

MORETON SHIRE COUNCIL

Warwick Road, Yamanto
Locked Mail Bag No. 1 Yamanto 4306
Telephone: (07) 280 7888 Fax: (07) 280 7802



Inquiries: Mr. B. Good,
Telephone: (07) 280-7855,
Ref: 4/7/5, 3806/3, 6570, (L.409823 & L.406454) WCM 39 - 10/94

27 October 1994

ll.B

The Manager
Sellars Holding Pty Ltd
P O Box 25
IPSWICH QLD 4305

SUMMERVILLE + SAILING POCKET.

Dear Sir,

EXTRACTIVE INDUSTRY PERMIT

Pursuant to the provisions of Chapter 25 of Council's Bylaws, permission is hereby granted for Sellars Holdings Limited to carry out extraction of sand and gravel from land described as Lot 2 R.P.131238 and R.L.7677 on Original Portion 4 in the Parish of Sahl situated at E. Summerville's Road Borallon, and from land described as the bed and banks of the Brisbane River adjoining Lot 495 CH.31514, Parish of Brassall situated off Russells Road, Pine Mountain, subject to the following conditions:

(A) In respect of Lot 2 R.P.131238 and R.L.7677 on Original Portion 4 in the Parish of Sahl:

- (1) The area of extraction shall be limited to the area of land hatched in red on Plan Number TP-PA1-2/88(A). No extraction is to take place on the balance of Lot 2 R.P.131238 and R.L.7677 on Original Portion 4 in the Parish of Sahl.
- (2) An undisturbed buffer zone of a minimum width of fifteen (15) metres shall be preserved between the Extractive Industry and the bank of the Brisbane River and any land not being used for Extractive Industry.
- (3) The hours of operation are to be confined to the hours of 6.30 a.m. to 4.30 p.m., Monday to Friday inclusive, from the 1st October to 31st March each year, and between the hours of 7.00 a.m. to 5.00 p.m., Monday to Friday inclusive, during the months April to September each year, with no work being carried out on Saturdays, Sundays, Christmas Day, Good Friday and Anzac Day, unless otherwise varied with the Council's approval.
- (4) The access and haul route shall be via the bridge crossing over the Brisbane River from Lot 2 R.P.131238 and R.L.7677 on Original Portion 4 to Lot 495 CH.31514, over the existing gazetted roads through Lots 1-3 R.P.179136, Lot 536 CH.311202, Lot 507 CH.31768 and via Russells Road, Pine Mountain Road, the Warrego Highway and Mount Crosby Road to the Sellars Holdings Limited Processing Plant at Lower Tivoli.

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- (5) Overburden to be stockpiled on the subject site and used to restore the extraction site following completion of the extraction and in accordance with the completed profile on approved Plan Number TP-PA1-2/88 (B) and to be generally rehabilitated by the planting of native trees and shrubs, to the satisfaction of the Shire Planner and the Shire Engineer.
 - (6) All loading and unloading to take place within the boundaries of the subject property.
 - (7) Compliance with the facts and circumstances set out in the Town Planning Consent Application and with all Council Bylaws and policies, and the Moreton Shire Town Planning Scheme and Plan Number TP-PA1-2/88 (A) and (B).
- (B) In respect of the bed and banks of the Brisbane River adjoining Lot 495 CH.31514 in the Parish of Brassall:
- (1) The area of extraction shall be limited to the area of Crown Land shown on Plan 6598-2 bounded by the Brisbane River and the property boundary of Lot 495 CH.31514, Parish of Brassall. No extraction is to take place on Lot 495 CH.31514 or any other land which is not part of the bed or banks of the Brisbane River.
 - (2) An undisturbed buffer zone of a minimum width of thirty (30) metres shall be preserved between the Extractive Industry and any land not being used for Extractive Industry.
 - (3) The hours of operation are to be confined to the hours 7.00 a.m. to 5.00 p.m., Monday to Saturday inclusive. No work shall be carried out on Sundays, Christmas Day, Good Friday and Anzac Day.
 - (4) The access and haul route shall be as indicated in the Environmental Impact Study and using route A via Russells Road.
 - (5) Where the access and haul route passes through Lots 1-3 R.P.179136 and Lot 536 CH.311202, Lot 507 CH.31768, the route shall be over the existing gazetted roads and surveyed and upgraded in accordance with the details outlined in the Environmental Impact Study.
 - (6) The necessary building approvals being obtained for any structures erected. Such approval to be obtained before construction commences.
 - (7) All other particulars identified in the application and the Environmental Impact Study being complied with.
- (C) In respect Lot 2 on R.P.131238 and R.L.7677 on Original Portion 4 in the Parish of Sahl and the bed and banks of the Brisbane River adjoining Lot 495 CH.31514 in the Parish of Brassall.
- (1) Compliance with "Chapter 25 - Extractive Industries" of Council's Bylaws.
 - (2) Approval from, and compliance with the requirements of the Queensland Department of Primary Industry, Water Resources Commission.

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- (3) Approval to be obtained from the Queensland Department of Environment and Heritage for all discharge of wastes from the operation back into the Brisbane River or any other water course.
- (4) Measures to be taken to satisfactorily prevent dust nuisance to neighbouring properties, to the satisfaction of the Shire Engineer.
- (5) All roads on which vehicular movement occurs being kept watered or oiled to prevent dust nuisance, to the satisfaction of the Shire Engineer.
- (6) The maximum load to be carried is to be restricted to legal limits.
- (7) All excavations to be drained at all times and sloped so that they are self-draining.
- (8) No blasting of material in conjunction with the operation of the Extractive Industry is permitted.
- (9) This application shall comply with the provisions of the "Contaminated Land Act of 1991".
- (10) Any on-site storage of flammable or combustible liquids to comply with and be licensed under the "Flammable and Combustible Liquids Regulations of 1990".
- (11) A batter of not less than four (4) (horizontal) to one (1) (vertical) shall be formed on any excavation face adjoining a buffer zone.
- (12) Contribution to be made towards the normal maintenance of the haul route along Russells Road and Pine Mountain Road, based on estimated maintenance expenditure for the next financial year. The value of such contribution to routine maintenance to be advised by Council at the beginning of each financial year.
- (13) The preparations of such roadworks to be provided for by this contribution is:

Russells Road north of C. Russells Quarry	100 %
Russells Road south of C. Russells Entrance	65 %
Pine Mountain Road south of Russells Road	55 %
Pine Mountain Road north of Russells Road	Nil
- (14) Contribution based on the proportions indicated towards further rehabilitation of Russells Road to be financed over the financial years 1994/95 and 1995/96 to the value of \$13,000 for each of the two years.
- (15) Contributions to be made in quarterly payments.
- (16) Prior to 30th June, 1995, agreement to be reached between the permit holder and the Council on further contributions required for the continued satisfactory performance of the haul road network based on current road performance and the current and projected level of Extractive Industry operations.
- (17) Extractive Industry contribution for the financial year 1994/95 will be:

MAINTENANCE	\$27500 (including rehabilitation)
OR	\$ 6875/quarter

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- (18) This permit shall expire on 30th June, 1995 unless previously cancelled.
- (19) An application for renewal of this permit shall be submitted to the Council not later than 15th May, 1995 and shall be accompanied by the prescribed fee.

Yours faithfully,

sch4-Signature

C D FORBES
Shire Engineer

BDG:TMP

EHP RTI DL Release



Setting the Standard

The Readymix Group
CSR Limited
A.C.N. 000 001 276
301 Coronation Drive
Milton QLD 4064
Australia

PO Box 1143
Milton QLD 4064

Telephone (07) 3364 2800
Facsimile (07) 3364 2857

29 February 1996

Mr N Anderson
Department of Environment and Heritage
G P O Box 2771
BRISBANE ALBERT STREET QLD 4002

Dear Neil

re: **Application for Environmental Authority - CSR Readymix Metropolitan West
Extractive Sites**

Please find enclosed an application for an Environmental Authority for our sites known as Tivoli
Crushing and Screening Plant, Sapling Pocket, Summerville's, Kelly's, Kholo Bridge and
Mutdapilly extraction areas.

These sites contain Environmentally Relevant Activities relating to Extraction of Materials and
Crushing and Screening. The fees to accompany this application have been included in a cheque
submitted with a similar application to Ms Elissaveth Mitsiopoulos.

If you have any questions about the application I would ask that you contact me on 07 3364
2803.

Yours faithfully

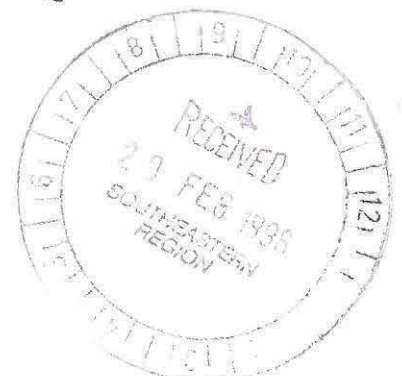
sch4-Signature

A K Carr
Manager, Environment & Development
...\\environ\\licence\\quarry\\metwst_2.doc

ES →

→ e7s.

Dev officer.



RSA No.1937.....
Application No. 5080000455
File No. 961EA257

Name of Applicant: CSR Limited T/A CSR Readymix

Address for Service of Notice (not PO Box):

Street: 11 Floor
Tower Life Building
301 Coronation Drive

Suburb: Brisbane QLD **Post Code:** 4064

Type of ERA: ERA No. 19b, 21c and 60

Decision Due Date: 30 June 1997

Site Details (Refer to application if necessary).

CSR Limited conduct offstream sand extraction at four (4) sites namely Russell's Road, Pine Mountain, Kholo Road, Kholo, Sugarloaf Road, Mutdapilly and also operate crushing and screening of hard rocks and a concrete batching plant at Tivoli in Ipswich City Council. The company has submitted an Application dated January 1996 in support of a single environmental authority. This document fulfills the requirements of an Integrated Environmental Management System but a formal Integrated Environmental Management System will be developed and implemented by the company by 1 September 1997.

The application for an environmental authority was received on 29 February 1996. The decision due date was extended to 30 June 1997 via 24AAii letter. CSR Limited has paid the correct application and licence fee.

Russell's Road Licensed Place (Summerville's - Sand Quarry)

The site comprises Lot 2 on RP 131238, County of Stanley, Parish of Sahl located at Russell's Road Pine Mountain QLD 4305 and is offstream of Brisbane River. Rural residential type developments exist along Russell's Road close to this site. The nearest dwelling is some 600 metres from the extraction site.

Russell's Road Licensed Place (Sapling Pocket - Sand Quarry)

This site is situated at Lot 1 on RP 866821, County of Churchill, Parish of Brassall and Lot 2 on RP 866821, County of Churchill, Parish of Brassall located at Russell's Road (Sapling Pocket) Pine Mountain QLD 4305.

It is bounded on the western side by rural property and on the eastern side by rural property, northern side by Brisbane River and on the southern side by Summerville's Sand Quarry. The land where the extraction of sand is carried *out is zoned extractive*. The nearest dwelling is at approximately 1000 metres from the extraction site.

Kholo Road (Kholo Bridge) Licensed Place (Kholo Bridge Sand Quarry)

This site is situated at Lot 1, RP 189078, County of Stanley, Parish of Kholo and Lot 4, RP 189078, County of Stanley, Parish of Kholo located at Kholo Road (Kholo Bridge) Kholo QLD 4305. The nearest dwelling is at approximately 1600 metres from the extraction site.

Sugarloaf Road (Mutdapilly - Quarry) Licensed Place

This site is situated on Portion 21, RP CC3170, Parish of Mutdapilly, County of Churchill and Portion 235, RP CC3170, Parish of Mutdapilly, County of Churchill located at Sugarloaf Road (Mutdapilly) Mutdapilly QLD 4305. This site is located in a rural type setting. It is bounded by Sugarloaf Road to the east, Sugarloaf Mount Forbes Road to the south, Whendricks Road to the west and north. The nearest dwelling is at approximately

500 metres from the extraction site.

Mount Crosby Road, Tivoli Licensed Place (Tivoli Quarry and Concrete Batching Plant)

This site is situated at Lot 28, RP 216659, County of Stanley, Parish of Chuwar, Lot 2, RP 215979, County of Stanley, Parish of Chuwar, Lot 1, RP 207413, County of Stanley, Parish of Chuwar, Lot 2, RP 49247, County of Stanley, Parish of Chuwar, Lot 1, RP 58274, County of Stanley, Parish of Chuwar and Lot 2, RP 118315, County of Stanley, Parish of Chuwar located at Mt Crosby Road, Tivoli QLD 4305.

This site is bounded on the downhill side by a sporting ground owned by CSR Ltd, at the rear by a grazing property and on the uphill side by residential properties.

Consultation

Site visits were made on 13 October 1995 by Principal Environmental Officer, Elissaveth Mitsiopoulos, to the various sites in the company of Allan Carr of CSR Limited. The Officer agreed to accept the documentation dated January 1996 which accompanied the application in lieu of an Integrated Environmental Management System for the processing of the application. Licence conditions have been imposed that require the company to prepare and implement an IEMS by 1 September 1997.

Draft licence conditions were forwarded to Mr Carr on 27 May 1997 and written comments were received on 29 May 1997. Most of the comments relevant to the sites were incorporated in the draft licence. The company is in agreement with most of the proposed licence conditions.

Issues

(Refer to ERA Issues Sheets if necessary).

Russell's Road Licensed Place (Summerville's - Sand Quarry)

Sand and gravel is extracted from the quarry using an excavator and transported to Tivoli Quarry for crushing and screening into various sizes.

The issues of concern at this site are discussed below:

(i) Sediment Runoff

This only occurs in very heavy rainfall. Licence conditions have been imposed to address this issue.

Russell's Road Licensed Place (Sapling Pocket - Sand Quarry)

Sand and gravel is extracted from the quarry using an excavator and transported to Tivoli Quarry for crushing and screening into various sizes.

The issues of concern at this site are discussed below:

(i) Sediment Runoff

This only occurs in very heavy rainfall. Diversion drains have been constructed to reduce the velocity of flow of the stormwater. Licence conditions have been imposed to address this issue.

Kholo Road Licensed Place (Kholo Bridge Sand Quarry)

Sand and gravel is extracted from the quarry using an excavator and transported to Tivoli Quarry for crushing and screening into various sizes.

The issues of concern at this site are discussed below:

(i) Sediment Runoff

This only occurs in very heavy rainfall. Diversion drains have been constructed to reduce the velocity of flow of the stormwater. Licence conditions have been imposed to address this issue.

Sugarloaf Road (Mutdapilly - Quarry) Licensed Place

Sand and gravel is extracted from the quarry using an excavator and transported to Tivoli Quarry for crushing and screening into various sizes.

The issues of concern at this site are discussed below:

(i) Sediment Runoff

This only occurs in very heavy rainfall. Diversion drains have been constructed to reduce the velocity of flow of the stormwater. Licence conditions have been imposed to address this issue.

Mount Crosby Road, Tivoli Licensed Place (Tivoli Quarry and Concrete Batching Plant)

Sand and gravel from other sites are crushed, screened and stockpiled in various sizes for sale. Also, concrete batching is done on this site as well. Water sprays are operated on the crushing, screening and stockpiles plus access roads to suppress dust.

The issues of concern at this site are discussed below:

(i) Noise Complaints

This site has been the subject of a number of noise complaints from the residents who live approximately 20 to 30 metres from the crushing and screening plant. The company has undertaken a number of noise assessments and has implemented a number of noise control measures to reduce the impact of unwanted noise on the local residents.

(ii) Ground Vibration

This results from the operation of the crushing operations has also been the subject of complaints from the residents. This issue has been similarly addressed.

The draft licence, in Schedule F, imposes complaint driven noise conditions to address noise complaints and also ground vibrations. Schedule H imposes noise and ground vibration monitoring conditions.

(iii) Stormwater

Most stormwater from the site is directed to a sump which is automatically pumped to settlement ponds. These ponds return water to the raw water sump. Excess water is then released to Bremer River. The company regularly monitors the releases from the ponds.

Draft licence conditions in Schedule D impose the water quality characteristics to be met for any such releases. Schedule H imposes monitoring requirements for such releases.

The tivoli site also manufactures concrete and chemical admixtures. No complaints have been received concerning the operation of this plant. All issues are discussed in detail in section 3.1.6 of the company's document entitled "Application for Environmental Authority - Supporting Documentation" dated January 1996.

(iv) Discharge to Land

There is no discharge to land.

(v) Hazardous Goods Stored on Site at Concrete Batching Plant

The company stores products as follows:

- Cement, fly ash, concrete admixtures;
- 200 litres of acid;
- Concrete admixtures in fibre glass tanks - 1 x 400 litres, 1 x 3 000 litres, 1 x 200 litres and 1 x 1 000 litres.

The draft licence contains conditions that require the above products to be stored in bunds.

(vi) **Waste Management**

This is discussed in detail in section 6.0 of the company's document entitled "Application for Environmental Authority - Supporting Documentation" dated January 1996.

Conditions		
Skeleton No.	✓ included ✗ excluded + non-std.	Reasons for non-standard Conditions
A1	✗	
A2	✓	
A3	✓	
NSA1	+	Similar to A4.
A6	✓	
A7	✓	
A7	✓	
A8	✗	
NSA2	+	This condition defines the extent of sand extraction.
D20	✓	Requires protection of vegetation to achieve no erosion to occur and to maintain the visual amenity of the area.
A9	✓	Requires the IEMS to be developed and implemented by 1 September 1997.
A18	✓	
A19	✓	
A20	✓	
NSA3	+	Self explanatory condition.
NSA4	+	This condition requires the company to develop and implement a Site Rehabilitation and Decommissioning Report.
NSA5	+	This condition requires the company to address a number of issues relevant to a Site Rehabilitation and Decommissioning Report.
BNS1	+	This condition requires the company to conduct its activities without causing dust nuisance.
BNS2	+	This condition states measures that the company must implement so as not to cause dust nuisance when conducting its ERAs.
BNS3	+	Requirement for dust control from trucks.
BNS4	+	Dust control.
B13	✓	
B14	✓	
B15	✓	
B16	✓	
NSB5	+	Requirement to rehabilitate the disturbed areas to control dust.
B17	✓	
B18	✓	
B19	✓	
B20	✓	
B21	✓	
B22	✓	

BNS7	+	Condition imposed to minimise emission of particulate matter.
B16	✓	
B77	✓	
C1	✓	
D7	✓	
D8	✓	
NSD1	+	Requires bunding.
NSD2	+	Requires drums to be stored on concrete hardstand area.
D11	✓	
D12	✓	
D13	✓	
D14	✓	
D21	✓	
NSD3	+	This condition requires the licensee to meet water quality characteristics for any stormwater released to any watercourse.
D18	✓	
NSD4	+	This condition requires the licensee to divert runoff from disturbed areas and internal roads to minimise the contact of stormwater with any contaminants that may result in environmental nuisance or harm by addressing the measures stated in the condition.
D15	✓	
D16	✓	
D72	✓	
NSE1	+	Condition imposed to prevent contamination of land.
NSF1	+	This condition is imposed to enable the company to continue conducting its activities but upon receipt of complaints will have to comply with the noise limits imposed. as in employ the best practice for conducting blasting operations.
F5	✓	
F6	✓	
G1	✓	
G2	✓	
G3	✓	
G4	✓	
G5	✓	
G6	✓	
H1	✓	
NSH1	+	Similar to standard condition.
NSH2	+	Requires noise complaints to be investigated upon receipt of complaints or upon request from the administering authority.
NSH4	+	This condition imposes monitoring of ground vibration from specified monitoring locations.
H11	✓	
H12	✓	
NSH4	+	Requires record keeping.
H18	✓	
H19	✓	
H20	✓	Submission of report.
H31	✓	
H33	✓	
H34	✓	Requires dust to be analysed in accordance with AS3580.
I3	✓	
I4	✓	
INS1	+	Aggregates has been defined.
I15	✓	
I16	✓	

I21	✓	
I22	✓	
I23	✓	
INS2	+	Noise sensitive place has been defined.
INS3	+	Commercial place has been defined.
INS4	+	Protected area has been defined.
I11	✓	

Standard Criteria

See Standard Criteria Report 6-4 attached.

