

Planning Report

Development Application for Material Change of Use - Extraction (up to 100,000 tonnes of material)

Prepared For: Cassowary Coast Regional Council
Client: Daraleigh Pty Ltd
Our Reference: J000143
Site: Moody Road, Vasa Views (Part of Lot 5 on SP235661)
Date: July 2014

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Signed on behalf of

Gilvear Planning Pty Ltd



Kristy Gilvear, Director

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1.0 Introduction

Gilvear Planning Pty Ltd have been engaged by Daraliegh Pty Ltd (the 'owners' and 'applicants') to prepare this report in support of a Development Application to Cassowary Coast Regional Council, seeking a Development Permit for Material Change of Use (Extraction).

Specifically, the development involves:

- Progressive extraction of hard rock resource up to 100,000 tonnes of material per year;
- Screening/processing area;
- Stockpiling of processed material for distribution;
- Permanent sediment basins and bund walls for stormwater and erosion and sediment control;
- Associated internal haulage routes; and
- Weighbridge and site amenities (office etc.).

Attachment 1 includes the proposed operational plan; metes and bounds description and site plan.

The site, being part of Lot 5 on SP235661, has an area of 69.6ha, and represents that area included within the Extractive Resource Site Designation (ERS) within the relevant Planning Scheme. This site is described by metes and bounds description, as confirmed within **Attachment 1**. Whilst the site has a total area of 69.6 hectares, although the proposed extraction activities are limited to 30 hectare area, as shown on the Operational Plan included within **Attachment 1**.

The proposal has limited the area of extraction so as to avoid areas of ecological significance and will be operated in a manner, which minimizes impacts. As such, the proposal complies with the intent and outcomes sought for the planning area having regard to its designation as an Extractive Resource Site.

As such, the development is recommended for approval, subject to reasonable and relevant conditions.

2.0 Summary

Table 1 Application Summary

Site Details:	Part of Lot 5 on SP235661 (within metes and bounds of the ERS designation, as shown in Attachment 1)
Site Area	218 hectares (Total area of Lot 5) 69.6ha Application site (per metes and bounds description)
Area of disturbance:	30 hectares (within 69.6 hectare ERS area)
Owners:	Daraleigh Pty Ltd – refer to certificate of title in Attachment 2 .
Easements/Encumbrances:	Easement A on RP27997 benefiting part of the land (formerly Lot 1 on RP725800) Easement B on RP727997 benefiting part of the land (formerly Lot 1 on RP725800)
Proposal:	Extraction (up to 100,000 tonnes of material)
Approval Sought:	Development Permit – Material Change of Use
Level of Assessment:	Code Assessment
Planning Scheme Zones/Precincts:	Rural Zone (Extractive Resource Site)
Shire Wide Measures	<ul style="list-style-type: none"> • Scenic Amenity – adjoining a tourist route (Bruce Highway) • Natural Areas (Natural Corridor along North-Western section)
Regional Plan Designation:	Regional Landscape and Rural Production Area
State Planning Policy:	Partial Flood Hazard area (Level 1) Matters of State Environmental Significance: <ul style="list-style-type: none"> • Wildlife Habitat (contained within mapped vegetation) • Riverine Wetlands (at the northern boundary of Lot 5) • Regulated Vegetation (intersecting a watercourse)
State Development Assessment Provisions:	<ul style="list-style-type: none"> • State Controlled Road matters (Module 1, 18 & 19) • Impacts on State Transport Infrastructure (Module 17) • Site contains regulated vegetation (Module 8)
Referral Agencies:	<ul style="list-style-type: none"> • Department of State Development Infrastructure and Planning as a Concurrence Agency pursuant to: <ul style="list-style-type: none"> • Schedule 7, Table 3, item 1 – State Controlled Road Matters; • Schedule 7, Table 3, Item 2 – Impacts on State Transport Infrastructure (exceeding Schedule 9 threshold); • Schedule 7, Table 3, Item 10 for Vegetation matters.

3.0 Site Description

The site is located at Moody Road, Vasa Views, on the western side of the Bruce Highway, north of Innisfail, and is described as part of Lot 5 on SP235661, as described in the Metes and Bounds Description confirmed within **Attachment 1**, and on IDAS Form 1. Lot 5 has a total area of 218 hectares; however the area of land that is the subject of the application is limited to the metes and bounds description that forms the Extractive Resource Site designation, as shown in **Attachment 1**. The ERS site has a total area of 69.6 hectares, although the proposed extraction activities are limited to 30 hectare area, as shown on the Operational Plan included within **Attachment 1**.

The site has an elevation between 30m and 113m above sea-level and contains a large plateau, which has longitudinal orientation in a north-south direction, generally parallel to the western boundary of the sites; which falls to the north and east, back towards Moody Road.

Currently, the site is improved by a dwelling house and outbuildings, which are associated with a mixture of farming operations undertaken on site, including cattle grazing. In addition, small areas of the site contain vegetation (Queensland Maple); which were previously used for forestry production. Surrounding the site to the east, north-west and south, are predominantly rural activities (cane cultivation, banana plantations, forestry and horse grazing), with Wooroonooran National Park located to the south-west along common boundary of Lot 5 (within Cairns Regional Council Local Government Area).

The site also contains sections of identified environmental values - namely remnant-quality complex mesophyll vine forest regulated vegetation community located to the northern and southern edge of the proposed extraction site. These vegetated areas are also designated as containing 'Essential Habitat' for the Southern Cassowary, which is recognised as a 'matter of state environmental significance' for the purposes of the State Development Assessment Provisions. The existence of these values and the impact of proposed operations are discussed further in the Vegetation Assessment prepared by Northern Resource Consultants, contained for reference in **Attachment 3**.

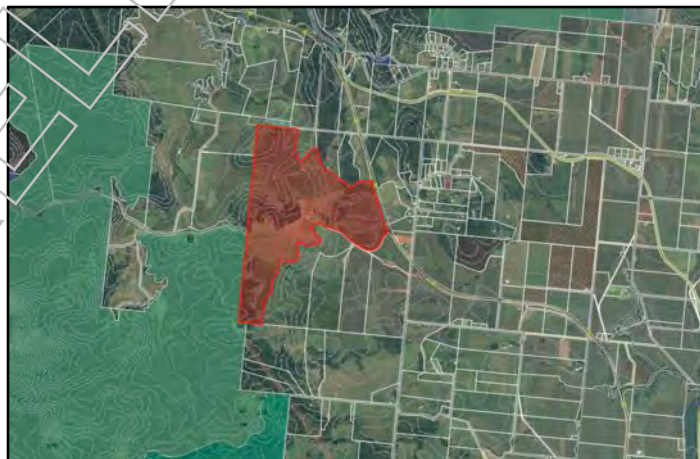


Figure 1: Site Location (source: Google Earth)

4.0 Proposed Development

It is proposed to establish a new extractive industry operation on a greenfield site, described as part of Lot 5 on SP235661; being that part of the site contained within 30 hectare area of the metes and bounds description which forms Extractive Resource Site and shown in **Figure 2** below.

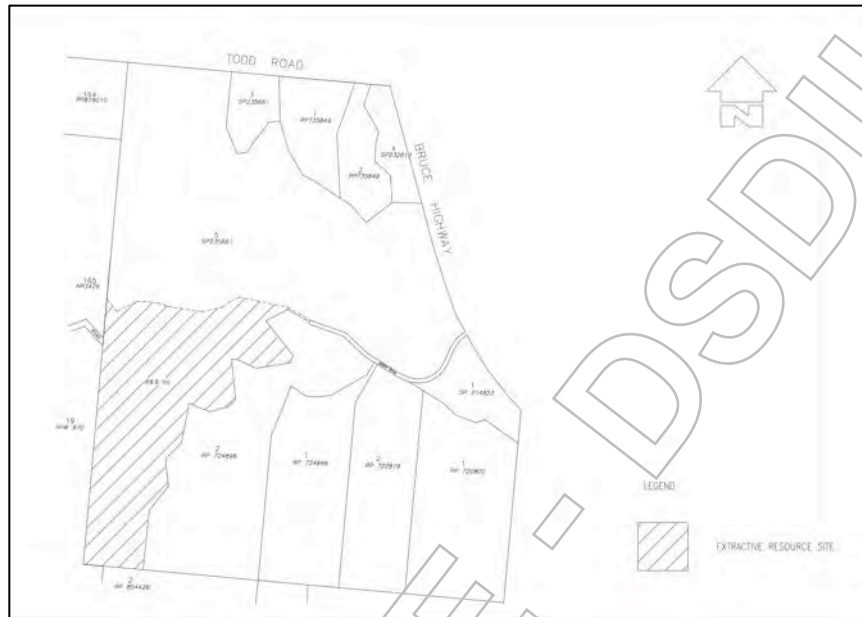


Figure 2: Site Plan showing ERS boundary

Specifically, the proposal includes:

- Progressive extraction of basalt rock of up to 100,000 tonnes of material per year, in 2 hectare stages, within a total 30 hectare development footprint;
- Screening/processing of the extracted resource;
- Stockpiling of processed material for distribution;
- Permanent sediment basins and bund walls for stormwater and erosion and sediment control;
- Associated internal haulage routes; and
- Weighbridge and site amenities (office etc.).

The site of the proposed extractive industry contains a large deposit of basalt rock resource which has the potential to produce variety of concrete aggregates, sealing aggregates, road base and ballast and is intended to supply Far North Queensland region construction industry. Groundwater bore logs, drilled by the Department of Natural Resources and Water confirms presence of basalt rock at various depths across the extraction site – please refer to bore log reports contained for reference in **Attachment 3**.

Typically, extractive industries involve the following stages of operation:

- Clearing;
- Topsoil and overburden stripping and stockpiling (for use within progressive rehabilitation and to establish visual screens/buffers);

5.0 Statutory Planning Considerations

5.1. Sustainable Planning Act 2009 (SPA)

This section provides an overview of the legislative context of the application under the provisions of the *Sustainable Planning Act 2009*.

5.1.1 Confirmation that Development is not Prohibited

The proposed development is not prohibited. This has been established by considering all relevant instruments which can provide prohibitions under SPA including:

- Schedule 1 of the *Sustainable Planning Act 2009*;

5.1.2 Assessable Development

The development constitutes a Material Change of Use, which is made assessable under the Johnstone Shire Planning Scheme and the *Sustainable Planning Act 2009*.

5.1.3 Assessment Manager

The Assessment Manager for this development application is Cassowary Coast Regional Council as determined by Schedule 6 of the *Sustainable Planning Regulations 2009*.

5.1.4 Level of Assessment

Following review of the provisions of the *Sustainable Planning Act 2009* and the Johnstone Shire Planning Scheme, it is considered that the application is subject to code assessment as the proposed activity is limited to 'extraction' within the designated ERS boundary.

5.1.5 Referral Triggers

Pursuant to Schedule 7 of the *Sustainable Planning Regulation 2009*, referral of the Application is required to be undertaken to Department of State Development, Infrastructure and Planning (as a Concurrence Agency) for the following matters:

- Schedule 7, Table 3, item 1 – State Controlled Road Matters;
- Schedule 7, Table 3, Item 2 – Impacts on State Transport Infrastructure (exceeding Schedule 9 threshold);
- Schedule 7, Table 3, Item 10 for Vegetation matters.

It is noted that triggers for referral as a result of Strategic Cropping Land matters were removed by amendments to the *Sustainable Planning Regulation 2009*, effective from 13 June 2014.

In addition, we note that while the proposal includes a 'prescribed' Environmentally Relevant Activity ('ERA'), namely 16.2(b) and 16.3 (b) for Extraction and Screening of more than 5,000 tonnes, but less than 100,000 tonnes; the threshold proposed is not identified as a 'Concurrence' ERA pursuant to s16 o

the *Environmental Protection Regulation 2008* ('EP Reg') and is therefore, not referable under Schedule 7, Table 2, item 1 of the *Sustainable Planning Regulation 2009*.

Further, as the relevant ERA is an 'eligible' ERA pursuant to s24B of the EP Reg, no Environmental Authority is required; as it is an 'approved' activity which is required to comply with the standard conditions.

5.1.6 State Resource

The proposal does not involve any State Resources.

5.1.7 State Planning Regulatory Provisions

There are no relevant or current State Planning Regulatory Provisions applicable to the site.

5.1.8 Regional Plan

The site is within the Regional Landscape and Rural Production Area of the Far North Queensland Regional Plan and does not require detailed assessment against the provisions contained in the policy.

5.1.9 State Planning Policy

On 2 December 2013, the Queensland Government introduced the Single State Planning Policy, effective on and from that date.

Relevantly, Part B of the Single SPP confirms that it applies to *"assessment of a development application mentioned in Part E, to the extent the SPP has not been identified in the planning scheme as being appropriately integrated in the planning scheme"*. Given the recent release of the Single SPP, it has not been integrated within the Johnstone Shire Planning Scheme. It is therefore necessary to consider the application of the Single SPP to this proposal.

Part E in the Single SPP includes a range of *"Interim Development Assessment Requirements"*, which will *"ensure that state interests are appropriately considered by local government when assessing development applications where the local government planning scheme has not yet appropriately integrated the state interests in the SPP."*

The application or effect of the Interim Development Assessment Requirements does not alter levels of assessment that would otherwise apply to the development in question (per Single SPP, Part E, p44).

The following table considers each Interim Development Assessment Requirement, and provides commentary on its application or otherwise.

State Interest	Trigger for Assessment	Comment
Liveable communities	Development accessed by common private title and includes buildings not covered by other legislation or planning provision mandating fire hydrants.	Not Applicable. Development is not accessed by common private title.

State Interest	Trigger for Assessment	Comment
Mining and Extractive Resources	Development within KRA, within a separation area for a KRA or affected by a relevant Transport Route	Not applicable: The project is not located on a site designated as a KRA, nor a route for transport, nor within a separation area.
Biodiversity	Development where the land relates to a matter of state environmental significance.	Applicable: The site is mapped as containing areas containing 'matters of state environmental significance', namely wildlife habitat.
Coastal Environment	Development on land in a Coastal Management District	Not applicable: The site is not within a Coastal Management District.
Water Quality	Development for urban purposes meeting certain thresholds, and / or involving ASS in designated areas	Applicable: Development includes operational works for urban purposes that involves disturbance of more than 2500m ² of land.
Emissions and Hazardous Activities	Development for a sensitive land use located wholly or partly within a management area	Not applicable: Development proposed is not for a sensitive land use and is not located within a management area.
Natural Hazards	Development on land within a flood, bushfire, landslide or coastal hazard area	Applicable: Whilst Development proposed is located within area subject to or containing natural hazards (Flood), it is noted that the proposed area of extraction is outside of this area, and that the proposal does not increase the risk to people or property.
State Transport Infrastructure	Development on land located within 400m of a public passenger transport facility and with a site area greater than 5,000sq m	Not applicable: The site is not located within 400 m of a public passenger transport facility (current or future).
Strategic Airports and Aviation Facilities	Development on land within an area impacted by a strategic airport or aviation facility	Not applicable: The site is not on land within an area affected by a strategic airport or aviation facility designation.

As stated previously, the site contains areas of Regulated Vegetation, which are identified as 'Essential Habitat' for the Southern Cassowary. These areas are designated as 'Wildlife Habitat' and are recognised as 'matters of state environmental significance'. An excerpt from the SPP mapping is provided below.

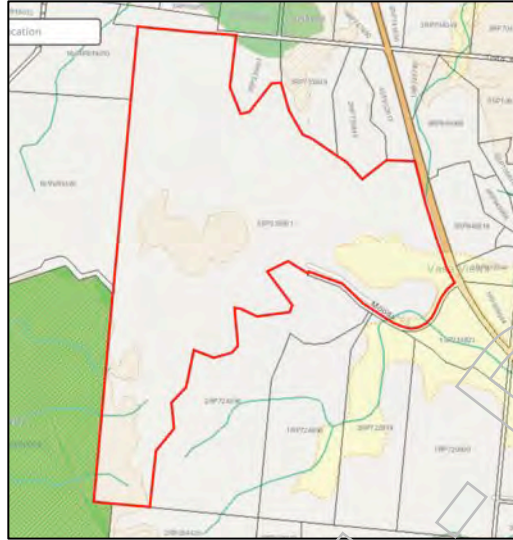


Figure 4: Extract of SPP mapping

As the site contains matters of 'state environmental significance'; namely wildlife habitat, the application is required to achieve the following outcomes:

Development:

- (a) enhances matters of state environmental significance where possible; and
- (b) identifies any potential significant adverse environmental impacts on matters of state environmental significance; and
- (c) manages the significance adverse environmental impacts on matters of state environmental significance by protection the matters of state environmental significance from, or otherwise mitigating, those impacts.

By and large, the areas that contain identified values are protected from development, by limiting the extractive industry activity to areas outside of mapped values, as shown in the operational plan. However, limited clearing along the northern extraction site area will be necessary to access the western face of the resource. While the full extent of clearing is not yet known, it will be limited to a maximum 0.5 hectares and will be rehabilitated in line with operational needs. Natural Resource Consultants undertook a preliminary investigation of the site and concluded that due to the isolated nature of the habitat, poor connectivity and limited extent of clearing, the impact on the values would not be significant.

It is not possible to enhance the matters of state environmental significance on site, however it is considered that the potential impacts are limited and they will not result in significance adverse environmental impacts. As such, the development is considered to comply with the State Interest.

5.1.10 State Development Assessment Provisions

Due to the site's location in proximity to a state-controlled road, and existence of mapped vegetation on site, the following SDAP Modules are applicable. Their relevance and summary of compliance is detailed in the following table.

Applicable SDAP Module	Proposal Compliance
Module 1.1 Managing Noise and Vibration Impacts	Not Applicable: The proposal does not include sensitive uses
Module 1.2 Managing Air and Lighting Impacts	Not Applicable: The proposal does not include sensitive uses.
Module 8.1 Vegetation	Applicable: Proposal includes clearing of mapped vegetation. Refer to Attachment 5 and discussion below.
Module 17.1 Public Passenger Transport	Not Applicable: Proposal does not include or interfere with mapped Public Passenger Transport
Module 18.1 Filling, excavation and structures	Applicable: Extraction will not occur within close proximity to the State Controlled Road.
Module 18.2 Stormwater drainage impacts	Applicable: No stormwater will be discharged to the State Controlled Road from the proposed development.
Module 19.1 State controlled road	Applicable: The proposal is within 25m of a State Controlled Road (Bruce Highway), although gains access from local road (Moody Road)
Module 19.2 Transport Infrastructure and Network Design	Applicable: Proposed upgrade of the intersection will be undertaken in accordance with relevant standards.

Assessment against relevant SDAP codes is undertaken within **Attachment 6** to this Report. Key issues raised within the Modules are discussed below.

Module 8 – Native Vegetation Clearing

The subject site includes vegetation primarily contained on the north-western edge of the extraction area and to the south-east along the adjoining boundary of Lot 2. The vegetation is designated as Least Concern vegetation on the Regulated Vegetation Mapping and is also designated as ‘Essential Habitat’ for the Southern Cassowary, as shown in Figure X below:

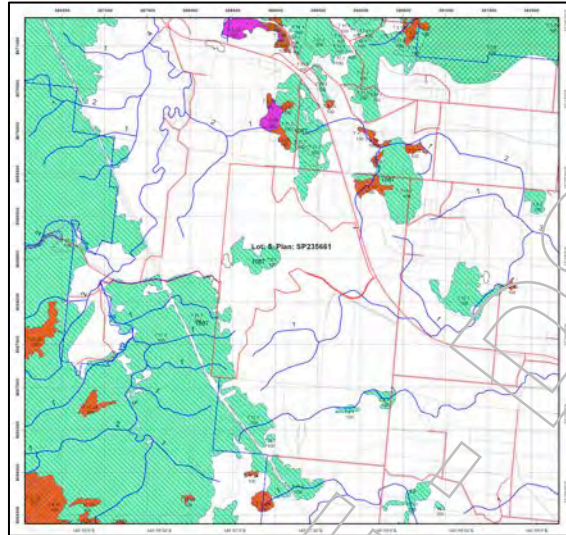


Figure 5: Regulated Vegetation Map extract

The proposed extent of clearing is approximately less than 0.5 hectares in size and is necessary to access the western face of the existing resource as it progresses across the site. It will be carried out in stages in line with operational needs, which will be progressively rehabilitated. No clearing within or adjacent to watercourses or wetlands are proposed.

