustainability | Wolffdene Quarry| About Us ... Sustainability · Careers · News · Wolffdene quarry drive home safety message · Contact us ...

6. [PDF]
   **April 20, 201 - Beenleigh Yatala Chamber of Commerce**
   www.beenleighregion.com.au/.../Hanson%20breakfast%20presentati...
   File Format: PDF/Adobe Acrobat - Quick View
   Background information on Wolffdene Quarry – April 20, 2012. • Extractive material usage in Queensland equals almost 10 tonnes per person per year.

7. **Hanson Wolffdene Quarry - HARTS RD, Wolffdene, QLD, 4207**
   www.findnetone.com/.../hanson-wolffdene-quarry-harts-rd-wolffden...Cached
   Increase font size; Default font size; Decrease font size. Home · Australia - Business · Business Hanson Wolffdene Quarry - HARTS RD, Wolffdene, QLD, 4207 ...
8. Komatsu WA700 loading CAT 777 at Wolffdene Quarry. - YouTube

Komatsu WA700 loading CAT 777 at Wolffdene Quarry.

9. More videos for Wolffdene Quarry »

10. CMIC10 an outstanding success - Quarry Magazine: Quarry Mining ...

The following day, Wednesday, 27 October, 65 delegates visited Hanson's Wolffdene quarry and 15 went to Wyaralong dam. The Wolffdene quarry produces up ...
<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Role/relationship</th>
<th>Name</th>
<th>Issues/Background</th>
<th>Strategy/actions</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local residents</td>
<td>Neighbour</td>
<td>Yatala Small Engine Repairs</td>
<td></td>
<td>Meet and introduce new community officer</td>
<td>Called and had a chat to Steve (the owner) said he had no problem with the quarry. Had been there for 18 months and said he was fine and was about to come up and get some rock from us. Thanked me for the call.</td>
</tr>
<tr>
<td>Hart Road residents</td>
<td>Neighbour</td>
<td>Jamie Davidson</td>
<td></td>
<td>Meet and introduce new community officer</td>
<td></td>
</tr>
<tr>
<td>Neighbour</td>
<td>Kramer</td>
<td></td>
<td></td>
<td>Meet and introduce new community officer</td>
<td>Door knocked and left letter. Hasn’t called back</td>
</tr>
<tr>
<td>Neighbour</td>
<td>Maureen Smith</td>
<td></td>
<td>Has complained about noise, dust – trucks on Harts Road. Has had bund wall created. Reverse beepers of vehicles at night. Pushed for sign of no exhaust brakes on harts road.</td>
<td>Meet and introduce new community officer</td>
<td>Door knocked and left letter. Hasn’t called back</td>
</tr>
<tr>
<td>Neighbour – Enkelman Road</td>
<td>Russell Mowles</td>
<td>Connected to Lions Ormeau also music stage coordinator</td>
<td></td>
<td>Is supportive of the quarry and also connected us to Norm Jessen at Lions Ormeau</td>
<td>Spoke to Russell’s wife and spoke to Russell by phone.</td>
</tr>
<tr>
<td>Residents of Yatala residents</td>
<td></td>
<td></td>
<td></td>
<td>Meet and introduce new community officer</td>
<td>Door knocked and left letter. Hasn’t called back</td>
</tr>
<tr>
<td>Stammore Road residents</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Venner Drive, Ormeau Colhill Crescent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neighbour</td>
<td>John Huff</td>
<td></td>
<td>Seems to be ok with the quarry</td>
<td>Meet and introduce new community officer</td>
<td>To be contacted</td>
</tr>
<tr>
<td>Adjourning landowner and businessmen</td>
<td>Tony Stevensen</td>
<td></td>
<td>Original owner of the site and local businessmen connected to industrial park.</td>
<td>Meet and introduce new community officer</td>
<td>To be contacted when DA lodged.</td>
</tr>
<tr>
<td>Resident groups</td>
<td>Resident and lead protester for Wagner application</td>
<td>Campbell Staines</td>
<td>TBA – which group he is involved in</td>
<td>Meet and introduce new community officer</td>
<td>Connect with Ormeau Progress Association</td>
</tr>
<tr>
<td>Yatala Residents Alliance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kristy Court Neighborhood Watch</td>
<td>President</td>
<td>Barry</td>
<td></td>
<td></td>
<td>Met with him at his house and discussed key issues such as motorcycle club and traffic concerns</td>
</tr>
<tr>
<td>Ormeau Progress Association</td>
<td>President</td>
<td>Tim Gregg – 0417 716 246</td>
<td></td>
<td>Currently running the ‘Stop the Quarry’ Project. Their website says the following: Stop The Quarry is an Ormeau based not-for profit community organisation set up by Ormeau residents to halt the destruction of fragile wooded land by quarries and associated industries. The community has had enough of unsympathetic mining practices by large quarry companies. What is their website thanks these organisations for their support and provides the following commentary:<a href="http://www.bahrsscrub.org.au">http://www.bahrsscrub.org.au</a> - excellent research undertaken that identifies endangered, vulnerable and rare flora and fauna in areas adjoining Ormeau</td>
<td>Will meet in July</td>
</tr>
<tr>
<td>Ormeau Progress Association</td>
<td>Secretary</td>
<td>Karen Corrigan – 0403 843 351</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:ormeauprogress@live.com">ormeauprogress@live.com</a></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
exacerbating the situation is that mining practices are not being adequately controlled by government who only pay lip service to following up complaints. As a result there are serious and negative lifestyle and health impacts on local residents (and wild animals and rare and endangered plants) that call Ormeau home. Stop The Quarry (and its various sub groups) vowed aim is to harness community discontent and put pressure on governments and quarry companies to force them to enter into genuine dialogue with their local community who have to live with these developments. The aim is to develop “no go areas” and ensure that future developments are less of a surprise’
Visit: www.stopthequarry.info

Still finding contacts for this – seems to have been superseded by chamber
Disbanded.