Recommendations

It is recommended that the application for the environmental authority, as submitted, be approved and an environmental authority granted, subject to the Schedule of Conditions attached to the environmental authority.

sch4-Signature

Assessing Officer
Parma Nand
Principal Environmental Officer

Date 20/6/97

sch4-Signature

Reviewing Officer
Les Bevis
Manager

Date

20.6.97

Request for Statutory Approval for Extension of time on Application for an Environmental Authority due to Special Circumstances

Subject: CSR Limited
11th Floor Tower Life Building
301 Coronation Drive
Milton, Qld 4064

File No.: 961EA257

Application No.: 5080000456

Decision Due: 15.10.1996 (ie. without extension)

1. Background

CSR Limited has submitted a single application for multiple environmentally relevant activities (ERA's) for several of its sand and gravel extraction and processing operations (refer to Table 1 for more details). The correct fee was submitted with the application and the application was accompanied by an IEMS. Furthermore, the following information applies to the licensing process for the application:

- Section 236 (5) applies; an "IEMS" accompanies application for a mix of previously existing and licensed activities, and previously existing and unlicensed activities;
- the IEMS accompanying the application has been prepared to ISO 14 000 requirements rather than the Departmental guideline; and
- the IEMS accompanying the application is by the company's own submission to be considered as provisional only., although the company also makes a commitment to develop an Environmental Management System to third - party accreditation level at all Queensland sites by 1 April 1998 (for this reason it could be considered that the company qualifies for the issuing of a "provisional" licence).

Table 1: Details of Sites/Activities included in Application under Consideration

Site Name	Location	Description of Activity	ERA's requiring licensing	Previous Licence Number
Sellars Holdings Ltd - Tivoli	Mount Crosby Road, Tivoli	Crushing and screening (hardrock, gravel and sand), blending (pre - mix concrete mfr.), storage & delivery, workshop (ancillary)	ERA 21 (c)	A433

Kelly's Sand Quarry	Cabbage Tree Creek	Dry mining (excavator), product delivery to Tivoli	ERA 19 (b)	? (previously unlicensed)
Summerhill's Sand Quarry	Summerhill (northside of Brisbane River near Camerons Scrub)	Dry mining (excavator), product delivery to Tivoli	ERA 19 (b)	? (previously unlicensed)
Sapling Pocket Sand Quarry	Sapling Pocket (southside of Brisbane River near Cameroon's Scrub)	Dry mining (excavator), product delivery to Tivoli	ERA 19 (b)	? (previously unlicensed)
Kholo Bridge Sand Quarry	Kholo Road, Kholo	Dry mining (excavator), product delivery to Tivoli	ERA 19 (b)	? (previously unlicensed)
Mutdapilly Sand Quarry	Mutdapilly (near The Sugarloaf)	Dry mining (excavator), product delivery to Tivoli	Era 19 (b)	? (previously unlicensed)

The timelines involved in the licensing process for this company are summarised below.

Table 2: Timeframe for Licensing Process for CSR Limited

Indicator	Description
Previously Licensed Activity	as per Table 1
"Existing" Activity (not specified in previous licence)	as per Table 1
Activities requiring licensing under EPAct 1994	as per Table 1
IEMS supplied	Yes (see further comments above)
Application received	
Additional Information requested	not requested
"new" Application Date	not applicable
Decision Due (under S. 236(5) without extension under S.65)	15.10.1996
Decision Due (with extension under S.65)	15.1.1997
Current Status	

It should also be noted that the Tivoli site is subject to many complaints with respect to excessive noise and dust emissions. In order to address these issues a Community Liaison Committee has been set up, involving company representatives, Local Government representatives, community representatives and Department of Environment representatives. The resolution of these issues partly impacts on the types of conditions to be used in the Air and Noise Schedules of the proposed environmental authority (eg. further noise emission data to have been collected in July 1996 following implementation of noise abatement measures by the company have yet to be provided - the delay being

due to a delay in the implementation of noise abatement measures as a result in down - turn of the market)

2. Statutory Requirements

Section 65 of the *Environmental Protection Act 1994* (EP Act) states that the administering authority may extend the time for deciding an application for an environmental authority if it is satisfied there are special circumstances for extending the time.

An extension of time to 15 January 1997 is required by the administering authority to decide the application made by CSR Limited for the single environmental authority for the multiple ERA's carried out at their Tivoli and other sites because of special circumstances. The reasons for the extension are :

- In deciding whether to grant or refuse the application and if granted, what the conditions of an environmental authority should be, the administering authority must consider not only the four elements stated under Section 44 (standard criteria, etc.) of the EP Act, but also what conditions are considered to be necessary or desirable (Section 46 (1) of the EP Act). The Department may wish to consider incorporating conditions desirable or necessary pending the outcome of the collection of noise emission data following the company's incorporation of noise abatement measures.
- Also, further consultation with respect to a draft licence will be required (in particular due to further relevant information to be provided by the company).

3. Recommendation

It is recommended that the request for an extension for the decision on the application be granted. The company shall be notified according to Section 65(2) of the EP Act of the extension of time for the decision to 15 January 1997 and the reasons for the extension.

Contact Officer:

Elissaveth Mitsiopoulos/Parma Nand
Principal Environmental Officers,
Southeastern Region (Licensing)

sch4-Signature

Les Bevis
Manager (Monitoring)
Southeastern Region

Parma Nand/Elissaveth Mitsiopoulos
(07) 3 224 5645/(07) 3 225 8393

961EA257

Environmental Protection Act 1994

Notice of Extension of Time for Decision on Application

Section 65(2)

CSR Limited
11th Floor Tower Life Building
301 Coronation Drive
Milton, Qld 4064

P.O.Box 1143
Milton, Qld 4064

Attention: Mr Allan Carr

Dear Sir,

Re: Application for an integrated Environmental Authority by CSR Limited in respect of the carrying out of extraction of sand and gravel, crushing, screening and washing of the raw material at the Kelly's Sand Quarry, Summerhill's Sand Quarry, Sapling Pocket Sand Quarry, Kholo Bridge Sand Quarry, Mutdapilly Sand Quarry and Tivoli Processing Plant.

An extension of time is required by the administering authority to decide the application because of special circumstances. The administering authority will now decide the application by 15 January 1997. The reasons for the extension are to allow sufficient time for:

- The administering authority to receive and assess the results of the noise survey which was to have been carried out at the Tivoli site in July 1996; and
- consultation with respect to a draft licence to be carried out (in particular due to further relevant information to be provided by the company) and to take into consideration any comments made with respect to the draft licence.

Information relating to a review of the decision or appeals under this Act is copied at the back of this notice.

signed

Delegate of Administering Authority
Environmental Protection Act

date



DEH Southeastern Region - FILE DETAILS		
Ref: 96/EA 257	Part: 1	Folio: 8
Correspondence #	197/7020	
Action Officer	P. Nand	
Related Items		

501 77

29 May 1997

Mr Parma Nand
Senior Environmental Officer
Southeastern Regional Office
Department of Environment
GPO Box 2771
BRISBANE QLD 4001

Dear Parma

Re: Draft Licence for Tivoli and other sites

General:

1. Please remove "Kelly's" from the list of sites.

Consents:

1. Summervilles and Sapling Pocket - Extractive Industries Permit, Ipswich City Council 27/10/97; Waterworks Licence G - 0111070; Operating and Rehabilitation Plan for CSR Sapling Pocket - DPI/CSR December 1995.
2. Kholo - original CQM Permit A2083 has lapsed; company currently has town planning consent application with Ipswich City Council.
3. Mutdapilly - DPI Forestry Timber Case 830092
4. Tivoli - crushing and screening plant, stockpile area has existing lawful non-conforming use rights; silt pond area subject to town planning consent application with Ipswich City Council.

Comments on Specific Conditions:

All conditions acceptable except:-

- BNS3 all primary raw feed is delivered damp and loads don't require covering; all product loads are covered.
- B8 not acceptable; all primary raw feed is delivered damp and consequently does not cause a dust nuisance

Head Office Brisbane

CSR Limited
ACN 000 001 276
PO Box 1143
Milton,
Qld, 4064

Cairns
PO Box 175N
North Cairns,
Qld, 4870

Coffs Harbour
Area Office
Lot 1 Hulberts Rd
Toormina 2452

Nambour
PO Box 1076
Nambour,
Qld, 4560

Northern Rivers
Area Office
Simmons St &
Northcreek Rd
File # 2478

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Fax: (066) 867 240

Ph: (079) 348 244
Fax: (079) 348 207

Ph: (076) 331 411
Fax: (076) 343 874

Ph: (077) 748 466
Fax: (077) 746 833

Release





- B10 not acceptable; all primary raw feed is delivered damp and the crushing and screening process is “wet”
- B11 not acceptable; all primary raw feed is delivered damp and the crushing and screening process is “wet”
- B12 not acceptable; all primary raw feed is delivered damp and the crushing and screening process is “wet”
- B13 not acceptable; routine clean up occurs; no contaminants are released and no environmental harm is caused
- B14 see above
- B16 water truck is used to spray stockpiles; don’t need fixed sprays
- B19 cannot apply to fabric filters (“green bag” type)
- B22 visual alarms are not used in cement or flyash silos; remote sensors are considered best practice in the industry
- BNS7 not necessary; at this plant we have one silo with fabric filter and one with reverse pulse filter; bag filter is used at the cement weigh bin
- NSF1 cannot accept words “must result in levels greater than”; will accept use of table as a guide to make judgements about nuisance; use of restrictive limits which are not possible to meet without costly modification does not reflect the contents of the latest drafts of the Noise EPP.

This is the most succinct licence document I have seen from DoE. Well done!

Yours faithfully

sch4-Signature

A K Carr
Manager, Environment & Development
...\\environ\\licence\\quarry\\metwst_3.doc

DRAFT DOCUMENT ONLY - INTERNAL USE ONLY

Env Auth # 6080000455

ACN

000 001 276

Registered Name
CSR Limited

Environmentally Relevant Activities: 19(b), 21(c) and 60.

Environmental Protection Act 1994

Licence No.

Section 451)Under the provisions of the *Environmental Protection Act 1994* this environmental authority is issued:

To: CSR Limited T/A CSR Readymix

Address: 11 Floor
Tower Life Building
301 Coronation Drive
MILTON QLD 4064

in respect of the following environmentally relevant activity at the following place(s):

Lot 2 on RP 131238, County of Stanley, Parish of Sahl.

located at: RUSSELL'S Road (Summerville's)
PINE MTN QLD 4.305

ERA 19(b) Extraction of rock or other material-extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year; and

in respect of the following environmentally relevant activity at the following place(s):

Lot 1 on RP 866821, County of Churchill, Parish of Brassall and Lot 2 on RP 866821, County of Churchill, Parish of Brassall.

located at: RUSSELL'S Street (Sapling Pocket)
PINE MTN QLD 4.305

ERA 19(b) Extraction of rock or other material-extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year; and

in respect of the following environmentally relevant activity at the following place(s):

Lot 1, RP 189078, County of Stanley, Parish of Kholo and Lot 4, RP 189078, County of Stanley, Parish of Kholo

located at: KHOLLO Road (Kholo Bridge)
KHOLLO QLD 4.305

DRAFT DOCUMENT ONLY - INTERNAL USE ONLY

Env Auth # 5080000455

ACN

000 001 276

Registered Name
CSR Limited

Environmentally Relevant Activities: 19(b), 21(c) and 60.

ERA 19(b) Extraction of rock or other material-extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year; and

in respect of the following environmentally relevant activity at the following place(s):

Portion 21, RP CC3170, Parish of Mutdapilly, County of Churchill and Portion 235, RP CC3170, Parish of Mutdapilly, County of Churchill; and

located at: SUGAR LOAF Road (Mutdapilly)
MUTDAPILLY QLD 4305

ERA 19(b) Extraction of rock or other material-extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year; and
and Lot 4, RP 189078, County of Stanley, Parish of Kholo

in respect of the following environmentally relevant activity at the following place(s):

Lot 3, RP 866821, County of Stanley, Parish of Sahl and Lot 4, RP 866821, County of Stanley, Parish of Sah

located at:Road (Kelly's)
.....QLD 4...

ERA 19(b) Extraction of rock or other material-extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year;

in respect of the following environmentally relevant activity at the following place(s):

Lot 28, RP 216659, County of Stanley, Parish of Chuwar, Lot 2, RP 215979, County of Stanley, Parish of Chuwar, Lot 1, RP 207413, County of Stanley, Parish of Chuwar, Lot 2, RP 49247, County of Stanley, Parish of Chuwar, Lot 1, RP 58274, County of Stanley, Parish of Chuwar, and Lot 2, RP 118315, County of Stanley, Parish of Chuwar.

located at: MT CROSBY Road (Tivoli)
TIVOLI QLD 4305

ERA 21(c) Screening etc. materials - screening, washing, crushing, grinding, milling, sizing or separating material extracted from earth (other than under a mining authority) or by dredging using plant or equipment having a design capacity of but less than 100 000 tonnes or more per year; and

ERA 60 Concrete batching - commercially producing concrete or producing concrete products by mixing cement, sand, rock, aggregate or other similar materials in works



Environmental Protection Act 1994

Notice of Decision to Grant Application for Environmental Authority

Section 45(1)

Enquiries to: Parma Nand
Telephone: (07) 3224 5645
Your Reference:
Our Reference: 961EA257

CSR Limited
11th Floor
Tower Life Building
301 Coronation Drive
MILTON QLD 4064

Attn: Mr Allan Carr

Dear Mr Carr

Re: Application for Environmental Authority by CSR Limited to carry out Environmentally Relevant Activity No. 19(b) - Extraction of rock or other material located at Russell's Road (Summerville), Pine Mountain, Queensland; Environmentally Relevant Activity No. 19(b) - Extraction of rock or other material located at Russell's Road (Sapling Pocket), Pine Mountain, Queensland, Environmentally Relevant Activity No. 19(b) - Extraction of rock or other material located at Kholo Road (Kholo Bridge), Kholo, Queensland, Environmentally Relevant Activity No. 19(b) - Extraction of rock or other material located at Sugarloaf Road (Mutdapilly), Mutdapilly, Queensland and Environmentally Relevant Activities No. 21(c) - Screening etc. materials and No. 60 - Concrete batching located at Mt Crosby Road (Tivoli), Tivoli, Queensland.

Your application for Environmental Authority has been granted.

A copy of the Licence No. **SR584**, which includes the schedule of conditions, is attached.

The Licence takes effect from 31 July 1997.

Information relating to a review of the decision or appeals under this Act is attached to this notice.

sch4-Signature

signed

Delegate of Administering Authority
Environmental Protection Act (1994)

date 26/6/97

Environmental Protection Act 1994

Licence No. SR584

COPY

Section 45(1)

Under the provisions of the *Environmental Protection Act 1994* this environmental authority is issued:

To: CSR Limited

Address: 11th Floor
Tower Life Building
301 Coronation Drive
MILTON QLD 4064

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 2 on RP131238, County of Stanley, Parish of Sahl.

located at: Russell's Road (Summerville)
PINE MOUNTAIN QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 1 on RP866821 and Lot 2 on RP866821, County of Churchill, Parish of Brassall.

located at: Russell's Road (Sapling Pocket)
PINE MOUNTAIN QLD 4305

ERA 19(b) - Extraction of rock or other material-extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 1 on RP189078 and Lot 4 on RP189078, County of Stanley, Parish of Kholo.

located at: Kholo Road (Kholo Bridge)
KHOLO QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

in respect of carrying out the environmentally relevant activity at the following place(s):

Portion 21 on RPCC3170 and Portion 235 on RPCC3170, Parish of Mutdapilly, County of Churchill and Lot 4 on RP189078, County of Stanley, Parish of Kholo.

located at: Sugarloaf Road (Mutdapilly)
MUTDAPILLY QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 28 on RP216659, Lot 2 on RP215979, Lot 1 on RP207413, Lot 2 on RP49247, Lot 1, RP58274 and Lot 2 on RP118315, County of Stanley, Parish of Chuwar.

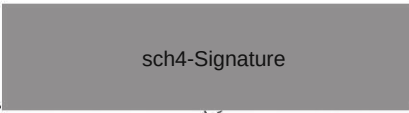
located at: Mt Crosby Road (Tivoli)
TIVOLI QLD 4305

ERA 21(c) - Screening etc. materials - screening, washing, crushing, grinding, milling, sizing or separating material extracted from the earth (other than under a mining authority) or by dredging using plant or equipment having a design capacity of 100 000 tonnes or more per year.

ERA 60 - Concrete batching - commercially producing concrete or producing concrete products by mixing cement, sand, rock, aggregate or other similar materials in works (including mobile works) having a design production capacity of more than 100 tonnes per year.

This licence is issued subject to the conditions set out in the schedules attached to this environmental authority.

This licence takes effect from 31 July 1997.

signed 

W.A. Lotocki
Acting Regional Manager (Environment)
Delegate of Administering Authority
Environmental Protection Act (1994)

date 26/6/97

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

This environmental authority consists of the following schedules -

Schedule A - General Conditions

Schedule B - Air Schedule

Schedule C - Water

Schedule D - Stormwater Management

Schedule E - Land Application

Schedule F - Noise

Schedule G - Waste Management

Schedule H - Monitoring and Reporting

Schedule I - Definitions

Schedule J - Approved Documents

EHP RTI DL Release

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material
21(c)- Screening etc. materials
60 - Concrete batching

SCHEDULE A - GENERAL CONDITIONS**Maintenance of Plant and Equipment**

(A1) The holder of this environmental authority must:

- (i) install all plant and equipment necessary to ensure compliance with the conditions; and
- (ii) maintain such plant and equipment in a proper and efficient condition; and
- (iii) operate such plant and equipment in a proper and efficient manner.

In this condition, "plant and equipment" includes:

- (i) plant and equipment used to prevent and/or minimise the likelihood of environmental harm being caused;
- (ii) devices and structures to contain foreseeable escapes of contaminants and waste;
- (iii) vehicles used to transport waste;
- (iv) devices and structures used to store, handle, treat and dispose of waste;
- (v) monitoring equipment and associated alarms; and
- (vi) backup systems that act in the event of failure of a primary system.

Display of Environmental Authority

(A2) A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.

Records

(A3) Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five (5) years and be available for examination by an authorised person. The record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.

Alterations

(A4) No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority.

An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.