An assessment of the existing vegetation was carried out by Northern Resource Consultants (refer to Assessment report contained in **Attachment 4**), which concluded that:

- The mapped values are present on site, being remnant-quality complex mesophyll vine forest, with the floristic composition and structure and the landzone features being characteristic of regional ecosystem 7.8.1. While it is ‘least concern’ vegetation status under the Vegetation Management Act the Queensland Herbarium Regional Ecosystem Description Database lists the vegetation community as ‘endangered biodiversity status’;
- However, the mapped area is inconsistent with the ground truthed extent of existing vegetation;
- There are some sections which are highly disturbed and do not meet the criteria for remnant vegetation, particularly along the edges of the established vegetation.
- Values for essential habitat for the Southern Cassowary are present within the ground truthed area of vegetation;
- Area of impact on the values which exist on site has low value for connectivity and it does not form a link between any habitat areas. Depending on the size of the ultimate disturbance, it is

possible that value of the connectivity and the capacity for this community to persist in the landscape and maintain ecosystem function would not be significantly impacted at any scale.

- Given the small size and isolation of the habitat, it is unlikely that clearing less than 10 metres in width and 0.5 hectares in area would result in a significant residual impact to the Southern Cassowary.

State Controlled Road Matters

The site adjoins a State controlled Road, namely the Bruce Highway. However, access to the site is from Moody Road, which intersects with the Bruce Highway within 100m of the site.

A Traffic Impact Assessment is currently being prepared by Black and More Engineers and it is anticipated that upgrades to the intersection of Bruce Highway and Moody Road will be required to accommodate acceleration and deceleration lanes for the left-in and left-out movements from the site. The existing channelized right turn into Moody Road is considered sufficient for the proposed development, however this will be assessed as part of the Impact Assessment.

5.2. Environmental Protection Act 1994

Pursuant to the *Environmental Protection Act 1994* ('EP Act') and subordinate Regulation, the development constitutes a 'prescribed ERA', namely:

- ERA 16.2(b) – Extracting, other than by dredging, in a year, 5,000 tonnes to 100,000 tonnes of material; and
- ERA 16.3 (b) – Screening, in a year, between 5,000 tonnes to 100,000 tonnes of material.

While the proposal is a 'prescribed' ERA, the threshold of the proposal does not constitute a 'Concurrence' ERA and therefore no referral to Department of State Development, Infrastructure and Planning pursuant to Schedule 7, Table 2, item 1 is required.

S24B of the EP Reg and corresponding section 318 of the EP Act provides prescribed ERA's that are not Concurrence ERA's are approved by way of standard conditions where projects meet certain 'eligibility criteria' for the corresponding ERA. In terms of the proposed development, we note that the activity can be undertaken in a way that complies with the 'eligibility' criteria for the proposed development. As such, no Environmental Authority is required.

6.0 Local Planning Considerations

6.1 Planning Scheme

Planning requirements affecting the site at a more local level are confirmed within the Johnstone Shire Planning Scheme ('the Scheme').

Within the Scheme, the site is included within the 'Rural Zone', and contains Extractive Resource Site designation, in recognition of the available resources in the area.

6.2 Planning Area and Codes

The Scheme confirms the following Development Codes are applicable to the development proposed:

- a. Rural Zone Code;
- b. Natural Area code
- c. Extraction Code; and
- d. All relevant Operational Works and General Development Codes.

An assessment of the proposed development against these Codes has been undertaken, and is included for reference in **Attachment 7**. As the development is 'code assessable', it is noted that Probable Solutions can, by and large, be complied with. Where necessary, alternative compliance solutions are proffered for the project. Below is a discussion on the areas of non-compliance with relevant aspects of the applicable Codes.

Scenic Amenity Code

While the site adjoins a Tourist Route, being the Bruce Highway, we note that the site is not identified as being of high scenic value. As such, the relevant code does not apply.

Natural Areas Code

An area along western boundary, extending south throughout the proposed extraction area is designated as a Natural Corridor/Habitat area on Map 7A.

Existing habitat areas, as confirmed through Essential Habitat mapping are mostly being avoided, with small sections required to be cleared to access the north-western face of the resource.

7.0 Summary and Conclusions

This report has been prepared on behalf of Daraleigh Pty Ltd ('the Applicants and landowners'), in support of a Development Application to Cassowary Coast Regional Council, seeking a Development Permit for a Material Change of Use (Extraction).

The application relates to land located at Moody Road, Vasa Views, described as part of Lot 5 on RP235661 ('the site'), being the area of land described in metes and bounds, contained in **Attachment 1**, which is limited to the area of the Extractive Resource Site designation.

The proposed development is designated as 'code assessable' within the relevant Planning Scheme.

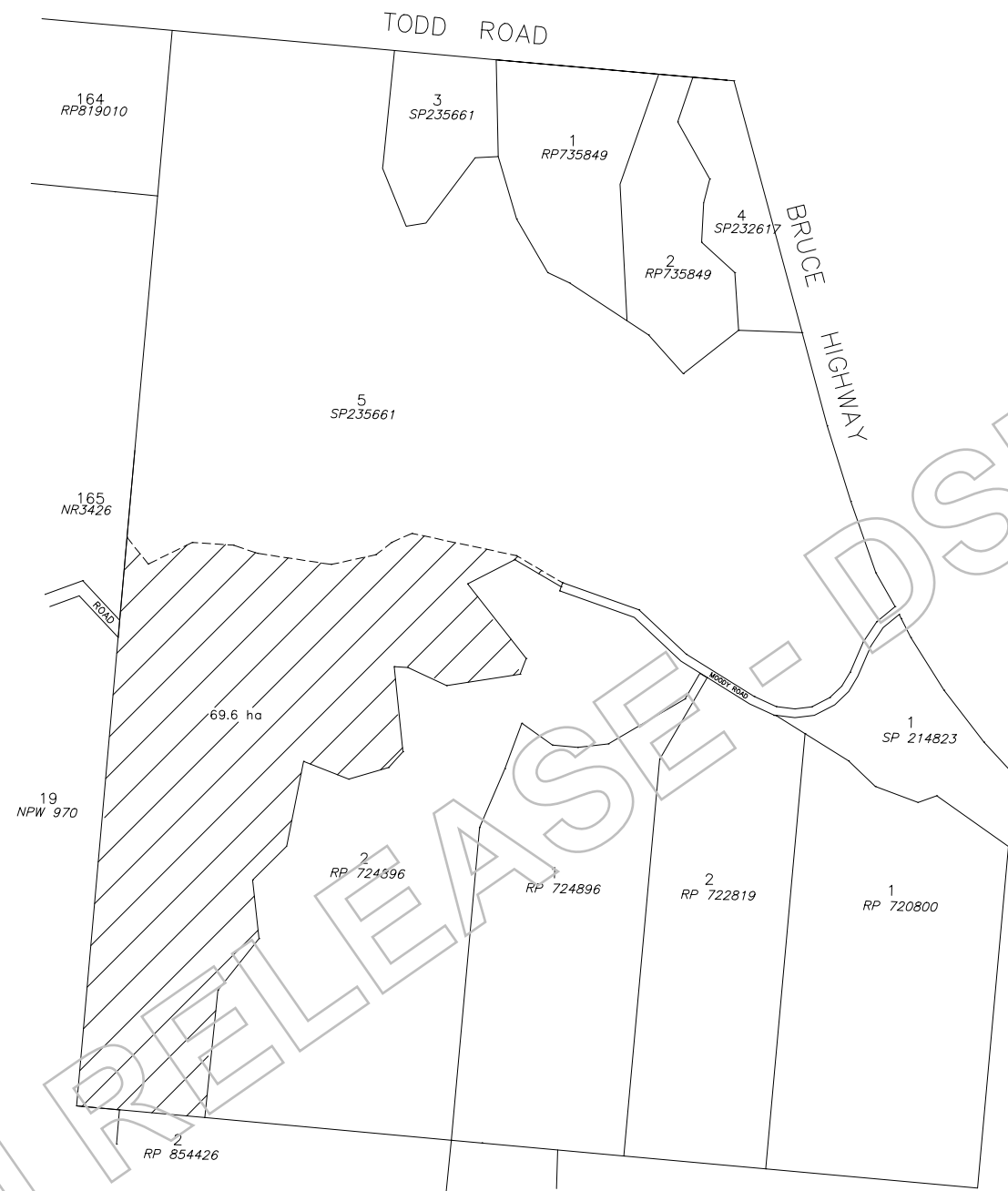
As outlined in the submission above, and the code compliance assessments attached, it is submitted that the proposed development:

- (a) Is consistent with current strategic objectives for the locality and site;
- (b) Is consistent with future / draft strategic objectives and planning area designations for the site;
- (c) Can be undertaken in a manner such that potential or perceived impacts on amenity of the site, its surrounds or broader locality will be mitigated, notwithstanding any potential or perceived non-compliance with Acceptable Solutions within relevant development codes.

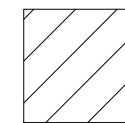
Despite any potential conflicts with specific planning scheme code requirements or objectives, it is submitted that approval regardless is appropriate, and that approval is respectfully requested.

Attachment 1: Proposal Plan, Site Plan and Metes and Bounds

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LEGEND



EXTRACTIVE RESOURCE SITE

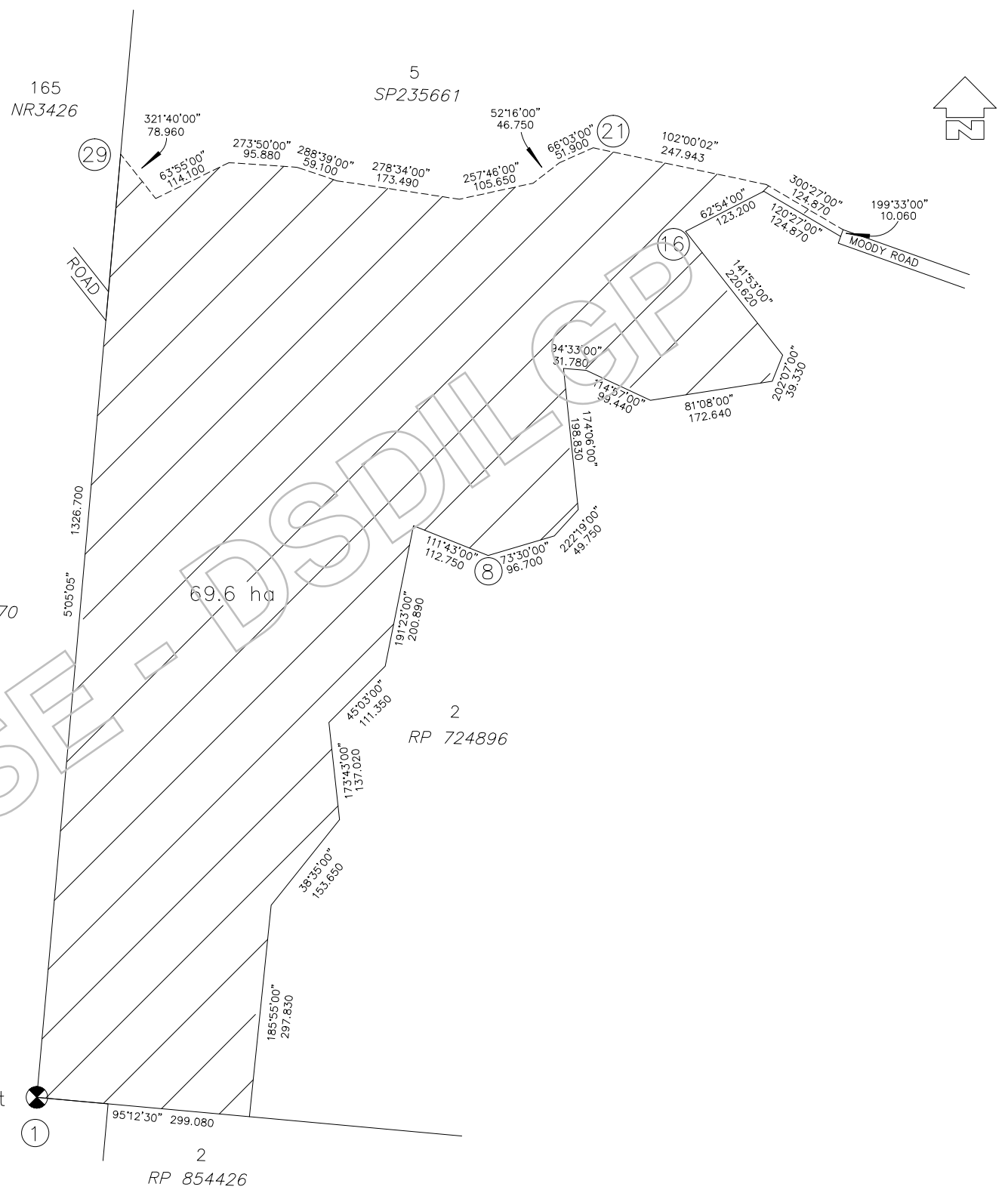
title:	LOCATED	CALCULATED	DATE	Sch. 4(4)(4) - Disclosing deliberative processes Bach. App. Sc. (Surv.) Cadastral Surveyor	SCALE	1:16000 (A3)		
	EXTRACTIVE RESOURCE SITE	SURVEYED	DATE JUL 14		FILES REF.			
client:	MOODY ROAD - VASA VIEWS	DRAWN GSM	DATE JUL 14	11 Kavieng Street, Trinity Beach 4879. P.O. Box 152 Trinity Beach.	PROPERTY DESC.	Lot 5 on SP 235661		
	DARALEIGH P/L	SURVEY EXAMINED	DATE			Sch. 4(4)(6) - Disclosing personal information Fax: 0740 577 089	FILE	14/185
		PLAN EXAMINED G POZZI	DATE JUL 14			Sch. 4(4)(6) - Disclosing personal information Email:	SHEET	1

The Metes and Bounds Description of Extractive Resource Site (ERS) within Lot 5 SP235661 Parish of Glady, County of Nares

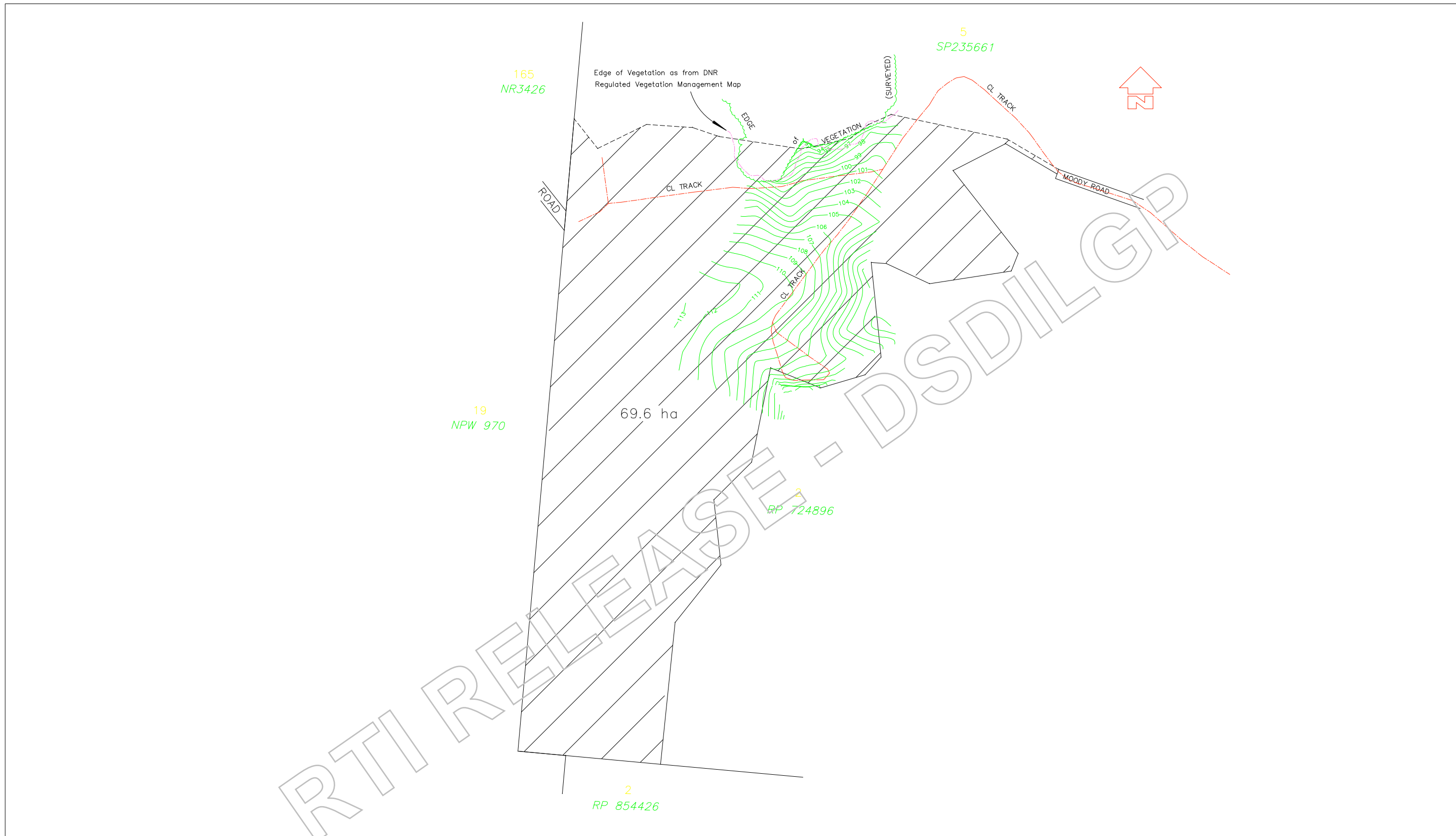
Commencing at a known point being the south west corner of Lot 5 SP235661:

- Thence at a bearing of 95°12'30" for 299.08 metres;
 - Thence at a bearing of 5°5'00" for 297.83 metres;
 - Thence at a bearing of 38°35'00" for 153.65 metres;
 - Thence at a bearing of 353°43'00" for 137.02 metre
 - Thence at a bearing of 45°03'00" for 111.35 metres;
 - Thence at a bearing of 11°23'00" for 200.89 metres;
 - Thence at a bearing of 111°43'00" for 112.75 metres;
 - Thence at a bearing of 73°30'00" for 96.70 metres;
 - Thence at a bearing of 42°19'00" for 49.75 metres;
 - Thence at a bearing of 354°06'00" for 198.83 metres;
 - Thence at a bearing of 94°33'00" for 31.78 metres;
 - Thence at a bearing of 114°57'00" for 99.44 metres;
 - Thence at a bearing of 81°08'00" for 172.64 metres;
 - Thence at a bearing of 22°07'00" for 39.33 metres;
 - Thence at a bearing of 321°53'00" for 220.62 metres;
 - Thence at a bearing of 62°54'00" for 123.20 metres;
 - Thence at a bearing of 120°27'00" for 124.87 metres;
 - Thence at a bearing of 19°33'00" for 10.06 metres;
 - Thence at a bearing of 300°27'00" for 124.87 metres;
 - Thence at a bearing of 282°00'02" for 247.94 metres;
 - Thence at a bearing of 246°03'00" for 51.90 metres;
 - Thence at a bearing of 232°16'00" for 46.75 metres;
 - Thence at a bearing of 257°46'00" for 105.65 metres;
 - Thence at a bearing of 278°34'00" for 173.49 metres;
 - Thence at a bearing of 288°39'00" for 59.10 metres;
 - Thence at a bearing of 273°50'00" for 95.88 metres;
 - Thence at a bearing of 243°55'00" for 114.10 metres;
 - Thence at a bearing of 321°40'00" for 78.96 metres;
 - Thence at a bearing of 185°05'05" for 1326.70 metres;
- to the Point of commencement and containing an area of 69.59 hectares more or less.