<table>
<thead>
<tr>
<th>Business</th>
<th>Principal</th>
<th>Contact Information</th>
<th>Meet and discuss school presentation, connections and possible youth programs...</th>
<th>Met with Richard and science and year 11 coordinator Craig. Keen to work with Hanson re safe driving program and school based traineeship program. May 23, August and October.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rivermont College</td>
<td>Richard Young</td>
<td><a href="http://www.rivermont.net">www.rivermont.net</a> 32870000</td>
<td>Stories in local newsletter</td>
<td>Meeting on June 18. Can’t meet earlier due to commitments. Keen to talk about truck presentation.</td>
</tr>
<tr>
<td>Ormeau Woods State High School</td>
<td>Brooke Overduin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yatala Enterprise Area</td>
<td>Sue Wilkinson</td>
<td>5581 7521 <a href="mailto:swilkinson@goldcoast.qld.gov.au">swilkinson@goldcoast.qld.gov.au</a></td>
<td></td>
<td>Sue, Carl and Emma visited the site and had a tour of the operation. Once group is back running, Hanson will be on the founding board.</td>
</tr>
<tr>
<td>Beenleigh-Yatala Chamber of Commerce</td>
<td>Lindsey Hamilton</td>
<td>4 Plantation Road PO Box 434 Beenleigh QLD 4207 Australia Ph. 07 3807 8077 Fax: 07 3807 8108</td>
<td>Meet and offer to do a presentation at chamber meeting.</td>
<td>Met, presented at April meeting. Member. Executive committee to visit site, have meeting and tour in July. Was in June but they pushed it back.</td>
</tr>
<tr>
<td>Yatala Working Party (economic division of Gold Coast City Council)</td>
<td>Sue Wilkinson and Emma Wallace</td>
<td>Email: <a href="mailto:bwcc@bigpond.net.au">bwcc@bigpond.net.au</a></td>
<td>Has been cancelled. Spoke with the former manager.</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
</tbody>
</table>
| Industry |  | Brisbane Office  
Level 2, 485 Ipswich Road  
Annerley Qld 4103  
TELEPHONE: 3227 5200 | Keep informed of community projects  
Provide regular updates to internal magazines and newsletters  
Met and explained program. Very supportive |
| Cement Concrete Australia (local branch) |  |  |  |
| Institute of Quarrying Australia (local branch) | Queensland Branch delegate on national council | Clayton Hill  
Office of General Manager  
PO Box 3402  
Bracken Ridge QLD  
Australia 4017  
Tel: +61 7 3261 8192  
Mob: +61 429 4385 54  
Email: general-manager@quarry.com.au | Keep informed of community projects  
Provide regular updates to internal magazines and newsletters  
Discussed project with communication team and have regular updates for their e-newsletter and magazine |
| Environment groups |  |  |  |
| Clean Up Australia – local branch | Beenleigh Scouts Group  
Stephen Hughes | Connect on March 4  
Beenleigh Scouts Group | Discussed joining the 2012 program. They declined as didn’t need help. |
| National Tree Planting Day – local branch | Appears to be coordinated locally by Friends of the Gold Coast Botanic Gardens Inc.  
President  
Nick Bloor  
Vice-President  
Lyn Reilly  
[www.fgcbg.org.au](http://www.fgcbg.org.au)  
0449 5616 74 | Connect for event in July. | Not connected to the area of Wolffdene |
| Greening Australia – local branch/contact | Gold Coast is the closest regional office  
Nerang-Broadbeach Road, Carrara  
QLD  
PO Box 5042, Gold Coast MC,  
QLD 9729  
T: 07 5581 1509  
F: 07 5594 3562 | Meet and discuss partnership ideas | Will meet later in the project. |
| Peachey Community Garden | Local community garden  
– Cr Donna Gates supports this project | Offer to meet and introduce and connect via materials. | Couldn’t find contact. Cr Gates said to leave this one. |
| Save Bahrs Scrub Alliance | Office holders not listed on their website | [www.bahrs scrub.org.au/](http://www.bahrs scrub.org.au/)  
According to their website: The Save Bahrs Scrub Alliance was formed in November 2009 and comprises major conservation groups Logan & Albert Conservation Association (LACA), Brisbane Regional Environment Council (BREC), Wildlife Logan, Gecko – Gold Coast & Hinterland | Mentioned as a supporter of the ‘Stop the Quarry Group’. Appear to be very well organised and active. Commissioned detailed review of the impact of the State Government’s SEQ Regional Plan on the area which can be found via this link: [http://michaelroselcc.com/docs/Assman_Report_in_Bahrs_Scrub_2011.PDF](http://michaelroselcc.com/docs/Assman_Report_in_Bahrs_Scrub_2011.PDF)  
Called but not really connected or related to location of Wolffdene Quarry. |
<p>| Environment Council, the Wildlife Preservation Society of Queensland, Gold Coast (WSPQ GC), and key individuals. The aim of the Save Bahrs Scrub Alliance (SBS), is to campaign for the preservation and regeneration of the Bahrs Scrub Precinct a biodiversity hotspot which has been mandated for major development. |
| Logan and Albert Conservation Association Hinterland Environment Council (Gecko) President Lois Levy 5534 1412 <a href="http://www.gecko.org.au">www.gecko.org.au</a> Meet and introduce community officer. |
| Government Gold Coast City Council Mayor Tom Meet informed of project and community projects. |
| Gold Coast City Council Mayor Tom Meet and introduce community officer. Connect to her key community projects. Ask her to send residents our way. |
| Gold Coast City Council State MP State candidate for LNP Federal MP Meet with Cr Gates at her office. Keen to work with us. Have had email communication regarding the signs on Stanmore Road and update on surveying. |
| Logan and Albert Conservation Association Hinterland Environment Council (Gecko) President Lois Levy 5534 1412 <a href="http://www.gecko.org.au">www.gecko.org.au</a> Meet and introduce community officer. |
| Logan and Albert Conservation Association Hinterland Environment Council (Gecko) President Lois Levy 5534 1412 <a href="http://www.gecko.org.au">www.gecko.org.au</a> Meet and introduce community officer. |
| Meet and introduce community officer. Connect to her key community projects. Ask her to send residents our way. |
| Meet with Cr Gates at her office. Keen to work with us. Have had email communication regarding the signs on Stanmore Road and update on surveying. |
| Meet with the team on site and will get back to us once have an idea of how we could work together |
| Contacted. Had a chat but they are more about events rather than advocacy or connecting to groups. Keen for Hanson to sponsor the fair. |
| Albert and Logan News (Quest) Weekly published on Friday Phone: 3826 2626 Editor: Andrew Graham News editor: Mark Flack Distribution: Springwood, Meadowbrook, Alberton, Logan Village, Ormeau, Tamborine, Coomera |</p>
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<td><strong>The Reporter (APN)</strong></td>
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<td>Weekly published on Wednesday</td>
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<tr>
<td><strong>Jimboomba Times (Independent)</strong></td>
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<tr>
<td>Weekly published on Wednesday</td>
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</tbody>
</table>

**Journalists:** Jessica Bayfield, Katie Duncan, Stephanie Masters  
editorial@albertlogannews.com.au

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<th><strong>Gold Coast Bulletin (News Ltd)</strong></th>
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<tr>
<td><strong>Gold Coast Sun - Upper North (NewsLtd)</strong></td>
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<tr>
<td>Weekly published on Wednesday</td>
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**Group Editor**  
Brenton Waters  
www.jimboombatimes.com.au  
Jimboomba Times Office:  
P.O. Box 43, Jimboomba Q 4280  
Telephone 07 5548 6111  
Fax 07 5548 6122  
Email: info@jimboombatimes.com.au

**Editor**  
Peter Gleeson  
Head Office:  
385 Southport Nerang Rd,  
Molendinar Q 4214  
PO Box 1, Southport, 4215  
Phone (07) 5584 2000  
editorial@goldcoast.com.au

**Editor**  
Shane Watson  
Phone: (07) 5500 1500  
Fax: (07) 5597 2182  
Email: sunrec@gcb.newsltd.com.au

**Manager**  
info@101fm.asn.au  
www.101fm.asn.au  
07 3808 8101

**Supplier**
- Alma Yatala
- AT Hydraulic Yatala
- Active Hire Beenleigh
- BSC Bearings Yatala
- Border Security Nerang
- Britton Engineering Yatala
- BOC Labrador
- Beenleigh Electrical Beenleigh
- J Blackwood & Son Southport
- Cement Australia (Yatala depot)
- Crushing and Mining Yatala
- Crushing Equipment Richlands (behind Wolffdene)

Wolffdene outside their circulation area. Distributed to Waterford, Logan Village, Chambers Flat and other suburbs to the north and west

Wolffdene may be outside their circulation area but would go close. delivered throughout the southwest Logan City communities and rural residential areas of Jimboomba, Greenbank, Buccan, Logan Village, Munruben, Flagstone, South & North Maclean, Boronia Heights, Park Ridge, Veresdale, Mundoolun Estate, Cedar Grove and Cedar Vale, and also into Tamborine Village

Distribution area includes Yatala and Ormeau

Keep informed and send over updates and community projects.