Calibration

(A5) All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.

Sand and Gravel Extraction

(A6) Extraction of sand and gravel must only be carried out from the sand deposits offstream from any watercourse.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

- (A7) There must be no clearing of vegetation or extraction of sand or gravel within any watercourse channel or within 20 metres of the high bank of any watercourse.

Integrated Environmental Management System (IEMS)

- (A8) The holder of this environmental authority must:

- (a) develop and implement an IEMS which provides for the following functions:

- the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and
- staff training and awareness of environmental issues; and
- the conduct of environmental and energy audits; and
- waste prevention, treatment and disposal; and

- (b) lodge with the administering authority on or before 1 August 1997 a brief report describing the progress in developing and implementing the IEMS; and

- (c) on or before 1 September 1997, have completed and implemented the IEMS.

- (A9) A copy of the IEMS must be kept at the licensed place where practical.

- (A10) The holder of this environmental authority must not implement an Integrated Environmental Management System or amend an Integrated Environmental Management System where such implementation or amendment would result in a contravention of any condition of this environmental authority.

- (A11) The holder of this environmental authority must submit details of any amendment of the IEMS to the administering authority with the annual return which immediately follows the enactment of any such amendment.

- (A12) A copy of the IEMS must be kept at the licensed place.

Site Rehabilitation and Decommissioning Report

- (A13) By 5 January 1998 or at least three (3) months prior to ceasing carrying out the environmentally relevant activities at the licensed places, whichever is the earlier, the holder of this environmental authority must prepare and submit a Site Rehabilitation and Decommissioning Report for its relevant licensed place(s) detailing practices and measures necessary to prevent or minimise environmental harm during and after the decommissioning of the environmentally relevant activities.

- (A14) The Site Rehabilitation and Decommissioning Report must address at least the following matters:

- (i) a rehabilitation plan for the site taking into account the final use of the land and relevant environmental considerations including but not limited to:

- the allowance for the maintenance of an adequate buffer distance between the extraction sites and any lakes or ponds incorporating measures to protect creek against erosion susceptibility;

the proposed shaping of the final landform after rehabilitation including an assessment of the stability of all works such as buffer distances and batter slopes;

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

- proposed nature of materials utilised and techniques to be employed for any proposed backfilling of extracted areas such as filling, compaction, topsoiling, overburden return and any other soil amelioration leading to vegetation establishment; and
 - a program and timetable for all works proposed;
- (ii) prevention or minimisation of windblown dust from overburden stockpiles, remnant raw material stockpiles and rehabilitation earthworks;
- (iii) prevention or treatment of the release of contaminated stormwater runoff from remnant material stockpiles and disturbed areas to the bed or banks of any watercourse;
- (iv) proposed rehabilitation measures such as irrigation, weed control, use of local native plant/seedling selections, site security and any other remedial works during the rehabilitation works; and
- (v) submission of written advice to the administering authority within fourteen (14) days of completion of site rehabilitation and decommissioning works.

End of Conditions for Schedule A

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE B - AIR**Dust and Particulate Emissions - General**

- (B1) Dust or particulate matter that will have or is likely to have an adverse effect on people living in or using the surrounding area shall not be permitted to emanate beyond the boundaries of the licensed place.

Dust Control - General

- (B2) The environmentally relevant activities must be managed using all reasonable and practicable measures to minimise the release of wind blown dust to the atmosphere. Reasonable and practicable measures may include but are not limited to:
- (i) restriction of vehicular movement within the licensed place to designated access routes;
 - (ii) minimisation of exposed surface area to that within the current areas of operation;
 - (iii) rehabilitation of completed areas as soon as reasonable and practicable following completion of excavation or other earthworks;
 - (iv) storage, processing and transfer of materials in a moist state;
 - (v) adoption of best industry practice environmental management for the extraction and processing of aggregates; and
 - (vi) use of water cart(s) to suppress dust, as necessary, on site access roads.

Aggregate Transport Trucks - General

- (B3) The holder of this environmental authority must take all reasonable and practicable measures to prevent spillage and/or loss of particulate matter or windblown dust from trucks used for transporting aggregates from the licensed place. Reasonable and practicable measures may include but are not limited to:
- (i) wetting down the load prior to transport;
 - (ii) having the entire load covered with a tarpaulin or similar material for the duration of transport; and
 - (iii) clearing of spillage from side rails, tail gates and draw bars of trucks prior to departure from the licensed place and prior to departure from the premises to which the load has been delivered.

Dust Control - Trafficable Areas

- (B4) Trafficable areas must be maintained, at all times, in a condition which minimises the release of wind-blown or traffic-generated dust.
- (B5) All sealed traffic areas must be cleaned as necessary to minimise the release of dust and particulate matter to the atmosphere.

Conveyor Belts - Tivoli Licensed Place

- (B6) Effective under belt scrapers are to be installed at each transfer point and deposits scraped off are to discharge into the transfer chute and not on the ground.
- (B7) Spillage of aggregate materials in the vicinity of the conveyor shall be removed at least daily, or immediately if visible dust is originating from the spillage.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

- (B8) Aggregate is to be discharged from conveyors to stockpiles using telescopic chutes or other means to minimise free fall of materials and emissions of dust.

Stockpiles - General

- (B9) Water sprays are to be installed and operated on the stockpiles as necessary to minimise the release of dust and particulate matter to the atmosphere.

Rehabilitation - General

- (B10) Rehabilitation must be carried out in such a manner as to minimise releases of wind-blown dust and erosion to the atmosphere.

Concrete Batching Plant - Tivoli Licensed Place**Cement / Flyash Silos**

- (B11) An effective filter is to be in operation on the exhaust from the cement/flyash silos.
- (B12) Silos with a common filter are not to be filled simultaneously.
- (B13) Controls for shaking and cleaning the filter are to be located at ground level.
- (B14) Quick acting shut off valves are to be in all silo fill lines and closure of the valves is to be activated automatically by the detection of a high level in the silo being filled.
- (B15) A test circuit for simulating high level conditions in the silos is to be used before each bulk delivery.
- (B16) Remote sensors are to be in operation to warn of any detection of a high level in the silo(s).
- (B17) All collected material removed from the FFDC must be removed and disposed of in a manner that will not cause the release of contaminants to the atmosphere or to waters.
- (B18) The filling of all silos must be controlled by automatic devices which prevent silos from being filled beyond their nominal capacity.

End of Conditions for Schedule B

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE C - WATER**Release of Contaminants to Waters**

- (C1) Contaminants that will or may cause environmental harm must not be directly or indirectly released from the licensed place to any waters or the bed and banks of any waters except:
- (i) to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government; and
 - (ii) as permitted under the stormwater management schedule.

End of Conditions for Schedule C

EHP RTI DL Release

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE D - STORMWATER MANAGEMENT**Maintenance and Clean up**

- (D1) The maintenance and cleaning of vehicles and any other earthmoving equipment must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or stormwater drainage system.
- (D2) Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillage must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters.

Fuel and Chemical Storage Bunding

- (D3) All liquid fuel and chemical tank storage must be bunded so that the capacity of the bund is sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank within the bund.
- (D4) All chemical and fuel drum storage must be bunded so that the capacity of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.
- (D5) All bunding must be constructed of materials which are impervious to the materials stored.
- (D6) All bunding must be roofed where practicable.
- (D7) Where it is impractical to completely roof a bunded area the holder of this environmental authority must ensure that any stormwater captured within the bund is free from contaminants or wastes prior to any release.
- (D8) For any new bunding installed following the issue of this environmental authority a collection sump must be provided in the floor of the bunding to facilitate the removal of liquids. The bund floor must be graded so that the fall is towards the collection sump.
- (D9) All bunding must be maintained free from gaps or cracks.
- (D10) The bunded areas must be kept clean.

Contained Stormwater Runoff - Tivoli Licensed Place

- (D11) All contaminated stormwater runoff from the stockpile(s) and the areas utilised for the operation of the stockpile(s), internal roadways and processing areas must be collected and treated in the settlement ponds.
- (D12) Stormwater collected in the settlement pond(s) must be reused, as far as reasonably practicable, on the licensed place in a manner which does not harm the environment.

Description of Release From Tivoli Licensed Place

- (D13) The only contaminants permitted to be released from the licensed place in the carrying out of the environmentally relevant activities is the treated stormwater from the settlement pond(s).

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

Contaminated Stormwater Runoff - Release Point

- (D14) Contaminants that will or may cause environmental harm must not be directly or indirectly released from any source on the licensed place to any waters at any location other than the contaminants and sources at the location listed below:

Release Point W1 - treated stormwater from the crushing and screening plant settlement pond (s) released to Sandy Creek at approximately 77.0 AMTD (as shown on aerial photograph entitled "CSR Tivoli: Environmental Monitoring Locations."

Quality Characteristics of Contaminated Stormwater Runoff Released to Waters

- (D15) The quality of contaminants released to waters must comply, at the sampling measurement points, with the following quality characteristics:
- (i) the pH value must not be less than 6.5 and not more than 9.0;
 - (ii) the concentration of Dissolved Oxygen must not be less than 4 milligrams per litre; and
 - (iii) the concentration of suspended solids must not exceed 50 milligrams per litre.

Settlement Ponds - General

- (D16) All practical measures must be taken to prevent effluent short-circuiting in the settlement ponds.
- (D17) Sediment collected in settlement ponds must be removed whenever the volume of the basin is reduced by 50 percent, or on other occasions as required by the administering authority, such as where sediments are contaminated, or where a build-up of sediments has occurred or may occur around the outlet structure.
- (D18) All ponds used for the storage or treatment of contaminants must be constructed and maintained in a manner to ensure the stability of the pond(s) construction.

End of Conditions for Schedule D

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE E - LAND APPLICATION

Release of Contaminants to Land

- (E1) The environmentally relevant activities must be carried out by such practicable means necessary to prevent the release or likelihood of release of contaminants to land which may cause such land to become contaminated land.

End of Conditions for Schedule E

EHP RTI DL Release

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE F - NOISE**Emission of Noise**

- (F1) In the event of a complaint about noise that constitutes annoyance being made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from the licensed place must not result in levels greater than those specified in Table 1 of the noise schedule.

SCHEDULE F - TABLE 1

NOISE LIMITS AT A NOISE SENSITIVE PLACE	
Period	Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj, T}$
7 am - 6 pm	Background noise level plus 5 dB(A)
6 pm - 10 pm	Background noise level plus 5 dB(A)
10 pm - 7 am	Background noise level plus 3 dB(A)
NOISE LIMITS AT A COMMERCIAL PLACE	
Period	Noise Level at a Commercial Place measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj, T}$
7 am - 6 pm	Background noise level plus 10 dB(A)
6 pm - 10 pm	Background noise level plus 10 dB(A)
10 pm - 7 am	Background noise level plus 8 dB(A)

Ground-borne Vibration - Tivoli Licensed Place

- (F2) Ground-borne vibration caused by crushing and screening operations must not exceed a peak particle velocity of five (5) millimetres per second for ground vibrations near houses and low rise residential buildings when measured at any of the affected residences at any of the monitoring points specified in schedule H.
- (F3) The measurement required for condition number F2 must be undertaken at a distance of at least the longest dimension of the foundations of a noise-affected building or structure away from such building or structure, between that building or structure and the site from where the ground - borne vibration is caused.
- (F4) The ground vibration transducer [or array] must be attached to a mass of at least 30 kg to ensure good coupling with the ground where the ground - borne vibration site and measurement site cannot be shown to be on the same underlying strata. The mass shall be buried so that its upper most surface is at the same level as the ground surface.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

- (F5) The ground vibration transducer [or array] must be placed at least the greatest dimension of the foundations of the building or structure away from such building or structure between the building or structure and the site of the ground - borne vibration.

End of Conditions for Schedule F

EHP RTI DL Release

Environmentally Relevant Activities:

- 19(b) -Extraction of rock or other material
21(c)- Screening etc. materials
60 - Concrete batching
-

SCHEDULE G - WASTE MANAGEMENT**General**

- (G1) Procedures must be implemented to ensure that wastes are minimised, recycled, stored, handled and transferred in a proper and efficient manner and that any disposal of waste (excepting any release of waste provided for by a condition of this environmental authority) is to a facility appropriate to accept such waste.
- (G2) The holder of this environmental authority must not:
- (i) burn waste at or on the licensed place; or
 - (ii) allow waste to burn or be burnt at or on the licensed place; or
 - (iii) remove waste from the licensed place and burn such waste elsewhere.
- (G3) Records of trade waste agreements must be made available to an authorised person for inspection on request

Regulated Waste

- (G4) Where regulated waste is removed from the licensed place (other than by a release as permitted under another schedule of this environmental authority), the holder of this environmental authority must monitor and record the following:
- (a) the date, quantity and type of waste removed;
 - (b) name of the waste transporter and or disposal operator that removed the waste; and
 - (c) the intended treatment and/or disposal destination of the waste.
- (Note: Records of documents maintained in compliance with a waste tracking system established under the *Environmental Protection Act 1994* or any other law for regulated waste will be deemed to satisfy this condition.)
- (G5) Regulated waste must not be sent for disposal at any facility without the written approval of the person operating that facility.
- (G6) Procedures must be implemented to ensure that the disposal of wastes generated in carrying out the environmentally relevant activities is to an appropriate facility that accepts such wastes, except as specifically provided for under the conditions of this environmental authority.

End of Conditions for Schedule G

Environmentally Relevant Activities:

- 19(b) -Extraction of rock or other material
 21(c)- Screening etc. materials
 60 - Concrete batching

SCHEDULE H - MONITORING AND REPORTING**Complaint Recording**

- (H1) All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the licensed place must be recorded and kept in a log book with the following details:
- (i) time, date and nature of complaint;
 - (ii) type of communication (telephone, letter, personal etc.);
 - (iii) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded);
 - (iv) response and investigation undertaken as a result of the complaint;
 - (v) name of person responsible for investigating complaint; and
 - (vi) action taken as a result of the complaint investigation and signature of responsible person.

Noise Monitoring

- (H2) For the purposes of investigating a complaint of noise annoyance in conjunction with schedule F - noise of this environmental authority, the measurement of noise levels from the environmentally relevant activities must be undertaken for at least the following descriptors, characteristics and conditions:
- (i) L_{Amax} adj. T;
 - (ii) $L_{Aeq, T}$ (or $L_{A90, T}$);
 - (iii) $L_{AN, T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99);
 - (iv) Max $L_{pA, T}$;
 - (v) $L_{Aeq, T}$;
 - (vi) the level and frequency of occurrence of impulsive or tonal noise;
 - (vii) atmospheric conditions including temperature, relative humidity and wind speed and direction;
 - (viii) effects due to extraneous factors such as traffic noise;
 - (ix) peak particle velocity (for ground vibration monitoring only); and
 - (x) location, date and time of recording.
- (H3) Noise monitoring must be undertaken to investigate any complaint of noise annoyance upon receipt of complaint or upon a written request from the administering authority to carry out such monitoring.

Noise Monitoring - Tivoli Licensed Place

- (H4) For the purpose of checking compliance with condition F1 of the noise schedule F, monitoring and recording of noise from the licensed place must be undertaken to investigate any complaints at the monitoring point described as:

N1- Hayes House

and as marked on aerial photograph entitled "CSR Tivoli - Environmental Monitoring Locations in schedule J.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

Noise Monitoring - Ground Vibration Tivoli Licensed Place

- (H5) For the purpose of checking compliance with condition F2 of the noise schedule F, monitoring and recording of peak particle velocity from crushing and screening plants must be undertaken to investigate any complaints at the monitoring points described as:

V1- Hayes House

and as marked on sketch entitled "CSR Tivoli - Environmental Monitoring Locations" in schedule J.

Quality Assurance - Noise (Complaint and Vibration Monitoring)

- (H6) The method of measurement and reporting of noise levels must comply with the Department of Environment and Heritage Noise Measurement Manual, Second Edition, March 1995, or more recent additions or supplements to that document as become available.
- (H7) The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.

Records

- (H8) Records must be kept of the results of all monitoring of noise levels (including ground vibration levels) and other information required to be recorded in conjunction with such monitoring for a period of at least five (5) years.

Ambient Particulate Monitoring**Tivoli Licensed Place**

- (H9) The holder of this environmental authority must conduct a monitoring program of particulate in ambient air.
- (H10) Sampling must be performed at locations D7, D8, D9 and D10 as marked on aerial photograph entitled "CSR Tivoli - Environmental Monitoring Locations" in schedule J.
- (H11) Analysis of the obtained samples must be made not less than quarterly for the following:
- (i) total water insoluble dust in milligrams; and
 - (ii) dust fallout in milligrams/square metre/day.
- (H12) The samples must be collected in accordance with the requirements of Australian Standard AS 3580.10.1 - 1991 for Ambient Air - Particulate Matter.
- (H13) Records must be kept of the results of all monitoring of particulates in the ambient air for a period of at least three (3) years.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material
21(c)- Screening etc. materials
60 - Concrete batching

Monitoring of Contaminant Releases to Waters - Tivoli Licensed Place

- (H14) The holder of this environmental authority is responsible for the making of determinations of the quality of the contaminants released for the quality characteristics specified in schedule H - Table 1.

Schedule H - Table 1

QUALITY CHARACTERISTIC DETERMINATION	SAMPLING POINTS	FREQUENCY
pH.	W1	Quarterly
Dissolved Oxygen (mg/L)	W1	Quarterly
Suspended Solids (mg/L)	W1	Quarterly

Sampling Point Details for Monitoring Contaminant Releases to Waters

- (H15) Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in condition D15 of this environmental authority must be undertaken at the sampling point described as:

Sampling Point W1 - Overflow from the final settlement pond as marked on aerial photograph in schedule J entitled "CSR Tivoli - Environmental Monitoring Locations" in schedule J.

Quality Assurance

- (H16) All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the Department of Environment and Heritage Water Quality Sampling Manual, 2nd Edition, February 1995, or more recent additions or supplements to that document as such become available.
- (H17) All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
- (H18) Records must be kept of the results of all monitoring of water quality for a period of at least three (3) years.

Exception Reporting

- (H19) The holder of this environmental authority must notify the administering authority in writing of any monitoring result which indicates an exceedance of any licence limit within 28 days of completion of analysis.

Report submission

- (H20) The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the annual return.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material
21(c)- Screening etc. materials
60 - Concrete batching

Notification of Emergencies and Incidents

- (H21) As soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone or facsimile.
- (H22) The notification of emergencies or incidents as required by condition number H21 must include but not be limited to the following:
- (i) the holder of the environmental authority;
 - (ii) the location of the emergency or incident;
 - (iii) the number of the environmental authority;
 - (iv) the name and telephone number of the designated contact person;
 - (v) the time of the release;
 - (vi) the time the holder of the environmental authority became aware of the release;
 - (vii) the suspected cause of the release;
 - (viii) the environmental harm and or environmental nuisance caused, threatened, or suspected to be caused by the release; and
 - (ix) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
- (H23) Not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number H22 in addition to:
- (i) proposed actions to prevent a recurrence of the emergency or incident;
 - (ii) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance; and
 - (iii) the results of any environmental monitoring performed.
- (H24) The written notification required by condition number H23 above must include:
- (i) the full analysis results; and
 - (ii) details of investigation or corrective actions taken; and
 - (iii) any subsequent analysis.