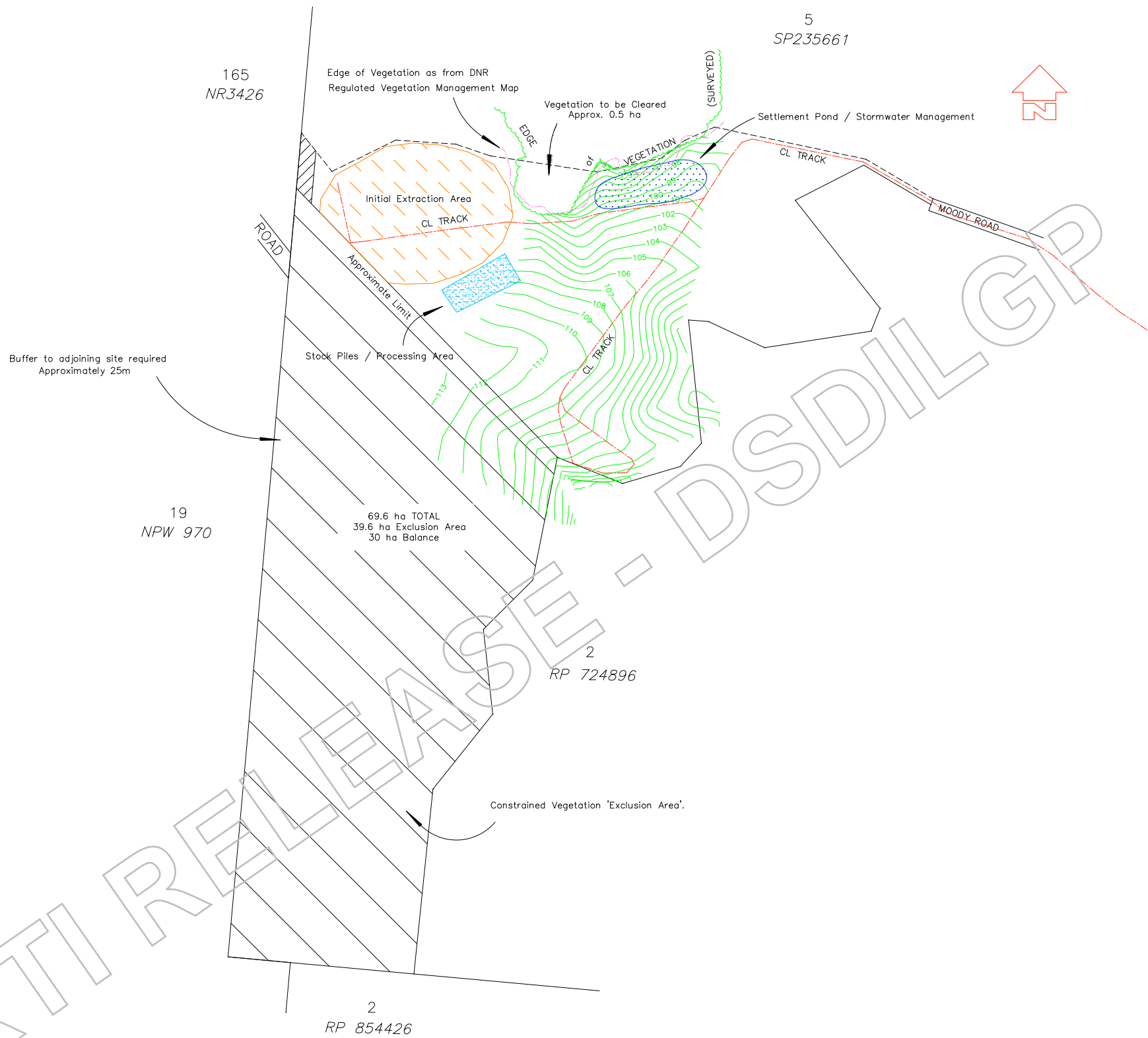
Point of Commencement



title:	METES & BOUNDS DESCRIPTION of EXTRACTIVE RESOURCE SITE MOODY ROAD - VASA VIEWS		PARISH GLADY	CALCULATED	DATE	Sch. 4(4)(6) - Disclosing personal information Bach.App.Sc.(Surv.) Cadastral Surveyor	SCALE	1:8000 (A3)	
	client:	DARALEIGH P/L		COUNTY NARES	SURVEYED		DATE JUL 14	FILES REF.	
		LOCAL AUTH. CASS COAST REG	DRAWN GSM	DATE JUL 14	11 Kavieng Street, Trinity Beach 4879. P.O. Box 152 Trinity Beach. Email: Sch. 4(4)(6) - Disclosing personal information	PROPERTY DESC.	Lot 5 on SP 235661		
			SURVEY EXAMINED	DATE		Fax: 0740 577 089	FILE	14/185	SHEET 2
			PLAN EXAMINED G POZZI	DATE JUL 14					



title: Access Track to & Contours over Proposed Quarry Area Moody Road - Vasa Views	PARISH GLADY	CALCULATED	DATE	Sch. 4(4)(6) - Disclosing personal information Bach.App.Sc. Surv. Cadastral Surveyor	SCALE	1:8000 (A3)	
	COUNTY NARES	SURVEYED	DATE JUL 14		FILES REF.		
client: DARALEIGH P/L	LOCAL AUTH. CASS COAST REG	DRAWN GSM	DATE JUL 14	11 Kavieng Street, Trinity Beach 4879. P.O. Box 152 Trinity Beach. Email: Sch. 4(4)(6) - Disclosing personal information	PROPERTY DESC.	Lot 5 on SP 235661	
		SURVEY EXAMINED	DATE		FILE	14/185	SHEET 3
		PLAN EXAMINED G POZZI	DATE JUL 14				



Areas shown are approximate only

title: Operations Plan Proposed Quarry Area Moody Road - Vasa Views	PARISH GLADY	CALCULATED	DATE	Sch. 4(4)(6) - Disclosing personal information Bach.App.Sc. Surv. Cadastral Surveyor	SCALE	1:8000 (A3)	
	COUNTY NARES	SURVEYED	DATE JUL 14		FILES REF.		
client: DARALEIGH P/L	LOCAL AUTH. CASS COAST REG	DRAWN GSM	DATE JUL 14	11 Kavieng Street, Trinity Beach 4879. P.O. Box 152 Trinity Beach. Email: Fax: 0740 577 089	PROPERTY DESC.	Lot 5 on SP 235661	
		SURVEY EXAMINED	DATE		FILE	14/185	SHEET 4
		PLAN EXAMINED G POZZI	DATE JUL 14				

Attachment 2: Certificate of Title

RTI RELEASE - DSDILGP

CURRENT TITLE SEARCH

DEPT OF NATURAL RESOURCES AND MINES, QUEENSLAND

Request No: 18631280

Search Date: 26/05/2014 11:28

Title Reference: 50858484

Date Created: 28/09/2011

Previous Title: 50836843

REGISTERED OWNER

Dealing No: 713941051 05/07/2011

DARALEIGH PTY. LTD. TRUSTEE
UNDER INSTRUMENT 601005297 AND T525653R

ESTATE AND LAND

Estate in Fee Simple

LOT 5 SURVEY PLAN 235661
County of NARES Parish of GLADY
Local Government: CASSOWARY COAST

For exclusions / reservations for public purposes refer to
Plan SP 235661

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10698076 (POR 12)
2. EASEMENT No 601021321 (N882013) 08/06/1978
benefiting
PART OF THE LAND FORMERLY LOT 1 ON RP725800
OVER EASEMENT A ON RP27997
3. EASEMENT No 601021322 (T698420M) 24/08/1993
benefiting
PART OF THE LAND FORMERLY LOT 1 ON RP725800
OVER EASEMENT B ON RP27997
4. MORTGAGE No 709137141 15/11/2005 at 14:30
NATIONAL AUSTRALIA BANK LIMITED A.B.N. 12 004 044 937

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **

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Requested By: D APPLICATIONS CITEC CONFIRM

Attachment 3: Borelog Reports

RTI RELEASE - DSDILGP



RELEASED FOR DSDILGP

© State of Queensland 2014

Google Earth

17°27'58.82" S 145°57'21.46" E elev 67 m eye alt 3.35 km

773 m

2012

BORE REPORT

REG NUMBER 139558

REGISTRATION DETAILS

OFFICE Mareeba	BASIN 1111	LATITUDE 17-28-07	MAP-SCALE
DATE LOG RECD 16-SEP-08	SUB-AREA	LONGITUDE 145-57-02	MAP-SERIES
D/O FILE NO. RN DRAW	SHIRE 2260-CASSOWARY COA	EASTING 388584	MAP-NO
R/O FILE NO.	LOT 4	NORTHING 8068310	MAP NAME
H/O FILE NO.	PLAN SP214823	ZONE 55	PROG SECTION
	ORIGINAL DESCRIPTION	ACCURACY GPS	PRES EQUIPMENT
		GPS ACC 30	
GIS LAT -17.4684971	PARISH NAME 2011-GLADY		ORIGINAL BORE NO SF/AF
GIS LNG 145.9506888	COUNTY NARES		BORE LINE -
CHECKED Y			
			POLYGON
FACILITY TYPE Sub-Artesian Facility	DATE DRILLED 12/08/2008		RN OF BORE REPLACED
STATUS Abandoned and Destroyed	DRILLERS NAME DELAI, MARK ANDREW		DATA OWNER
ROLES WS	DRILL COMPANY DELAIS DRILLING		
	METHOD OF CONST. ROTARY AIR		

CASING DETAILS

PIPE	DATE	RECORD NUMBER	MATERIAL DESCRIPTION	MAT SIZE (mm)	SIZE DESC	OUTSIDE DIAM	TOP (m)	BOTTOM (m)
A	12/08/2008	1	Cuttings or other fill betw een casing and h			160	5.00	48.00
A	12/08/2008	2	Grout			140	0.00	5.00

STRATA LOG DETAILS

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
1	0.00	3.00	BROWN CLAY & BASALT ROCKS
2	3.00	31.00	HARD BASALT
3	31.00	44.00	BROKEN BASALT *
4	44.00	48.00	SHALEY CLAY

STRATIGRAPHY DETAILS

**** NO RECORDS FOUND ****

BORE REPORT

REG NUMBER 139558

AQUIFER DETAILS

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 1

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 2

**** NO RECORDS FOUND ****

BORE CONDITION

**** NO RECORDS FOUND ****

ELEVATION DETAILS

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 1

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 2

**** NO RECORDS FOUND ****

WATER LEVEL DETAILS

**** NO RECORDS FOUND ****

WIRE LINE LOG DETAILS

**** NO RECORDS FOUND ****

FIELD MEASUREMENTS

**** NO RECORDS FOUND ****

SPECIAL WATER ANALYSIS

**** NO RECORDS FOUND ****

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**** End of Report. Produced: 23/07/2014 11:50:58 AM ****

BORE REPORT

REG NUMBER 139559

REGISTRATION DETAILS

OFFICE Mareeba	BASIN 1111	LATITUDE 17-28-07	MAP-SCALE
DATE LOG RECD 16-SEP-08	SUB-AREA	LONGITUDE 145-57-02	MAP-SERIES
D/O FILE NO. RN DRAW	SHIRE 2260-CASSOWARY COA	EASTING 388584	MAP-NO
R/O FILE NO.	LOT 4	NORTHING 8068310	MAP NAME
H/O FILE NO.	PLAN SP214823	ZONE 55	PROG SECTION
	ORIGINAL DESCRIPTION	ACCURACY GPS	PRES EQUIPMENT
		GPS ACC 30	
GIS LAT -17.4684971	PARISH NAME 2011-GLADY		ORIGINAL BORE NO SF/AF
GIS LNG 145.9506888	COUNTY NARES		BORE LINE -
CHECKED Y			
			POLYGON
			RN OF BORE REPLACED
			DATA OWNER
FACILITY TYPE Sub-Artesian Facility	DATE DRILLED 12/08/2008		
STATUS Abandoned and Destroyed	DRILLERS NAME DELAI, MARK ANDREW		
ROLES WS	DRILL COMPANY DELAIS DRILLING		
	METHOD OF CONST. ROTARY AIR		

CASING DETAILS

PIPE	DATE	RECORD NUMBER	MATERIAL DESCRIPTION	MAT SIZE (mm)	SIZE DESC	OUTSIDE DIAM	TOP (m)	BOTTOM (m)
A	12/08/2008	1	Cuttings or other fill betw een casing and h			160	5.00	36.00
A	12/08/2008	2	Grout			160	0.00	5.00

STRATA LOG DETAILS

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
1	0.00	3.00	VOLCANIC CLAY
2	3.00	10.00	DECOMPOSED BASALT
3	10.00	34.00	BASALT
4	34.00	36.00	SHALEY CLAY

STRATIGRAPHY DETAILS

**** NO RECORDS FOUND ****

BORE REPORT

REG NUMBER 139559

AQUIFER DETAILS

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 1

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 2

**** NO RECORDS FOUND ****

BORE CONDITION

**** NO RECORDS FOUND ****

ELEVATION DETAILS

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 1

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 2

**** NO RECORDS FOUND ****

WATER LEVEL DETAILS

**** NO RECORDS FOUND ****

WIRE LINE LOG DETAILS

**** NO RECORDS FOUND ****

FIELD MEASUREMENTS

**** NO RECORDS FOUND ****

SPECIAL WATER ANALYSIS

**** NO RECORDS FOUND ****

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BORE REPORT

REG NUMBER 139560

REGISTRATION DETAILS

OFFICE Mareeba	BASIN 1111	LATITUDE 17-28-15	MAP-SCALE
DATE LOG RECD 16-SEP-08	SUB-AREA	LONGITUDE 145-57-04	MAP-SERIES
D/O FILE NO. RN DRAW	SHIRE 2260-CASSOWARY COA	EASTING 388629	MAP-NO
R/O FILE NO.	LOT 4	NORTHING 8068060	MAP NAME
H/O FILE NO.	PLAN SP214823	ZONE 55	PROG SECTION
	ORIGINAL DESCRIPTION	ACCURACY GPS	PRES EQUIPMENT
		GPS ACC 30	
GIS LAT -17.4707587	PARISH NAME 2011-GLADY		ORIGINAL BORE NO SF/AF
GIS LNG 145.9510996	COUNTY NARES		BORE LINE -
CHECKED Y			
			POLYGON
			RN OF BORE REPLACED
			DATA OWNER
FACILITY TYPE Sub-Artesian Facility	DATE DRILLED 13/08/2008		
STATUS Abandoned and Destroyed	DRILLERS NAME DELAI, MARK ANDREW		
ROLES WS	DRILL COMPANY DELAIS DRILLING		
	METHOD OF CONST. ROTARY AIR		

CASING DETAILS

PIPE	DATE	RECORD NUMBER	MATERIAL DESCRIPTION	MAT SIZE (mm)	SIZE DESC	OUTSIDE DIAM	TOP (m)	BOTTOM (m)
A	13/08/2008	1	Cuttings or other fill betw een casing and h			160	5.00	54.00
A	13/08/2008	2	Grout			160	0.00	5.00

STRATA LOG DETAILS

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
1	0.00	10.00	VOLCANIC CLAY
2	10.00	13.00	BROKEN BASALT *
3	13.00	44.00	HARD BASALT
4	44.00	49.00	BROKEN BASALT *
5	49.00	54.00	SHALEY CLAY

STRATIGRAPHY DETAILS

**** NO RECORDS FOUND ****

BORE REPORT

REG NUMBER 139560

AQUIFER DETAILS

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 1

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 2

**** NO RECORDS FOUND ****

BORE CONDITION

**** NO RECORDS FOUND ****

ELEVATION DETAILS

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 1

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 2

**** NO RECORDS FOUND ****

WATER LEVEL DETAILS

**** NO RECORDS FOUND ****

WIRE LINE LOG DETAILS

**** NO RECORDS FOUND ****

FIELD MEASUREMENTS

**** NO RECORDS FOUND ****

SPECIAL WATER ANALYSIS

**** NO RECORDS FOUND ****

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**** End of Report. Produced: 23/07/2014 11:53:46 AM ****

BORE REPORT

REG NUMBER 139561

REGISTRATION DETAILS

OFFICE Mareeba	BASIN 1111	LATITUDE 17-28-01	MAP-SCALE
DATE LOG RECD 16-SEP-08	SUB-AREA	LONGITUDE 145-57-02	MAP-SERIES
D/O FILE NO. RN DRAW	SHIRE 2260-CASSOWARY COA	EASTING 388581	MAP-NO
R/O FILE NO.	LOT 1	NORTHING 8068469	MAP NAME
H/O FILE NO.	PLAN RP725800	ZONE 55	PROG SECTION
	ORIGINAL DESCRIPTION	ACCURACY GPS	PRES EQUIPMENT
		GPS ACC 30	
GIS LAT -17.46706	PARISH NAME 2011-GLADY		ORIGINAL BORE NO SF/AF
GIS LNG 145.9506688	COUNTY NARES		BORE LINE -
CHECKED Y			
			POLYGON
FACILITY TYPE Sub-Artesian Facility	DATE DRILLED 13/08/2008		RN OF BORE REPLACED
STATUS Abandoned and Destroyed	DRILLERS NAME DELAI, MARK ANDREW		DATA OWNER
ROLES WS	DRILL COMPANY DELAIS DRILLING		
	METHOD OF CONST. ROTARY AIR		

CASING DETAILS

PIPE	DATE	RECORD NUMBER	MATERIAL DESCRIPTION	MAT SIZE (mm)	SIZE DESC	OUTSIDE DIAM	TOP (m)	BOTTOM (m)
A	13/08/2008	1	Cuttings or other fill betw een casing and h			160	5.00	36.00
A	13/08/2008	2	Grout			160	0.00	5.00

STRATA LOG DETAILS

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
1	0.00	2.00	BROKEN BASALT
2	2.00	26.00	HARD BASALT
3	26.00	35.00	BROKEN BASALT
4	35.00	36.00	SHALEY CLAY

STRATIGRAPHY DETAILS

**** NO RECORDS FOUND ****

BORE REPORT

REG NUMBER 139561

AQUIFER DETAILS

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 1

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 2

**** NO RECORDS FOUND ****

BORE CONDITION

**** NO RECORDS FOUND ****

ELEVATION DETAILS

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 1

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 2

**** NO RECORDS FOUND ****

WATER LEVEL DETAILS

**** NO RECORDS FOUND ****

WIRE LINE LOG DETAILS

**** NO RECORDS FOUND ****

FIELD MEASUREMENTS

**** NO RECORDS FOUND ****

SPECIAL WATER ANALYSIS

**** NO RECORDS FOUND ****

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**** End of Report. Produced: 23/07/2014 11:53:09 AM ****

Attachment 4: Preliminary Vegetation Assessment

RTI RELEASE - DSDILGP



Dillon Quarry Vasa Views

Vegetation and Habitat Assessment

July 2014

prepared on behalf of
Gilvear Planning

Contact Information	Details
Organisation	Northern Resource Consultants Pty Limited
Contact Person	Sch. 4(4)(6) - Disclosing personal information
Phone	
Email	
Mail	12 Cannan Street, South Townsville QLD, 4810
ABN	55 126 894 693

Document Control	Details including responsible party and date
David Hall	Report Preparation 3 July 2014
Marty Costello	Technical Review 4 July 2014

Limitations of this Report

Client: Gilvear Planning

Prepared by Northern Resource Consultants (NRC)

This disclaimer brings the limitations of the investigations to the attention of the reader.

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We cannot be held liable for third party reliance on this document. The information within this report could be different if the information upon which it is based is determined to be inaccurate or incomplete.

The results of work carried out by others may have been used in the preparation of this report. These results have been used in good faith, and we are not responsible for their accuracy.

This report has been formulated in the context of published guidelines, field observations, discussions with site personnel, and results of laboratory analyses.

NRC's opinions in this document are subject to modification if additional information is obtained through further investigation, observations or analysis. They relate solely and exclusively to environmental management matters, and are based on the technical and practical experience of environmental scientists.

They are not presented as legal advice, nor do they represent decisions from the regulatory agencies charged with the administration of the relevant Acts.

Any advice, opinions or recommendations contained in this document should be read and relied upon only in the context of the document as a whole and are considered current as of the date of this document.

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1. Background	1
2. Vegetation Type	1
3. Southern Cassowary Habitat	3
4. Vegetation Clearing Restrictions	4
4.1 Clearing Permits for EVNT Plants	4
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5. Conclusions	6
6. Site Photographs	7

Vegetation and Habitat Assessment

1. Background

Northern Resource Consultants performed a site visit to Lot 5 on SP235661 on 27 June 2014 to conduct an assessment of the vegetation and fauna habitat within a proposed quarry site on the property.

The proposed quarry site is in close proximity to a vegetation community that is mapped as remnant vegetation on the State regional ecosystem mapping. The remnant community is mapped as regional ecosystem 7.8.1b, which has a least concern status under the *Vegetation Management Act 1999* (VMA). The remnant community is also mapped as essential habitat for the Southern Cassowary (southern population).

The site survey involved an assessment of the regional ecosystem and essential habitat mapping to determine their significance as constraints to development. The site survey included the following tasks:

- an assessment of the floristic composition and structure of the community, as well as the condition of the community and presence of pest species,
- an assessment of the presence of essential habitat factors for the Southern Cassowary as listed in the Essential Habitat Database,
- basic mapping of the remnant vegetation boundary using handheld GPS,
- site photographs to support the findings.

2. Vegetation Type

The majority of the vegetation within the assessment unit was confirmed to be remnant-quality complex mesophyll vine forest. The floristic composition and structure and the landzone features are characteristic of regional ecosystem 7.8.1, which is the regional ecosystem currently shown on the State mapping. The current regional ecosystem mapping further defines the community as 7.8.1b, but classification to the community level for this regional ecosystem is dependent on soil characteristics. The 7.8.1b community is defined by the extent of the Eubenangee soil type, and therefore classification to the community level would require further assessment and involve an analysis of soil type. In any case, it is the regional ecosystem classification and the VMA class, irrespective of the specific vegetation community, that are used to determine restrictions on native vegetation clearing in the State Development Assessment Provisions (SDAP).