Coordinate supplier/consultant safe day barbecue to celebrate 10 days of safe work place. Inform them of project and next stages (around May). Later ask for letter of support

BBQ and meeting in July
<table>
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<th>Company Name</th>
<th>Location</th>
</tr>
</thead>
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<td>Coates Hire</td>
<td>Beenleigh</td>
</tr>
<tr>
<td>Cava Cranes</td>
<td>Richlands</td>
</tr>
<tr>
<td>(behind Woolfdene)</td>
<td></td>
</tr>
<tr>
<td>D &amp; A Family Cleaning</td>
<td>Beenleigh</td>
</tr>
<tr>
<td>Ground Attack Mini Loaders</td>
<td>Upper Coomera</td>
</tr>
<tr>
<td>Global Crushers &amp; Spares</td>
<td>Supply depot in Yatala</td>
</tr>
<tr>
<td>J &amp; P Richardson Electrical</td>
<td>Burleigh</td>
</tr>
<tr>
<td>Metric Manufacturing</td>
<td>Beenleigh</td>
</tr>
<tr>
<td>MTG Contracting</td>
<td>Burleigh</td>
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<tr>
<td>Heads</td>
<td></td>
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<tr>
<td>Millard Tyre Centre</td>
<td>Yatala</td>
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<tr>
<td>McNae Contracting</td>
<td>Yatala</td>
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<tr>
<td>Nerang Auto Electrical</td>
<td>Nerang</td>
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<tr>
<td>Nut &amp; Bolt Factory</td>
<td>Yatala</td>
</tr>
<tr>
<td>Onsite Hoses</td>
<td>Yatala</td>
</tr>
<tr>
<td>Office National</td>
<td>Yatala</td>
</tr>
<tr>
<td>Peter Tippett Haulage</td>
<td>Stapylton/Burleigh Heads</td>
</tr>
<tr>
<td>Prte</td>
<td>Yatala</td>
</tr>
<tr>
<td>Queensland Diesel Spares</td>
<td>Yatala</td>
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<td>Queensland Air Cleaners</td>
<td>Yatala</td>
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<tr>
<td>Rocktec</td>
<td>Yatala</td>
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<tr>
<td>Stenhouse Lifting Equipment</td>
<td>Yatala</td>
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<tr>
<td>Total Bobcat Hire</td>
<td>Luscombe</td>
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<tr>
<td>The Old Water Cart</td>
<td>Upper Coomera</td>
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<tr>
<td>Total Engineering &amp; Mining Supplies</td>
<td>Yatala</td>
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<tr>
<td>Test &amp; Tag</td>
<td>Ormeau</td>
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<tr>
<td>Ultra Tune</td>
<td>Beenleigh</td>
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<tr>
<td>Yatala Pumping &amp; Irrigation</td>
<td>Yatala</td>
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<tr>
<td>Yatala Cranes</td>
<td>Yatala</td>
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</table>
Rivermont College donation story

HANSON Constructions Materials’ Wolffdene Quarry was proud to continue their history of supporting Rivermont College with the donation of much-needed materials to save the school’s dam.

Over the Easter break, Wolffdene Quarry coordinated the donation and delivery of materials (worth more than $7000), which will reline the dam’s walls after Carp (a pest) has slowly attacked the lining and structure of the dam.

The dam is used by the school for garden maintenance and also by the students for science and biology studies.

Wolffdene Quarry manager Reno Fabretto said the quarry was proud of their long history of supporting and working with the respected college.

“Since the college’s conception in the early 1990s, Wolffdene Quarry has donated materials for the dam, gardens and for the main roads in an out of the school,” Mr Fabretto said.

“Aside from donating goods, we’ve also been an active supporter of the school from providing students, studying science, tours of the site and presentations on the workings and operations of our quarry and about quarries in general.

“We’re also in discussions with the school to be a part of their annual safe driving courses for year 11 and 12 students.

“Hanson has been invited to take part in the day long presentation to discuss and raise awareness of coexisting with trucks on the road and safe driving practices around trucks.

“We are proud to work with the school and their large school community.”

Insert comment from principal Richard
WOLFFDENE QUARRY

RENO FABRETTO
QUARRY MANAGER
2012
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Hanson is one of the world's leading heavy building materials companies with an annual turnover of more than A$9 billion.

We are the largest producer of aggregates - crushed rock, sand and gravel - and one of the largest producers of concrete products, clay bricks and concrete in the world. Our other principal products include asphalt and concrete roof tiles.

Hanson quarries, concrete plants and manufacturing operations are located in North America, United Kingdom, Australia, Asia Pacific and Continental Europe.

In Australia we employ more than 3,000 staff and permanent contractors. Nationally we operate over 60 quarries and more than 240 concrete plants, along with a network of preformed concrete product sites. Our delivery assets include a transport fleet of more than 1,500 trucks.

Quarries such as Wolfdene are necessary as they provide construction projects with hard rock, natural gravel and different types of sands. The southeast Queensland annual demand forecast foresees that the demand for the different products is set to double within 50 years.

Figure 1 – SEQ annual demand forecast
Hanson Construction Materials Pty Ltd operates a hard rock quarry at Harts Road, Luscombe. The quarry is located close to residential areas and supplies a range of quarry products to the Brisbane and Gold Coast areas.

The transport routes to the Pacific Highway and Beenleigh require travel that passes close residential areas. Hanson has made a commitment to the Local Authority and the Local Community to undertake all activities, including delivery of product, in a manner that protects the Environment and Amenity of the Local Community.

Figure 2 – The location of the Wolffdene Quarry
3. History

Man has relied upon the extractive industry for thousands of years. Quarried rock built the Pyramids, the Great Wall of China, Colosseum and the Roman Aqueducts. In recent centuries, railways, roads, bridges, dams, airports, harbours, houses and shopping centres have utilized the materials produced from quarrying operations.

The Wolfdene quarry’s history is vast and is expected to be sustainable for another century.

1979: - Tony Stephens owned the land and started the quarry.

1980: - Geoff Theiss purchased the land from Tony Stephens and continued on with the extraction.

1983: - Pioneer purchased the land from Geoff Theiss. (March).