End of Conditions for Schedule H

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material
 21(c)- Screening etc. materials
 60 - Concrete batching

SCHEDULE I - DEFINITIONS

For the purposes of this environmental authority the following definitions apply:

- (11) "Act" means the *Environmental Protection Act 1994*.
- (12) "administering authority" means the Department of Environment or its successor.
- (13) "aggregates" means rock of any size including overburden, sand and/or soil.
- (14) "land" in the "land schedule" of this environmental authority means land excluding waters and the atmosphere.
- (15) "noise" includes vibration of any frequency, whether emitted through air or another medium.
- (16) " $L_{Amax\ adj, T}$ " means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.
- (17) "background noise level" means either -
- $L_{A90, T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or
- $L_{A90, T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.
- (18) " $MaxL_{pA\ T}$ " means the absolute maximum instantaneous A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response.
- (19) "noise sensitive place" means -
- (a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
 - (b) a motel, hotel or hostel; or
 - (c) a kindergarten, school university or other educational institution; or
 - (d) a medical centre or hospital; or
 - (e) a protected area; or
 - (f) a park or gardens.
- (110) "commercial place" means a place used as an office or for business or commercial purposes.
- (111) "protected area" means -
- (a) a protected area under the *Nature Conservation Act 1992*; and/or
 - (b) a marine park under the *Marine Parks Act 1982*; and/or
 - (c) a World Heritage Area.
- (112) "annoyance". In determining what constitutes "annoyance" regard must be had to Australian Standard 1055.2 - 1989 Acoustics - Description and Measurement of Environmental Noise Part 2 Application to specific situations.
- (113) "mg/L" means milligrams per litre.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

-
- (I14) "maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.
- (I15) "minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.
- (I16) "range" means that the measured value of the quality characteristic or contaminant must not be less than the higher release limit stated nor lower than the lower release limit stated.
- (I17) "annoyance". In determining what constitutes "annoyance", regard must be had to Australian Standard 1055.2 - 1989 Acoustics - Description and Measurement of Environmental Noise Part 2 Application to specific situations.
- (I18) "AMTD" means Adopted Middle Thread Distance as per the Queensland Water Resources Commission publication entitled "Atlas of AMTD Maps, January 1984."

End of Conditions for Schedule I

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

Schedule J - APPROVED DOCUMENTS

For the purposes of this environmental authority the following stated document is approved document:

- (1) aerial photograph entitled "CSR Tivoli - Environmental Monitoring Locations."
- (2) CSR Tivoli Extractive Industries Environmental Monitoring Location Descriptions.

End of Conditions for Schedule J

EHP RTI DL Release

CSR Tivoli Extractive Industries Environmental Monitoring Location Descriptions

Water Sampling

- W1 Overflow - Drive through site past plant and stockpiles to creek causeway at the western end of the stockpile area. Sample is taken from the creek on the left hand side of road, approximately 20 metres downstream.
- W2 Pond by pump station - Sample is taken adjacent to pumping station, which is approximately 100 metres upstream from W1.

Noise Monitoring Location

Noise monitoring is undertaken from behind the bund wall on the eastern boundary, directly in front of the back fence of the Hayes residence.

Dust Monitoring

There are four dust monitors located on the site

- D7 - Drive across weighbridge and turn left into car park behind the workshop. Monitor is located near residential fence line at the back of this car park.
- D8 - Approximately 100 metres north of D7, behind the bundwall along the eastern boundary.
- D9 - Across creek in paddock near settlement ponds to the west of the stockpile area.
- D10 - Between the pumping station and the plant, adjacent to the fence line by sporting fields.

Vibration Monitoring

Vibration Monitoring has been undertaken in the back garden area of the Hayes residence. This residence is on the eastern boundary of the site.

Environmental Protection Act 1994

Licence No. SR584

Section 45(1)

Under the provisions of the *Environmental Protection Act 1994* this environmental authority is issued:

To: CSR Limited

Address: 11th Floor
Tower Life Building
301 Coronation Drive
MILTON QLD 4064

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 2 on RP131238, County of Stanley, Parish of Sahl.

located at: Russell's Road (Summerville)
PINE MOUNTAIN QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 1 on RP866821 and Lot 2 on RP866821, County of Churchill, Parish of Brassall.

located at: Russell's Road (Sapling Pocket)
PINE MOUNTAIN QLD 4305

ERA 19(b) - Extraction of rock or other material-extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 1 on RP189078 and Lot 4 on RP189078, County of Stanley, Parish of Kholo.

located at: Kholo Road (Kholo Bridge)
KHOLO QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year.

Environmentally Relevant Activities:

19(b) - Extraction of rock or other material
21(c) - Screening etc. materials
60 - Concrete batching

in respect of carrying out the environmentally relevant activity at the following place(s):

Portion 21 on RPCC3170 and Portion 235 on RPCC3170, Parish of Mutdapilly, County of Churchill and Lot 4 on RP189078, County of Stanley, Parish of Kholo.

located at: Sugarloaf Road (Mutdapilly)
MUTDAPILLY QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 28 on RP216659, Lot 2 on RP215979, Lot 1 on RP207413, Lot 2 on RP49247, Lot 1, RP58274 and Lot 2 on RP118315, County of Stanley, Parish of Chuwar.

located at: Mt Crosby Road (Tivoli)
TIVOLI QLD 4305

ERA 21(c) - Screening etc. materials - screening, washing, crushing, grinding, milling, sizing or separating material extracted from the earth (other than under a mining authority) or by dredging using plant or equipment having a design capacity of 100 000 tonnes or more per year.

ERA 60 - Concrete batching - commercially producing concrete or producing concrete products by mixing cement, sand, rock, aggregate or other similar materials in works (including mobile works) having a design production capacity of more than 100 tonnes per year.

This licence is issued subject to the conditions set out in the schedules attached to this environmental authority.

This licence takes effect from 21 August 1997.

sch4-Signature

signed

R.A. (Bob) Speirs
Regional Director
Delegate of Administering Authority
Environmental Protection Act (1994)

date

22 August 1997



QUEENSLAND

Z 916692

Department of
Environment and Heritage

(Place) SOUTHEASTERN REGION

14 / 9 1998

RECEIVED by ~~Cash~~ Cheque from THE READYMIX GROUP

(WESTPAC - BRISBANE)

) the sum of

ONE HUNDRED & FIFTY

dollars

cents

on account of the Public Service of Queensland, for APPLICATION FOR AMENDMENT of
LICENCE SECTION 49(2) CODE 983

CHEQUES OR OTHER NEGOTIABLE INSTRUMENTS
SUBJECT TO CLEARANCE

Office of

sch4-Signature

\$ 150.00

W116-GOPRINT

Cheques or other negotiable instruments accepted subject to clearance



Environmental
Protection
Agency
Southern Region

Correspondence
199/12030 99008
File No.
961EA257
10
D-WILLIAMS

961EA257

GPO Box 2771
BRISBANE QLD 4001
Telephone enquiry (07) 3224 5641

Environmental Protection Act 1994

Annual Return

Section 68 (1)(b)

Name of Licensee: _____

Licence number: SR 584

CSR LIMITED
ACN 000 001 276
CSR CONSTRUCTION MATERIALS
READYMIX QUARRIES
P.O. BOX 1143
MILTON QLD 4064

Information required by condition of licence

- 1 Are you required to provide information by a condition of licence?
- YES ☒ Go to 2
NO ☐ Go to 4

Note: Check the conditions of your licence. Information may include for example; results of monitoring undertaken since the last Annual return or an assessment report based on the monitoring conducted.

- 2 If you answered YES to 1, have you attached the information to this Annual Return?
- YES ☒ Go to 4
NO ☐ Go to 3

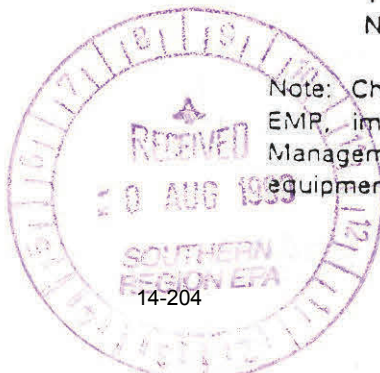
- 3 If you answered NO to 2, attach reasons for not providing the information.

Note: Include in your reasons for not providing the information, whether you intend to submit the information late or do not intend to submit the information at all.

Other measures required by licence condition

- 4 Did a condition of licence require you to take any stated measures during the last 12 months?
- YES ☐ Go to 5
NO ☒ Go to Certification

Note: Check the conditions of your licence. Stated Measures could include: submit an EMP, implement a stormwater management plan or an Integrated Environmental Management System, or install and commission a certain piece of pollution control equipment.



Environmental Protection Act 1994

Licence No. SR584

Section 45(1)

Under the provisions of the *Environmental Protection Act 1994* this environmental authority is issued:

To: CSR Limited

Address: 18 Little Cribb Street
MILTON QLD 4064

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 4 RP 891065, County of Stanley, Parish of Sahl.

located at: Russell's Road (Summerville)
PINE MOUNTAIN QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 1 on RP866821 and Lot 2 on RP866821, County of Churchill, Parish of Brassall.

located at: Russell's Road (Sapling Pocket)
PINE MOUNTAIN QLD 4305

ERA 19(b) - Extraction of rock or other material-extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 1 on RP189078 and Lot 4 on RP189078, County of Stanley, Parish of Kholo.

located at: Kholo Road (Kholo Bridge)
KHOLO QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year.

Environmentally Relevant Activities:

19(b) - Extraction of rock or other material
21(c) - Screening etc. materials
60 - Concrete batching

in respect of carrying out the environmentally relevant activity at the following place(s):

Portion 21 on RPCC3170 and Portion 235 on RPCC3170, Parish of Mutdapilly, County of Churchill and Lot 4 on RP189078, County of Stanley, Parish of Kholo.

located at: Sugarloaf Road (Mutdapilly)
MUTDAPILLY QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 28 on RP216659, Lot 2 on RP215979, Lot 1 on RP207413, Lot 2 on RP49247, Lot 1, RP58274 and Lot 2 on RP118315, County of Stanley, Parish of Chuwar.

located at: Mt Crosby Road (Tivoli)
TIVOLI QLD 4305

ERA 21(c) - Screening etc. materials - screening, washing, crushing, grinding, milling, sizing or separating material extracted from the earth (other than under a mining authority) or by dredging using plant or equipment having a design capacity of 100 000 tonnes or more per year.

ERA 60 - Concrete batching - commercially producing concrete or producing concrete products by mixing cement, sand, rock, aggregate or other similar materials in works (including mobile works) having a design production capacity of more than 100 tonnes per year.

This licence is issued subject to the conditions set out in the schedules attached to this environmental authority.

This licence takes effect from 19 November 1998.

signed
sch4-Signature

R. Wolff
Regional Manager (Environment)
Delegate of Administering Authority
Environmental Protection Act (1994)

date 26/10/98



QUEENSLAND GOVERNMENT

**Department of
Environment and Heritage**

Southeastern Regional Office • Level 15, Jetset Centre, 288 Edward Street • Brisbane Queensland
GPO Box 2771 • BRISBANE QLD 4001 • Telephone (07) 3224 5641 • Facsimile (07) 3225 8723
Visit us online at www.env.qld.gov.au

7

Enquiries to
Telephone
Your reference
Our reference

Ms C Ufer
(07) 3224 5097

5 November, 1998

CSR Limited
11th Floor
Tower Life Building
301 Coronation Drive
MILTON QLD 4064

COPY

1M/21431

Attn: Allan Carr

Dear Mr Carr

Re: Annual Return Licence No. SR584

Thank you for payment of your annual licence fee of \$4,880 and submission of your Annual Return for your activity/ies located at:

Russell's Road (Summerville)
PINE MOUNTAIN QLD 4305.

A copy of the receipt is enclosed for your records.

Your annual licence fee covers the period from 21 August 1998 until 21 August 1999.

Yours sincerely

sch4-Signature

Catherine Ufer
Licence Administration Officer

Department of
Environment and Heritage
SOUTHEASTERN REGION
GPO BOX 2771



Z 916518

(Place) BRISBANE QLD 4001

RECEIVED by Cash/Cheque from READY MIX
(Insert here name of drawer of cheque) BRISBANE the sum of

18/8 1998.

EIGHT HUNDRED & EIGHTY dollars FOUR THOUSAND cents

on account of the Public Service of Queensland, for SECTION 68 (1)(B) ANNUAL
RETURN CODE 980

Office of

CHEQUES		
AMOUNT		
sch4-Signature		

\$ 4880.00

W116-GOPRINT

Cheques or other negotiable instruments accepted subject to clearance

EHP RTI DIVERGENCE

File Record of Annual Return Assessment

DATE of Assessment: 10/9/99

Licensed Site: CSR Limited - Twotri and other sites

Licence Number: SR 584

NOTES

- Suspended solids comply at w1 overflow with limit of 50mg/L.
- Annual return advises Ipswich City Council how monitors this release. These results were not provided with the annual return.
- Dissolved oxygen from this discharge point w1 not provided.
- Amendment to reflect new regulation (ERA No. 2) needs to be done.
- Otherwise, all requirements for the annual return are satisfactory.

sch4-Signature

Leonie Clough

Environmental Protection Act 1994

Licence No. SR584

Section 45(1)

Under the provisions of the *Environmental Protection Act 1994* this environmental authority is issued:

To: CSR Limited

Address: 18 Little Cribb Street
MILTON QLD 4064

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 4 RP 891065, County of Stanley, Parish of Sahl.

located at: Russell's Road (Summerville)
PINE MOUNTAIN QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 1 on RP866821 and Lot 2 on RP866821, County of Churchill, Parish of Brassall.

located at: Russell's Road (Sapling Pocket)
PINE MOUNTAIN QLD 4305

ERA 19(b) - Extraction of rock or other material-extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 1 on RP189078 and Lot 4 on RP189078, County of Stanley, Parish of Kholo.

located at: Kholo Road (Kholo Bridge)
KHOLO QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

in respect of carrying out the environmentally relevant activity at the following place(s):

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located at: Sugarloaf Road (Mutdapilly)
MUTDAPILLY QLD 4305

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located at: Mt Crosby Road (Tivoli)
TIVOLI QLD 4305

ERA 21(c) - Screening etc. materials - screening, washing, crushing, grinding, milling, sizing or separating material extracted from the earth (other than under a mining authority) or by dredging using plant or equipment having a design capacity of 100 000 tonnes or more per year.

ERA 60 - Concrete batching - commercially producing concrete or producing concrete products by mixing cement, sand, rock, aggregate or other similar materials in works (including mobile works) having a design production capacity of more than 100 tonnes per year.

This licence is issued subject to the conditions set out in the schedules attached to this environmental authority.

This licence takes effect from 19 November 1998.

signed

R.Wolff
Regional Manager (Environment)
Delegate of Administering Authority
Environmental Protection Act (1994)

date

Environmental Protection Act 1994

Licence No. SR584

Section 45(1)

Under the provisions of the *Environmental Protection Act 1994* this environmental authority is issued:

To: CSR Limited

Address: 41th Floor
Tower Life Building
301 Coronation Drive
MILTON QLD 4064

18 Cribb St

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 2 on RP131238 Lot 4 RP 891065, County of Stanley, Parish of Sahl.

located at: Russell's Road (Summerville)
PINE MOUNTAIN QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 1 on RP866821 and Lot 2 on RP866821, County of Churchill, Parish of Brassall.

located at: Russell's Road (Sapling Pocket)
PINE MOUNTAIN QLD 4305

ERA 19(b) - Extraction of rock or other material-extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 1 on RP189078 and Lot 4 on RP189078, County of Stanley, Parish of Kholo.

located at: Kholo Road (Kholo Bridge)
KHOLO QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

This environmental authority consists of the following schedules -

Schedule A - General Conditions

Schedule B - Air Schedule

Schedule C - Water

Schedule D - Stormwater Management

Schedule E - Land Application

Schedule F - Noise

Schedule G - Waste Management

Schedule H - Monitoring and Reporting

Schedule I - Definitions

Schedule J - Approved Documents

EHP RTI DL Release

DRAFT

Release

Environmentally Relevant Activities:

- 19(b) -Extraction of rock or other material
 21(c)- Screening etc. materials
 60 - Concrete batching

- (A7) Extraction of material and associated operations must not cause any erosion of the bed or banks of any watercourse or damage any vegetation growing in or on the bed or banks of such watercourse.
- (A8) There must be no extraction of material within any watercourse channel or within that distance of the top of the bank of any watercourse that would result in collapse of and/or washout of the bank of such watercourse provided that under no circumstance must that distance be less than the corresponding minimum distance for the licensed place as prescribed as in Schedule A Table 1.

Schedule A - Table 1

Licensed Place	Minimum distance between extraction and the top of the bank of any watercourse in metres
Russell's Road (Summerville) PINE MOUNTAIN QLD 4305 on Lot 2 on RP131238, County of Stanley, Parish of Sahl.	Whichever is the greater of 20 metres or that distance that corresponds to the limit of extraction delineated on diagram BR635 A4 titled "CSR - BRISBANE RIVER SAPLING POCKET & SUMMERVILLE'S LAND LOCALITY PLAN" contained the document "Operating and rehabilitation plan for CSR Sapling Pocket" dated December 1995 signed for and on behalf of CSR by Mr. Rolly Bendall on 21/12/1995.
Russell's Road (Sapling Pocket) on Lot 1 on P866821 and Lot 2 on RP866821, County of Churchill, Parish of Brassall.	Whichever is the greater of 30 metres or that distance that corresponds to the limit of extraction delineated on diagram BR635 A4 titled "CSR - BRISBANE RIVER SAPLING POCKET & SUMMERVILLE'S LAND LOCALITY PLAN" contained the document "Operating and rehabilitation plan for CSR Sapling Pocket" dated December 1995 signed for and on behalf of CSR by Mr. Rolly Bendall on 21/12/1995.
Kholo Road (Kholo Bridge) KHOLO QLD 4305 on Lot 1 on RP189078 and Lot 4 on RP189078, County of Stanley, Parish of Kholo.	20 metres

- (A9) In any case that any extraction of material takes place within forty (40) metres the top of the bank of any watercourse, that bank must as soon as practicable be re-instated with fill material in a stable manner in accordance with condition A10 and replanted with appropriate native vegetation.

Fill Material

- (A10) The only material to be placed in any void or pond on the licensed place must be clean rock, clay, sand or soil (excluding any contaminated rock, clay, silt and soil).

Integrated Environmental Management System (IEMS)

- (A11) The holder of this environmental authority must:

- (a) develop and implement an IEMS which provides for the following functions:
- the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and
 - staff training and awareness of environmental issues; and
 - the conduct of environmental and energy audits; and
 - waste prevention, treatment and disposal; and

Environmentally Relevant Activities:

19(b) - Extraction of rock or other material

21(c) - Screening etc. materials

60 - Concrete batching

- (iv) proposed rehabilitation measures such as irrigation, weed control, use of local native plant/seedling selections, site security and any other remedial works during the rehabilitation works; and
- (v) submission of written advice to the administering authority within fourteen (14) days of completion of site rehabilitation and decommissioning works.