Regional ecosystem 7.8.1 has a 'least concern' status under the VMA, which is the status used for determining native vegetation clearing restrictions in the SDAP. The Queensland Herbarium Regional Ecosystem Description Database provides additional information on the status of this community that is worth noting. The regional ecosystem (7.8.1) is listed as having an endangered biodiversity status, and the mapped community (7.8.1b) is considered to be "virtually extinct". It also notes that the regional ecosystem is "approaching the threshold of 'of concern' Vegetation Management Act class and therefore consideration of any further clearing should be very carefully assessed". Whilst the community currently has a 'least concern' status, this may be upgraded to a higher conservation status during future reviews of the regional ecosystem mapping and classification.

The vegetation community present on the site includes multiple strata with a relatively high diversity of species within each stratum. The main species within each stratum of the community and some representative photographs are shown in Table 1.

TABLE 1 Species observed within the assessment area

STRATUM	KEY SPECIES
Emergent	<i>Alstonia scholaris</i> , <i>Dysoxylum peltigrewianum</i> , <i>Eleocarpus grandis</i>
Tree 1	<i>Castanopsermum australe</i> , <i>Ficus</i> spp., <i>Myristica globosa</i> , <i>Pisonia umbellifera</i> , <i>Dendrocnide excelsa</i> , <i>Polyscias murrayi</i> , <i>Dysoxylum peltigrewianum</i> , * <i>Spathodea campanulata</i>
Tree 2	<i>Homalanthus novoguineensis</i> , <i>Polyscias elegans</i> , <i>Davidsonia pruruens</i> , <i>Melicope broadbentiana</i> , <i>Macaranga tanarius</i>
Shrubs and tall herbs	<i>Leea indica</i> , <i>Rivina humilis</i> , <i>Alpina caerulea</i> , <i>Solanum mauritianum</i> , * <i>Lantana camara</i> , <i>Dendrocnide excelsa</i>
Ground	<i>Polia macrophylla</i> , <i>Alocasia brisbanensis</i> , <i>Bowenia spectabilis</i> , * <i>Megathursus maximus</i>
Vines and climbers	<i>Bambusa moreheadiana</i> , <i>Piper caninum</i> , <i>Cissus repens</i> , * <i>Rubus alceifolius</i> , <i>Epipremnum pinnatum</i> , <i>Calamus radicalis</i>
Epiphytes	<i>Asplenium australasicum</i> , <i>Drynaria rigidula</i> , <i>Platyterium hillii</i>

* denotes species not native to Australia

The community contains a typical species composition and structure for lowland tropical rainforest in the region. As with much of this type of vegetation, disturbance from surrounding land uses, cyclones and a history of logging is evident throughout. The canopy is broken in some areas and the large trees that remain are generally non-preferred timber species. Non-native pest species are prevalent in some areas, although typically only on the margins of the community. Despite these disturbances, the majority of the community meets the condition thresholds for remnant vegetation status.

Whilst the majority of this community is of remnant status, there are some areas on the margins of the community that are significantly disturbed with an abundance of non-native species. Some of the vegetation on the southern margins is somewhat isolated from the main

community, with little or no understorey and a ground layer comprised of exotic pasture grasses. Other areas that have been subject to historical clearing contain a dense shrub layer of exotic species such as Lantana (*Lantana camara*), Wild Raspberry (*Rubus alceifolius*), Wild Tobacco (*Solanum mauritianum*) and Guinea Grass (*Megathyrsus maximus*) with few, if any, canopy species. Some of these areas are currently incorporated into the regional ecosystem mapping, but they do not meet the criteria for remnant vegetation. The regional ecosystem mapping could be amended to remove these highly disturbed non-remnant areas.

There is a narrow band of vegetation adjacent to the southeast margin of the community that appears to be a small plantation of cabinet timber trees, mostly Queensland Maple (*Flindersia brayleyana*). These trees have been planted and maintained outside the margin of the main community, forming a discrete band of vegetation devoid of any understorey species. Therefore, they do not represent part of the remnant community and the regional ecosystem mapping could be amended to exclude these trees.

There are some clear inaccuracies with the current regional ecosystem mapping, whereby areas that are devoid of woody vegetation have been included in the mapping. This is particularly clear for the northern and eastern edge of the community when the mapping is overlaid on aerial imagery. However, there is also a significant area on the southwest side of the community. The mapping appears to be somewhat misaligned with the remnant vegetation shown on the aerial imagery (see attached map). The error appears to be a consistent problem with the DNRM mapping in the local area. Amending the mapping to exclude these areas where no woody vegetation is present could significantly reduce the extent of mapped remnant vegetation.

Amending the vegetation mapping to exclude the aforementioned non-remnant areas would increase the area available for development without encroaching on mapped remnant vegetation. Areas that could be potentially excluded from the amended mapping are shown in that attached map.

3. Southern Cassowary Habitat

The vegetation management mapping shows that all remnant vegetation within the property is mapped as essential habitat for the Southern Cassowary. This southern population of this species is listed as Endangered under the Queensland *Nature Conservation Act 1992* and the entire population is listed as Endangered under the Commonwealth *Environmental Protection and Biodiversity Conservation Act 1999*.

The vegetation management mapping provides an extract from an essential habitat database that lists essential habitat factors for the prescribed species. Under the VMA, essential habitat is regulated vegetation-

- that has at least three essential habitat factors for the protected wildlife that must include any essential habitat factors that are listed as mandatory; or
- in which the protected wildlife, at any stage of its lifecycle, is located.

The essential habitat extract lists three factors for the Southern Cassowary and the remnant vegetation within the property is consistent with all of these factors. However, as discussed

previously, some of the mapped vegetation is not comprised of remnant quality vegetation. The essential habitat mapping will only apply to the extent of mapped remnant vegetation. Therefore, if the regional ecosystem mapping is amended, the extent of essential habitat will be reduced to the same area.

Despite the presence of these essential habitat factors listed in the database, the remnant vegetation is likely to be of low value to the Southern Cassowary. The main limiting factors with respect to the significance of the area as Southern Cassowary habitat are the size of the vegetation community and its connectivity with the surrounding landscape. The community is relatively small in size and isolated from the surrounding tracts of remnant vegetation. It does not form a corridor between areas of suitable Southern Cassowary habitat, and is mostly surrounded by vast areas of non-remnant vegetation and agricultural land.

It is possible that the Southern Cassowary could occur within the essential habitat area as it is known from the broader area. A review of extracts from the Queensland Government Wildlife Online database revealed there are eight records of the Southern Cassowary within 2km of the essential habitat area that was assessed. However, there are no records within 1km of the assessment area.

4. Vegetation Clearing Restrictions

4.1 Clearing Permits for EVNT Plants

Under the new vegetation management framework, a proponent must determine if the proposed clearing area is within a high risk area on a 'flora survey trigger map'. If the proposed clearing area does occur within a high risk area a flora survey must be undertaken to target endangered, vulnerable and near threatened plants (EVNT plants). If EVNT plants are identified within the proposed clearing area a clearing permit will be required. If EVNT plants are not present or can be avoided by at least 100m an exempt clearing notification form must be submitted. Clearing vegetation outside a high risk area generally does not require a flora survey or a clearing permit. However, an EVNT plant cannot knowingly be cleared or impacted without a clearing permit.

The remnant vegetation within close proximity to the proposed quarry site is outside the high risk area on the flora survey trigger map (see attached map). However, a significant portion of the property is within a high risk area (see map). Targeted EVNT plant surveys may be required for clearing some vegetation on the property to determine whether a clearing permit is required.

No EVNT plant species were recorded during the vegetation and habitat assessment. However, further survey may be required utilising targeted survey techniques for EVNT plant species. Site observations revealed that the majority of the land within the high risk area is dominated by exotic pasture species, with some highly disturbed non-remnant native vegetation within steep gullies.

4.2 Remnant Vegetation

The relevant restrictions for clearing native vegetation are defined in Module 8 of the SDAP. All remnant vegetation within the property has a 'least concern' VMA class and therefore the only relevant performance outcome requirements in Module 8 of the SDAP are related to

connectivity. The performance outcome for the value of connectivity with respect to extractive industries requires that vegetation is retained that:

- is of sufficient size and configured in a way that maintains ecosystem functioning
- remains in the landscape despite threatening processes

The acceptable outcomes for maintaining connectivity are listed in Table 3 of Module 8, and these require that clearing does not:

- occur in areas of vegetation that are less than 10 hectares
- reduce the extent of vegetation to less than 10 hectares
- occur in areas of vegetation less than 100m wide
- reduce the width of vegetation to less than 100m
- occur where the extent of vegetation on the subject lot is reduced to or less than 30 per cent of the total area of the lot

Under these performance outcomes, disturbance to the remnant vegetation area at the north of the property could be considered to have an impact on connectivity. However, it is arguable that this area already has a low value for connectivity and it does not form a link between any habitat areas. Depending on the size of the disturbance, it is possible that value of connectivity and the capacity for this community to persist in the landscape and maintain ecosystem function would not be significantly impacted at any scale.

As discussed previously, it is worth noting that the Queensland Herbarium has identified regional ecosystem 7.8.1 as “approaching the threshold of ‘of concern’ VMA class”. Therefore projects involving the clearing of this vegetation community may be subject to a higher level of scrutiny. Furthermore, this community may be changed to a higher conservation status under the VMA and therefore have more restrictions on clearing.

4.3 Essential Habitat

The full extent of remnant vegetation on the property contains all essential habitat factors listed for the Southern Cassowary. The clearing of remnant vegetation is therefore subject to the requirements of performance objective PO8 in the extractive industry section of Module 8 of the SDAP. Performance object PO8 requires that the current extent of essential habitat is maintained. If the clearing of essential habitat cannot be avoided for the proposed development, there are three acceptable outcomes described in Module 8 of the SDAP:

1. Clearing in essential habitat does not exceed 10 metres width or a total of 0.5 hectares
2. Clearing only occurs where an area of essential habitat is isolated and small in size and at risk from threatening processes, for the prescribed species

3. Where it can be demonstrated that clearing cannot be avoided, and the extent of clearing has been minimised, an environmental offset is provided for any significant residual impact from the clearing of essential habitat.

If the clearing limits of item 1 are to be exceeded, it is considered that there is a strong argument for item 2. The remnant vegetation community is small in size, isolated from the remnant vegetation in the surrounding area and has low connectivity value. Given the small size and isolation of the habitat, it is unlikely that clearing part of this habitat would result in a significant residual impact to the Southern Cassowary. The area is unlikely to be supporting habitat that is critical to the survival of the species and clearing of part of this habitat is unlikely result in a significant decrease to the availability of quality habitat to the extent that the species is likely to decline.

The provision of an environmental offset is a viable option for any significant residual impact from the clearing of essential habitat. However, depending on the scale of the disturbance, it is likely arguable residual impacts would not be significant.

The new environmental offsets framework in Queensland commenced on 1 July 2014. Under the new framework there are now multipliers relevant to each matter of State environmental significance for financial settlement offsets. A multiplier of four is applied for impacts to areas of essential habitat. As an indication of the cost associated with a financial settlement offset at Vasa Views, the online calculator was used to determine the cost of offsetting one hectare of essential habitat at this location. The total cost of the financial offset settlement for one hectare was \$147,752. This does not, however, represent the cost per hectare, as administrative costs will vary depending on the size of the area.

5. Conclusions

The majority of the vegetation shown on the regional ecosystem mapping within the property is remnant vegetation characteristic of regional ecosystem 7.8.1. However, there are some parts of the mapping that could be amended to reduce the level of environmental constraints to the development area. Any reductions to the extent of remnant vegetation mapping will result in an equal reduction to the extent of essential habitat.

The mapped essential habitat areas represent the most significant constraint to development with respect to the clearing of native vegetation. The most feasible approach to minimise constraints related to essential habitat for the development application is considered to be an argument in support of item 2 in section 4.3 of this document.

6. Site Photographs

PHOTOGRAPH	DESCRIPTION
	<p>Assessment Site 1: Disturbed non-remnant vegetation. Low species diversity and numerous exotic species.</p>
	<p>Assessment Site 2: Remnant 7.8.1 vegetation, good condition, complex structure and composition of species listed in Table 1.</p>
	<p>Assessment Site 3: Steep rocky descent on margin. Vegetation similar to assessment site 2, but with a greater number of species that favour wetter rocky areas (e.g. <i>Ficus</i> spp. and ferns)</p>

PHOTOGRAPH	DESCRIPTION
	<p>Assessment Site 4: Steep slope with exposed rock. <i>Ficus</i> spp. common in rock areas. Canopy height and species diversity increases away from the slope.</p>
	<p>Southern margin of remnant vegetation showing a strip of plantation cabinet timber trees</p>
	<p>Margin of remnant vegetation showing isolated trees (mostly <i>Alstonia scholaris</i>) that do not form part of the remnant community.</p>
	<p>Disturbed open area near the margin of the remnant community with limited canopy and shrub/ground layer dominated by exotic pest species.</p>



GILVEAR PLANNING

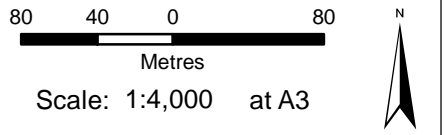
VASA VIEWS QUARRY

VEGETATION ASSESSMENT

Legend

- Cadastral Boundary
- Vegetation Assessment
- Remnant Vegetation Boundary
- Amended Remnant Boundary
- Flora Survey Trigger
- Watercourse

Notes:
 Land Tenure and Cadastre from
 IQ_QLD_CADASTRETENURE_
 \DCDB_CUR (Cairns and Charters
 Towers Regional Council, 2014)
 Hydrology from: IQ_VM_
 WATERCOURSE_
 MAP_100K_250K.shp
 © State
 of Queensland



Coordinate System: GCS GDA 1994
 Datum: GDA 1994

Date: 3/07/2014



Document Path: C:\GIS\Projects\Vasa\Views\NRC_data\maps_mxd\Vegetation_assessment2.mxd

**Attachment 5: Draft Environmental Management Plan
(Separate Attachment)**

RTI RELEASE - DSDILGP

Attachment 6: SDAP Code Compliance

RTI RELEASE - DSDILGP

8.1 Queensland vegetation management state code

Table 8.1.3: General

Performance outcomes	Acceptable outcomes	Response	Comment
Clearing to avoid and minimise impacts			
PO1 Clearing only occurs where the applicant has demonstrated that the development has first avoided, and then minimised the impacts of development.	No acceptable outcome is prescribed.	Complies	The proposed clearing is limited to small section of regulated vegetation along the north-western edge of the proposed extraction site; necessary to access the western face of the resource. The clearing will be progressively restored and appropriate buffers established to the operational area of the quarry to minimise impacts beyond initial clearing.
Clearing on land where compliance notice or enforcement notice, exchange area or offset exists			
PO2 Clearing in an area that is subject to any of the following: (1) a restoration notice, or (2) a compliance notice containing conditions about the restoration of vegetation, or (3) a Land Act notice, or (4) a trespass notice if the trespass related act under the <i>Land Act 1994</i> for the notice is the clearing of vegetation on the relevant land, or (5) an enforcement notice under the <i>Sustainable Planning Act 2009</i> issued for a vegetation clearing offence, or	No acceptable outcome is prescribed.	N/A	The site is not subject to (1) a restoration notice, or (2) a compliance notice containing conditions about the restoration of vegetation, or (3) a Land Act notice, or (4) a trespass notice if the trespass related act under the <i>Land Act 1994</i> for the notice is the clearing of vegetation on the relevant land, or (5) an enforcement notice under the <i>Sustainable Planning Act 2009</i> issued for a vegetation clearing offence, or (6) exchange area, or (7) an environmental offset

Performance outcomes	Acceptable outcomes	Response	Comment
(6) exchange area, or (7) an environmental offset must not be inconsistent with the notice, or impact on the exchange area unless a better environmental outcome can be achieved, or inconsistent with the environmental offset or another agreement related to the environmental offset.			
No clearing of vegetation as a result of the material change of use or reconfiguration of a lot			
PO3 Clearing as a result of the material change of use or reconfiguration of a lot will not occur.	No acceptable outcome is prescribed.	N/A	Not Applicable
Clearing that could already be done under an exemption			
PO4 All clearing is limited to clearing that could be done under an exemption for the purpose of the development (as prescribed under Schedule 24, Parts 1 and 2 of the Sustainable Planning Regulation 2009) prior to the material change of use application being approved.	No acceptable outcome is prescribed.	N/A	Not Applicable

Table 8.1.5: Extractive industry

Performance outcomes	Acceptable outcomes	Response	Comment
Limits to clearing for an extractive industry			
PO1 Clearing is limited to the extent that is necessary for:	No acceptable outcome is prescribed.	Complies	The clearing is limited to the extent necessary for constructing necessary built infrastructure (i.e.

Performance outcomes	Acceptable outcomes	Response	Comment
<ul style="list-style-type: none"> (1) dredging material from the bed of any waters (2) extracting, from a pit or quarry, rock, sand, clay, gravel, loam or other material (3) screening, washing, grinding, milling, sizing or separating material extracted from a pit or quarry (4) carrying out work that is the natural and ordinary consequence of carrying out work mentioned in subparagraphs (1), (2) and (3) above. 			<p>access) to access the western face of the extractive resource.</p>
Clearing is staged			
<p>PO2 Clearing:</p> <ul style="list-style-type: none"> (1) is staged in line with operational needs that restrict clearing to the current operational area (2) is limited to the area from which material will be extracted, and any reasonably associated infrastructure, within the term of the development approval (3) cannot occur until all required permits are obtained. 	<p>No acceptable outcome is prescribed.</p>	<p>Complies</p>	<p>Proposed clearing is limited and will be staged in line with operational needs so that it will be limited to the current operational area and progressively rehabilitated once active extraction site is exhausted. The area to be cleared is limited to less than 0.5 hectares and 10m width to gain access to the western face of the resource, to ensure that the extraction can occur efficiently.</p>

Performance outcomes	Acceptable outcomes	Response	Comment
Wetlands			
<p>PO3 Maintain the current extent of vegetation associated with any natural wetland to protect:</p> <p>(1) water quality by filtering sediments, nutrients and other pollutants</p> <p>(2) aquatic habitat</p> <p>(3) terrestrial habitat.</p>	<p>AO3.1 Clearing does not occur in, or within 100 metres of, any natural wetland.</p> <p>OR</p>	Complies	Clearing is not proposed within 100m of any natural wetland.
	<p>AO3.2 Clearing only occurs within 100 metres of any natural wetland where:</p> <p>(1) the clearing does not occur within 50 metres of the of the natural wetland, or</p> <p>(2) the widths stipulated by Table 1 are not exceeded.</p> <p>OR</p>		
	<p>AO3.3 Where it can be demonstrated that clearing cannot be avoided, and the extent of clearing has been minimised, an environmental offset is provided for any significant residual impact from clearing of vegetation associated with a natural wetland</p> <p>Editor's note: Applications for development should identify whether there is likely to be a significant residual impact and a need for an environmental offset having regard to the relevant Queensland Environmental Offsets Policy.</p>	N/A	
Watercourses			
<p>PO4 Maintain the current extent of vegetation associated with any watercourse to protect:</p> <p>(1) bank stability by protecting against bank erosion</p> <p>(2) water quality by filtering sediments, nutrients and other</p>	<p>AO4.1 Clearing does not occur:</p> <p>(1) in any watercourse</p> <p>(2) within the relevant distance stipulated in Table 2 of the defining bank of any watercourse.</p> <p>OR</p>	Complies	Proposal does not include clearing within or adjacent to a watercourse shown on the vegetation watercourse map.
	<p>AO4.2 Clearing only occurs within any watercourse or within the relevant distance stipulated by Table 2</p>	N/A	

Performance outcomes	Acceptable outcomes	Response	Comment
<p>pollutants</p> <p>(3) aquatic habitat</p> <p>(4) terrestrial habitat.</p>	<p>of the defining bank of any watercourse where:</p> <p>(1) the clearing does not occur within 5 metres of the defining bank, or</p> <p>(2) the widths stipulated by Table 1 is not exceeded.</p> <p>OR</p>		
	<p>AO4.3 Where it can be demonstrated that clearing cannot be avoided, and the extent of clearing has been minimised, an environmental offset is provided for any significant residual impacts from clearing of vegetation associated with any watercourse.</p> <p>Editor's note: Applications for development should identify whether there is likely to be a significant residual impact and a need for an environmental offset having regard to the relevant Queensland Environmental Offsets Policy.</p>	N/A	
Connectivity			
<p>PO5 In consideration of vegetation on the subject lot(s) and in the landscape adjacent to the subject lot(s), vegetation is retained that:</p> <p>(1) is of sufficient size and configured in a way that maintains ecosystem functioning</p> <p>(2) remains in the landscape despite threatening processes.</p>	<p>AO5.1 Clearing occurs in accordance with Table 3.</p>	<p>Complies</p>	<p>The area of vegetation where clearing is proposed has a total area of 13 hectares and width of variable sizes, of which minimum is 130m. Therefore, clearing of less than 0.5 hectares will not reduce this area to less than 10 hectares or to a width less than 100m.</p> <p>In terms of connectivity, the mapped extent of vegetation has a low value for connectivity as it does not form a link between any habitat areas and is isolated.</p> <p>Due to the limited extent of clearing proposed, it is considered that the value of the connectivity and the capacity for this community to persist in the landscape and maintain ecosystem function would not be significantly impacted.</p>
Salinity			