At the onset, Ron Spencer managed the quarry through until the end of March. Frank Seymour took over the management role of the quarry and continued through to January 31, 2005. Craig Stevens took over the roll of Quarry Manager on the 1st of February 2005 and left On the 26th of October 2007 to Manage our Glasshouse operation. He was then replaced by Andrew Ritchie and he has since left to join our customer service centre as a business analyst. On the 8th of February 2010 Reno Fabretto was appointed as Quarry Manager.
When the quarry first kicked off there was no power to the site. Three CAT generators powered the small crushing plant and the quarry’s mobile equipment consisted of two Front End Loaders and one Dump Truck.

![Image](image1)

Figure 4 – The Beenleigh Plant, first crushing plant at Wolffdene Quarry originally powered by generators.

1984: The Wolffdene plant was commissioned to supply material for the Number 1 runway at the Brisbane Airport. The contract took 2 ½ years to complete and the site worked 6am-6pm 7days with permission from local authorities. On completion of the contract, the plant was converted to produce a large range of material from 300mm stone pitching to crusher dust. The plant was responsible for, and supplied product to jobs such as the Gateway Arterial from Rochedale to the Gateway Bridge and the Gateway extension from Eight Mile Plains to Beaudesert Road.

![Image](image2)

Figure 5 – The Wolffdene Plant is still operational today and since been upgraded.
1997: - A state of the art plant, Nordberg Plant, was commissioned and has the capacity to produce 650T/hr of material, including 250T/hr of manufactured sand. Concerns had long been raised about the depletion of the natural sand in the rivers and the environmental impact of carrying out such operations. Pioneer was the first in Queensland to successfully take on the challenge of manufacturing sand from rock and in doing so has been able to relieve the pressures on the environment.

Figure 6 – The Nordberg Plant
Hanson's Wolffdene Quarry is situated at the northern end of the Darlington Range, which provides a valuable resource to the industry and the community.

The total area of the Wolffdene Site is approximately 494ha; in which 411ha is designated for extraction leaving 83 Hectares as buffer land. Only 20 percent of the land is disturbed at any one time, which leaves one largest privately owned natural ecosystem in the metropolitan area.

The predominant material extracted is known as Greywacke, a metamorphic sedimentary rock (Arenaceous rock).

Life expectancy of the quarry is in the vicinity of 100 years. At an extraction rate of between 1.5 and 2 million tonnes of material processed and sold each year, gives the quarries total raw materials to be extracted around 200 million tonnes.

Figure 7 – Aerial view of the Wolffdene Quarry
5. Source Rock

Majority of the rock extracted from the quarry mainly comprises of Greywacke, which has some seams of Argillite. To the south, there are small pockets of Greenstone.

Metagreywacke

(Beenleigh)
- Derived from metamorphosed sandstone of quartzofeldspathic composition (that is greywacke).
- The metagreywacke is a greenish grey to dark grey colour, hard and durable.
- It consists of fine to coarse sand grains and commonly shale clasts.
- Aggregates produced from metagreywacke are high strength, abrasion resistant and durable with low water absorption and rough granular surface texture.
- It is an excellent source rock for most construction materials.

Greenstone

(Petrie)
- Derived from regionally metamorphosed basaltic volcanic flows.
- Greenstone is green in colour; fine to medium grained and occasionally exhibits a pitted surface due to weathering of phenocrysts.
- As a source rock greenstone is very high strength, dense and durable.
- When processed it produces a high quality road base and aggregates for concrete, asphalt and most other construction materials.

Trachyte

(Glasshouse Mountains)
- Trachyte is a fine-grained greenish-grey fine-grained rock comprising predominately sanidine (K-feldspar).
- The source rock has very high strength, abrasive resistant hardness and durability properties.
- It is one of the better source rocks available for all construction materials

Fine Sand

(Oxley Creek)
Consists of quaternary alluvium derived from erosion of the mesozoic and tertiary sandstones in the upstream catchments.

Yellowish–grey sand, predominately quartzose grains with some lithic clasts and feldspar grains.

After washing and processing the sand product as low percentage of clay that lowers the water demand in concrete and enhances concrete properties in general.

**Fine Sand**  
(Lawnston)

- The deposit is worked as a series of large off stream lakes in alluvial terraces associated with the southern bank of the North Pine River.
- The sand and gravel has generally been won in the lower alluvial terraces and comprises approximately 55% sand and 45% gravel.
- The sand and gravel won from this deposit are of high quality and suitable for a wide variety of uses including concrete aggregate, exposed aggregate, bedding sand and drainage aggregate.
- Aggregates produced are generally off-white quartz (derived from quartz veins within the metamorphic rocks to the west) together with some darker fragments of metagreywacke, hornfels, cherts etc.

**Fine Sand**  
(Moreton Bay)

- The northern delta area of Moreton Bay comprises predominantly fine to medium mature quartzose marine sands derived from the coastal longshore transport.
- This longshore drift originates at the Clarence River and moves some 300 kilometres northwards to Moreton Bay.
- Detailed investigations have shown there is no contemporary connection in the flow of sand north to and past Caloundra with all of the northward flowing sand being deposited within the tidal entrance deltas and adjacent shores of Moreton Bay at south passage and the northern delta.
- It is estimated that there are 1,400 million cubic metres in the south passage delta and 3,800 million cubic metres of sand in the northern delta.
6. Drill and Blast

The first stage of processing rock into product is in the drill and blast process. At this point, the top layer of overburden is removed to allow for the blast pattern to be designed. The blast or drill pattern is marked on the area in order for the drill rigs to start drilling. The drill rigs used (see figure 10) are an Atlas Copco and an Ingersol Rand.

The process involves counter clockwise rotation of the drill steels, which has attached on the bottom a tungsten button drill bit. At the top of the mast is a hydraulically operated hammer and together with the action of rotating drill bit, chips away at the rock eventually making the hole.

![Figure 11 – Atlas Copco drill rig and Ingersol Rand drill rig](image)

The designated blasting contractors come onto site and load each hole with a booster that is connected to a detonator. The holes are filled with the bulk explosive product and are individually connected together in accordance to the firing sequence.

![Figure 12 – Filling of holes with bulk material](image)

When all are connected, the danger area is cleared as per the quarries blasting procedure to allow for the shot to be fired.
Figure 13 – Blast stage 1

Figure 14 – Blast stage 3

Figure 15 – Blast stage 5

Figure 16 – Blast stage 2

Figure 17 – Blast stage 4

Figure 18 – Blast stage 6
7. Load and haul

The load and haul process involves the Komatsu PC 1250 Excavator loading two 777 Caterpillar Dump Trucks. The Excavator bucket has a capacity of approximately 11 tonnes, which takes 8 passes to load each dump truck. These trucks then wind their way down the haul road to the crushing plant. Once they reverse into the dump hopper, traffic lights indicate to the operator of the dump truck when to tip.

Figure 19 – CAT 5130 Loading a CAT 777 Dump Truck with Rock for the Crushing Plant (May 2005).

Figure 20 – 2 CAT 777 Dump Trucks Hauling Rock to the Crushing Plant (October 2006).

Figure 21 – Komatsu PC 1250 Excavator Loading a Caterpillar 777 No 2 Dump Truck (October 2006).