Rehabilitation

- (A18) The holder of this environmental authority must rehabilitate the licensed place in a manner such that:
- (i) suitable native species of vegetation are planted and established;
 - (ii) potential for erosion of the site is minimised;
 - (iii) the quality of stormwater released from the site is such that releases of suspended solids, turbidity and total dissolved salts are not likely to cause environmental harm;
 - (iv) the likelihood of environmental nuisance being caused by release of dust is minimised; and
 - (v) the final landform is stable and not subject to slumping.
- (A19) Notwithstanding condition A16, rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced within the licensed place.
- (A20) In developing and implementing the Site Rehabilitation and Decommissioning Report, use may be made of any relevant and appropriate plans, procedures, quality assurance manuals or other relevant documents previously prepared.

End of Conditions for Schedule A**DRAFT**

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

Stockpiles - General

- (B9) Water sprays are to be installed and operated on the stockpiles as necessary to minimise the release of dust and particulate matter to the atmosphere.

Rehabilitation - General

- (B10) Rehabilitation must be carried out in such a manner as to minimise releases of wind-blown dust and erosion to the atmosphere.

Concrete Batching Plant - Tivoli Licensed Place**Cement / Flyash Silos**

- (B11) An effective filter is to be in operation on the exhaust from the cement/flyash silos.
- (B12) Silos with a common filter are not to be filled simultaneously.
- (B13) Controls for shaking and cleaning the filter are to be located at ground level.
- (B14) Quick acting shut off valves are to be in all silo fill lines and closure of the valves is to be activated automatically by the detection of a high level in the silo being filled.
- (B15) A test circuit for simulating high level conditions in the silos is to be used before each bulk delivery.
- (B16) Remote sensors are to be in operation to warn of any detection of a high level in the silo(s).
- (B17) All collected material removed from the FFDC must be removed and disposed of in a manner that will not cause the release of contaminants to the atmosphere or to waters.
- (B18) The filling of all silos must be controlled by automatic devices which prevent silos from being filled beyond their nominal capacity.

End of Conditions for Schedule B

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE D - STORMWATER MANAGEMENT**Maintenance and Clean up**

- (D1) The maintenance and cleaning of vehicles and any other earthmoving equipment must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or stormwater drainage system.
- (D2) Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillage must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters.

Fuel and Chemical Storage Bunding

- (D3) All liquid fuel tank storages and chemical tank storages must be bunded so that the capacity of the bund is sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank within the bund.
- (D4) All chemical drum storages and fuel drum storages must be bunded so that the capacity of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.
- (D5) All bunding must be constructed of materials which are impervious to the materials stored.
- (D6) All bunding must be roofed where practicable.
- (D7) The holder of this environmental authority must ensure that any stormwater captured within the bunded area is free from contaminants or wastes prior to any release to waters or to any stormwater drainage system or to any land. Where it is practicable to do so, that captured stormwater must be reused or recycled at the licensed place rather than being released.
- (D8) For any new bunding installed following the issue of this environmental authority a collection sump must be provided in the floor of the bunding to facilitate the removal of liquids. The bund floor must be graded so that the fall is towards the collection sump.
- (D9) All bunding must be maintained free from gaps or cracks.

Contained Stormwater Runoff - Tivoli Licensed Place

- (D10) All contaminated stormwater runoff from the stockpile(s) and the areas utilised for the operation of the stockpile(s), internal roadways and processing areas must be collected and treated in the settlement ponds.
- (D11) Stormwater collected in the settlement pond(s) must be reused, as far as reasonably practicable, on the licensed place in a manner which does not harm the environment.

Description of Release From Tivoli Licensed Place

- (D12) The only contaminants permitted to be released to any waters from the licensed place in the carrying out of the environmentally relevant activities is the treated stormwater from the settlement pond(s).

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE E - LAND APPLICATION

Release of Contaminants to Land

- (E1) The environmentally relevant activities must be carried out by such practicable means necessary to prevent the release or likelihood of release of contaminants to land which may cause such land to become contaminated land.

End of Conditions for Schedule E

EHP RTI DL Release

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

- (F5) The ground vibration transducer [or array] must be placed at least the greatest dimension of the foundations of the building or structure away from such building or structure between the building or structure and the site of the ground - borne vibration.

End of Conditions for Schedule F

EHP RTI DL Release

Environmentally Relevant Activities:

- 19(b) -Extraction of rock or other material
 21(c)- Screening etc. materials
 60 - Concrete batching

SCHEDULE H - MONITORING AND REPORTING**Complaint Recording**

- (H1) All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the licensed place must be recorded and kept in a log book with the following details:
- (i) time, date and nature of complaint;
 - (ii) type of communication (telephone, letter, personal etc.);
 - (iii) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded);
 - (iv) response and investigation undertaken as a result of the complaint;
 - (v) name of person responsible for investigating complaint; and
 - (vi) action taken as a result of the complaint investigation and signature of responsible person.

Noise Monitoring

- (H2) For the purposes of investigating a complaint of noise annoyance in conjunction with schedule F - noise of this environmental authority, the measurement of noise levels from the environmentally relevant activities must be undertaken for at least the following descriptors, characteristics and conditions:
- (i) $L_{Amax, T}$;
 - (ii) $L_{Aeq, T}$ (or $L_{A90, T}$);
 - (iii) $L_{AN, T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99);
 - (iv) $Max L_{pA, T}$;
 - (v) $L_{Aeq, T}$;
 - (vi) the level and frequency of occurrence of impulsive or tonal noise;
 - (vii) atmospheric conditions including temperature, relative humidity and wind speed and direction;
 - (viii) effects due to extraneous factors such as traffic noise;
 - (ix) peak particle velocity (for ground vibration monitoring only); and
 - (x) location, date and time of recording.

- (H3) Noise monitoring must be undertaken to investigate any complaint of noise annoyance upon receipt of complaint or upon a written request from the administering authority to carry out such monitoring.

Noise Monitoring - Tivoli Licensed Place

- (H4) For the purpose of checking compliance with condition F1 of the Noise Schedule F, monitoring and recording of noise from the environmentally relevant activities must be undertaken to investigate any complaint(s) of noise at the monitoring point(s) described as:
- (i) V1- Hayes House, as marked on sketch entitled "CSR Tivoli - Environmental Monitoring Locations" in Schedule J, provided that that monitoring point is relevant to the complaint being investigated; and
 - (ii) If the monitoring point described in H4(i) above is not relevant to the complaint(s) being investigated, at a location or locations relevant to that complaint(s) in accordance with condition H6.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

Schedule H - Table 1

QUALITY CHARACTERISTIC DETERMINATION	SAMPLING POINTS	FREQUENCY
pH.	W1	Quarterly
Dissolved Oxygen (mg/L)	W1	Quarterly
Suspended Solids (mg/L)	W1	Quarterly

Sampling Point Details for Monitoring Contaminant Releases to Waters

- (H15) Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in condition D14 of this environmental authority must be undertaken at the sampling point described as:

Sampling Point W1 - Overflow from the final settlement pond as marked on aerial photograph in schedule J entitled "CSR Tivoli - Environmental Monitoring Locations" in schedule J.

Quality Assurance

- (H16) All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the Department of Environment and Heritage Water Quality Sampling Manual, 2nd Edition, February 1995, or more recent additions or supplements to that document as such become available.
- (H17) All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
- (H18) Records must be kept of the results of all monitoring of water quality for a period of at least three (3) years.

Exception Reporting

- (H19) The holder of this environmental authority must notify the administering authority in writing of any monitoring result which indicates an exceedance of any licence limit within 28 days of completion of analysis.

Report submission

- (H20) The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the annual return.

Notification of Emergencies and Incidents

- (H21) Where the holder of this environmental authority has not given notification to the administering authority under Section 37 of the Environmental Protection Act, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone or facsimile.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE I - DEFINITIONS

For the purposes of this environmental authority the following definitions apply:

- (I1) "Act" means the *Environmental Protection Act 1994*.
- (I2) "administering authority" means the Department of Environment or its successor.
- (I3) "aggregates" means rock of any size including overburden, sand and/or soil.
- (I4) "land" in the "land schedule" of this environmental authority means land excluding waters and the atmosphere.
- (I5) "noise" includes vibration of any frequency, whether emitted through air or another medium.
- (I6) " $L_{Amax\ adj, T}$ " means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.
- (I7) "background noise level" means either -
- $L_{A90, T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or
- $L_{A90, T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.
- (I8) " $MaxL_{pA\ T}$ " means the absolute maximum instantaneous A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response.
- (I9) "noise sensitive place" means -
- (a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
 - (b) a motel, hotel or hostel; or
 - (c) a kindergarten, school university or other educational institution; or
 - (d) a medical centre or hospital ;or
 - (e) a protected area; or
 - (f) a park or gardens.
- (I10) "commercial place" means a place used as an office or for business or commercial purposes.
- (I11) "protected area" means -
- (a) a protected area under the *Nature Conservation Act 1992*; and/or
 - (b) a marine park under the *Marine Parks Act 1982*; and/or
 - (c) a World Heritage Area.
- (I12) "annoyance". In determining what constitutes "annoyance" regard must be had to Australian Standard 1055.2 - 1989 Acoustics - Description and Measurement of Environmental Noise Part 2 Application to specific situations.
- (I13) "mg/L" means milligrams per litre.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

Schedule J - APPROVED DOCUMENTS

For the purposes of this environmental authority the following stated document is approved document:

- (1) aerial photograph entitled "CSR Tivoli - Environmental Monitoring Locations."
- (2) CSR Tivoli Extractive Industries Environmental Monitoring Location Descriptions.

End of Conditions for Schedule J

EHP RTI DL Release

DRAFT



Setting the Standard

The Readymix Group
CSR Limited
A.C.N. 000 001 276
301 Coronation Drive
Milton QLD 4064
Australia

PO Box 1143
Milton QLD 4064

Telephone (07) 3364 2800
Facsimile (07) 3364 2857

29 February 1996

Mr N Anderson
Department of Environment and Heritage
G P O Box 2771
BRISBANE ALBERT STREET QLD 4002

Dear Neil

re: Application for Environmental Authority - CSR Readymix Metropolitan West
Extractive Sites

Please find enclosed an application for an Environmental Authority for our sites known as Tivoli Crushing and Screening Plant, Sapling Pocket, Summerville's, Kelly's, Kholo Bridge and Mutdapilly extraction areas.

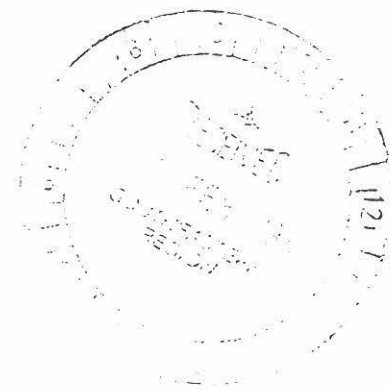
These sites contain Environmentally Relevant Activities relating to Extraction of Materials and Crushing and Screening. The fees to accompany this application have been included in a cheque submitted with a similar application to Ms Elissaveth Mitsiopoulos.

If you have any questions about the application I would ask that you contact me on 07 3364 2803.

Yours faithfully

sch4-Signature

A K Carr
Manager, Environment & Development
...\\environ\\licence\\quarry\\metwst_2.doc





Queensland
Department of Environment
Southeastern Region

GPO Box 2771
BRISBANE QLD 4001
Telephone Enquiry: (07) 3224 5641

Environmental Protection Act 1994

Notice of Decision to Grant Application for Environmental Authority

Section 45(1)

Enquiries to: Parma Nand
Telephone: (07) 3224 5645
Your Reference:
Our Reference: 961EA257

CSR Limited
11th Floor
Tower Life Building
301 Coronation Drive
MILTON QLD 4064

Attn: Mr Allan Carr

Dear Mr Carr

Re: Application for Environmental Authority by CSR Limited to carry out Environmentally Relevant Activity No. 19(b) - Extraction of rock or other material located at Russell's Road (Summerville), Pine Mountain, Queensland; Environmentally Relevant Activity No. 19(b) - Extraction of rock or other material located at Russell's Road (Sapling Pocket), Pine Mountain, Queensland, Environmentally Relevant Activity No. 19(b) - Extraction of rock or other material located at Kholo Road (Kholo Bridge), Kholo, Queensland, Environmentally Relevant Activity No. 19(b) - Extraction of rock or other material located at Sugarloaf Road (Mutdapilly), Mutdapilly, Queensland and Environmentally Relevant Activities No. 21(c) - Screening etc. materials and No. 60 - Concrete batching located at Mt Crosby Road (Tivoli), Tivoli, Queensland.

Your application for Environmental Authority has been granted.

A copy of the Licence No. **SR584**, which includes the schedule of conditions, is attached.

The Licence takes effect from 31 July 1997.

Information relating to a review of the decision or appeals under this Act is attached to this notice.

signed

sch4-Signature

Delegate of Administering Authority
Environmental Protection Act (1994)

date 26/6/97

Environmentally Relevant Activities:

19(b) - Extraction of rock or other material

21(c) - Screening etc. materials

60 - Concrete batching

in respect of carrying out the environmentally relevant activity at the following place(s):

Portion 21 on RPCC3170 and Portion 235 on RPCC3170, Parish of Mutdapilly, County of Churchill and Lot 4 on RP189078, County of Stanley, Parish of Kholo.

located at: Sugarloaf Road (Mutdapilly)
MUTDAPILLY QLD 4305

ERA 19(b) - Extraction of rock or other material - extracting rock (other than rock mined in block or slab form for building purposes), sand (other than foundry sand), clay (other than clay used for its ceramic properties, kaolin or bentonite), gravel loam or other material (other than under a mining authority) from pits or quarries using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes per year.

in respect of carrying out the environmentally relevant activity at the following place(s):

Lot 28 on RP216659, Lot 2 on RP215979, Lot 1 on RP207413, Lot 2 on RP49247, Lot 1, RP58274 and Lot 2 on RP118315, County of Stanley, Parish of Chuwar.

located at: Mt Crosby Road (Tivoli)
TIVOLI QLD 4305

ERA 21(c) - Screening etc. materials - screening, washing, crushing, grinding, milling, sizing or separating material extracted from the earth (other than under a mining authority) or by dredging using plant or equipment having a design capacity of 100 000 tonnes or more per year.

ERA 60 - Concrete batching - commercially producing concrete or producing concrete products by mixing cement, sand, rock, aggregate or other similar materials in works (including mobile works) having a design production capacity of more than 100 tonnes per year.

This licence is issued subject to the conditions set out in the schedules attached to this environmental authority.

This licence takes effect from 31 July 1997.

signed

sch4-Signature

W.A. Lotocki
Acting Regional Manager (Environment)
Delegate of Administering Authority
Environmental Protection Act (1994)

date 26/6/97

Environmentally Relevant Activities:

13(b) - Extraction of rock or other material

21(c) - Screening etc. materials

60 - Concrete batching

This environmental authority consists of the following schedules -

Schedule A - General Conditions

Schedule B - Air Schedule

Schedule C - Water

Schedule D - Stormwater Management

Schedule E - Land Application

Schedule F - Noise

Schedule G - Waste Management

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EHP RTI DL Release

Environmentally Relevant Activities:

- 19(b) - Extraction of rock or other material
 - 21(c) - Screening etc. materials
 - 60 - Concrete batching
-

SCHEDULE A - GENERAL CONDITIONS**Maintenance of Plant and Equipment**

(A1) The holder of this environmental authority must:

- (i) install all plant and equipment necessary to ensure compliance with the conditions; and
- (ii) maintain such plant and equipment in a proper and efficient condition; and
- (iii) operate such plant and equipment in a proper and efficient manner.

In this condition, "plant and equipment" includes:

- (i) plant and equipment used to prevent and/or minimise the likelihood of environmental harm being caused;
- (ii) devices and structures to contain foreseeable escapes of contaminants and waste;
- (iii) vehicles used to transport waste;
- (iv) devices and structures used to store, handle, treat and dispose of waste;
- (v) monitoring equipment and associated alarms; and
- (vi) backup systems that act in the event of failure of a primary system.

Display of Environmental Authority

(A2) A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.

Records

(A3) Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five (5) years and be available for examination by an authorised person. The record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.

Alterations

(A4) No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority.

An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.

Calibration

(A5) All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.

Sand and Gravel Extraction

(A6) Extraction of sand and gravel must only be carried out from the sand deposits offshore from any watercourse.

Environmentally Relevant Activities:

13(b) - Extraction of rock or other material

21(c) - Screening etc. materials

60 - Concrete batching

- (A7) There must be no clearing of vegetation or extraction of sand or gravel within any watercourse channel or within 20 metres of the high bank of any watercourse.

Integrated Environmental Management System (IEMS)

- (A8) The holder of this environmental authority must:
- (a) develop and implement an IEMS which provides for the following functions:
 - the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and
 - staff training and awareness of environmental issues; and
 - the conduct of environmental and energy audits; and
 - waste prevention, treatment and disposal; and
 - (b) lodge with the administering authority on or before 1 August 1997 a brief report describing the progress in developing and implementing the IEMS; and
 - (c) on or before 1 September 1997, have completed and implemented the IEMS.
- (A9) A copy of the IEMS must be kept at the licensed place where practical.
- (A10) The holder of this environmental authority must not implement an Integrated Environmental Management System or amend an Integrated Environmental Management System where such implementation or amendment would result in a contravention of any condition of this environmental authority.
- (A11) The holder of this environmental authority must submit details of any amendment of the IEMS to the administering authority with the annual return which immediately follows the enactment of any such amendment.
- (A12) A copy of the IEMS must be kept at the licensed place.

Site Rehabilitation and Decommissioning Report

- (A13) By 5 January 1998 or at least three (3) months prior to ceasing carrying out the environmentally relevant activities at the licensed places, whichever is the earlier, the holder of this environmental authority must prepare and submit a Site Rehabilitation and Decommissioning Report for its relevant licensed place(s) detailing practices and measures necessary to prevent or minimise environmental harm during and after the decommissioning of the environmentally relevant activities.
- (A14) The Site Rehabilitation and Decommissioning Report must address at least the following matters:
- (i) a rehabilitation plan for the site taking into account the final use of the land and relevant environmental considerations including but not limited to:
 - the allowance for the maintenance of an adequate buffer distance between the extraction sites and any lakes or ponds incorporating measures to protect creek against erosion susceptibility;
- the proposed shaping of the final landform after rehabilitation including an assessment of the stability of all works such as buffer distances and batter slopes;

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

-
- proposed nature of materials utilised and techniques to be employed for any proposed backfilling of extracted areas such as filling, compaction, topsoiling, overburden return and any other soil amelioration leading to vegetation establishment; and
 - a program and timetable for all works proposed;
- (ii) prevention or minimisation of windblown dust from overburden stockpiles, remnant raw material stockpiles and rehabilitation earthworks;
- (iii) prevention or treatment of the release of contaminated stormwater runoff from remnant material stockpiles and disturbed areas to the bed or banks of any watercourse;
- (iv) proposed rehabilitation measures such as irrigation, weed control, use of local native plant/seedling selections, site security and any other remedial works during the rehabilitation works; and
- (v) submission of written advice to the administering authority within fourteen (14) days of completion of site rehabilitation and decommissioning works.

End of Conditions for Schedule A

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE B - AIR**Dust and Particulate Emissions - General**

- (B1) Dust or particulate matter that will have or is likely to have an adverse effect on people living in or using the surrounding area shall not be permitted to emanate beyond the boundaries of the licensed place.