Performance outcomes	Acceptable outcomes	Response	Comment
PO6 Clearing does not contribute to land degradation through: (1) waterlogging, or (2) the salinisation of groundwater, surface water or soil.	AO6.1 Clearing does not occur in or within 200 metres of a discharge area or recharge area. OR	N/A	Clearing does not occur within 200m of a known discharge or recharge area.
	AO6.2 Clearing is less than: (1) 2 hectares, or (2) 10 metres wide.	N/A	In any event, the proposed clearing is less than 0.5 hectares.
Conserving endangered and of concern regional ecosystems			
PO7 Maintain the current extent of endangered regional ecosystems and of concern regional ecosystems.	AO7.1 Clearing does not occur in (1) an endangered regional ecosystem, or (2) an of concern regional ecosystem. OR	Complies	Clearing is proposed within a 'Least Concern' Regional ecosystem.
	AO7.2 Clearing in an endangered regional ecosystem or an of concern regional ecosystem does not exceed the width or area prescribed in Table 1. OR	N/A	Compliance achieved at AO7.1
	AO7.3 Where it can be demonstrated that clearing cannot be avoided, and the extent of clearing has been minimised, an environmental offset is provided for any significant residual impact from the clearing of endangered regional ecosystems and of concern regional ecosystems. Editor's note: Applications for development should identify whether there is likely to be a significant residual impact and a need for an environmental offsets having regard to the relevant Queensland Environmental Offsets Policy.	N/A	Compliance achieved at AO7.1
Essential habitat			

Performance outcomes	Acceptable outcomes	Response	Comment
PO8 Maintain the current extent of essential habitat.	AO8.1 Clearing does not occur in an area of essential habitat. OR	Does not Comply	Proposed clearing is within mapped Essential Habitat for the Southern Cassowary.
	AO8.2 Clearing in essential habitat does not exceed the width or area prescribed in Table 1. OR	Complies	Clearing is limited to less than 0.5 hectares and 10m in width, in accordance with table 1.
	AO8.3 Clearing only occurs where an area of essential habitat is isolated and small in size and at risk from threatening processes, for the prescribed species. OR	Complies	The mapped extent of vegetation that forms the Essential Habitat is small in size and isolated from other habitat areas. The area is unlikely to be supporting habitat that is critical to the survival of the species and is under threat from weed invasion and current rural pursuits. AS such, clearing is unlikely to result in a significance decrease to the availability of quality habitat to the extent that the species will decline.
	AO8.4 Where it can be demonstrated that clearing cannot be avoided, and the extent of clearing has been minimised, an environmental offset is provided for any significant residual impact from the clearing of essential habitat. Editor's note: Applications for development should identify whether there is likely to be a significant residual impact and a need for an environmental offset having regard to the relevant Queensland Environmental Offsets Policy.	Complies	Proposal complies with both AO8.2 and AO8.3 above.
Acid sulfate soils			
PO9 Clearing activities do not result in the disturbance of acid sulfate soils or changes to the hydrology of the location that will either: (1) aerate horizons containing iron	AO9.1 Clearing does not occur in land zone 1, land zone 2 or land zone 3. OR	N/A	The proposed clearing does not occur in a Land Zone 1, 2 or 3.
	AO9.2 Clearing in land zone 1, land zone 2 or land zone 3 in areas below the 5 metre Australian Height Datum only occurs where:	N/A	As above

Performance outcomes	Acceptable outcomes	Response	Comment
sulfides, or (2) mobilise acid or metals.	(1) it does not involve mechanical clearing (2) the acid sulfate soils are managed consistent with the <i>State Planning Policy</i> , and with the <i>Soil Management Guidelines in the Queensland Acid Sulfate Soil Technical Manual</i> , Department of Natural Resources and Mines, 2002. OR		
	AO9.3 The application is a development application where a local government is the assessment manager.		

18.1 Filling, excavation and structures state code

Table 18.1.1: All development

Performance outcomes	Acceptable outcomes	Response	Comment
All development			
PO1 Buildings, services, structures and utilities do not adversely impact on the safety or operation of: <ol style="list-style-type: none"> (1) state transport corridors (2) future state transport corridors (3) state transport infrastructure 	AO1.1 Buildings, structures, services and utilities are not located in a railway or future railway land. AND	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	AO1.2 Buildings and structures are set back horizontally a minimum of three metres from overhead line equipment. Editor's note: <i>Part A.10 – Clearances</i> and <i>Part B.1 Setbacks</i> of the <i>Guide for development in a railway environment</i> , Department of Infrastructure and Planning, 2010, provides guidance on how to comply with this acceptable outcome. AND	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	AO1.3 Construction activities do not encroach into a railway. AND	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	AO1.4 The lowest part of development in or over a railway or future railway land is to be a minimum of: <ol style="list-style-type: none"> (1) 7.9 metres above the railway track where the proposed development extends along the railway for a distance of less than 40 metres, or (2) 9.0 metres above the railway track where the development extends along the railway for a distance of between 40 and 80 metres. Editor's note: <i>Part A.10 – Clearances</i> of the <i>Guide for development in a railway environment</i> , Department of Infrastructure and Planning, 2010, provides guidance on how to comply with this acceptable outcome. AND	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	AO1.5 Existing authorised access points and access routes to state transport corridors for maintenance and emergency works are maintained. AND	N/A	Proposal is not located within or adjacent to a railway infrastructure.

Performance outcomes	Acceptable outcomes	Response	Comment
	AO1.6 Pipe work, services and utilities can be maintained without requiring access to the state transport corridor. AND	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	AO1.7 Pipe work, services and utilities are not attached to rail transport infrastructure. AND	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	AO1.8 Buildings and structures are set back a minimum of three metres from a railway viaduct. Editor's note: <i>Part A.14 – Viaducts</i> and <i>Part B.11 Viaducts</i> of the <i>Guide for development in a railway environment</i> , Department of Infrastructure and Planning, 2010, provides guidance on how to comply with this acceptable outcome. AND	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	AO1.9 Development below or abutting a railway viaduct is to be clear of permanent structures or any other activity that may impede emergency access or works and maintenance of rail transport infrastructure. Editor's note: Temporary activities below or abutting a railway viaduct could include, for example, car parking or outdoor storage.	N/A	Proposal is not located within or adjacent to a railway infrastructure.
PO2 Development prevents unauthorised access to: (1) state transport corridors, (2) future state transport corridors, (3) state transport infrastructure, by people, vehicles and projectiles.	AO2.1 Fencing is provided along the property boundary with the railway. Editor's note: Where fencing is provided it is to be in accordance with the railway manager's standards. AND	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	AO2.2 Accommodation activities with a publicly accessible area located within 10 metres from the boundary of a railway or 20 metres from the centreline of the nearest railway track (whichever is the shorter distance), include throw protection screens for the publicly accessible area as follows: (1) openings of no greater than 25 mm x 25 mm (2) height of 2.4 metres vertically above the highest toe	N/A	Proposal is not located within or adjacent to a railway infrastructure.

Performance outcomes	Acceptable outcomes	Response	Comment
	<p>hold if see-through, or 2 metres if non see-through. Editor's note: Expanded metal is considered see-through. AND</p>		
	<p>AO2.3 Development in a railway or future railway land includes throw protection screens. Editor's note: Throw protection screens in a railway or future railway land designed in accordance with the relevant provisions of the <i>Civil Engineering Technical Requirement CIVIL-SR-005 Design of buildings over or near railways</i>, Queensland Rail, 2011, and the <i>Civil Engineering Technical Requirement CIVIL-SR-008 Protection screens</i>, Queensland Rail, 2011, comply with this acceptable outcome. AND</p>	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	<p>AO2.4 Built to boundary walls and solid fences abutting a railway are protected by an anti-graffiti coating. AND</p>	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	<p>AO2.5 Road barriers are installed along any proposed roads abutting a railway. Editor's note: Road barriers designed in accordance with Queensland Rail <i>Civil Engineering Technical Requirement CIVIL-SR-007 Design and selection criteria for road/rail interface barriers</i> comply with this acceptable outcome. AND</p>	N/A	Proposal is not located within or adjacent to a railway infrastructure.
	<p>AO2.6 Proposed vehicle manoeuvring areas, driveways, loading areas or carparks abutting a railway include rail interface barriers. Editor's note: A Registered Professional Engineer of Queensland (RPEQ) certified barrier design complies with this acceptable outcome.</p>	N/A	Proposal is not located within or adjacent to a railway infrastructure.
<p>PO3 Buildings and structures in, over or below a railway or future railway land are able to sustain impacts to their structural integrity in the event of an impact from a derailed train.</p>	<p>AO3.1 Buildings and structures, including piers or supporting elements, located in, over or below a railway or future railway land are designed and constructed in accordance with <i>AS5100 Bridge design</i>, <i>AS 1170 Structural design actions</i> and <i>Civil Engineering Technical Requirement CIVIL-SR-012 Collision protection of supporting elements</i></p>	N/A	Proposal is not located within or adjacent to a railway infrastructure.

Performance outcomes	Acceptable outcomes	Response	Comment
	<p><i>adjacent to railways</i>, Queensland Rail, 2011.</p> <p>Editor's note: <i>Part A.9 – Collision protection of the Guide for development in a railway environment</i>, Department of Infrastructure and Planning, 2010, provides guidance on how to comply with this acceptable outcome.</p>		
PO4 Buildings and structures in, over, below or within 50 metres of a state-controlled transport tunnel or a future state-controlled transport tunnel have no adverse impact on the structural integrity of the state-controlled transport tunnel.	<p>AO4.1 Development in, over, below or within 50 metres of a state-controlled transport tunnel or future state-controlled transport tunnel ensures that the tunnel is:</p> <ol style="list-style-type: none"> (1) not vertically overloaded or affected by the addition or removal of lateral pressures (2) not adversely affected as a result of directly or indirectly disturbing groundwater or soil. <p>Editor's note: To demonstrate compliance with this acceptable outcome, it is recommended that a Registered Professional Engineer of Queensland (RPEQ) certified geotechnical assessment, groundwater assessment and structural engineering assessment be prepared and submitted with the application.</p>	N/A	No buildings or structures are located in, over, below or within 50 metres of a state-controlled transport tunnel or future tunnel.
PO5 Development involving dangerous goods adjacent to a railway or future railway land does not adversely impact on the safety of a railway.	<p>AO5.1 Development involving dangerous goods, other than hazardous chemicals below the threshold quantities listed in table 5.2 of the <i>State Planning Policy guideline: State interest – emissions and hazardous activities, Guidance on development involving hazardous chemicals</i>, Department of State Development, Infrastructure and Planning, 2013, ensures that impacts on a railway from a fire, explosion, spill, gas emission or dangerous goods incident can be appropriately mitigated.</p> <p>Editor's note: To demonstrate compliance with this acceptable outcome, it is recommended that a risk assessment be undertaken in accordance with <i>Attachment 1: Risk assessment guide of the Guide for development in a railway environment</i>, Department of Infrastructure and Planning, 2010.</p>	N/A	Development does not involve dangerous goods adjacent to a railway or future railway land.
PO6 Any part of the development located within 25 metres of a state-controlled road or future state-controlled road minimises the potential to distract drivers and cause a safety hazard.	<p>AO6.1 Advertising devices proposed to be located within 25 metres of a state-controlled road or future state-controlled road are designed to meet the relevant standards for advertising outside the boundaries of, but visible from, a state-controlled road, outlined within the <i>Roadside advertising guide</i>, Department of Transport and Main Roads, 2013.</p>	N/A	No advertising devices are proposed.
PO7 Filling, excavation and construction does not adversely impact on or	<p>AO7.1 Filling and excavation does not undermine, cause subsidence of, or groundwater seepage onto a state</p>	Complies	Proposed development will contain all stormwater associated with the extraction on site and will not increase

Performance outcomes	Acceptable outcomes	Response	Comment
compromise the safety or operation of: (1) state transport corridors, (2) future state transport corridors, (3) state transport infrastructure.	transport corridor or future state transport corridor. Editor's note: To demonstrate compliance with this acceptable outcome for a state-controlled road, it is recommended that a filling and excavation report assessing the proposed filling and excavation be prepared in accordance with the requirements of the <i>Road planning and design manual</i> , Department of Transport and Main Roads, 2013. Editor's note: If a development involves filling and excavation within a state-controlled road, an approval issued by the Department of Transport and Main Roads under section 33 of the <i>Transport Infrastructure Act 1994</i> may be required. AND		the existing stormwater/overland flow onto the state controlled road.
	AO7.2 Development within 25 metres of a railway and involving excavation for basement levels or structural piling does not result in vibration impacts during construction which would compromise the safety and operational integrity of the railway. Editor's note: To demonstrate compliance with this acceptable outcome it is recommended that an RPEQ certified geotechnical report be prepared and submitted with the application. Editor's note: Development within 25 metres of a railway may require an RPEQ certified vibration monitoring plan for the construction phase of development as a condition of approval.	N/A	Site is not within 25m of a railway corridor.
P08 Filling and excavation does not interfere with or impact on existing or future planned services or public utilities on a state-controlled road.	AO8.1 Any alternative service and public utility alignment must satisfy the standards and design specifications of the service or public utility provider, and any costs of relocation are borne by the developer. Editor's note: An approval issued by the Department of Transport and Main Roads under section 33 of the <i>Transport Infrastructure Act 1994</i> may be required.	Complies	Any proposed road works associated within the development can be undertaken to ensure that realignment, if required will meet the standards and design specifications of the relevant provider. Further detail will be provided once upgrades to the intersection is negotiated.
P09 Retaining or reinforced soil structures required to contain fill and excavation: (1) do not encroach on a state transport corridor (2) are capable of being constructed and maintained without adversely impacting a state transport corridor	AO9.1 Retaining or reinforced soil structures (including footings, rock anchors and soil nails) are not located in a state transport corridor or future state transport corridor. AND	N/A	No development is proposed within 25m of the State Controlled Road.
	AO9.2 Retaining or reinforced soil structures in excess of an overall height of one metre abutting a state transport corridor are to be designed and certified by a structural	N/A	No development is proposed within 25m of the State Controlled Road.

Performance outcomes	Acceptable outcomes	Response	Comment
(3) are constructed of durable materials which maximise the life of the structure.	RPEQ. Editor's note: To demonstrate compliance with this acceptable outcome a RPEQ report should demonstrate that the works will not destabilise state transport infrastructure or the land supporting this infrastructure. AND		
	AO9.3 Retaining or reinforced soil structures that are set back less than 750 millimetres from a common boundary with a state-controlled road are certified by a structural RPEQ and designed to achieve a low maintenance external finish. AND	N/A	No development is proposed within 25m of the State Controlled Road.
	AO9.4 Retaining or reinforced soil structures adjacent to a state-controlled road, and in excess of an overall height of two metres, incorporate design treatments (such as terracing or planting) to reduce the overall height impact. AND	N/A	No development is proposed within 25m of the State Controlled Road.
	AO9.5 Construction materials of all retaining or reinforced soil structures have a design life exceeding 40 years, and comply with the specifications approved by a RPEQ. AND	N/A	No development is proposed within 25m of the State Controlled Road.
	AO9.6 Temporary structures and batters do not encroach into a railway.	N/A	No development is proposed within 25m of the State Controlled Road.
PO10 Filling and excavation does not cause siltation and erosion run-off from the property, or wind blown dust nuisance onto a state-controlled road.	AO10.1 Compaction of fill is carried out in accordance with the requirements of <i>AS 1289.0 2000 – Methods of testing soils for engineering purposes</i> .	Complies	Appropriate ESCP measures will be implemented on site as part of the Site Based Management Plan to ensure that there is no nuisance caused onto State Controlled Road.
PO11 Where the quantity of fill or excavated spoil material being imported or exported for a development exceeds 10 000 tonnes, and haulage will be on a state-controlled road, any impact on the infrastructure is identified and mitigation measures implemented.	AO11.1 The impacts on the state-controlled road network are identified, and measures are implemented to avoid, reduce or compensate the effects on the asset life of the state-controlled road. Editor's note: It is recommended that a pavement impact assessment report be prepared to address this acceptable outcome. Guidance for preparing a pavement impact assessment is set out in <i>Guidelines for assessment of road impacts of development (GARID)</i> , Department of Transport and Main Roads, 2006.	Complies	A Traffic Impact Assessment is currently being prepared to identify any upgrades and impacts on the state-controlled road network associated with the extraction activity. This will be undertaken in accordance with GARID and submitted shortly.
PO12 Filling and excavation associated with providing a driveway crossover to a	AO12.1 Filling and excavation associated with the design of driveway crossovers complies with the relevant Institute	N/A	No driveway crossovers are proposed on the State Controlled Road.

Performance outcomes	Acceptable outcomes	Response	Comment
state-controlled road does not compromise the operation or capacity of existing drainage infrastructure.	of Public Works Engineering Australia Queensland (IPWEAQ) standards. Editor's note: The construction of any crossover requires the applicant to obtain a permit to work in the state-controlled road corridor under section 33 of the <i>Transport Infrastructure Act 1994</i> and a section 62 approval under the <i>Transport Infrastructure Act 1994</i> for the siting of the access and associated works.		
PO13 Fill material does not cause contamination from the development site onto a state-controlled road.	AO13.1 Fill material is free of contaminants including acid sulphate content, and achieves compliance with <i>AS 1289.0 – Methods of testing soils for engineering purposes</i> and <i>AS 4133.0-2005 – Methods of testing rocks for engineering purposes</i> .	Complies	No PASS or AASS occurs on site.
PO14 Vibration generated through fill compaction does not result in damage or nuisance to a state-controlled road.	AO14.1 Fill compaction does not result in any vibrations beyond the site boundary, and is in accordance with <i>AS 2436-2010 – Guide to noise and vibration control on construction, demolition and maintenance sites</i> .	N/A	No fill compaction is proposed.

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18.2 Stormwater and drainage impacts on state transport infrastructure state code

Table 18.2.1: All development

Performance outcomes	Acceptable outcomes	Response	Comment
Stormwater and drainage management			
<p>PO1 Stormwater management for the development must ensure there is no worsening of, and no actionable nuisance in relation to peak discharges, flood levels, frequency or duration of flooding, flow velocities, water quality, ponding, sedimentation and scour effects on an existing or future state transport corridor for all flood and stormwater events that exist prior to development, and up to a 1 per cent annual exceedance probability.</p>	<p>AO1.1 The development does not result in stormwater or drainage impacts or actionable nuisance within an existing or future state transport corridor.</p> <p>Editor's note: It is recommended that basic stormwater information is to be prepared to demonstrate compliance with AO1.1.</p> <p>OR</p>	Complies	The proposed development is contained within the site, further than 100m from the State Controlled Road. All stormwater will be directed to a lawful point of discharge as part of the operation. Majority of stormwater associated with the extraction will be contained on site in sediment ponds, before being reused on site for Dust control.
	<p>AO1.2 A stormwater management statement certified by an RPEQ demonstrates that the development will achieve a no worsening impact or actionable nuisance on an existing or future state transport corridor.</p> <p>OR</p>	N/A	Stormwater Management Plan, as part of the Erosion and Sediment Control Plan included within the Draft Environmental Management Plan outlines the proposed treatment for the site. As state above however, the extraction activity occurs in areas which do not discharge to state controlled road network and will not increase stormwater discharge from the site.
	<p>AO1.3 A stormwater management plan certified by an RPEQ demonstrates that the development will achieve a no worsening impact or actionable nuisance on a state-controlled road.</p> <p>OR</p>	N/A	Stormwater Management Plan, as part of the Erosion and Sediment Control Plan included within the Draft Environmental Management Plan outlines the proposed treatment for the site. As state above however, the extraction activity occurs in areas which do not discharge to state controlled road network and will not increase stormwater discharge from the site.
	<p>AO1.4 For development on premises within 25 metres of a railway, a stormwater management plan certified by an RPEQ demonstrates that:</p> <ul style="list-style-type: none"> (1) the development will achieve a no worsening impact or actionable nuisance on the railway (2) the development does not cause stormwater, roofwater, ponding, floodwater or any other drainage to be directed to, increased or concentrated on the railway (3) the development does not impede any drainage, stormwater or floodwater flows from the railway (4) stormwater or floodwater flows have been designed to: <ul style="list-style-type: none"> (a) maintain the structural integrity of the light rail 	N/A	Development is not within 25m of railway land.