Figure 22 – Caterpillar 777 Dump Truck tipping into dump hopper at primary crusher (October 2006).
8. Crushing Plant

The second part of the process comprises of a state of the art computerised crushing plant. The dump trucks tip their load into a large storage hopper. The material passes along an apron feeder into the Primary Jaw Crusher. The Jaw Crusher is the first of succession crushers that crushes large rock into smaller sizes. The smaller rock is then filtered by a system of screens and transported via a network of conveyors to the different stockpiles. The Wolfdene quarry has stockpiles of Manufactured Sand, 7mm, 10mm, and 20mm Aggregates and also Road base.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Crusher</td>
<td>48 x 60 ANI Double Toggle Jaw Crusher</td>
</tr>
<tr>
<td>Crusher 2</td>
<td>HP500 Nordberg Cone Crusher</td>
</tr>
<tr>
<td>Crusher 3</td>
<td>HP400 Nordberg Cone Crusher</td>
</tr>
<tr>
<td>Crusher 4</td>
<td>MVP Cedarapids Cone Crusher</td>
</tr>
<tr>
<td>Crusher 5</td>
<td>HP300 Nordberg Cone Crusher</td>
</tr>
<tr>
<td>Screen 1</td>
<td>20 x 8 Nordberg Screen</td>
</tr>
<tr>
<td>Screen 2</td>
<td>24 x 10 Nordberg Screen</td>
</tr>
<tr>
<td>Screen 3</td>
<td>24 x 10 Nordberg Screen</td>
</tr>
<tr>
<td>Screen 4</td>
<td>24 x 10 Nordberg Screen</td>
</tr>
</tbody>
</table>

Figure 23 – The computerised crushing plant
Figure 24 – Schematic layout of the Nordberg crushing plant
9. Materials Produced

Queensland requires in excess of 90,000 tonnes of extractive material per day to meet current demand. Extractive material usage in Queensland equates to almost 10 tonnes per person per year. This figure has been current since 1979. The consumption of extractive resources compares directly to Queensland’s increased population growth. The Department of Natural Resources and Mines quotes the current annual production of hard rock and sand is over 32 million tonnes. This gives an annual sales turnover in excess of $350 million.

General use for quarry materials:

<table>
<thead>
<tr>
<th>Length of Road</th>
<th>Type of Road</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1km</td>
<td>Suburban road</td>
<td>5000 tonnes crushed rock</td>
</tr>
<tr>
<td></td>
<td></td>
<td>750 tonnes concrete (kerbs, footpath and gutters)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>450 tonnes asphalt</td>
</tr>
<tr>
<td>1km</td>
<td>Highway</td>
<td>25000 tonnes crushed rock</td>
</tr>
<tr>
<td>1km</td>
<td>Railway</td>
<td>2000 tonnes of ballast</td>
</tr>
</tbody>
</table>

A high-rise building uses up to 1000 tonnes of aggregate per floor

A typical house uses up to 100 tonnes of aggregate (including driveway and landscaping)

One cubic meter of concrete requires 2 tonnes of quarry material

The Material Produced

- 20mm Concrete aggregate
- 7mm concrete aggregate
- Drainage aggregate
- Armour Rock
- Road base
- Concrete blends
- 10mm concrete aggregate
- Manufactured sand
- Pre-coat aggregate
- Stone-pitching rock
- Cement treated road-base
- Select fill

Figure 25 – 7mm aggregate
Figure 26 – 20mm aggregate
The laboratory conducts tests to ensure the quality of the product that is coming off the conveyors is of a high standard. That is, the products must comply with the Australian Standards Specification for Aggregates and Main Roads Specification for Road-base materials. Tests are implemented frequently in accordance to the tonnage output of the different products. These tests monitor the size of the different products to ensure that they comply with the specification envelope.
Hanson Australia is committed to the health and safety of its employees through an in-depth induction process for new employees and contractors, company policies and procedures, Competency Based Training and site-specific training.

In addition Hanson have commenced a ZERO HARM program, which instils that with proper management and work procedures, a zero harm culture can minimise Significant Injuries on all Hanson work sites. Significant Injuries includes lost time injury, medical treatment injury and restricted work injury.

Furthermore to the health, safety and environment charter, policies and procedures and zero harm programs, the Wolffdene quarry has implemented many other policies regarding to safety at the quarry. These come in the form of site specific Job Safe Analysis (JSA) and Safe Work Procedures (SWP).
Our Values

Hanson is people committed to success and customers through:

- Safety
- High performance
- Innovation
- Respect and integrity
- Sense of Ownership

We believe that all work-related injuries, illnesses and environmental incidents are preventable.

To achieve our objective of not harming anyone or the environment we must develop our Safety, Health and Environment culture and have the commitment of all employees and contractors to meet the expectations described in our Safety, Health and Environment Charter.

Everyone - whether line manager, supervisor or individual - is responsible for ensuring that we meet our Safety, Health and Environment Commitment.

Meeting the expectations of the charter will be an integral part of all job performance assessments.

Please read the Charter carefully and discuss it with your line manager or supervisor before agreeing to this commitment.

There is no task that we undertake that is so important that we can't take the time to find a safe way to do it.

Leslie Cadby
Chief Executive

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Health Safety and Environment Charter

Figure 29 – Health, Safety and Environment Charter
At Hanson we are committed to workplace behaviours which meet our workmates’, family members’, customers’, shareholders’ and society’s expectations. Each of us has the right to work in a safe, happy and fulfilling work environment. Each of us also has a responsibility to contribute to the safety, happiness and productivity of that work environment.

You have a right to:  

- A safe place of work
- Personal protective equipment
- Equipment which is safe and sound
- A workplace free of hazards
- Return home in the same condition you arrived in
- Be respected and treated fairly and consistently
- A workplace free of harassment, threats, bullying and violence
- Remuneration for work performed
- Suitable and sufficient tools, materials and resources to perform your job

You have a responsibility to:  

- Work in a safe way
- Use personal protective equipment
- Treat equipment with care and report defects
- Eliminate and/or report any hazards you identify and report any injuries
- Present to work in an alert state without the adverse effects of drugs or alcohol
- Respect and treat others fairly and consistently
- Behave so as not to harass, threaten, bully or be violent towards others
- Perform work tasks allocated in a timely manner
- Use tools, materials and resources provided carefully and conservatively

Everybody is personally accountable for their behaviour. **We’ll make it happen!**

A discussion on this charter has taken place and we understand the expectations required of us.

<table>
<thead>
<tr>
<th>Employee</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signed:</td>
<td>Signed:</td>
</tr>
<tr>
<td>Name:</td>
<td>Name:</td>
</tr>
<tr>
<td>Date:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

*There is no task that we undertake that is so important that we can’t take the time to find a safe way to do it.*
Hanson Construction Materials Pty Ltd operates a hard rock quarry at Harts Road, Wolffdene. The quarry is located close to residential areas and supplies a range of quarry products to the Brisbane and Gold Coast areas.

The transport routes to the Pacific Highway and Beenleigh require travel on Harts Road and Stanmore Road, passing close residential neighbours. Courteous driving, and limiting the use of exhaust brakes will assist in maintaining a good relationship with the local community.