Dust Control - General

- (B2) The environmentally relevant activities must be managed using all reasonable and practicable measures to minimise the release of wind blown dust to the atmosphere. Reasonable and practicable measures may include but are not limited to:
- (i) restriction of vehicular movement within the licensed place to designated access routes;
 - (ii) minimisation of exposed surface area to that within the current areas of operation;
 - (iii) rehabilitation of completed areas as soon as reasonable and practicable following completion of excavation or other earthworks;
 - (iv) storage, processing and transfer of materials in a moist state;
 - (v) adoption of best industry practice environmental management for the extraction and processing of aggregates; and
 - (vi) use of water cart(s) to suppress dust, as necessary, on site access roads.

Aggregate Transport Trucks - General

- (B3) The holder of this environmental authority must take all reasonable and practicable measures to prevent spillage and/or loss of particulate matter or windblown dust from trucks used for transporting aggregates from the licensed place. Reasonable and practicable measures may include but are not limited to:
- (i) wetting down the load prior to transport;
 - (ii) having the entire load covered with a tarpaulin or similar material for the duration of transport; and
 - (iii) clearing of spillage from side rails, tail gates and draw bars of trucks prior to departure from the licensed place and prior to departure from the premises to which the load has been delivered.

Dust Control - Trafficable Areas

- (B4) Trafficable areas must be maintained, at all times, in a condition which minimises the release of wind-blown or traffic-generated dust.
- (B5) All sealed traffic areas must be cleaned as necessary to minimise the release of dust and particulate matter to the atmosphere.

Conveyor Belts - Tivoli Licensed Place

- (B6) Effective under belt scrapers are to be installed at each transfer point and deposits scraped off are to discharge into the transfer chute and not on the ground.
- (B7) Spillage of aggregate materials in the vicinity of the conveyor shall be removed at least daily, or immediately if visible dust is originating from the spillage.

Environmentally Relevant Activities:

19(b) - Extraction of rock or other material

21(c) - Screening etc. materials

60 - Concrete batching

- (B8) Aggregate is to be discharged from conveyors to stockpiles using telescopic chutes or other means to minimise free fall of materials and emissions of dust.

Stockpiles - General

- (B9) Water sprays are to be installed and operated on the stockpiles as necessary to minimise the release of dust and particulate matter to the atmosphere.

Rehabilitation - General

- (B10) Rehabilitation must be carried out in such a manner as to minimise releases of wind-blown dust and erosion to the atmosphere.

Concrete Batching Plant - Tivoli Licensed Place**Cement / Flyash Silos**

- (B11) An effective filter is to be in operation on the exhaust from the cement/flyash silos.
- (B12) Silos with a common filter are not to be filled simultaneously.
- (B13) Controls for shaking and cleaning the filter are to be located at ground level.
- (B14) Quick acting shut off valves are to be in all silo fill lines and closure of the valves is to be activated automatically by the detection of a high level in the silo being filled.
- (B15) A test circuit for simulating high level conditions in the silos is to be used before each bulk delivery.
- (B16) Remote sensors are to be in operation to warn of any detection of a high level in the silo(s).
- (B17) All collected material removed from the FFDC must be removed and disposed of in a manner that will not cause the release of contaminants to the atmosphere or to waters.
- (B18) The filling of all silos must be controlled by automatic devices which prevent silos from being filled beyond their nominal capacity.

End of Conditions for Schedule B

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c) - Screening etc. materials

60 - Concrete batching

SCHEDULE C - WATER**Release of Contaminants to Waters**

- (C1) Contaminants that will or may cause environmental harm must not be directly or indirectly released from the licensed place to any waters or the bed and banks of any waters except:
- (i) to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government; and
 - (ii) as permitted under the stormwater management schedule.

End of Conditions for Schedule C

EHP RTI DL Release

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE D - STORMWATER MANAGEMENT**Maintenance and Clean up**

- (D1) The maintenance and cleaning of vehicles and any other earthmoving equipment must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or stormwater drainage system.
- (D2) Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillage must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters.

Fuel and Chemical Storage Bunding

- (D3) All liquid fuel and chemical tank storage must be bunded so that the capacity of the bund is sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank within the bund.
- (D4) All chemical and fuel drum storage must be bunded so that the capacity of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.
- (D5) All bunding must be constructed of materials which are impervious to the materials stored.
- (D6) All bunding must be roofed where practicable.
- (D7) Where it is impractical to completely roof a bunded area the holder of this environmental authority must ensure that any stormwater captured within the bund is free from contaminants or wastes prior to any release.
- (D8) For any new bunding installed following the issue of this environmental authority a collection sump must be provided in the floor of the bunding to facilitate the removal of liquids. The bund floor must be graded so that the fall is towards the collection sump.
- (D9) All bunding must be maintained free from gaps or cracks.
- (D10) The bunded areas must be kept clean.

Contained Stormwater Runoff - Tivoli Licensed Place

- (D11) All contaminated stormwater runoff from the stockpile(s) and the areas utilised for the operation of the stockpile(s), internal roadways and processing areas must be collected and treated in the settlement ponds.
- (D12) Stormwater collected in the settlement pond(s) must be reused, as far as reasonably practicable, on the licensed place in a manner which does not harm the environment.

Description of Release From Tivoli Licensed Place

- (D13) The only contaminants permitted to be released from the licensed place in the carrying out of the environmentally relevant activities is the treated stormwater from the settlement pond(s).

Environmentally Relevant Activities:

- 19(b) -Extraction of rock or other material
 - 21(c)- Screening etc. materials
 - 60 - Concrete batching
-

Contaminated Stormwater Runoff - Release Point

- (D14) Contaminants that will or may cause environmental harm must not be directly or indirectly released from any source on the licensed place to any waters at any location other than the contaminants and sources at the location listed below:

Release Point W1 - treated stormwater from the crushing and screening plant settlement pond (s) released to Sandy Creek at approximately 77.0 AMTD (as shown on aerial photograph entitled "CSR Tivoli:Environmental Monitoring Locations."

Quality Characteristics of Contaminated Stormwater Runoff Released to Waters

- (D15) The quality of contaminants released to waters must comply, at the sampling measurement points, with the following quality characteristics:
- (i) the pH value must not be less than 6.5 and not more than 9.0;
 - (ii) the concentration of Dissolved Oxygen must not be less than 4 milligrams per litre; and
 - (iii) the concentration of suspended solids must not exceed 50 milligrams per litre.

Settlement Ponds - General

- (D16) All practical measures must be taken to prevent effluent short-circuiting in the settlement ponds.
- (D17) Sediment collected in settlement ponds must be removed whenever the volume of the basin is reduced by 50 percent, or on other occasions as required by the administering authority, such as where sediments are contaminated, or where a build-up of sediments has occurred or may occur around the outlet structure.
- (D18) All ponds used for the storage or treatment of contaminants must be constructed and maintained in a manner to ensure the stability of the pond(s) construction.

End of Conditions for Schedule D

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE E - LAND APPLICATION**Release of Contaminants to Land**

- (E1) The environmentally relevant activities must be carried out by such practicable means necessary to prevent the release or likelihood of release of contaminants to land which may cause such land to become contaminated land.

End of Conditions for Schedule E

EHP RTI DL Release

sch4-Signature

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE F - NOISE**Emission of Noise**

- (F1) In the event of a complaint about noise that constitutes annoyance being made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from the licensed place must not result in levels greater than those specified in Table 1 of the noise schedule.

SCHEDULE F - TABLE 1

NOISE LIMITS AT A NOISE SENSITIVE PLACE	
Period	Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj, T}$
7 am - 6 pm	Background noise level plus 5 dB(A)
6 pm - 10 pm	Background noise level plus 5 dB(A)
10 pm - 7 am	Background noise level plus 3 dB(A)
NOISE LIMITS AT A COMMERCIAL PLACE	
Period	Noise Level at a Commercial Place measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj, T}$
7 am - 6 pm	Background noise level plus 10 dB(A)
6 pm - 10 pm	Background noise level plus 10 dB(A)
10 pm - 7 am	Background noise level plus 8 dB(A)

Ground-borne Vibration - Tivoli Licensed Place

- (F2) Ground-borne vibration caused by crushing and screening operations must not exceed a peak particle velocity of five (5) millimetres per second for ground vibrations near houses and low rise residential buildings when measured at any of the affected residences at any of the monitoring points specified in schedule H.
- (F3) The measurement required for condition number F2 must be undertaken at a distance of at least the longest dimension of the foundations of a noise-affected building or structure away from such building or structure, between that building or structure and the site from where the ground - borne vibration is caused.
- (F4) The ground vibration transducer [or array] must be attached to a mass of at least 30 kg to ensure good coupling with the ground where the ground - borne vibration site and measurement site cannot be shown to be on the same underlying strata. The mass shall be buried so that its upper most surface is at the same level as the ground surface.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

-
- (F5) The ground vibration transducer [or array] must be placed at least the greatest dimension of the foundations of the building or structure away from such building or structure between the building or structure and the site of the ground - borne vibration.

End of Conditions for Schedule F

EHP RTI DL Release

sch4-Signature

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE G - WASTE MANAGEMENT**General**

- (G1) Procedures must be implemented to ensure that wastes are minimised, recycled, stored, handled and transferred in a proper and efficient manner and that any disposal of waste (excepting any release of waste provided for by a condition of this environmental authority) is to a facility appropriate to accept such waste.
- (G2) The holder of this environmental authority must not:
- (i) burn waste at or on the licensed place; or
 - (ii) allow waste to burn or be burnt at or on the licensed place; or
 - (iii) remove waste from the licensed place and burn such waste elsewhere.
- (G3) Records of trade waste agreements must be made available to an authorised person for inspection on request

Regulated Waste

- (G4) Where regulated waste is removed from the licensed place (other than by a release as permitted under another schedule of this environmental authority), the holder of this environmental authority must monitor and record the following:
- (a) the date, quantity and type of waste removed;
 - (b) name of the waste transporter and or disposal operator that removed the waste; and
 - (c) the intended treatment and/or disposal destination of the waste.
- (Note: Records of documents maintained in compliance with a waste tracking system established under the *Environmental Protection Act 1994* or any other law for regulated waste will be deemed to satisfy this condition.)
- (G5) Regulated waste must not be sent for disposal at any facility without the written approval of the person operating that facility.
- (G6) Procedures must be implemented to ensure that the disposal of wastes generated in carrying out the environmentally relevant activities is to an appropriate facility that accepts such wastes, except as specifically provided for under the conditions of this environmental authority.

End of Conditions for Schedule G

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE H - MONITORING AND REPORTING**Complaint Recording**

(H1) All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the licensed place must be recorded and kept in a log book with the following details:

- (i) time, date and nature of complaint;
- (ii) type of communication (telephone, letter, personal etc.);
- (iii) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded);
- (iv) response and investigation undertaken as a result of the complaint;
- (v) name of person responsible for investigating complaint; and
- (vi) action taken as a result of the complaint investigation and signature of responsible person.

Noise Monitoring

(H2) For the purposes of investigating a complaint of noise annoyance in conjunction with schedule F - noise of this environmental authority, the measurement of noise levels from the environmentally relevant activities must be undertaken for at least the following descriptors, characteristics and conditions:

- (i) $L_{Amax, T}$;
- (ii) $L_{Aeq, T}$ (or $L_{A90, T}$);
- (iii) $L_{AN, T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99);
- (iv) $Max L_{pA, T}$;
- (v) $L_{Aeq, T}$;
- (vi) the level and frequency of occurrence of impulsive or tonal noise;
- (vii) atmospheric conditions including temperature, relative humidity and wind speed and direction;
- (viii) effects due to extraneous factors such as traffic noise;
- (ix) peak particle velocity (for ground vibration monitoring only); and
- (x) location, date and time of recording.

(H3) Noise monitoring must be undertaken to investigate any complaint of noise annoyance upon receipt of complaint or upon a written request from the administering authority to carry out such monitoring.

Noise Monitoring - Tivoli Licensed Place

(H4) For the purpose of checking compliance with condition F1 of the noise schedule F, monitoring and recording of noise from the licensed place must be undertaken to investigate any complaints at the monitoring point described as:

N1- Hayes House

and as marked on aerial photograph entitled "CSR Tivoli - Environmental Monitoring Locations in schedule J.

Environmentally Relevant Activities:

- 19(b) - Extraction of rock or other material
 - 21(c) - Screening etc. materials
 - 60 - Concrete batching
-

Noise Monitoring - Ground Vibration Tivoli Licensed Place

- (H5) For the purpose of checking compliance with condition F2 of the noise schedule F, monitoring and recording of peak particle velocity from crushing and screening plants must be undertaken to investigate any complaints at the monitoring points described as:

V1- Hayes House

and as marked on sketch entitled "CSR Tivoli - Environmental Monitoring Locations" in schedule J.

Quality Assurance - Noise (Complaint and Vibration Monitoring)

- (H6) The method of measurement and reporting of noise levels must comply with the Department of Environment and Heritage Noise Measurement Manual, Second Edition, March 1995, or more recent additions or supplements to that document as become available.
- (H7) The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.

Records

- (H8) Records must be kept of the results of all monitoring of noise levels (including ground vibration levels) and other information required to be recorded in conjunction with such monitoring for a period of at least five (5) years.

Ambient Particulate Monitoring**Tivoli Licensed Place**

- (H9) The holder of this environmental authority must conduct a monitoring program of particulate in ambient air.
- (H10) Sampling must be performed at locations D7, D8, D9 and D10 as marked on aerial photograph entitled "CSR Tivoli - Environmental Monitoring Locations" in schedule J.
- (H11) Analysis of the obtained samples must be made not less than quarterly for the following:
- (i) total water insoluble dust in milligrams; and
 - (ii) dust fallout in milligrams/square metre/day.
- (H12) The samples must be collected in accordance with the requirements of Australian Standard AS 3580.10.1 - 1991 for Ambient Air - Particulate Matter.
- (H13) Records must be kept of the results of all monitoring of particulates in the ambient air for a period of at least three (3) years.

Environmentally Relevant Activities:

19(b) - Extraction of rock or other material

21(c) - Screening etc. materials

60 - Concrete batching

Monitoring of Contaminant Releases to Waters - Tivoli Licensed Place

- (H14) The holder of this environmental authority is responsible for the making of determinations of the quality of the contaminants released for the quality characteristics specified in schedule H - Table 1.

Schedule H - Table 1

QUALITY CHARACTERISTIC DETERMINATION	SAMPLING POINTS	FREQUENCY
pH.	W1	Quarterly
Dissolved Oxygen (mg/L)	W1	Quarterly
Suspended Solids (mg/L)	W1	Quarterly

Sampling Point Details for Monitoring Contaminant Releases to Waters

- (H15) Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in condition D15 of this environmental authority must be undertaken at the sampling point described as:

Sampling Point W1 - Overflow from the final settlement pond as marked on aerial photograph in schedule J entitled "CSR Tivoli - Environmental Monitoring Locations" in schedule J.

Quality Assurance

- (H16) All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the Department of Environment and Heritage Water Quality Sampling Manual, 2nd Edition, February 1995, or more recent additions or supplements to that document as such become available.
- (H17) All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
- (H18) Records must be kept of the results of all monitoring of water quality for a period of at least three (3) years.

Exception Reporting

- (H19) The holder of this environmental authority must notify the administering authority in writing of any monitoring result which indicates an exceedance of any licence limit within 28 days of completion of analysis.

Report submission

- (H20) The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the annual return.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material
21(c)- Screening etc. materials
60 - Concrete batching

Notification of Emergencies and Incidents

- (H21) As soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone or facsimile.
- (H22) The notification of emergencies or incidents as required by condition number H21 must include but not be limited to the following:
- (i) the holder of the environmental authority;
 - (ii) the location of the emergency or incident;
 - (iii) the number of the environmental authority;
 - (iv) the name and telephone number of the designated contact person;
 - (v) the time of the release;
 - (vi) the time the holder of the environmental authority became aware of the release;
 - (vii) the suspected cause of the release;
 - (viii) the environmental harm and or environmental nuisance caused, threatened, or suspected to be caused by the release; and
 - (ix) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
- (H23) Not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number H22 in addition to:
- (i) proposed actions to prevent a recurrence of the emergency or incident;
 - (ii) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance; and
 - (iii) the results of any environmental monitoring performed.
- (H24) The written notification required by condition number H23 above must include:
- (i) the full analysis results; and
 - (ii) details of investigation or corrective actions taken; and
 - (iii) any subsequent analysis.

End of Conditions for Schedule H

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

SCHEDULE I - DEFINITIONS

For the purposes of this environmental authority the following definitions apply:

- (11) "Act" means the *Environmental Protection Act 1994*.
- (12) "administering authority" means the Department of Environment or its successor.
- (13) "aggregates" means rock of any size including overburden, sand and/or soil.
- (14) "land" in the "land schedule" of this environmental authority means land excluding waters and the atmosphere.
- (15) "noise" includes vibration of any frequency, whether emitted through air or another medium.
- (16) " $L_{Amax, T}$ " means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.
- (17) "background noise level" means either -
- $L_{A90, T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or
- $L_{A90, T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.
- (18) " $MaxL_{pA, T}$ " means the absolute maximum instantaneous A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response.
- (19) "noise sensitive place" means -
- (a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
 - (b) a motel, hotel or hostel; or
 - (c) a kindergarten, school university or other educational institution; or
 - (d) a medical centre or hospital; or
 - (e) a protected area; or
 - (f) a park or gardens.
- (110) "commercial place" means a place used as an office or for business or commercial purposes.
- (111) "protected area" means -
- (a) a protected area under the *Nature Conservation Act 1992*; and/or
 - (b) a marine park under the *Marine Parks Act 1982*; and/or
 - (c) a World Heritage Area.
- (112) "annoyance". In determining what constitutes "annoyance" regard must be had to Australian Standard 1055.2 - 1989 Acoustics - Description and Measurement of Environmental Noise Part 2 Application to specific situations.
- (113) "mg/L" means milligrams per litre.

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

-
- (I14) "maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.
- (I15) "minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.
- (I16) "range" means that the measured value of the quality characteristic or contaminant must not be less than the higher release limit stated nor lower than the lower release limit stated.
- (I17) "annoyance". In determining what constitutes "annoyance", regard must be had to Australian Standard 1055.2 - 1989 Acoustics - Description and Measurement of Environmental Noise Part 2 Application to specific situations.
- (I18) "AMTD" means Adopted Middle Thread Distance as per the Queensland Water Resources Commission publication entitled "Atlas of AMTD Maps, January 1984."

End of Conditions for Schedule I

Environmentally Relevant Activities:

19(b) -Extraction of rock or other material

21(c)- Screening etc. materials

60 - Concrete batching

Schedule J - APPROVED DOCUMENTS

For the purposes of this environmental authority the following stated document is approved document:

- (1) aerial photograph entitled "CSR Tivoli - Environmental Monitoring Locations."
- (2) CSR Tivoli Extractive Industries Environmental Monitoring Location Descriptions.