Performance outcomes	Acceptable outcomes	Response	Comment
	transport infrastructure (b) avoid scour or deposition (5) additional railway formation drainage necessitated by the development is located within the premises where the development is carried out (6) retaining structures for excavations abutting the railway corridor provide for drainage.		
Lawful point of discharge			
PO2 Stormwater run-off and drainage are directed to a lawful point of discharge to avoid adverse impacts on a future or existing state transport corridor.	AO2.1 Where stormwater run-off is discharged to a state transport corridor, the discharge is to a lawful point of discharge in accordance with section 1.4.3 of the <i>Road drainage manual</i> , Department of Transport and Main Roads, 2010 and section 3.02 of <i>Queensland urban drainage manual</i> , Department of Natural Resources and Mines, 2013. OR	N/A	Discharge associated with the proposed development is not to State Controlled Road. It is contained within the site, and discharged to Moody Road and other areas.
	AO2.2 For development on premises within 25 metres of a railway, approval from the relevant railway manager for the railway, as defined in the <i>Transport Infrastructure Act 1994</i> , schedule 6 has been gained to verify the lawful point of discharge for stormwater onto the railway. AND	N/A	Development is not within 25m of railway land.
	AO2.3 Development does not cause a net increase in or concentration of stormwater or floodwater flows discharging onto the state transport corridor during construction or thereafter. AND	Complies	Discharge associated with the proposed development is not to State Controlled Road. The proposed development will not cause a net increase in or concentration of stormwater flows, as this will mostly be contained on site in sediment ponds, with excess water being recycled for use on site for dust suppression.
	AO2.4 Development does not create any additional points of discharge or changes to the condition of an existing lawful point of discharge to the state transport corridor.	Complies	Development does not create any additional points of discharge or changes to the condition of existing lawful points of discharge.
Sediment and erosion management			
PO3 Run-off from upstream development is managed to ensure that sedimentation and erosion do not cause siltation of stormwater infrastructure in the state	AO3.1 Development with a moderate to high risk of erosion incorporates erosion and sediment control measures. Editor's note: For a state-controlled road where a development	Complies	An erosion and sediment control plan forms part of the Environmental Management Plan.

Performance outcomes	Acceptable outcomes	Response	Comment
transport corridor.	has a moderate to high risk of erosion as per section 13.5 of the <i>Road drainage manual</i> , Department of Transport and Main Roads, 2010, an erosion and sedimentation control plan should be provided to support either a stormwater management statement or stormwater management plan.		

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19.1 Access to state-controlled roads state code

Table 19.1.1: All development

Performance outcomes	Acceptable outcomes	Response	Comment
Location of the direct vehicular access to the state-controlled road			
PO1 Any road access location to the state-controlled road from adjacent land does not compromise the safety and efficiency of the state-controlled road.	AO1.1 Any road access location to the state-controlled road complies with a decision under section 62 of the TIA. OR	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
	AO1.2 Development does not propose a new or temporary road access location, or a change to the use or operation of an existing permitted road access location to a state-controlled road. OR	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
	AO1.3 Any proposed road access location for the development is provided from a lower order road where an alternative to the state-controlled road exists. OR all of the following acceptable outcomes apply	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
	AO1.4 Any new or temporary road access location, or a change to the use or operation of an existing permitted road access location, demonstrates that the development: <ul style="list-style-type: none"> (1) does not exceed the acceptable level of service of a state-controlled road (2) meets the sight distance requirements outlined in Volume 3, parts 3, 4, 4A, 4B and 4C of the Road planning and design manual, 2nd edition, Department of Transport and Main Roads, 2013 (3) does not exceed the acceptable operation of an intersection with a state-controlled road, including the degree of saturation, delay, queuing lengths and intersection layout (4) is not located within and/or adjacent to an existing or planned intersection in accordance with Volume 3, parts 4, 4A, 4B and 4C of the Road planning and design manual, 2nd edition, Department of Transport and Main Roads, 2013 (5) does not conflict with another property's road access location and operation 	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.

Performance outcomes	Acceptable outcomes	Response	Comment
	<p>Editor's Note: To demonstrate compliance with this acceptable outcome, it is recommended a traffic impact assessment be developed in accordance with Chapters 1, 4, 6, 7, 8 and 9 of the Guidelines for assessment of road impacts of development (GARID), Department of Main Roads, 2006, and the requirements of Volume 3, parts 4, 4A, 4B and 4C of the Road planning and design manual, 2nd edition, Department of Transport and Main Roads, 2013, SIDRA analysis or traffic modelling.</p> <p>AND</p>		
	<p>AO1.5 Development does not propose a new road access location to a limited access road.</p> <p>Editor's note: Limited access roads are declared by the chief executive under section 54 of the TIA. Details can be accessed by contacting the appropriate DTMR regional office.</p>	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
Number of road accesses to the state-controlled road			
PO2 The number of road accesses to the state-controlled road maintains the safety and efficiency of the state-controlled road.	<p>AO2.1 Development does not increase the number of road accesses to the state-controlled road.</p> <p>AND</p>	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
	<p>AO2.2 Where multiple road accesses to the premises exist, access is rationalised to reduce the overall number of road accesses to the state-controlled road.</p> <p>AND</p>	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
	<p>AO2.3 Shared or combined road accesses are provided for adjoining land having similar uses to rationalise the overall number of direct accesses to the state-controlled road.</p> <p>Editor's note: Shared road accesses may require easements to provide a legal point of access for adjacent lots. If this is required, then the applicant must register reciprocal access easements on the titles of any lots for the shared access.</p>	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
Design vehicle and traffic volume			
PO3 The design of any road access maintains the safety and efficiency of the	AO3.1 Any road access meets the minimum standards associated with the design vehicle.	Complies	While no direct access from the site to the Bruce Highway is proposed, the intersection of Moody Road and the Bruce

Performance outcomes	Acceptable outcomes	Response	Comment
state-controlled road.	Editor's note: The design vehicle to be considered is the same as the design vehicle set under the relevant local government planning scheme. AND		Highway will require upgrading to include acceleration and deceleration lanes for the left in; left out movements. An existing channelized right turn exists which is anticipated to be sufficient for the proposed traffic movements and vehicle types. Further information in the form of a Traffic Impact Assessment will be submitted shortly, demonstrating compliance with the Acceptable Outcomes.
	AO3.2 Any road access is designed to accommodate the forecast volume of vehicle movements in the peak periods of operation or conducting the proposed use of the premises. AND	Complies	While no direct access from the site to the Bruce Highway is proposed, the intersection of Moody Road and the Bruce Highway will require upgrading to include acceleration and deceleration lanes for the left in; left out movements. An existing channelized right turn exists which is anticipated to be sufficient for the proposed traffic movements and vehicle types. Further information in the form of a Traffic Impact Assessment will be submitted shortly, demonstrating compliance with the Acceptable Outcomes.
	AO3.3 Any road access is designed to accommodate 10 year traffic growth past completion of the final stage of development in accordance with GARID. AND	Complies	While no direct access from the site to the Bruce Highway is proposed, the intersection of Moody Road and the Bruce Highway will require upgrading to include acceleration and deceleration lanes for the left in; left out movements. An existing channelized right turn exists which is anticipated to be sufficient for the proposed traffic movements and vehicle types. Further information in the form of a Traffic Impact Assessment will be submitted shortly, demonstrating compliance with the Acceptable Outcomes.
	AO3.4 Any road access in an urban location is designed in accordance with the relevant local government standards or IPWEAQ R-050, R-051, R-052 and R-053 drawings. AND	Complies	While no direct access from the site to the Bruce Highway is proposed, the intersection of Moody Road and the Bruce Highway will require upgrading to include acceleration and deceleration lanes for the left in; left out movements. An existing channelized right turn exists which is anticipated to be sufficient for the proposed traffic movements and vehicle types. Further information in the form of a Traffic Impact Assessment will be submitted shortly, demonstrating compliance with the Acceptable Outcomes.
	AO3.5 Any road access not in an urban location is designed in accordance with Volume 3, parts 3, 4 and 4A of the Road planning and design manual, 2nd edition, Department of Transport and Main Roads, 2013.	Complies	While no direct access from the site to the Bruce Highway is proposed, the intersection of Moody Road and the Bruce Highway will require upgrading to include acceleration and deceleration lanes for the left in; left out movements. An existing channelized right turn exists which is anticipated to be sufficient for the proposed traffic movements and vehicle types. Further information in the form of a Traffic Impact

Performance outcomes	Acceptable outcomes	Response	Comment
			Assessment will be submitted shortly, demonstrating compliance with the Acceptable Outcomes.
Internal and external manoeuvring associated with direct vehicular access to the state-controlled road			
PO4 Turning movements for vehicles entering and exiting the premises via the road access maintain the safety and efficiency of the state-controlled road.	AO4.1 The road access provides for left in and left out turning movements only. AND	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
	AO4.2 Internal manoeuvring areas on the premises are designed so the design vehicle can enter and leave the premises in a forward gear at all times. Editor's note: The design vehicle to be considered is the same as the design vehicle set under the relevant local government planning scheme.	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
PO5 On-site circulation is suitably designed to accommodate the design vehicle associated with the proposed land use, in order to ensure that there is no impact on the safety and efficiency of the state-controlled road.	AO5.1 Provision of on-site vehicular manoeuvring space is provided to ensure the flow of traffic on the state-controlled road is not compromised by an overflow of traffic queuing to access the site in accordance with <i>AS2890 – Parking facilities</i> . AND	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
	AO5.2 Mitigation measures are provided to ensure that the flow of traffic on the state-controlled road is not disturbed by traffic queuing to access the site.	N/A	No direct access to the State Controlled Road is proposed. Access will be via Moody Road.
Vehicular access to local roads within 100 metres of an intersection with a state-controlled road			
PO6 Development having road access to a local road within 100 metres of an intersection with a state-controlled road maintains the safety and efficiency of the state-controlled road.	AO6.1 The road access location to the local road is located as far as possible from where the road intersects with the state-controlled road and accommodates existing operations and planned upgrades to the intersection or state-controlled road. AND	Complies	The road access location to the local road is at the termination of Moody Road. Further information in the form of a Traffic Impact Assessment will be submitted shortly, demonstrating compliance with the Acceptable Outcomes.
	AO6.2 The road access to the local road network is in accordance with Volume 3, parts 3, 4 and 4A of the Road planning and design manual, 2nd edition, Department of Transport and Main Roads, 2013, and is based on the volume of traffic and speed design of both the local road and intersecting state-controlled road for a period of 10	Complies	The road access location to the local road is at the termination of Moody Road. Further information in the form of a Traffic Impact Assessment will be submitted shortly, demonstrating compliance with the Acceptable Outcomes.

Performance outcomes	Acceptable outcomes	Response	Comment
	years past completion of the final stage of development. AND		
	AO6.3 Vehicular access to the local road and internal vehicle circulation is designed to remove or minimise the potential for vehicles entering the site to queue in the intersection with the state-controlled road or along the state-controlled road itself.	Complies	The road access location to the local road is at the termination of Moody Road. Further information in the form of a Traffic Impact Assessment will be submitted shortly, demonstrating compliance with the Acceptable Outcomes. It is anticipated that upgrade to the Moody Road/Bruce Highway intersection will be required to accommodate expected traffic movements and vehicle types.

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19.2 Transport infrastructure and network design state code

Table 19.2.1: All development

Performance outcomes	Acceptable outcomes	Response	Comment
All state transport infrastructure – except state-controlled roads			
<p>PO1 Development does not compromise the safe and efficient management or operation of state transport infrastructure or transport networks.</p> <p>Editor's note: To demonstrate compliance with this performance outcome, it is recommended that a traffic impact assessment be prepared. A traffic impact assessment should identify any upgrade works required to mitigate impacts on the safety and operational integrity of the state transport corridor, including any impact on a railway crossing. An impact on a level crossing may require an Australian Level Crossing Assessment Model (ALCAM) assessment to be undertaken.</p>	No acceptable outcome is prescribed.	Complies	A Traffic Impact Assessment is currently being prepared by Black and More and will be submitted as soon as it becomes available. Preliminary investigations have concluded that to ensure the safe and efficient operation of the State Controlled Road (Bruce Highway) an upgrade to the existing intersection to provide for acceleration and deceleration lanes for the left in – left out movements into Moody Road will be required
<p>PO2 Development does not compromise planned upgrades to state transport infrastructure or the development of future state transport infrastructure in future state transport corridors.</p> <p>Editor's note: Written advice from DTMR advising that there are no planned upgrades of state transport infrastructure or future state transport corridors that will be compromised by the development, will assist in addressing this performance outcome.</p>	<p>AO2.1 The layout and design of the proposed development accommodates planned upgrades to state transport infrastructure.</p> <p>AND</p>	N/A	Property Search confirms that there are no property requirements for the site for planned upgrades. There is a 'floating' road reservation on title; however no reconfiguration is being proposed currently and the proposed activity is located sufficient distance from the State Controlled Road boundary so as not to prejudice any future upgrade or property requirements.
	<p>AO2.2 The layout and design of the development accommodates the delivery of state transport infrastructure in future state transport corridors .</p> <p>Editor's note: To demonstrate compliance with this acceptable outcome, it is recommended that a traffic impact assessment be prepared.</p>	N/A	As above
State-controlled roads			
<p>PO3 Development does not compromise the safe and efficient management or operation of state-controlled roads.</p> <p>Editor's note: A traffic impact assessment will assist in addressing this performance outcome.</p>	No acceptable outcome is prescribed.	Complies	A Traffic Impact Assessment is currently being prepared by Black and More and will be submitted as soon as it becomes available. Preliminary investigations have concluded that to ensure the safe and efficient operation of the State Controlled Road (Bruce Highway) an upgrade to the existing intersection to provide for acceleration and deceleration lanes for the left in – left out movements into Moody Road

Performance outcomes	Acceptable outcomes	Response	Comment
			will be required.
<p>PO4 Development does not compromise planned upgrades of the state-controlled road network or delivery of future state-controlled roads.</p> <p>Editor's note: Written advice from DTMR that there are no planned upgrades of state-controlled roads or future state-controlled roads which will be compromised by the development will assist in addressing this performance outcome.</p>	<p>AO4.1 The layout and design of the development accommodates planned upgrades of the state-controlled road</p> <p>AND</p>	N/A	Property Search confirms that there are no property requirements for the site for planned upgrades. There is a 'floating' road reservation on title; however no reconfiguration is being proposed currently and the proposed activity is located sufficient distance from the State Controlled Road boundary so as not to prejudice any future upgrade or property requirements.
	<p>AO4.2 The layout and design of the development accommodates the delivery of future state-controlled roads.</p> <p>Editor's note: To demonstrate compliance with this acceptable outcome, it is recommended that a traffic impact assessment be prepared.</p>	N/A	As above
<p>PO5 Upgrade works on or associated with, the state-controlled road network are undertaken in accordance with applicable standards.</p>	<p>AO5.1 Upgrade works for the development are consistent with the requirements of the <i>Road planning and design manual</i>, 2nd edition, Department of Transport and Main Roads, 2013.</p> <p>AND</p>	Complies	It is anticipated that an upgrade to the existing intersection treatment of Moody Road and Bruce Highway will be required. This will be designed in accordance with the requirements of the relevant standards, as negotiated with TMR.
	<p>AO5.2 The design and staging of upgrade works on or associated with the state-controlled road network are consistent with planned upgrades.</p>	N/A	No planned upgrades are proposed.
<p>PO6 Development does not impose traffic loadings on the state-controlled road network which could be accommodated on the local road network.</p>	<p>AO6.1 New lower order roads do not connect directly to a state-controlled road.</p> <p>AND</p>	N/A	No new roads are proposed as part of the development
	<p>AO6.2 The layout and design of the development directs traffic generated by the development to use lower order roads.</p>	Complies	Access to the development is from Moody Road.

Attachment 7: CCRC Code Compliance

RTI RELEASE - DSDILGP

Rural Zone Code

An assessment of the Application in regard to Code Specific outcomes and Probable Solutions is provided below:

Specific outcomes	Probable Solutions	Comment / Compliance
Reconfiguration of a Lot		
<p>S5 <i>Lots</i> are retained at a viable size to ensure the long term agricultural viability of the land.</p>	<p>P9 <i>Lots</i> have a minimum area of 60 hectares, or 30 hectares if the <i>lot</i> contains at least 30 hectares of Good Quality Agricultural Land identified on Map 5.</p> <p>P10 <i>Lots</i> have a minimum frontage of 150 metres.</p> <p>P11 <i>Lots</i> have a minimum width to depth ratio of 1:5</p>	<p>Not Applicable.</p> <p>The proposal does not include a Reconfiguration of a Lot component.</p>
<p>S6 Rural service industries are located on <i>lots</i> that support their establishment in the Rural Zone.</p>	<p>P13 Where a rural service industry has been established or <i>substantially commenced</i> a <i>lot</i> with a maximum area of two (2) hectares is created containing the rural service industry and all associated infrastructure.</p>	<p>Not Applicable.</p> <p>The application does not propose a rural service industry.</p>
<p>S7 The Innisfail bypass corridor is protected from further development.</p>	<p>P14 No new <i>lots</i> are created.</p>	<p>Not Applicable.</p> <p>The subject land is not included within the Innisfail bypass corridor.</p>

Extraction/Quarry Code

Purpose

The purpose of the Extraction/quarry code is to ensure that development involving extraction or quarrying minimizes the potential visual, community safety and environmental impacts.

Performance criteria	Probable Solutions	Compliance
Site Suitability		
<p>S1. The proposed site must be suitable for the efficient extraction or quarrying of the material with respect to:</p> <p>(a) geological and geo-technical characteristics of the site; and</p> <p>(b) Proposed methods of extraction/quarrying</p>	<p>P1. No probable solution prescribed</p>	<p>Complies.</p> <p>The proposed drilling logs undertaken in the area proposed for extraction confirm presence of basalt rock at various depths (generally between 2m – 40m beneath ground level); which is suitable for use in construction applications.</p> <p>The proposed methods of extraction are proposed to ensure that the resource is extracted efficiently and minimise adverse impacts.</p>
<p>S2. The proposed lot must be of sufficient size and dimensions having regard to the nature of the use, the potential impact on the amenity on adjoining uses and the protection of environmentally sensitive areas.</p>	<p>P2. The extraction or quarry site has sufficient area to accommodate:</p> <p>(a) the extraction or quarrying use;</p> <p>(b) storage and stockpiling areas;</p> <p>(c) vegetated buffers on the perimeter of the extraction and stockpiling area to ensure that there is no unacceptable impacts on adjoining uses due to dust or visual impacts;</p>	<p>Proposal Complies</p> <p>The total site is 218 hectares, with the extraction area confined to designated Extractive Resource Site, being approximately 69 hectares. Of the 69 hectares, approximately 39.6 hectares will be utilised for active extraction and associated activities. This area is sufficient to contain all required operational aspects, including buffers to ensure that there are no unacceptable impacts on adjoining uses. The closest</p>

Performance criteria	Probable Solutions	Compliance
	<p>(d) Minimum separation distance for extraction is 200metres and the minimum quarrying is 1,000 metres from sensitive receptors;</p> <p>(e) Any environmentally sensitive land, for example riparian corridors, remnant vegetation;</p> <p>(f) Sediment and erosion control measures;</p> <p>(g) Buildings and parking areas in a safe location;</p> <p>(h) Vehicle access and egress onto and around the site.</p>	<p>residence is approximately 400 m away from the edge of the ERS boundary, with active extraction being approximately 1000 metres.</p> <p>The layout and operation of the extractive industry generally avoids areas of ecological significance. Limited clearing of vegetation is necessary to access the western face of the resource, however preliminary assessments have been undertaken and confirm that the impact to this area will be minimal.</p> <p>All extraction activities will be undertaken in accordance with the Draft Environmental Management Plan, which demonstrates operations can achieve recognised standards in terms of noise and air emissions, as well as stormwater and erosion and sediment control.</p> <p>Access to the site is via Moody Road, which is an established gravel road that will be upgraded to reduce any impacts associated with the operation of the use.</p>
<p>S3. Extraction and quarrying uses not identified on Maps 1a to 1j are separated from sensitive receptor/s so as not to</p>	<p>P3. The separation distance between sensitive receptors and quarry uses is a minimum of 1000 metres.</p> <p>P4. The separation distance</p>	<p>Not Applicable.</p>

Performance criteria	Probable Solutions	Compliance
adversely impact on nearby properties in terms of noise and dust.	between sensitive receptors and extraction uses is a minimum of 200 metres.	
Site Access		
S4. The proposed access to and from the lot must be adequate to cater for the haulage of extracted material and other associated traffic while not creating a nuisance or safety concern for adjoining land uses or users of the roads along the route.	P5. No probable solution prescribed.	<p>Proposal Complies.</p> <p>Access to the site is via Moody Road, which will be upgraded to 10m gravel pavement to provide sufficient and safe vehicle access to and from the site. Dust suppression and vehicle washdown areas will be implemented to reduce impacts on adjoining land uses.</p>
S5. Extraction and quarrying haul routes are separated from sensitive receptor/s so as not to adversely impact on nearby properties in terms of noise and dust.	P6. The separation distance between sensitive receptors and extraction and quarrying haulage routes is a minimum of 50 metres from proposed or constructed road centerline.	<p>Proposal Complies with performance criteria.</p> <p>There are two sensitive receptors within 50m of the centerline of Moody Road. Dust suppression and upgrade of Moody Road will be undertaken to ensure no adverse impacts will result from the proposal.</p>
Environment		
S6. Areas of significant conservation value area to be retained during the operation and rehabilitation of the site.	P7. No probable solution prescribed.	<p>Proposal Complies</p> <p>There are no areas of significant conservation values within the proposed extraction site. Limited clearing of vegetation community in the north-western section of the site will be undertaken in stages and will not reduce the conservation value (habitat) of the area. Progressive rehabilitation will</p>

Performance criteria	Probable Solutions	Compliance
		also occur to ensure it is restored to its pre-development level post extraction.
<p>S7. Water from within or adjacent to the site must not adversely impact on the quality or quantity of the receiving ground or surface waters.</p>	<p>P8. No probable solution prescribed</p>	<p>Proposal Complies</p> <p>Stormwater and erosion and sediment control measures will be implemented in accordance with relevant standards to ensure no adverse impacts. Stormwater from active extraction operations will be contained on site in sediment ponds, with excess water being utilized for dust suppression on site. Erosion and Sediment control bunds will be constructed to reduce impacts on existing drainage lines.</p>
Rehabilitation		
<p>S8. Development integrates rehabilitation into the operation of the site and progressively restores the site to a standard that achieves the following:</p> <ul style="list-style-type: none"> (a) the site is suitable for use for agricultural production, agroforestry, native vegetation, water storage or other use compatible with the locality; and (b) restores the visual amenity of the site; or (c) The site is suitable for community, recreation, 	<p>P9. No probable solution prescribed</p>	<p>Proposal Complies</p> <p>Progressive rehabilitation on the site will be undertaken such that future use of the</p> <p>As the site is likely to result in a depression of the existing plateau, it is unlikely able to be used for cropping or similar. Final use of the site will be determined once the resource has been exhausted. However, it will be rehabilitated to ensure visual amenity of the site is restored.</p>

Performance criteria	Probable Solutions	Compliance
<p>open space, refuse station or other like uses compatible with the locality; and</p> <p>(d) Restores the visual amenity of the site.</p>		

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Natural Area Code

Purpose

The Purpose of the Natural Area Code is to —

- a) conserve and maintain ecological processes and systems to protect biodiversity.
- b) establish vegetated north to south and east to west wildlife corridors.