All heavy vehicle drivers are required to be responsible and professional, and drive in accordance with this Driver’s Code. Hanson will enforce this code and follow up on any complaints. Breaches or blatant disregard to the code may lead to prohibition from entry to the quarry site.

Hanson Driver’s Code is required to be understood and completed by all drivers. The signed confirmation will be held at the quarry.

**Wolffdene Requirements:**

- All drivers must obey all signs, directions and instructions, & give way to all quarry vehicles.
- No soil, dirt or other materials are permitted to be brought onto the site without the Manager’s prior approval. All trucks must be free of any build-up of soil or dirt before entering the site.
- Upon entry to the site, stop at the weighbridge or communicate with the loader driver on CB channel 22, UHF channel 16 before entering the stockpile area.
- Maximum speed limits:
  - Harts Road 60km/hr
  - Quarry Site 30km/hr
- Steel capped boots and high visibility vest/clothing must be worn at all times inside the quarry boundaries. Hard hats must be worn if exiting the truck cab passed the tarping station.
- You must remain in the cab while loading, unless instructed by the loader driver.
- All quarry mobile equipment (FEL’s, dump trucks, water truck etc) have right of way at all times.
- No children are permitted on site, this includes in truck cabs. Trucks carrying children will be turned around and not loaded.
- All loads are to be tarped prior to leaving the quarry. The only exception is single sized rock larger than 75mm. The tarp must cover the whole body, without air gaps. Tarping must be done in the designated bay before the wheel wash.
- All drivers are to ensure their load is legal, secure and sidebars, draw bar and tailgate are clear of material.
- No truck will be permitted to leave the site if it is over the legal GVM for that vehicle.
- All trucks MUST use the wheel washer when exiting the quarry.
- All litter must be placed in the bins provided on site, including cigarette butts.
• All drivers are required to drive in a safe and courteous manner.

• All vehicles entering the site must be fully roadworthy and maintained. Hanson may inspect any vehicle, or request maintenance records for any vehicle. Hanson reserves the right to prohibit any vehicle from the site if we believe it may not be roadworthy or safe to operate.

• No maintenance or repairs to be performed on trucks within the quarry without the Quarry Manager’s approval.

• Hanson has a Drug and Alcohol Policy that includes random testing.

• Any accidents, incidents, complaints, hazards, spillages or near misses must be reported to the Quarry Manager immediately. This includes on the haul routes outside of the site (public roads).

• All Trucks must STOP at the corner of Harts Rd and Stanmore Rd after exiting the quarry, & obey traffic rules at all times.

• The quarry operating hours for sales are 6.30am to 5.30pm Monday to Friday, and 8.00am to 12.00am Saturday.

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• Maximum speed limits:
  - Harts Rd – 60km/hr
  - Quarry Site – 30km/hr

• The Quarry operating hours for sales are 6.30am to 5.00pm Monday to Friday, and 8.00am to 12.00am Saturday.

Note: Non-compliance with any of these directives both on and off site could lead to refusal to load directive from the Senior Site Executive (Quarry Manager)

Contact Details:
Quarry Manager: 07-5549 7073
Wolffsdene Quarry Driver’s Code

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Hanson Construction Materials Pty Ltd

Wolffsdene Quarry Driver’s Code

Confirmation of Understanding of the Code

I, (name), have read and understand the Driver’s Code explained to me and understand the requirements of the Code. I confirm I will comply with the requirements of the Driver’s Code.

Signed: ___________________________

Date: ___________________________

Endorsed By: ___________________________

(Hanson Representative)
13. Environmental Management

Quarries by virtue require land to be disturbed (bulldozed, cleared, dug, etc) to allow for efficient, effective and economic extraction of rock. Quarry activities can have a detrimental impact on the environment.

Poor quarry development, lack of rehabilitation to final land form, dirty water run off due poor water management systems and airborne dust are all contributing factors that can harm the environment. However, with the implementation of environmental management measures, these impacts can be minimised so there is little or no impact on the environment.

13.1 Development

The development of the quarry over the next five years will be concentrated to the far northern extremity, then moving across to the west along the top of the ridge. As the quarry benches drop down and reach their final boundaries, these will be rehabilitated along the way as the development continues. It will be an important factor when benches are dropped down that the tree line stays above the working areas to ensure the visual amenity from outside the quarry has no impact on the community.
13.2 Rehabilitation

Land clearing activities at quarry sites remove trees, shrubs and grasses from where rock is to be extracted. The removal of these trees may reduce the bio-diversity (number of different plants and animal species) on the quarry site.

Hanson has identified the need to replace some of the trees removed by quarrying operations in areas of the quarry where final limits of extraction have been reached.

Figure 34 – clearing land for production purposes as per quarry development

Figure 35 – Extraction of rock, North East Corner (February 2005).

Figure 36 – View showing rock filters, rehabilitation and limits of extraction to the North East (May 2005).
By following a structured rehabilitation program, areas that have reached their final limits of extraction can be rehabilitated close its natural form.
13.3 Water Management

Water runoff from the areas around the quarry generally has high levels of silt. If water high in silt is allowed to leave the quarry, downstream use of the water may be limited and the biology of the watercourses may be affected.

Stormwater management measures implemented to prevent silting of natural water courses include the planning and development of quarry levels to allow water runoff to be captured.

The rock filter wall slows the velocity of the water that allows the silts to settle. As the silts settle to the bottom, water slowly permeates through rock filter wall and into the dam.
Figure 46 – Rock filters along drains.

Figure 47 – Minimised tree clearing Activities
13.4 Air Quality Management

Air quality management is a requirement in order for quarries to attain licenses for extractive operations.

The dust controls at the Wolffdene Quarry include:

- Using the landform to create a barrier between the quarry and nearby residents
- Fully enclosed crushing and screening plant (Nordberg Crushing Plant)
- A dust control foaming agent and water sprays in the crushing and screening plant
- Imposing a speed limit on unsealed roads
- Washing all truck wheels and the use of overhead spray bars
- Trapping all loads with product
- Wetting of unsealed and haulage roads

The quality of the air surrounding the quarry is monitored through the results of tests conducted from the dust bottles. The dust bottles are located in two different locations of the quarry and catch dust particles that are suspended in the air. These tests are conducted according to the size of the quarry, generally the larger the quarry the more regular the checks. The Wolffdene quarry is assessed monthly.
Figure 52 – The Nordberg crushing and screening plant is fully enclosed.

Figure 53 – Using a dust control foaming agent and water sprays in the crushing and screening plant.
Figure 54 – Imposing a speed limit on unsealed roads.

Figure 55 – Washing all truck wheels and the use of overhead spray bars to wet all loads prior to leaving the quarry.

Figure 56 – Trapping all loads with product – 75mm before they leave the quarry.
Figure 57 – Wetting of unsealed and haulage roads with the use water of a full time water truck.
14. End Use

With the life expectancy of the quarry around the 100 years, nothing has been confirmed with the Gold Coast City Council on the quarries end use. With the increase in population growth in the southeast corner of Queensland, land shortage will become more evident thus leading to Terraced Housing, a Water Reserve or a Recreational Area.