End of Conditions for Schedule J

EHP RTI DL Release

CSR Tivoli Extractive Industries Environmental Monitoring Location Descriptions

Water Sampling

- W1 Overflow - Drive through site past plant and stockpiles to creek causeway at the western end of the stockpile area. Sample is taken from the creek on the left hand side of road, approximately 20 metres downstream.
- W2 Pond by pump station - Sample is taken adjacent to pumping station, which is approximately 100 metres upstream from W1.

Noise Monitoring Location

Noise monitoring is undertaken from behind the bund wall on the eastern boundary, directly in front of the back fence of the Hayes residence.

Dust Monitoring

There are four dust monitors located on the site

- D7 - Drive across weighbridge and turn left into car park behind the workshop. Monitor is located near residential fence line at the back of this car park.
- D8 - Approximately 100 metres north of D7, behind the bundwall along the eastern boundary.
- D9 - Across creek in paddock near settlement ponds to the west of the stockpile area.
- D10 - Between the pumping station and the plant, adjacent to the fence line by sporting fields.

Vibration Monitoring

Vibration Monitoring has been undertaken in the back garden area of the Hayes residence. This residence is on the eastern boundary of the site.



QUEENSLAND GOVERNMENT

Department of Environment

Southeastern Regional Office • Level 15, Jetset Centre, 288 Edward Street • Brisbane Queensland
GPO Box 2771 • BRISBANE QLD 4001 • Telephone (07) 3224 5641 • Facsimile (07) 3225 8723

21 August 1997

Enquiries to R.A. Speirs
Telephone (07) 3225 8484
Your reference
Our reference 961EA257

1M/11934
COPY

CSR Limited
18 Little Cribb Street
MILTON QLD 4064

Attn: Mr Allan Carr

Dear Mr Carr

Re: Review of the original decision to grant an Environmental Authority to CSR Limited to carry out various Environmentally Relevant Activities

A decision has been made by the administering authority to vary the original decision relating to Licence No. SR584.

The reasons for the review decision are attached. A copy of the amended licence is attached. In making the review decision, the administering authority did not have the opportunity to meet and discuss variations to conditions with the Company. There may therefore be instances where further amendments can be discussed and agreed. There is the opportunity in such cases to seek further amendment of the licence conditions with the agreement of the administering authority under Section 50 of the Act.

An extract from the Environmental Protection Act 1994 setting out your rights of appeal in relation to the review decision is also attached.

Yours sincerely

sch4-Signature

R A (Bob) Speirs
Regional Director
(Southeastern)

REASONS FOR REVIEW

1.1 Condition A1 (Maintenance of Plant and Equipment) - Decision

Vary condition A1 as below.

(A1) The holder of this environmental authority must:

- (i) maintain all plant and equipment in a proper and efficient condition; and
- (ii) operate such plant and equipment in a proper and efficient manner.

In this condition, "plant and equipment" includes:

- (i) plant and equipment used to prevent and/or minimise the likelihood of environmental harm being caused, for example dust control systems, stormwater management systems, erosion control measures;
- (ii) devices and structures to contain foreseeable escapes of contaminants and waste, for example bunding, pond walls;
- (iv) devices and structures used to store, handle, treat and dispose of waste, for example settlement ponds;
- (v) monitoring equipment and associated alarms; and
- (vi) backup systems that act in the event of failure of a primary system.

Reason

Conditions imposed under Section 46 of the Act must be necessary or desirable to achieve the object of the Act. The object of the Act is achieved by, inter alia, imposing conditions that would cause the holder of the environmental authority to carry out the subject environmentally relevant activities in a manner in which the likelihood of environmental harm being caused is prevented or minimised.

It is reasonable that the applicant be required to install and operate that plant and equipment necessary to ensure that the various licence requirements are met, for example bunding, stormwater diversion systems, settlement ponds and pollution control equipment such as dust control equipment. The condition has been varied to give examples of the types of plant and equipment to which the condition may relate.

1.2 Condition A4 (Alterations) - Decision

Confirm condition A4.

Reason

Conditions imposed under Section 46 of the Act must be necessary or desirable to achieve the object of the Act. The object of the Act is achieved by, inter alia, imposing conditions that would cause the holder of the environmental authority to carry out the subject environmentally relevant activities in a manner in which the likelihood of environmental harm being caused is prevented or minimised.

This condition is necessary and desirable to prevent adopted methods of operation being changed if the changes will increase the risk of environmental harm, or, are likely to substantially increase the risk of environmental harm. Such a condition is envisaged by Section 46(3)(b) of the Act.

The licence is issued on the basis of risk factors identified by the applicant at the time of the application and conditions developed accordingly. This condition is reasonable as it prevents the licensee increasing those risk factors without the administering authority assessing whether the conditions of the licence are still appropriate. The condition incorporates an example of what may constitute a significant increase.

1.3 Conditions A13 and A14 (Site Rehabilitation and Decommissioning Report) - Decision

Confirm Conditions A13 and A14. Also insert conditions A15, A16 and A17 as below.

Rehabilitation

(A15) The holder of this environmental authority must rehabilitate the licensed place in a manner such that:

- (i) suitable native species of vegetation are planted and established;
- (ii) potential for erosion of the site is minimised;
- (iii) the quality of stormwater released from the site is such that releases of suspended solids, turbidity and total dissolved salts are not likely to cause environmental harm;
- (iv) the likelihood of environmental nuisance being caused by release of dust is minimised; and
- (v) the final landform is stable and not subject to slumping.

(A16) Notwithstanding condition A13, rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced within the licensed place.

(A17) In developing and implementing the Site Rehabilitation and Decommissioning Report, use may be made of any relevant and appropriate plans, procedures, quality assurance manuals or other relevant documents previously prepared.

Reason

The focus of the licence conditions is on the minimisation of the likelihood of environmental harm being caused.

The applicant carries out extractive activities. These activities have significant potential to cause environmental harm if the site is not effectively and appropriately rehabilitated and decommissioned, for example through erosion, establishment of weed species, instability of final landform, river bank instability, impacts on water quality of receiving waters and any future uses of waters bodies created, failure of adequate establishment of vegetation, dust nuisance, and impacts on stormwater quality.

Conditions imposed under Section 46 of the Act must be necessary or desirable to achieve the object of the Act. The object of the Act is achieved by imposing conditions that would cause the holder of the environmental authority to carry out the subject environmentally relevant activities in a manner in which the likelihood of environmental harm being caused is prevented or minimised.

It also reasonable and necessary and desirable to require the applicant to prepare and implement a Site Rehabilitation and Decommissioning Program addressing the matters prescribed in condition A14.

The program is required to address the matters subject to that condition as such matters are influential upon the effectiveness of any rehabilitation program. It is considered that the condition A14 adequately specifies or states the site rehabilitation matters relevant to the prevention of causation of environmental harm or environmental nuisance that must be considered in preparing the Site Rehabilitation and Decommission Report.

The reporting requirements of condition A14(v) are also considered reasonable and necessary and desirable to permit the administering authority to satisfy itself rehabilitation is undertaken effectively.

The applicant is concerned that "the administering authority should specify or state the measures to be taken for site rehabilitation relevant to the prevention of causation of environmental harm or environmental nuisance". The conditions have thus been varied to specify or state the environmental performance objectives that must be met in carrying out the rehabilitation (condition A15) and the times frames over which this must occur (i.e. progressively with extraction - condition A16).

It is reasonable and necessary and desirable to require the applicant to rehabilitate and decommission the site in a manner that meets the environmental performance objectives prescribed in condition A15 and to do this progressively as works are staged, as required by condition A16. Condition A15 requires progressive rehabilitation which is necessary and desirable to ensure that the potential impacts from the carrying out of the environmentally relevant activity are minimised during the development of the site.

Condition A17 is included as it is reasonable to allow the applicant to utilise any relevant documents previously produced in preparing the Site Rehabilitation and Decommission Report.

It is considered that requirements for site rehabilitation are consistent with achieving the object of the Act and that rehabilitation is a relevant matter for necessary and desirable licence conditions imposed under Section 46.

1.4 Conditions B1 B2 B3 B4 and B5 (Dust) - Decision

Confirm Conditions B1 B2 B4 and B5. Vary condition B3 as below.

Dust Control - Transport Trucks

- (B3) The holder of this environmental authority must take all reasonable and practicable measures necessary to prevent spillage and/or loss of particulate matter and minimise windblown dust from trucks used for transporting extracted materials from the licensed place. Reasonable and practicable measures may include but are not limited to:
- (i) wetting down the load prior to transport;
 - (ii) having the entire load covered with a tarpaulin or similar material for the duration of transport; and
 - (iii) clearing of any spillage from side rails, tail gates and draw bars of trucks prior to departure from the licensed place and prior to departure from the premises to which the load has been delivered.

Reason

Conditions imposed under Section 46 of the Act must be necessary or desirable to achieve the object of the Act. The object of the Act is achieved by, inter alia, imposing conditions that would cause the holder of the environmental authority to carry out the subject environmentally relevant activities in a manner in which the likelihood of environmental harm being caused is prevented or minimised.

The potential to release dust and particulate matter from the environmentally relevant activities undertaken at the licensed place arises due to earth moving operations, large areas of the place not being vegetated, vehicle movements, material storage, and screening activities.

The protection of air quality in these circumstances is reasonable and necessary and desirable. The objective of condition B1 is to protect areas outside the applicant's premises, including residential areas, from such releases that would cause an unreasonable adverse effects e.g. excessive dust fallout. The condition will apply at places occupied by persons that may be adversely affected by such dust and particulate matter as the condition applies at places that people are living or using.

Condition B2 requires the taking of reasonable and practicable measures to minimise the release of wind blown dust to the atmosphere and gives non-obligatory examples of those reasonable and practicable measures. Condition B4 and B5 are reasonable and necessary and desirable to minimise releases of dust and particulate matter to the atmosphere from vehicle movements.

Conditions B3, B4, and B5 are necessary and desirable to minimise the likelihood of environmental harm being caused due to dust and particulate emissions and spillage of material. It is the intention of the administering authority that the holder of the environmental authority address both spillage and/or loss of material carried and generation of dust.

1.5 Condition B10 (Rehabilitation - General)- Decision

Confirm Condition B10

Reason

This condition requires that site rehabilitation be carried out in a manner such that emissions of dust and erosion from disturbed areas is minimised. Such a condition is reasonable and necessary and desirable to minimise the likelihood of environmental harm being caused. Dust emissions can cause nuisance as discussed above. Erosion can adversely affect environmental values of receiving waters and lead to transport of sediment into stormwater drains and waters with adverse consequences such as impaired water quality and siltation of watercourses.

1.6 Condition C1 (Release of Contaminants to Waters) - Decision

Confirm Condition C1.

Reason

The focus of the licence conditions is on the minimisation of the likelihood of environmental harm being caused. The condition is necessary and desirable to ensure that contaminants that may cause environmental harm, for example wastewater from the screening plant and or settlement ponds, is not released to any waters except as provided by the relevant licence condition.

Condition D2 (Maintenance and Clean up)- Decision

Confirm Condition D2.

Reason

The focus of the licence condition is on the minimisation of the likelihood of environmental harm being caused. The condition is necessary and desirable to ensure that spillage of wastes, contaminants or other materials are cleaned up as quickly as practicable and not cleaned up by hosing, sweeping or otherwise releasing those wastes, contaminants or materials to the stormwater drainage system, roadside gutters or water.

The decision is consistent with the waste management evaluation procedure that the administering authority must consider under Section 15 of the *Environmental Protection (Water) Policy 1997*. The condition is reasonable and necessary and desirable.

1.8 Conditions D6 (Fuel and Chemical Storage Bunding) - Decision

Confirm Condition D6.

Reason

The minimisation of contamination of stormwater is consistent with waste minimisation principles. These include that it more desirable to minimise generation of a waste in the first instance than to treat/dispose of it subsequently. The condition only applies if it is practicable to roof a bunded area. The decision is consistent with the waste management evaluation procedure that the administering authority must consider under Section 15 of the *Environmental Protection (Water) Policy 1997*. The condition is reasonable and necessary and desirable.

1.9 Condition D10 (Fuel and Chemical Storage Bunding) - Decision

Delete Condition D10

Reason

The condition is not necessary or desirable in this case.

1.10 Condition D12 (Contained Stormwater Runoff - Tivoli Licensed Place) - Decision

Confirm Condition D12.

Extractive industries generally use large amounts of water in controlling dust. This condition is necessary and desirable to encourage the applicant to adopt sound waste minimisation practices to achieve waste reduction and reuse of wastewater from the ponds in suppressing dust. The decision is consistent with the waste management evaluation procedure that the administering authority must consider under Section 15 of the *Environmental Protection (Water) Policy 1997*. The condition is reasonable and necessary and desirable.

1.11 Condition D16 (Settlement Ponds - General) - Decision

Confirm Condition D16.

Reason

This condition is necessary and desirable to ensure that there is adequate residence time in the settling ponds to allow suspended particulate matter to settle before the wastewater is released from the ponds and to avoid the risk of environmental harm resulting from sediment laden stormwater entering stormwater drains and/or watercourses. The condition is a reasonable and practicable measure to minimise the likelihood of environmental harm being caused.

1.12 Condition E1 (Release of Contaminants to Land) - Decision

Confirm Condition E1.

Reason

The focus of the licence conditions is on the minimisation of the likelihood of environmental harm being caused. The applicant handles materials that have potential to cause land to become contaminated land e.g. oils, fuels. The applicant also stores hazardous substances at the concrete batching plant at Tivoli. Another potential source of contamination is storage of waste oil. It is reasonable and necessary and desirable to require that such substances must not be permitted to contaminate the land. The condition is necessary and desirable and in accordance with sound environmental management practice for the handling of such materials.

1.13 Condition G1 - Decision

Confirm Condition G1

Reason

The focus of the licence conditions is on the minimisation of the likelihood of environmental harm being caused from waste disposal. It is reasonable, necessary and desirable to require that the applicant ensures that wastes are minimised, recycled, stored, handled and transferred in a proper and efficient manner and that any disposal of waste (excepting any release of waste provided for by a condition of this environmental authority) is to a facility appropriate to accept such waste.

1.14 Condition G6 (Regulated Waste) - Decision

Confirm Condition G6.

Reason

The applicant generates waste from the carrying out of the environmentally relevant activities. It is reasonable and necessary and desirable to require the applicant to implement procedures that ensure that disposal of such waste is to an appropriate facility that accepts such waste (except as otherwise provided).

2.1 Condition A3 (Record keeping) - Decision

Vary Condition A3 as below.

- (A3) Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five (5) years, except as otherwise provided, and be available for examination by an authorised person. The record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.

Reason

The condition only refers to records and documents required to be kept by the conditions of the environmental authority. The keeping of such records and provision of such information is considered necessary and desirable and such condition provided for by Section 46(3)(a)(v) of the Act. The condition has been varied to include the term "except as otherwise provided" to allow for conditions H13 and H18 which specify 3 years.

2.2 Condition H8 - Decision

Confirm Condition H8.

Reason

The condition only refers to results of monitoring required to be carried out by the conditions of the environmental authority. The keeping of such records and provision of such information is considered necessary and desirable and such condition provided for by Section 46(3)(a)(v) of the Act.

2.3 Condition H13 - Decision

Confirm Condition H13.

Reason

The condition only refers to results of monitoring required to be carried out by the conditions of the environmental authority. The keeping of such records and provision of such information is considered necessary and desirable and such condition provided for by Section 46(3)(a)(v) of the Act.

2.4 Condition H18 - Decision

Confirm Condition H18.

Reason

The condition only refers to results of monitoring required to be carried out by the conditions of the environmental authority. The keeping of such records and provision of such information is considered necessary and desirable and such condition provided for by Section 46(3)(a)(v) of the Act.

2.5 Condition H20 - Decision

Confirm Condition H20.

Reason

The condition only refers to results of monitoring required to be carried out by the conditions of the environmental authority. The keeping of such records and provision of such information is considered necessary and desirable and such condition provided for by Section 46(3)(a)(v) of the Act.

3.1 Condition (A6) - Offstream extraction - Decision

Confirm Condition A6.

Reason

Condition A6 restricts extraction to locations off-stream from the Brisbane River. The applicant has made application to extract material from locations adjacent to these watercourses rather than in them i.e. off-stream extraction rather than on-stream. No assessment has been made for the extraction of material from any other adjacent locations on the subject sites.

Extraction in other areas is not the subject of this application. It is reasonable for the administering authority to limit the extent of extraction to that subject to the application. Having regard to the standard criteria under Section 44 of the Act, this condition is necessary and desirable as the matters as set out for consideration cannot be considered for alternate areas.

The focus of condition is to minimise the likelihood of environmental harm being caused. No assessment of the environmental implications has been made of extraction of material from any other locations such as instream locations.

The condition is reasonable, necessary and desirable in order to protect water quality, reduce the likelihood for bank slumping and/or erosion and to protect the riparian values of the Brisbane River.

3.2 Conditions (A7)- Maintenance of Riparian Buffer Zone - Decision

Vary condition A7 as below.

Insert new conditions A7a, A7b and A7c as below.

(A7) Extraction of material and associated operations must not cause any erosion of the bed or banks of any watercourse or damage any vegetation growing in or on the bed or banks of such watercourse.

(A7a) There must be no extraction of material within any watercourse channel or within that distance of the top of the bank of any watercourse that would result in collapse of and/or washout of the bank of such watercourse provided that under no circumstance must that distance be less than the corresponding minimum distance for the licensed place as prescribed as in Schedule A Table 1.

Schedule A Table 1

Licensed Place	Minimum distance between extraction and the top of the bank of any watercourse in metres
Russell's Road (Summerville) PINE MOUNTAIN QLD 4305 on Lot 2 on RP131238, County of Stanley, Parish of Sahl.	Whichever is the greater of 20 metres or that distance that corresponds to the limit of extraction delineated on diagram BR635 A4 titled "CSR - BRISBANE RIVER SAPLING POCKET & SUMMERVILLE'S LAND LOCALITY PLAN" contained the document "Operating and rehabilitation plan for CSR Sapling Pocket" dated December 1995 signed for and on behalf of CSR by Mr. Rolly Bendall on 21/12/1995.
Russell's Road (Sapling Pocket) on Lot 1 on P866821 and Lot 2 on RP866821, County of Churchill, Parish of Brassall.	Whichever is the greater of 30 metres or that distance that corresponds to the limit of extraction delineated on diagram BR635 A4 titled "CSR - BRISBANE RIVER SAPLING POCKET & SUMMERVILLE'S LAND LOCALITY PLAN" contained the document "Operating and rehabilitation plan for CSR Sapling Pocket" dated December 1995 signed for and on behalf of CSR by Mr. Rolly Bendall on 21/12/1995.
Kholo Road (Kholo Bridge) KHOLO QLD 4305 on Lot 1 on RP189078 and Lot 4 on RP189078, County of Stanley, Parish of Kholo.	20 metres

(A7b) In any case that any extraction of material takes place within forty (40) metres the top of the bank of any watercourse, that bank must as soon as practicable be re-instated with fill material in a stable manner in accordance with condition A7c and replanted with appropriate native vegetation.

Fill Material

(A7c) The only material to be placed in any void or pond on the licensed place must be clean rock, clay, sand or soil (excluding any contaminated rock, clay, silt and soil).