Comment

The site contains an area along the South-Western section of the extraction area identified as a Natural Corridor/Habitat on Map 7. This area is generally devoid of vegetation and has been historically utilised for cane cultivation, cattle grazing and contains areas of established Queensland Maple vegetation, which was planted for forestry purposes. As such, the value of this habitat is relatively low and the extent of the mapped area is inconsistent with ground - truthed values.

Given that the actual ground truthed values of the site are significantly smaller in area than those mapped Habitat; and that the value of the actual habitat is relatively isolated and small in area; clearing of small section of established vegetation is unlikely to result in a significance decrease to the availability of quality habitat to the extent of having an impact on the biodiversity of the area.

Performance criteria	Probable Solutions	Compliance
S1. The values of the Conservation areas identified on Map 7 are protected, managed, and, where necessary, restored to ensure long term viability.	P1. Development does not result in the loss of habitat identified as conservation.	Not Applicable. The site does not contain areas mapped as Conservation.
S2. The values of Critical Habitat and Important Habitat identified on Map 7 area preserved, managed, and, where necessary, restored to ensure long term viability.	<p>P2. Development results in no net loss of habitat.</p> <p>P3. Habitat removal is limited to 800m² for a single dwelling and access where it can be demonstrated there are no existing cleared areas on the lot and revegetation of an equivalent or greater area is proposed.</p> <p>P4. Sensitive areas are revegetated to ensure the long term viability</p>	Not Applicable. The site does not contain areas mapped as Critical or Important Habitat.

Performance criteria	Probable Solutions	Compliance
	of critical and important habitat.	
S3. Linkage Corridor/Habitat, Potentially Critical/Important Habitat and Important Linkages identified on Map 7 are maintained and, where necessary, restored to ensure long term viability.	<p>P5. Habitat removal is limited to 1000m² for a single dwelling and access where it can be demonstrated there are no existing cleared areas on the lot.</p> <p>P6. Linkage Corridors and Important Linkages are revegetated to enhance their viability.</p>	<p>Not Applicable.</p> <p>The site does not contain Linkage Corridor/Habitat or Potentially Critical/Important Habitat.</p>
S4. Potential Linkage Corridor/Habitat identified on Map 7 are maintained.	P7. Habitat removal is limited to 1000m ²	<p>Not Applicable.</p> <p>The site does not contain areas identified as Potential Linkage Corridor/Habitat.</p>
S5. Riparian and coastal corridors along watercourses, wetlands and the coast are maintained, protected and/or enhanced.	<p>P8. The maintenance of an existing habitat corridor of:</p> <ul style="list-style-type: none"> (a) 25 metre width from the high bank of a watercourse; (b) 50 metres width from the high bank of a major watercourse or wetland; (c) 100 metres width from the high water mark along the coast. <p>P9. Where no coastal or riparian corridor exists a revegetated corridor of:</p> <ul style="list-style-type: none"> (a) 5 metre width from the high bank of a watercourse; (b) 10 metres width from the high bank of a major watercourse or wetland; (c) 20 metres width from the high water mark along the coast. 	<p>Not Applicable.</p> <p>The site does not contain any mapped riparian or coastal corridors.</p> <p>Existing watercourses on the site will be appropriately buffered (i.e. 25m)</p>

Performance criteria	Probable Solutions	Compliance
S6. Habitats on steep land are maintained, protected and/or enhanced.	P10. The native remnant vegetation on land steeper than 15% slope is retained.	<p>Proposal Complies.</p> <p>Limited clearing is proposed to access the north-western face of the resource. The existing value of the habitat is low due to its isolation and small size. The extent of clearing is in line with Module 8 of the State Development Assessment Provisions and is therefore unlikely to result in reducing the habitat value and thus, maintaining the general extent of the habitat.</p>
S7. Wildlife can move freely without obstruction along conservation areas, critical environmental corridors and habitat.	P11. Fencing in areas identified on Map 7 as being a conservation area, Critical Habitat, Important Habitat, Linkage Corridor/Habitat and Potential Linkage Corridor/Habitat is limited to four (40 strand un-electrified plain wire.	<p>Not Applicable.</p> <p>The site does not contain areas mapped as a conservation area, Critical Habitat, Important Habitat, Linkage Corridor/Habitat and Potential Linkage Corridor/Habitat.</p>
S8. Road design and construction does not increase the risk to wildlife at identified crossing points.	<p>P12. On a section of road identified on Map 7a-e as wildlife crossing point is to implement measures to reduce the risk to wildlife cause by vehicles. Measures include the following:</p> <ul style="list-style-type: none"> (a) reduction in design speed of the road to 40km/h; or (b) provision of wildlife crossing points to separate wildlife and vehicles (e.g. underpass); or (c) road surface and edge treatment to encourage a 	<p>Not Applicable.</p> <p>The site does not contain areas mapped as wildlife crossing points.</p>

Performance criteria	Probable Solutions	Compliance
	<p>reduced vehicle speed; or</p> <p>(d) fencing along the road to reduce wildlife movement onto the road; or</p> <p>(e) establish and maintain a cleared road shoulder to enable motorists better opportunity to see wildlife earlier; or</p> <p>(f) erection of signage to educate motorists on wildlife crossing areas; or</p> <p>(g) encourage wildlife to use other corridors through establishment of new corridors; or</p> <p>(h) a combination of any of the above.</p>	

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Operational Works Code

Performance criteria	Probable Solutions	Compliance
Division 3 – Operational works codes		
6.3.1 Advertising devices code 6.3.2 Filling and excavation code	Where applicable, the development proposal complies or is capable of complying with the relevant 'Specific Outcome'. If deemed necessary Council can condition the development approval accordingly to ensure compliance.	

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General Development Codes

Performance criteria	Probable Solutions	Compliance
Division 4 – General Development Codes		
6.4.1 Crime prevention code 6.4.2 Infrastructure code 6.4.3 Landscaping Code 6.4.4 Non-discriminatory access code 6.4.5 Open space code 6.4.6 Vehicle access, parking and loading code 6.4.7 Steep land code	Where applicable, the development proposal complies or is capable of complying with the relevant 'Specific Outcome'. If deemed necessary Council can condition the development approval accordingly to ensure compliance.	

RTI RELEASE

Acknowledgement notice
Sustainable Planning Act 2009 s.268



PLEASE QUOTE

YOUR REFERENCE: J000143

OUR REFERENCE: DEV2014/0068:DH:dd1407311545

ENQUIRIES TO: Daniel Horton, Manager Planning Services

31 July 2014

Daraleigh Pty Ltd as Trustee
C/- Gilvear Planning Pty Ltd
PO Box 228
BABINDA QLD 4861

Via Smart eDA

Attention: Sch. 4(4)(6) -
Disclosing personal
information

Dear Madam

DEV2014/0068 - Development application for Material Change of Use for Extraction (Extraction including Screening and Storage) on land described as Lot 5 SP 235661, situated at Todd Road, Vasa Views

I acknowledge receipt of the above application on 30 July 2014 and confirm the following details:

1. Details of the application

The application seeks development approval for -

	Sustainable Planning Regulation 2009, schedule 3 reference	Development Permit	Preliminary Approval
Making a material change of use assessable under the planning scheme, a temporary local planning instrument, a master plan or a preliminary approval to which SPA section 242 applies		<input checked="" type="checkbox"/>	<input type="checkbox"/>

2. Code assessment

The following aspects of the development applied for require code assessment:

Aspects of the development requiring code assessment	Name of all codes that may be applicable codes
Extraction (Extraction including Screening and Storage)	<p>1. Overlay Codes</p> <ul style="list-style-type: none"> - Natural Areas Code <p>2. Planning Scheme Codes</p> <ul style="list-style-type: none"> - Rural Zone Code - Extraction/Quarry Code - All Operational Works and General Development Codes

3. Referral agencies

Based on the information provided in the application, referral is required to the following referral agencies

For an application involving	Name of referral agency	Advice agency or concurrence agency	Address
<input checked="" type="checkbox"/> Making a material change of use of premises if any part of the land— (a) is within 25m of a State-controlled road; or (b) is future State-controlled road; or (c) abuts a road that intersects with a State-controlled road within 100m of the land SPA Regs 2009, sch 7, table 3, item 1	Department of State Development, Infrastructure and Planning	Concurrence	Department of State Development Infrastructure and Planning Far North Regional Office Main Office – Cairns <u>Visit:</u> Ground Floor, Cairns Port Authority Building, Cnr Grafton and Hartley Streets, Cairns <u>Post:</u> PO Box 2358, Cairns Qld 4870 Tel: 07 4037 3209 <u>Email lodgement:</u> CairnsSARA@dsdip.qld.gov.au <u>MyDAS electronic lodgement:</u> www.dsdip.qld.gov.au/MyDAS

For an application involving	Name of referral agency	Advice agency or concurrence agency	Address
<p><input checked="" type="checkbox"/> An aspect of development identified in schedule 9 that—</p> <p>(a) is for a purpose mentioned in schedule 9, column 1; and</p> <p>(b) meets or exceeds the threshold—</p> <p>(i) for development in LGA population 1—mentioned in schedule 9, column 2 for the purpose; or</p> <p>(ii) for development in LGA population 2—mentioned in schedule 9, column 3 for the purpose.</p> <p>However, if the development is for a combination of purposes mentioned in the same item of schedule 9, the threshold is for the combination of purposes and not for each purpose individually.</p> <p>SPA Regs 2009, sch 7, table 3, item 2</p>	<p>Department of State Development, Infrastructure and Planning</p>	<p>Concurrence</p>	<p>Department of State Development Infrastructure and Planning</p> <p>Far North Regional Office</p> <p>Main Office – Cairns</p> <p><u>Visit:</u> Ground Floor, Cairns Port Authority Building, Cnr Grafton and Hartley Streets, Cairns</p> <p><u>Post:</u> PO Box 2358, Cairns Qld 4870</p> <p><u>Tel:</u> 07 4037 3209</p> <p><u>Email lodgement:</u> CairnsSARA@dsdip.qld.gov.au</p> <p><u>MyDAS electronic lodgement:</u> www.dsdip.qld.gov.au/MyDAS</p>

For an application involving	Name of referral agency	Advice agency or concurrence agency	Address
<input checked="" type="checkbox"/> Material change of use of a lot that is 5ha or larger, if— (a) for development for which a preliminary approval is sought under the Act, section 242, the lot contains native vegetation shown on the regulated vegetation management map as a category A area or category B area; or (b) for other development that is not sole or community residence clearing— (i) additional exempt operational work could be carried out because of the material change of use or the development involves operational work made assessable under schedule 3, part 1, table 4, item 1; and (ii) the additional exempt operational work or assessable operational work includes development other than the clearing of regulated regrowth vegetation on freehold land, indigenous land or land the subject of a lease issued under the Land Act 1994 for agriculture or grazing purposes SPA Regs 2009, sch 7, table 3, item 10	Department of State Development, Infrastructure and Planning	Concurrence	Department of State Development Infrastructure and Planning Far North Regional Office Main Office – Cairns <u>Visit:</u> Ground Floor, Cairns Port Authority Building, Cnr Grafton and Hartley Streets, Cairns <u>Post:</u> PO Box 2358, Cairns Qld 4870 Tel: 07 4037 3209 <u>Email lodgement:</u> CairnsSARA@dndip.qld.gov.au <u>MyDAS electronic lodgement:</u> www.dndip.qld.gov.au/MyDAS

This list is provided for your information only. It is the applicant's responsibility to identify any referral agencies for the application and give each referral agency a copy of:

- the application (including the application forms and supporting material)
- this acknowledgment notice, and
- any required application fee.

The above material must be given to all referral agencies within:

- 20 business days after the applicant receives this acknowledgement notice, or
- the further period agreed between the assessment manager and the applicant.

If you do not give the material mentioned above to all referral agencies within these timeframes, the application will lapse (see section 273 of the Sustainable Planning Act 2009).

4. Information request

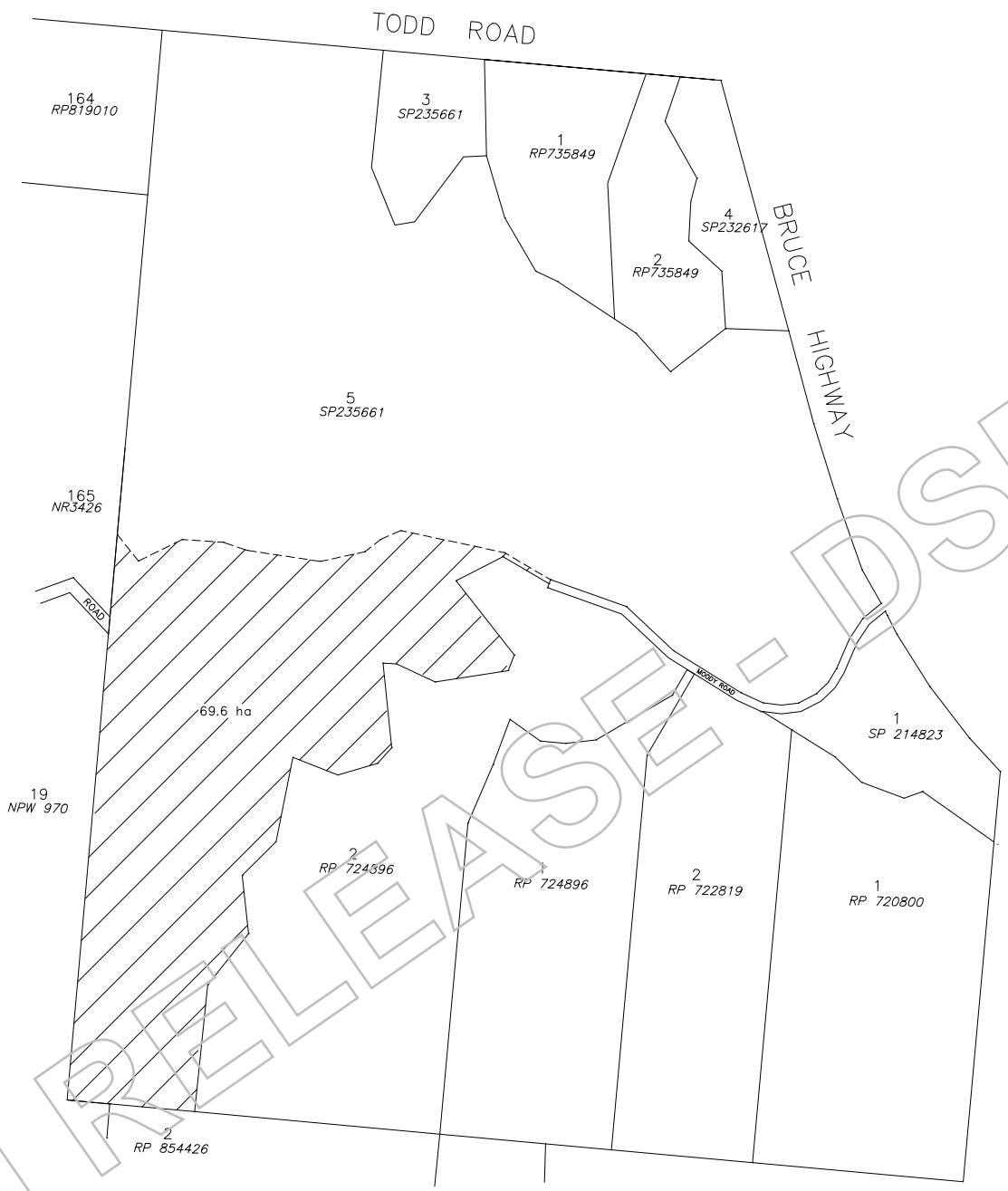
A further information request **may** / **will not** be made by the assessment manager. Regardless of this advice, any concurrence agency for the application may also make an information request.

You are advised that the truth and accuracy of the information provided in the application form and accompanying information is relied on when assessing and deciding this application. If you find an inaccuracy in any of the information provided above or have a query or seek clarification about any of these details, please contact Manager Planning Services, Daniel Horton on Ph: (07) 4030 2265.