Figure 58 – The Jeremy Smith Dam
Students attend six sessions during the day - an overview of each session follows:

- **Stopping Distances:** Demonstrating the impact of differing speeds, reaction times and vehicle traction on the time it takes to stop a vehicle, students are given the opportunity to travel in a vehicle, driven by a licensed driving instructor, as well as observe from outside.

- **Hazard Perception & Distractions:** A high energy session familiarizing students with the most common crashes involving young people and how to avoid or minimize their impact.

- **Plan B: Alcohol, Drugs, Fatigue and Driving:** An interactive workshop focusing on the impact that alcohol, drugs and fatigue have on driving ability.

- **Police:** A Police Officer led discussion on the consequences of poor choices on the road, from the tragic human toll to the financial and legal ramifications.

- **Crash Survivor:** A powerful presentation by a crash survivor who has a brain or spinal injury as a result of a vehicle crash.

- **My Wheels:** Students learn about vehicle safety, covering such topics as ABS brakes, car maintenance and insurance.

To find out how your school can become involved or to find out more about the RYDA Program, please contact:

1300 127 642
info@ryda.org.au

ryda.org.au

**Making our roads a safer place**

Road safety education equipping young people with the knowledge to stay safe on Australian roads.

Targeting 16-18 year old high school students at a stage in their lives where they are starting to drive or ride in vehicles driven by their mates.

Focusing on attitude and awareness under the theme

“my life: my choices”

We thank our sponsors for their generous support

Founding Sponsor

BOC

A Member of The Linde Group

RYDA Australia Limited (ABN: 17 110 667 706) 2011

Rotary Clubs in ACT, NSW, QLD, SA, TAS, VIC & WA

Rotary Clubs Fostering Youth Driver Awareness

Founding Partner
The RYDA Program was developed in response to the tragic loss of young people in road crashes - young people aged 17-25 represent less than 15% of the population yet account for around one quarter of deaths and injuries on our roads.

During the RYDA Program, students take part in six interactive sessions on a broad range of road safety topics including hazard perception, stopping distances, fatigue, experiences from crash survivors, ramifications of traffic offences and vehicle safety.

RYDA is conducted at an out of school venue, chosen to make the day special and dramatically highlight the road safety message. This National program is delivered to over 45,000 students annually.

Aware that ill-informed messages to students can cause harm, a substantial investment has been made in developing a Program that consistently targets best practice road safety education standards. In conjunction with research, RYDA Australia Limited also consults with road safety authorities, state departments of education and police so that the Program can complement and supplement the school curriculum and government road safety messages.

Getting behind the wheel of a car as a P Plate driver can be the most dangerous thing that most people will do in their entire life. The RYDA Program is made up of interactive sessions all aimed at helping young people to be better prepared for the many challenges of being a P Plate driver, keeping them safe at that crucial juncture as they gain experience and develop their skills.

Genevieve, or Gen as she was known to family and friends, was born in 1991, the youngest of three children. She lived life to the full; enjoyed student life; played cricket and netball; worked part time at Macca’s; was active in cadets and loved hanging out with her two best friends, Shannon and Kate. The three girls were inseparable.

On 11 June 2009, at about 5.30pm on a Thursday afternoon Gen was driving with Shannon to collect Kate from her house; a trip they had made countless times. After overtaking another vehicle, Gen over-corrected her steering and crashed into an oncoming car. She was 18 years and 4 months old when she, and her friend Shannon, died.

The story of Genevieve forms the basis of the RYDA Program’s Police session. Through a short video, students hear first hand from her parents as they reflect on her life; the moment they learned that she was gone and how much quieter their world is without her. Kate and Gen’s other friends share their own stories about the gap left at her sudden loss and the effect on their own lives and plans for the future. Students are encouraged to explore possible reasons for the crash and consider the ripple effect of her death.

The story of Genevieve is hard hitting and unashamedly emotional.

There is no gore, no crash scenes, no blood - just the long lasting effects of road trauma giving the young participants cause to stop, reflect and consider their decisions as a passenger or driver.
Rivermount College and Wolffdene Quarry

Wednesday May 23, 2012
Introductions

- Wolffdene Quarry manager Reno Fabretto
- Hanson South East Queensland Transport Manager Hayden Post
- Hanson South East Queensland Driver Trainer Alan Bennett
Today

- Wolffdene Quarry – about us
- What it takes to be a truck driver for Hanson?
- Why we are here today?
- Raise awareness
- Case studies
- Going forward
- Questions and demonstration
Wolffdene Quarry

- Hanson has operated the hard rock Wolffdene Quarry, off Stanmore Road, since 1983.
- The quarry supplies a range of products to the development of railways, roads, bridges, dams, airports, harbours, houses, hospitals, schools and shopping centres.
- Some of the projects we have supplied materials for include the number one runway at the Brisbane Airport, Gateway Arterial from Rochedale to the Gateway Bridge, the Gateway extension from Eight Mile Plains to Beaudesert Road, the Ipswich Motorway, Clem 7 Tunnel and Airport Tunnel, reconstruction of the M1 motorway.
Wolffdene Quarry
Wolffdene Quarry

- Wolffdene Quarry is Hanson’s largest hard rock extractive operation in Australia.
- The quarry employs around 30 staff members from local suburbs, up to 60 truck drivers.
- The Wolffdene Quarry injects more than $13 million into the surrounding community through the support of local contractors and job creation.

Wolffdene Quarry facilitates a number of leading training programs in extractive industries and also provides on the job school based traineeships for local young adults.
A snapshot of what we do and why we need aggregates/concrete

- What are the uses for aggregates?
- After water, concrete is the second most used product on the planet.

Did you know that:
- 1 km of highway takes approximately 25,000t of crushed rock?
- 1 km of suburban road takes 5000 t of crushed rock?
- 750 tonne of concrete for footpaths kerbs gutters and 450t of asphalt?
- A high rise building can use up to 1000t of aggregate per floor?
- A typical house uses 100t of aggregate?
Why are we here?

- Educate about trucks on the roads and why they do what they do.
- Educate about how to drive around and near trucks.
- Raise awareness about key issues that cause accidents
- Break down myths
- And ultimately…

To keep everyone safe!
Our truck drivers

- All of our drivers are required to be responsible and professional, and drive in accordance with Hanson Construction’s Driver’s Code.
- Breaches or blatant disregard to the code may lead to prohibition from entry to the quarry site.
- Hanson is continually seeking sustainable solutions for transporting products across Australia.
- Our company truck fleet is progressively being updated with new, more efficient electronic engines and lighter tare weights.
Our trucks continued…

- Our fleet is certified through the National Heavy Vehicle Accreditation Scheme (NHVAS), which is recognised as industry best-practice and road worthiness checks are undertaken on a daily basis.
- We have two types of trucks – a haulage truck (or a “Truck and Dog,” picture below) or a cement mixer (Agitator truck picture on previous slide).
- There are limited locations where quarries can be placed. They must be near main roads and transport routes to keep costs down for projects.
- Our trucks travel to Brisbane, Logan and Gold Coast every day.
- At any time we have between 185 to 200 trucks on the road daily.
What it takes to be a truck driver for Hanson?

