

Daracon

Attn: Adam Kelly

2 May 2016

Dear Adam,

Martins Creek Quarry EIS SSD 6612

Jobs Created During Development

This report aims to provide an estimate of jobs that will be created at each stage of the development for The “Martins Creek Extension Project (SSD6612)”, which involves:

- extracting 1.5 million tonnes of hard rock per annum
- expanding into new extraction areas and clearing approximately 36.8 hectares of vegetation
- increasing hours of operation for quarrying to 6am – 6pm (Monday to Saturday), processing to 6am – 10pm (Monday to Saturday), mixing and binding to 4:30am – 10pm (Monday to Friday) and 4:30am – 6pm (Saturdays), stockpiling, loading and dispatch of road transport to 5:30am – 7pm (Monday to Saturday) and train loading to 24 hours per day, 7 days per week
- consolidating existing approvals
- rehabilitating the site

Each stage of the development described in “The Martins Creek Quarry Business and Extraction Report” extraction plan has been considered; 0-2 years, up to year 5, 5-10 years, 10-15 years, 15-20 years, 20-25 years and 25-30 years.

The staged plans are based on an extracted volume of 1.5 million tonnes per annum and any variation to this will most likely affect the jobs created during each stage.

This report breaks jobs into the following general categories:

1. Quarry employment
2. Indirect Employment
3. Construction Phase employment

1 Quarry Employment

For the purpose of this document quarry employment has been broken into two categories; “standard quarry operations” being those jobs required typically on a consistent daily basis and “clearing and stripping” that is typically required on a short term campaign basis.

At current extraction levels it is estimated that Martins Creek Quarry contributes 24 jobs (full time or equivalent).

Standard Quarry Operations		Clearing and Stripping	
Stages	Jobs Created	Duration (weeks)	Jobs Created
1 (0-2 year)	27	nil	nil
2 (up to year 5)	35	17	4
3 (year 5-10)	36	10	4
4 (year 10-15)	36	4	4
5 (year 15-20)	36	2	4
6 (year 20-25)	36	nil	nil
7 (year 25-30)	36	nil	nil

Table 1

Above table includes mixture of permanent and casual jobs (full time or full time equivalent) estimated to maintain production at 1.5 million tonnes per annum and all other associated quarry type activities.

2 Indirect Employment

Transport

Based on current average volume of material distributed by road it is estimated that Martins Creek Quarry currently supplies an average of 107 lorry loads of material per day. Based on a typical lorry completing 3 – 4 lorry loads per day per truck Martins Creek Quarry currently provide jobs for an average of between 27 -36 individual trucks (drivers) per day. However, the actual loads per day will vary depending on factors such as the day’s work program, customer requirements and the delivery

destination. Further each truck supplying material from Martins Creek Quarry provides jobs for the provision for maintenance, inspection and supply of suitable parts to the appropriate standard for each vehicle engaged.

On average it is estimated that in stages 1 -7 (refer Table 1) the quarry will supply 168 lorry loads of material per day (SECA Traffic Impact Assessment; p 32), with the typical lorry completing 3 – 4 loads per day. However, the actual loads per day will vary depending on factors such as the day's work program, customer requirements and the delivery destination.

Based on 3 – 4 lorry loads per day per truck Martins Creek Quarry will create jobs for an average of between 42 – 56 individual trucks (drivers) per day. Further each truck supplying material from Martins Creek will provide jobs for the provision for maintenance, inspection and supply of suitable parts to the appropriate standard for each vehicle engaged.

It is anticipated that during Stage 3 (and for each stage thereafter) upon the completion of the proposed extension of the Martins Creek Quarry Rail Siding three (3) full-time or equivalent jobs may be created through the increased distribution of materials via rail. It must be noted that the construction of the proposed extension of the rail siding (and in turn the jobs created) is dependent on the commercial viability of supplying material via rail as is further discussed in both the Martins Creek Quarry Business and Extraction Report and the Plateway Report (refer to the Annexure of the EIS).

Suppliers

At each stage of the development Martins Creek Quarry will utilise as part of its standard operation a varied range of components, materials and consumables that include, but not limited to:

- Crusher wear part components
- Replacement parts for crushers
- Steel wear components for chutes and mobile plant linings
- Parts for mobile plant
- Screen clothes
- Chemicals for water treatment
- Conveyor belts, rollers and frames

- Electrical components
- Personal protective equipment
- Small tools
- Diesel and oils
- Precoating agent
- Binding agents for roadbases
- Lifting equipment
- Fire suppression equipment
- Dewatering pumps
- Disposal of waste

It has been estimated that the suppliers contributing to Martins Creek Quarry creates 6 fulltime or equivalent jobs.

External Compliance and Monitoring

It is estimated that at current extraction levels Martins Creek Quarry contributes a total of 3 jobs (full time equivalent) for the provision of geotechnical testing and environmental monitoring, with this work typically undertaken by specialist consultants.

The development is estimated to create at each stage of the development (refer Table 1) the following compliance and monitoring jobs (full time or full time equivalent):

- Geotechnical testing and inspections; 4 people (full time equivalent) at each stage of the development
- Environmental monitoring, testing and reporting; 1 person (full time equivalent) at each stage of the development

3 Construction Phase Employment

The table below is an estimate of construction jobs, estimated duration of each major construction activity and the stage at which each construction activity is estimated to occur for the development.

Construction Phase Employment			
Stage	Description	Estimated Project Duration (weeks)	Jobs Created
1 (0-2 year)	Quarry Access Road / Quarry Access Road Intersection/Quarry Access Road Bridge/Upgrades to Intersections on Haulage Routes	17	24
	Relocation of Weighbridge, Offices and Wheelwash	4	13
	Sound Attenuation Tertiary Crusher Building, Screen 2 and Screen 3	5	13
2 (up to year 5)	Rail Siding Sound Barrier	12	11
	Sound Attenuation of Primary Crusher Building, Secondary Crusher Building, Rail Loading Screen and Rail Loading Discharge Hopper	8	15
	Sound Barriers on Haul Roads	6	11
	8m Sound Wall Processing Area	6	12
3 (year 5-10)	Rail Siding Extension and Bridge Over Rail Siding	10	29
4 (year 10-15)	nil	nil	nil
5 (year 15-20)	nil	nil	nil
6 (year 20-25)	Decommission Crushing and Processing Plant	16	16
7 (year 25-30)	Decommission all quarry infrastructure including offices, weighbridge, portable crushing equipment	10	12
Total Jobs Created			156

Table 2

Yours sincerely



Ashley Smith

2/5/2016

Daracon Group