Reason

See reasons for condition A6 concerning the importance of maintaining riparian buffer zones to protect environmental values. Condition A7 is relevant to providing this protection. The original condition A7 included a common buffer distance of 20 metres between the top of the bank of the watercourse and areas of extraction. The applicant commented that extraction may be able to be done lawfully at other distances. The applicant also notes that the condition should relate to the causation of environmental harm e.g. erosion, washout of banks.

The universal buffer zone contained in original condition A7 has been deleted and a new condition A7 inserted that links the requirement for a buffer zone to that width required to prevent the potential environmental harm expected from encroachment of extraction upon rivers banks. That condition also stipulates an absolute minimum buffer zone that must be provided for the three licensed places that front the Brisbane River.

The minimum requirements are related to the requirements of the relevant permits issued under the *Water Resources Act 1989* (e.g. the 21/12/95 plan of operations cited) and the relevant extractive industry permit issued by the Local Authority (e.g. 30 metre requirement cited, refer condition 32 of permit). The 20 metre minimum as negotiated with the applicant has been retained respect of the Kholo Bridge Sand Quarry.

The administering authority considers that a vegetated riparian buffer zone of 40 metres is in accordance with best practice environmental management and common industry practice to protect environmental values.

Notwithstanding, this it is noted that the applicant's plan of operations includes in some cases extraction within that distance and reinstatement with fill material. This has been provided for by the inclusion of conditions A7b and A7c which would permit the applicant to extract within these areas, subject to condition A7a, and reinstatement of the area as soon as practicable with clean fill material as defined in condition A7c. If it is intended to use waste material to fill the site, the necessary application must be made for the relevant ERA e.g. ERA 74. Such conditions are reasonable, necessary and desirable.

4.0 Condition A10 (Amendment of IEMS) - Decision

Confirm Condition A10.

Reason

The focus of the condition is the minimisation of the likelihood for environmental harm as a result of carrying out the ERAs. It is necessary and desirable that the holder of the environmental authority not amend the IEMS resulting in a contravention of any conditions of the environmental authority.

It is not the intention of the administering authority to permit a person to implement an IEMS or amend an IEMS that contravenes other licence requirements. It is the role of the IEMS to ensure that an effective environmental management system is in place to implement the standards and environmental objectives imposed under the licence.

5.0 Conditions A13 and A14 (Site Rehabilitation and Decommissioning Report)- Decision

Confirm Conditions A13 and A14.

Reason

Refer reasons in preceding Section 1.3

6.1 Condition B6 (Conveyor Belts - Tivoli Licensed Place)

Confirm Condition B6.

Decision

The applicant carries out screening activities that involve use of conveyor belts. The installation of belt scrapers on the conveyor belts is sound environmental practice for the minimisation of spillage of material from conveyors. Such spillage may cause dust when the material dries and cause contamination of stormwater. The condition is reasonable, necessary and desirable.

6.2 Condition B7 (Conveyor Belts - Tivoli Licensed Place)

Confirm Condition B7.

Decision

The applicant carries out screening activities that involve use of conveyor belts. Potential exists for spillage of material from conveyor systems. The cleaning of such spillage is sound environmental practice for the management of such systems. Such spillage may cause dust when the material dries and cause contamination of stormwater. The condition is reasonable and necessary or desirable.

6.3 Condition B8 (Conveyor Belts - Tivoli Licensed Place)

Vary Condition B8 as below.

- (B8) Materials must be conveyed in a moist state so as to minimise the likelihood of release of dust and particulate matter to the atmosphere.

Decision

The applicant has advised that material is conveyed in a moist state. As such, potential for generation of dust as material is discharged from the end of conveyor system is minimised compared to when such material conveyed in a dry state. It would thus not be necessary to require telescopic chutes. The condition has been varied to reflect the applicant's stated method of operation. The varied condition is reasonable and necessary and desirable to minimise release of dust and particulate matter to the atmosphere.

7. Condition D7 (Fuel and Chemical Storage Bunding) - Decision

Vary Condition D7 as below.

- (D7) The holder of this environmental authority must ensure that any stormwater captured within the bunded area is free from contaminants or wastes prior to any release to waters or to any stormwater drainage system or to any land. Where it is practicable to do so, that captured stormwater must be reused or recycled at the licensed place rather than being released.

Reason

This condition is necessary and desirable to minimise the likelihood of environmental harm being caused by release of stormwater captured within bunded areas. Such stormwater may become contaminated with the materials stored within bunded areas e.g. fuel, oil, acid. The condition has been varied to incorporate the applicant's preferred drafting with the inclusion of the requirement not to release contaminated stormwater to land as such could cause land contamination e.g. from fuels, oils.

The decision is consistent with the waste management evaluation procedure that the administering authority must consider under Section 15 of the *Environmental Protection (Water) Policy 1997*. Extractive industries, screening activities and concrete batching plants generally use large amounts of water in controlling dust. The condition is reasonable and necessary and desirable.

8.1 Condition D13 (Description of Release from the Licensed Place) - Decision

Vary Condition D13 as below.

Description of Release From Tivoli Licensed Place

(D13) The only contaminants permitted to be released to any waters from the licensed place in the carrying out of the environmentally relevant activities is the treated stormwater from the settlement pond(s).

Reason

This condition is reasonable and necessary and desirable as it limits and defines the contaminants that may be released to waters (i.e. treated stormwater from the settlement ponds). It is not the intention of the administering authority to permit any other releases from the licensed place.

8.2 Condition D14 (Contaminated Stormwater Runoff - Release Point) - Decision

Confirm Condition D14.

Reason

This condition is reasonable and necessary and desirable as it defines the location of the release point and contaminant sources (i.e. treated stormwater from the settlement ponds). It is not the intention of the administering authority to permit any other releases from the licensed place.

9. Condition D15 (Quality Characteristics of Contaminated Stormwater Runoff Released to Waters) - Decision

Vary Condition D15 as below.

(D15) The quality of contaminants released to waters must comply, at the sampling point W1 specified in Schedule H, with the following quality characteristics:

- (i) the pH value must not be less than 6.5 and not more than 9.0;
- (ii) the concentration of Dissolved Oxygen must not be less than 4 milligrams per litre; and
- (iii) the concentration of suspended solids must not exceed 50 milligrams per litre.

Reason

It is necessary and desirable that the applicant be required to comply with the quality characteristics specified in condition D15 to minimise the likelihood of environmental harm being caused. It is also necessary and desirable to specify a monitoring point at which compliance with the condition is to be checked. The condition has been varied for consistency with the relevant conditions of Schedule H.

10.0 Condition F1 (Emission of Noise) - Decision

Confirm Condition F1

Reason

It is reasonable and desirable to require that the activity be carried out in compliance with reasonable noise limits in the event that a justifiable complaint situation arises concerning noise emissions from the licensed place. The Tivoli licensed place has in the past be subject to complaints of excessive noise that have been considered reasonably made. The condition does not operate until after the receipt of a complaint. To account for the degree of interference caused by the noise that is the subject of the complaint, a definition of "annoyance" is provided in Schedule I that references the relevant Australian Standard.

The amendments proposed by the applicant are not considered necessary or desirable. The suggestion of the applicant would result in the inclusion of a licence condition lacking finality as it would purport to grant an authorised person a right to pronounce upon what might be appropriate sound pressure levels. The stated sound pressure levels in Schedule F Table 1 provide greater certainty to the applicant as to what are appropriate sound pressure levels in the event of a subject complaint.

11. Condition F2 (Ground Borne Vibration - Tivoli Licensed place) - Decision

Confirm Condition F2.

Reason

The licence conditions require compliance with best practice environmental management to minimise the likelihood of adverse effects being caused by the impact of ground borne vibrations on sensitive premises and people living in or using the surrounding area. Such a requirement is reasonable and necessary and desirable.

The condition is necessary and desirable because this site has been the subject of ground borne vibration type complaints from surrounding residential premises. The aim of this condition is to protect nearby residents from unreasonable levels of ground borne vibration. Complaints regarding ground borne vibration can be expected at peak particle velocities of 5mm/sec and above.

12.1 Condition H3 (Noise Monitoring) - Decision

Confirm Condition H3.

Reason

It is reasonable to ensure that the applicant can be required to carry out noise monitoring to investigate noise complaints that are not frivolous or vexatious. This condition is a necessary and desirable trigger for the assessment of noise about which complaints that are not frivolous or vexatious have been made. It is reasonable that the administering authority be required to request in writing that such monitoring be undertaken.

The applicant carries out several environmentally relevant activities (ERAs) and has made a single application to carry them out. It is a requirement that the integrated environmental management system address "the monitoring of releases of contaminants into the environment and an environmental assessment of the releases" (see Sections 41 & 42 of the *Environmental Protection (Interim) Regulation 1995*).

12.2 Condition H9 (Ambient Particulate Monitoring - Tivoli Licensed Place) - Decision

Confirm Condition H9.

Reason

The focus of the licence conditions is on the minimisation of the likelihood of environmental harm being caused. The applicant carries out crushing and screening activities and raw material and product storage at the Tivoli licensed place. Such activities have potential to cause dust nuisance to nearby residents.

This condition is thus necessary and desirable because of the potential for the release of dust and particulate matter to the atmosphere to cause excessive dust dust fallout and environmental nuisance. Therefore it is reasonable to require the applicant to carry out a program of ambient particulate monitoring to ensure that dust fall is within reasonable levels.

The applicant carries out several environmentally relevant activities (ERAs) and has made a single application to carry them out. It is a requirement that the integrated environmental management system address "the monitoring of releases of contaminants into the environment and an environmental assessment of the releases" (see Sections 41 & 42 of the *Environmental Protection (Interim) Regulation 1995*).

12.3 Condition H14 (Monitoring of Contaminant Releases to Waters - Tivoli Licensed Place) - Decision

Confirm Condition H14.

Reason

The focus of the licence conditions is on the minimisation of the likelihood of environmental harm being caused. The applicant releases wastewater in wet weather events. It is reasonable to require that such releases be monitored to ensure that prescribed limits for the release are met. The stated measures required by the condition are necessary and desirable and in accordance with sound environmental management practice for the effective management of settlement pond systems.

The applicant carries out several environmentally relevant activities (ERAs) and has made a single application to carry them out. It is a requirement that the integrated environmental management system address "the monitoring of releases of contaminants into the environment and an environmental assessment of the releases" (see Sections 41 & 42 of the *Environmental Protection (Interim) Regulation 1995*).

12.4 Condition H2 (Noise Monitoring) - Decision

Confirm Condition H2.

Reason

Condition H2 requires that the applicant carry out noise monitoring to investigate noise complaints that are not frivolous or vexatious. This condition is a necessary and desirable trigger for the assessment of noise about which complaints that are not frivolous or vexatious have been made. The noise descriptors and information required to be measured/obtained under the condition are necessary and desirable in analysing the annoyance caused by and

factors underlying noise complaints. It is reasonable that the administering authority be required to request in writing that such monitoring be undertaken.

The applicant's suggested amendment is not considered necessary or desirable. By implication, the administering authority must measure noise in accordance with the condition if checking compliance with that condition.

The focus of the licence conditions is on minimisation of the likelihood of environmental harm. The reporting of the type of information as required by the conditions is consistent with this and is necessary and desirable. The carrying out and reporting of a stated monitoring program of this type as required by the condition is provided for by Section 46(3)(a)(iii) of the Act.

12.5 Condition H4 (Noise Monitoring Tivoli Licensed Place) - Decision

Vary Condition H4 as below.

Noise Monitoring - Tivoli Licensed Place

- (H4) For the purpose of checking compliance with condition F1 of the Noise Schedule F, monitoring and recording of noise from the environmentally relevant activities must be undertaken to investigate any complaint(s) of noise at the monitoring point(s) described as:
- (i) V1- Hayes House, as marked on sketch entitled "CSR Tivoli - Environmental Monitoring Locations" in Schedule J, provided that that monitoring point is relevant to the complaint being investigated; and
 - (ii) If the monitoring point described in H4(i) above is not relevant to the complaint(s) being investigated, at a location or locations relevant to that complaint(s) in accordance with condition H6.

Reason

Monitoring of noise emissions is considered necessary and desirable given the potential impacts of this nature caused by the applicant's activities. It is reasonable to require monitoring in the applicant's established monitoring location(s) if such are relevant to the matter being investigated and at an alternate relevant location if such is not the case.

It is reasonable to require that such noise emissions be monitored to ensure that prescribed limits for noise emissions are met. The applicant carries out several environmentally relevant activities (ERAs) and has made a single application to carry them out. It is a requirement that the integrated environmental management system address "the monitoring of releases of contaminants into the environment and an environmental assessment of the releases" (see Sections 41 & 42 of the *Environmental Protection (Interim) Regulation 1995*).

12.6 Condition H5 (Monitoring - Ground Vibration Tivoli Licensed Place) - Decision

Vary Condition H5 as below.

Monitoring - Ground Borne Vibration Tivoli Licensed Place

- (H5) For the purpose of checking compliance with condition F2 of the Noise Schedule F, monitoring and recording of peak particle velocity from crushing and screening plants must be undertaken to investigate any complaint(s) of ground borne vibration at the monitoring point(s) described as:
- (i) V1- Hayes House, as marked on sketch entitled "CSR Tivoli - Environmental Monitoring Locations" in Schedule J, provided that that monitoring point is relevant to the complaint being investigated; and
 - (ii) If the monitoring point described in H5(i) above is not relevant to the complaint(s) being investigated, at a location or locations relevant to that complaint(s) in accordance with condition F5.

Reason

The title has been varied to refer to "ground borne vibration" and be consistent with Condition F2. Monitoring of ground borne vibration is considered necessary and desirable given the potential impacts of this nature caused by the applicant's activities. It is reasonable to require monitoring in the applicant's established monitoring location(s) if such are relevant to the matter being investigated and at an alternate relevant location if such is not the case.

It is reasonable to require that such ground borne vibration levels are monitored to ensure that prescribed limits are met. The applicant carries out several environmentally relevant activities (ERAs) and has made a single application to carry them out. It is a requirement that the integrated environmental management system address "the monitoring of releases of contaminants into the environment and an environmental assessment of the releases" (see Sections 41 & 42 of the *Environmental Protection (Interim) Regulation 1995*).

12.7 Condition H10 (Ambient Particulate Monitoring Tivoli Licensed place) - Decision

Confirm Condition H10.

Reason

The focus of the licence conditions is on the minimisation of the likelihood of environmental harm being caused. The applicant carries out crushing and screening activities and raw material and product storage at the Tivoli licensed place. Such activities have potential to cause dust nuisance to nearby residents.

This condition is thus necessary and desirable because of the potential for the release of particulate matter to the atmosphere causing dust fallout and environmental nuisance. Therefore it is reasonable to require the applicant to carry out a program of ambient particulate monitoring.

The applicant carries out several environmentally relevant activities (ERAs) and has made a single application to carry them out. It is a requirement that the integrated environmental management system address "the monitoring of releases of contaminants into the environment and an environmental assessment of the releases" (see Sections 41 & 42 of the *Environmental Protection (Interim) Regulation 1995*).

It is reasonable to require the applicant to carry out monitoring at the applicant's established monitoring locations.

12.8 Condition H11 (Ambient Particulate Monitoring Tivoli Licensed Place) - Decision

Confirm Condition H11.

Reason

See reasons for condition H10 as to why dust monitoring is necessary and desirable. The applicant's suggested amendment is not considered necessary or desirable. The effect of the applicant's suggested amendment would be that monitoring could be performed, for example, once every three years and satisfy the suggested frequency requirement of "not more than quarterly". It is the intention of the administering authority that sampling be carried out as often as necessary but not less than quarterly (which equates to a minimum of four monitoring events per year).

12.9 Condition H12 (Ambient Particulate Monitoring Tivoli Licensed Place) - Decision

Confirm Condition H12.

Reason

See reasons for condition H10 as to why dust monitoring is necessary and desirable. It is also reasonable, necessary and desirable the dust monitoring be undertaken in accordance with the methods prescribed in the appropriate standard (i.e. AS 3580.10.1 - 1991). The applicant's suggested amendment is not considered necessary or desirable. By implication, the administering authority must collect samples in accordance with the relevant standard referenced by the condition H12 if assessing dust impacts under the licence.

12.10 Condition H15 (Sampling Point Details for Monitoring Contaminant Releases to Waters) - Decision

Confirm Condition H15.

Reason

It is necessary and desirable to define the sampling points at which determinations of the quality of contaminants releases must occur. The applicant's suggested amendment is not considered necessary or desirable. By implication, the administering authority must sample from the same defined sampling points if checking compliance with the condition.

13.1 Condition H19 (Exception Reporting) - Decision

Confirm Condition H19

Reason

The focus of the licence conditions is on minimisation of the likelihood of environmental harm. The reporting of the type of information as required by the conditions is consistent with this and is necessary and desirable. The reporting of the type of information as required by the condition is provided for by Section 46(3)(a)(v) of the Act.

13.2 Conditions H21, H22, H23 - Notification of Emergencies and Incidents - Decision

vary conditions H21, H22 and H23 as follows.

Notification of Emergencies and Incidents

- (H21) Where the holder of this environmental authority has not given notification to the administering authority under Section 37 of the Environmental Protection Act, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone or facsimile.
- (H22) Where the holder of this environmental authority has not given notification to the administering authority under Section 37 of the Environmental Protection Act, the notification of emergencies or incidents as required by condition number **H21** must include but not be limited to the following:
- (a) The holder of the environmental authority;
 - (b) the location of the emergency or incident;
 - (c) the number of the environmental authority;
 - (d) the name and telephone number of the designated contact person;
 - (e) the time of the release;
 - (f) the time the holder of the environmental authority became aware of the release;
 - (g) the suspected cause of the release;
 - (h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and
 - (i) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
- (H23) Where the holder of this environmental authority has not given notification to the administering authority under Section 37 of the Environmental Protection Act, not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number **H22** in addition to:
- (a) proposed actions to prevent a recurrence of the emergency or incident; and
 - (b) outcomes of actions taken at the time to prevent or minimise environmental harm; and
 - (c) the results of any environmental monitoring performed.

Reason

The focus of the licence conditions is on minimisation of the likelihood of environmental harm. The reporting of the type of information as required by the conditions is consistent with this and is necessary and desirable. The reporting of the type of information as required by the condition is provided for by Section 46(3)(a)(v) of the Act.

13.3 Condition H24 - Decision

Confirm condition H24.

Reason

The focus of the licence conditions is on minimisation of the likelihood of environmental harm. The reporting of the type of information as required by the conditions is consistent with this and is necessary and desirable. The reporting of the type of information as required by the condition is provided for by Section 46(3)(a)(v) of the Act.

14. Conditions D3 and D4 - Decision

Vary conditions D3 and D4 as below.

- (D3) All liquid fuel tank storages and chemical tank storages must be bunded so that the capacity of the bund is sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank within the bund.
- (D4) All chemical drum storages and fuel drum storages must be bunded so that the capacity of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.

Reason

The conditions have been varied to correct grammatical errors and reflect the intention of the administering authority that such storages be bunded.

Additional Variations

- Re-number conditions to restore sequential numbering.
- Restore cross referencing of conditions.
- Vary heading to Conditions H6 and H7 to delete the reference to vibration as the cited manual does not cover vibration monitoring. i.e. "Quality Assurance - Noise Complaint Monitoring"
- Correct spelling of "quarterly" in Schedule H Table 1.