- Licensing - minimum requirement is the heavy rigid license for agitators and heavy combination for “Truck & Dog.”

- Hanson’s strict transport induction training - each new driver is inducted and trained in accordance with Hanson's policies and procedures. This training can take up to one month to complete before the driver is deemed competent in the role.

- Monitoring - once drivers are trained and signed off as competent all drivers participate in a traineeship to obtain their Certificate 3 in Transport and Distribution.

- Annual driver assessment is coordinated to identify any deficiencies.
Ongoing monitoring

- Monitoring - log sheets are checked daily with radio status to ensure all drivers comply with fatigue requirements.
- Engine diagnostics are downloaded at service intervals and driver behaviour is assessed.
- All trucks are numbered so if a complaint comes in we can deal with the truck driver at question.
- Zero tolerance for reckless and unsafe driving.
- A complaint system and log book is held and coordinated.
- Trucks are maintained on a regular basis.
Key issues on the road

- Blind spots - the driver can't always see you.
- Braking distances – a truck is like a 50 tonne missile. It takes a lot to stop one.
- Tailgating - what can happen?
Key issues on the road

- Turning circles and overtaking - do not overtake a turning vehicle. Vehicle speed limiter restricts truck when truck is overtaking.
- Situation awareness - Where is a safe place to be?

AT 60KMPH
THIS TRUCK REQUIRES
100M
TO STOP SAFELY

Please allow sufficient distance on approach to intersection.
Case studies

- Real stories
  - motorbikes
  - Trucks
  - cars
- Lessons learnt
- [http://www.youtube.com/watch?v=PtHzaeTpYB0](http://www.youtube.com/watch?v=PtHzaeTpYB0)
Innovations in road safety

- GPS installed in trucks
- Monitoring of activity
- Cameras in each truck

http://www.youtube.com/watch?v=e1hBRX8ojkA&feature=related
Questions?
Beenleigh Yatala Chamber of Commerce

Friday April 20, 2012
Today

The quarrying industry

- Where we have been
- Where we are heading
- How we have evolved over the past five years
- The next 10 years ahead of us
- Lessons we can share.

- Questions?
The industry in Queensland

- Extractive material usage in Queensland equals almost 10 tonnes per person per year.
- Research commissioned by Cement Concrete and Aggregates Australia in 2007 estimated that South East Queensland required 850 million tonnes of extractive resources to sustain its growth up to 2026.
- This was based on population growth forecasts and the government’s infrastructure program. The same study identified an estimated total resource of 1,656 million tonnes in SEQ.
- However, much of this resource is significantly constrained (almost 60% high level of restriction) and more than half (51%) does not have development approval. Worst case scenarios indicated that the total available resource could potentially be depleted by about 2020, should additional approvals not be gained.
Who are we?

- Hanson is part of the HeidelbergCement group, which employs 57,000 people across five continents. HeidelbergCement is a global leader in aggregates and has leading positions in cement, concrete and heavy building products.
- Hanson is one of the largest producer of aggregates - crushed rock, sand and gravel - and one of the largest manufacturers of clay bricks and concrete in the world. Our other principal products include asphalt and concrete roof tiles.
- In Australia, Hanson employs more than 3,000 staff and permanent contractors nationally at more than 50 quarries, more than 230 concrete plants and two precast concrete product sites around the country.
Wolffdene Quarry

- Hanson has operated and managed the hard rock Wolffdene Quarry, off Stanmore Road, since 1983.
- The quarry supplies a range of products to the development of railways, roads, bridges, dams, airports, harbours, houses, hospitals, schools and shopping centres.
- Some of the projects we have supplied materials for include the number one runway at the Brisbane Airport, Gateway Arterial from Rochedale to the Gateway Bridge, the Gateway extension from Eight Mile Plains to Beaudesert Road, the Ipswich Motorway, Clem 7 Tunnel and Airport Tunnel, reconstruction of the M1 motorway.
- We sit under the State Planning Policy SPP 2/07 - Protection of Extractive Resources. Wolffdene is Key Resource Area KRA 67.
Wolffdene Quarry

- Wolffdene Quarry is Hanson’s largest hard rock extractive operation in Australia.
- Last year (2011), the Wolffdene Quarry produced 1.7 million tonnes and 1.6 million tonnes in 2010.
- The quarry employs around 30 staff members from local suburbs, up to 60 truck drivers and supports up to 42 local businesses and consultants.
- The Wolffdene Quarry injects more than $13 million into the surrounding community through the support of local contractors and job creation.

Wolffdene Quarry facilitates a number of leading training programs in extractive industries and also provides on the job school based traineeships for local young adults.
What we do and why we need aggregates/concrete

- What are the uses for aggregates?
- After water, concrete is the second most used product on the planet.

Did you know that:
- 1 km of highway takes approximately 25,000t of crushed rock?
- 1 km of suburban road takes 5000 t of crushed rock?
- 750 tonne of concrete for footpaths kerbs gutters and 450t of asphalt?
- A high rise building can use up to 1000t of aggregate per floor?
- A typical house uses 100t of aggregate?
Issues and challenges

- Limited locations and sourcing quarry sites close to main transport routes to keep costs down.
- Restricted by state and local government zoning.
- The general public view and negative perception of the industry in general.
- Government compliance and legislation.
- Retaining staff.
- Restricted, costly and long drawn out processes for new operations.

Changing past behaviours, ie sticking head in the sand when it came to talking to our neighbours.
How we are addressing our issues?

- Raising awareness within the communities and industries we work within.
- Working with the government and playing an active part as an industry in creating new legislation.
- Providing workable solutions by providing real life examples and data to key decision makers.
- Embracing new initiatives in environment, economy and community.
- Working with local schools and universities to raise awareness about the many facets of the industry.

- Holding open days for members of the community to educate about quarries and remove negative stigmas about the industry.
- Finally, we are starting to pull our head out of the sand.
Examples

- **School based traineeship program** – we have started an internal training program, which provides on the job training and formalised learning to become quarry or mine managers.

- **Environmentally and rehabilitation work** - as one of Hanson’s largest quarry operations, only 20 per cent of this 543 hectare site is disturbed at any one time. We have won national awards for our innovative rehabilitation, which will now be rolled out on other sites.

- **Transport** - all of our drivers are required to be responsible and professional, and drive in accordance with Hanson Construction’s Driver’s Code. Breaches or blatant disregard to the code may lead to prohibition from entry to the quarry site.

- **Maintaining competitive pricing** – remaining close to the market to reduce the distance required to haul products to the market and hence fuel / energy usage.
In summary

- Learn from past mistakes
- Provide workable solutions, rather than concentrating on the problems
- Look after staff and invest in training to retain staff.
- Work with the community and key business groups, like the Chamber
- Talk to your neighbours and find out what they think and what they would recommend going forward. You would be amazed.
- Use education to break down and correct negative perceptions.
- Put your hand up to trial new ideas.
- Open up communication channels
- Invest in the community in which you work within.
- Connect with your industry groups.
Questions?