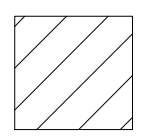
Yours sincerely



JOHN PETTIGREW
DIRECTOR PLANNING & ENVIRONMENTAL SERVICES



LEGEND



EXTRACTIVE RESOURCE SITE

RTI2122-101-DSDILGP

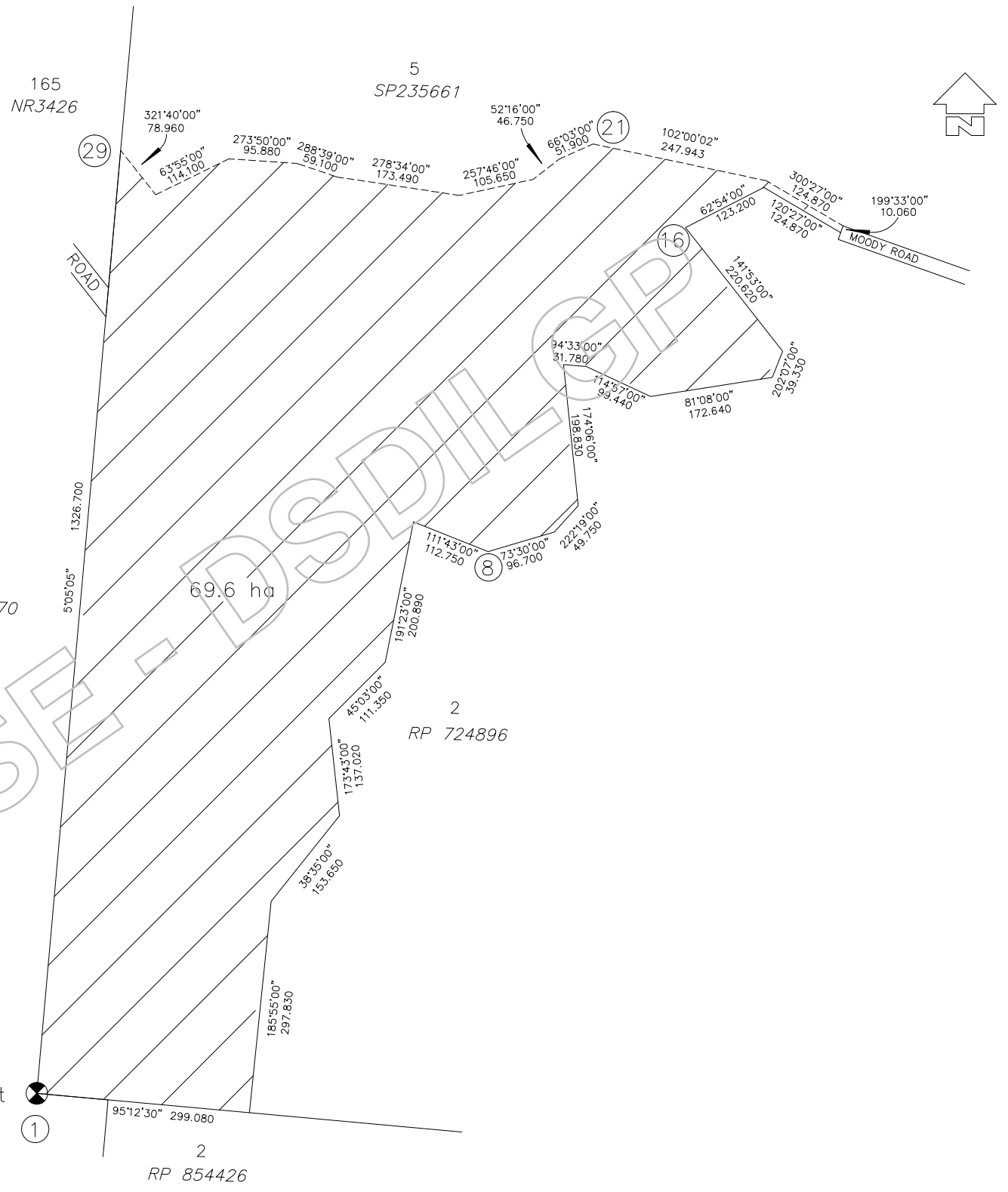
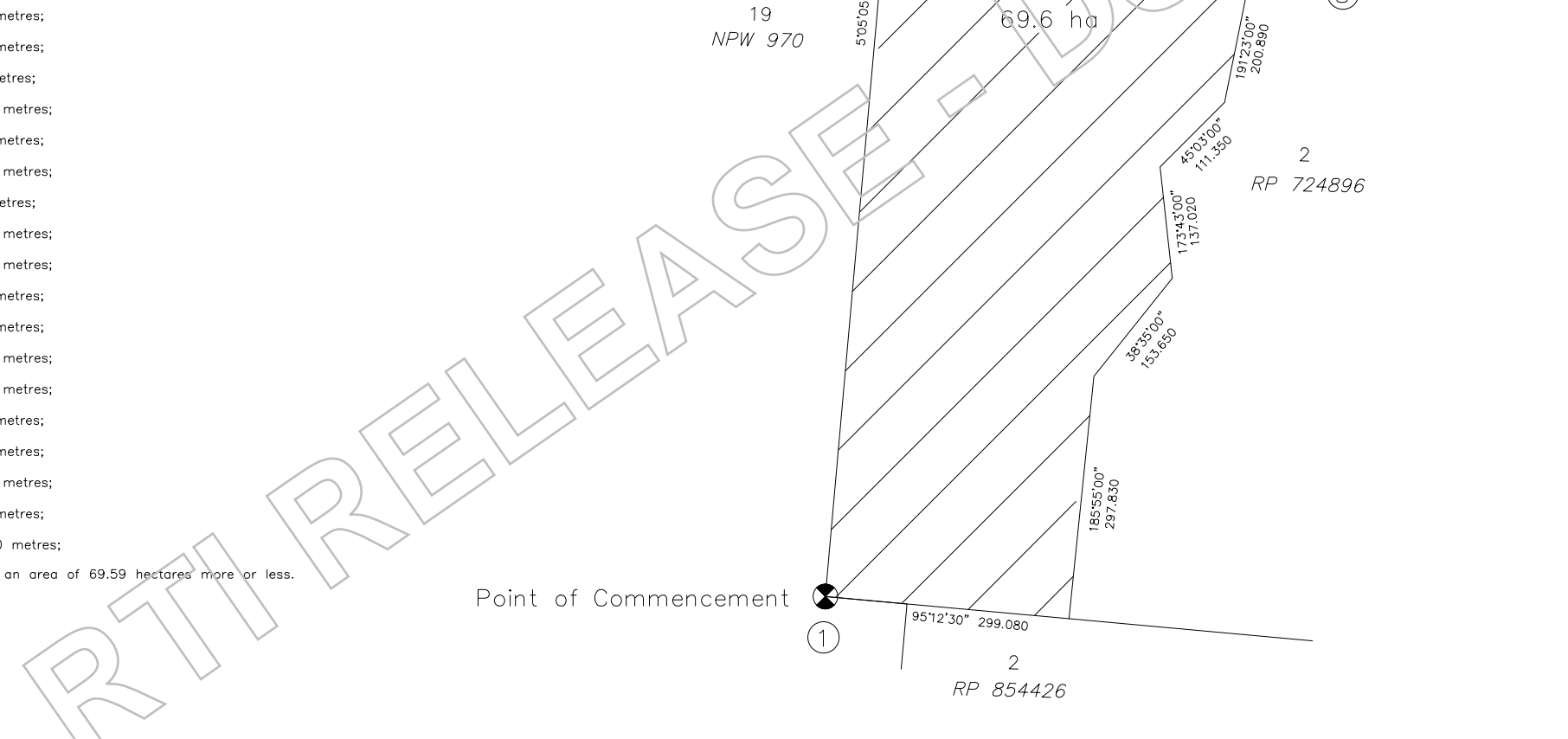
title: LOCATION PLAN EXTRACTIVE RESOURCE SITE MOODY ROAD – VASA VIEWS	PARISH GLADY	CALCULATED	DATE	<div style="border: 1px solid red; padding: 2px;">Sch. 4(4)(6) - Disclosing personal information</div> Borthwick & Co. (Surv.) Cadastral Surveyor	SCALE	1:16000 (A3)
	COUNTY NARES	SURVEYED	DATE JUL 14		FILES REF.	
client: DARALEIGH P/L	LOCAL AUTH. CASS COAST REG	DRAWN GSM	DATE JUL 14	11 Kavieng Street, Trinity Beach 4879. P.O. Box 152 Trinity Beach.	<div style="border: 1px solid red; padding: 2px;">Sch. 4(4)(6) - Disclosing personal information</div>	PROPERTY DESC. Lot 5 on SP 235661
		SURVEY EXAMINED	DATE	Fax: 0740 577 089 Email: <div style="border: 1px solid red; padding: 2px;">Sch. 4(4)(6) - Disclosing personal information</div>	FILE	14/185
		PLAN EXAMINED	DATE JUL 14			SHEET 1

The Metes and Bounds Description of Extractive Resource Site (ERS) within Lot 5 SP235661 Parish of Glady, County of Nares

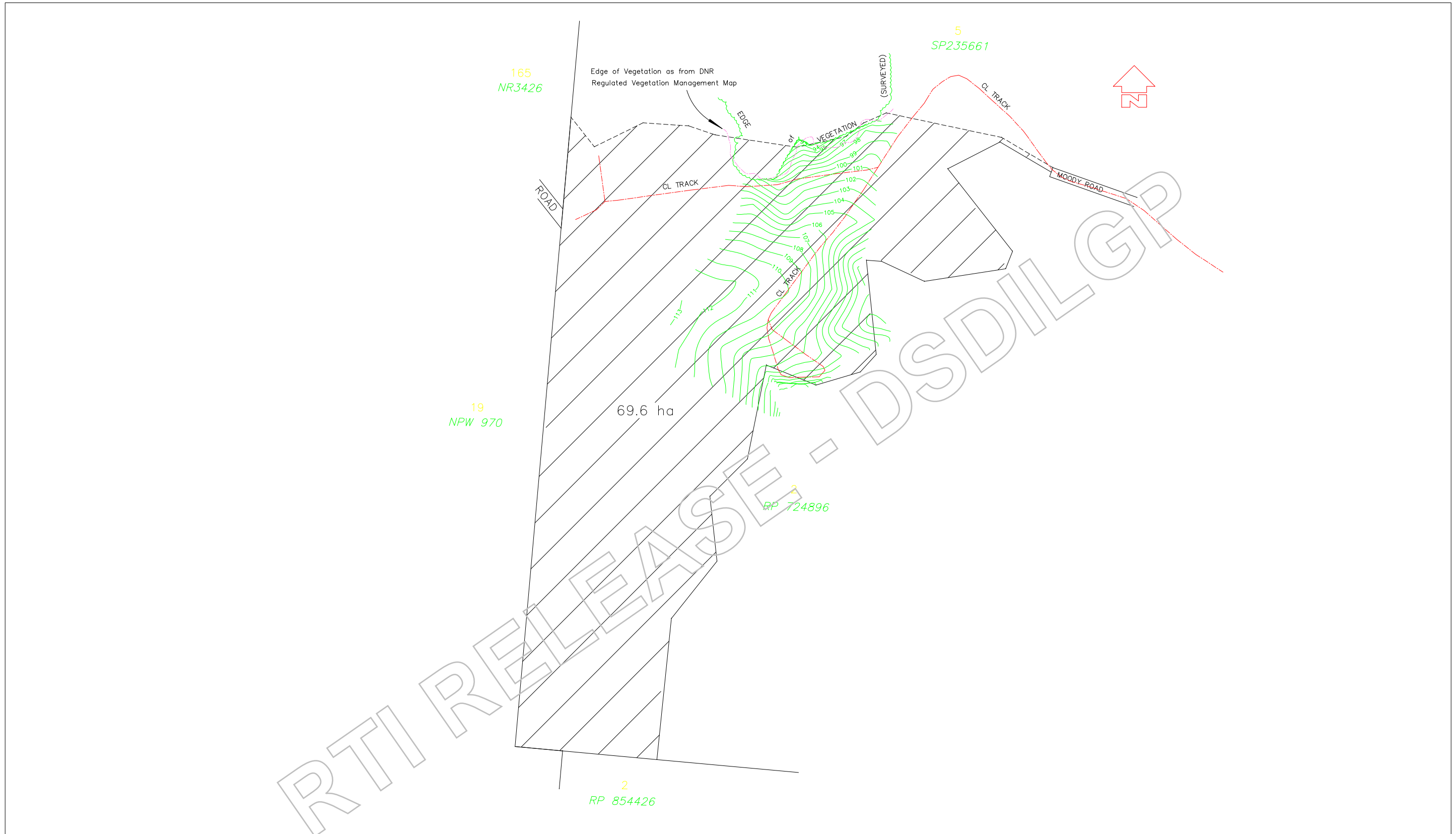
Commencing at a known point being the south west corner of Lot 5 SP235661:

- Thence at a bearing of 95°12'30" for 299.08 metres;
- Thence at a bearing of 5°5'00" for 297.83 metres;
- Thence at a bearing of 38°35'00" for 153.65 metres;
- Thence at a bearing of 353°43'00" for 137.02 metre
- Thence at a bearing of 45°03'00" for 111.35 metres;
- Thence at a bearing of 11°23'00" for 200.89 metres;
- Thence at a bearing of 111°43'00" for 112.75 metres;
- Thence at a bearing of 73°30'00" for 96.70 metres;
- Thence at a bearing of 42°19'00" for 49.75 metres;
- Thence at a bearing of 354°06'00" for 198.83 metres;
- Thence at a bearing of 94°33'00" for 31.78 metres;
- Thence at a bearing of 114°57'00" for 99.44 metres;
- Thence at a bearing of 81°08'00" for 172.64 metres;
- Thence at a bearing of 22°07'00" for 39.33 metres;
- Thence at a bearing of 321°53'00" for 220.62 metres;
- Thence at a bearing of 62°54'00" for 123.20 metres;
- Thence at a bearing of 120°27'00" for 124.87 metres;
- Thence at a bearing of 19°33'00" for 10.06 metres;
- Thence at a bearing of 300°27'00" for 124.87 metres;
- Thence at a bearing of 282°00'02" for 247.94 metres;
- Thence at a bearing of 246°03'00" for 51.90 metres;
- Thence at a bearing of 232°16'00" for 46.75 metres;
- Thence at a bearing of 257°46'00" for 105.65 metres;
- Thence at a bearing of 278°34'00" for 173.49 metres;
- Thence at a bearing of 288°39'00" for 59.10 metres;
- Thence at a bearing of 273°50'00" for 95.88 metres;
- Thence at a bearing of 243°55'00" for 114.10 metres;
- Thence at a bearing of 321°40'00" for 78.96 metres;
- Thence at a bearing of 185°05'05" for 1326.70 metres;

to the Point of commencement and containing an area of 69.59 hectares more or less.

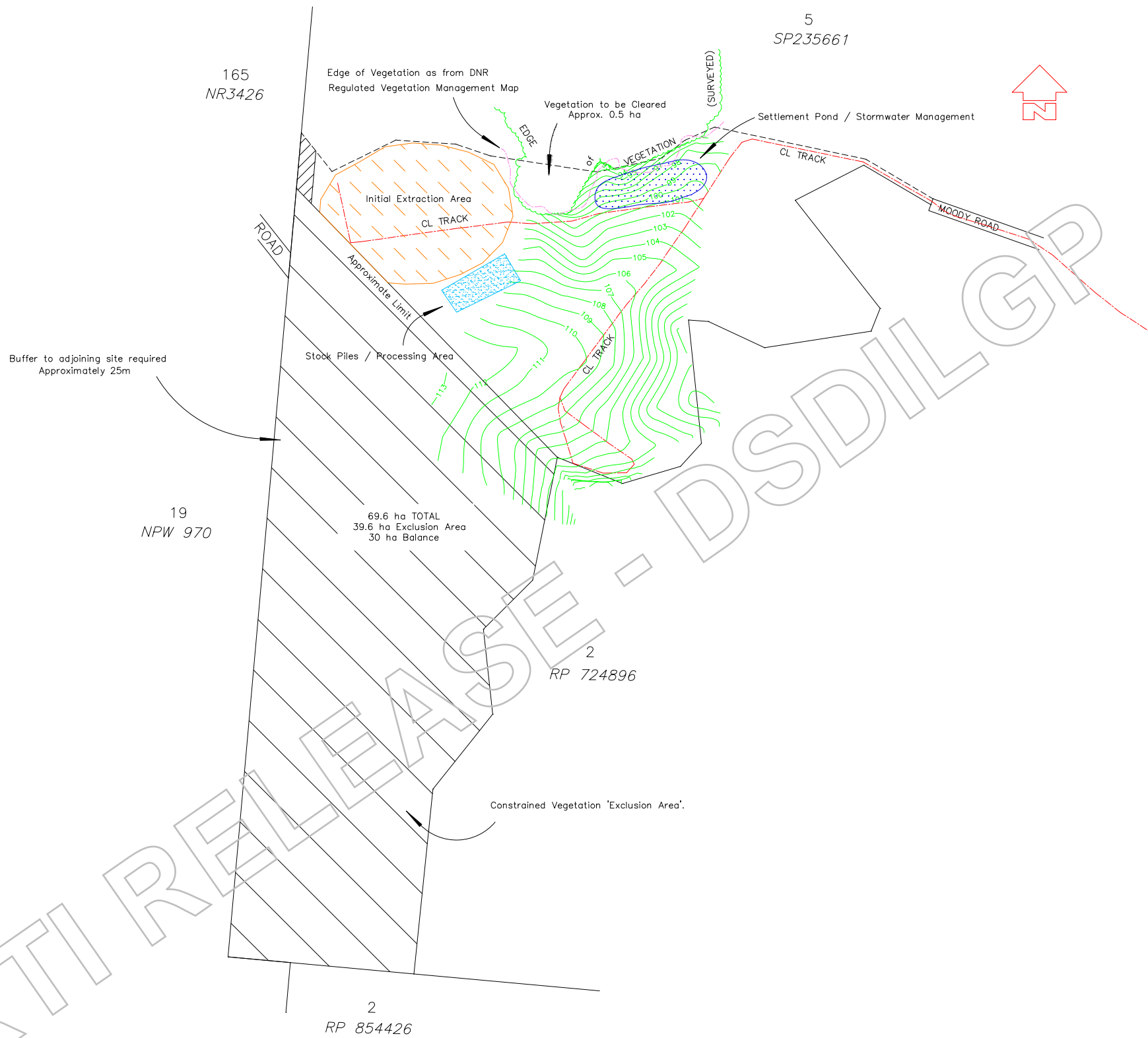


title:	METES & BOUNDS DESCRIPTION of EXTRACTIVE RESOURCE SITE MOODY ROAD - VASA VIEWS		PARISH GLADY	CALCULATED	DATE	Sch. 4(4)(6) - Disclosing personal information Cadastral Surveyor	SCALE	1:8000 (A3)	
	client:	DARALEIGH P/L		COUNTY NARES	SURVEYED		DATE JUL 14	FILES REF.	
		LOCAL AUTH. CASS COAST REG	DRAWN GSM	DATE JUL 14	11 Kavieng Street, Trinity Beach 4879. P.O. Box 152 Trinity Beach. Email:	PROPERTY DESC.	Lot 5 on SP 235661		
			SURVEY EXAMINED	DATE		Sch. 4(4)(6) - Disclosing personal information Fax: 0740 577 089	FILE	14/185	SHEET 2
			PLAN EXAMINED	DATE JUL 14	Sch. 4(4)(6) - Disclosing personal information				



RTI RELEASE - DSDILGP

title: Access Track to & Contours over Proposed Quarry Area Moody Road - Vasa Views	PARISH GLADY	CALCULATED	DATE	Sch. 4(4)(6) Div. of Land & Survey Cadastral Surveyor 11 Kavieng Street Trinity Beach 4879. P.O. Box 152 Trinity Beach. Email:	SCALE	1:8000 (A3)	
	COUNTY NARES	SURVEYED	DATE JUL 14		FILES REF.	Lot 5 on SP 235661	
	LOCAL AUTH. CASS COAST REG	DRAWN GSM	DATE JUL 14		PROPERTY DESC.		
client: DARALEIGH P/L		SURVEY EXAMINED	DATE	Sch. 4(4)(6) - Div. of Land & Survey Fax: 0740 577 089 Email:	FILE	14/185	SHEET 3
		PLAN EXAMINED	DATE JUL 14				



Areas shown are approximate only

title: Operations Plan Proposed Quarry Area Moody Road - Vasa Views	PARISH GLADY	CALCULATED	DATE	Sch. 4(4)(6) - Disclosing personal information Bach.App.Sc.(Surv.) Cadastral Surveyor	SCALE	1:8000 (A3)
	COUNTY NARES	SURVEYED	DATE JUL 14		FILES REF.	
	LOCAL AUTH. CASS COAST REG	DRAWN GSM	DATE JUL 14		PROPERTY DESC.	Lot 5 on SP 235661
client: DARALEIGH P/L		SURVEY EXAMINED	DATE	11 Kavieng Street, Trinity Beach 4879. P.O. Box 152 Trinity Beach.	Sch. 4(4)(6) - Disclosing personal information Fax: 0740 577 089 Email: Sch. 4(4)(6) - Disclosing personal information	FILE
		PLAN EXAMINED	DATE JUL 14			

Owner's consent to the making of a development application under the *Sustainable Planning Act 2009*

DARALEIGH PTY LTD as TRUSTEE under Instrument No 601005297 and T525653R as owner of premises identified as **PART OF LOT 5 ON SP235661** being described by **METES and BOUNDS on IDAS FORM 1** consent to the making of a development application under the *Sustainable Planning Act 2009* by **DARALEIGH PTY LTD as TRUSTEE** on the premises described above for the purpose of **EXTRACTION (including Screening and Storage)**

Sch. 4(4)(6) - Disclosing personal information

DIRECTOR / SECRETARY

Sch. 4(4)(6) - Disclosing personal information

DIRECTOR

signed on the 28TH day of July 2014

IDAS form 1—Application details

(Sustainable Planning Act 2009 version 4.1 effective 4 July 2014)

This form must be used for **ALL** development applications.

You **MUST** complete **ALL** questions that are stated to be a mandatory requirement unless otherwise identified on this form.

For all development applications, you must:

- complete this form (*IDAS form 1—Application details*)
- complete any other forms relevant to your application
- provide any mandatory supporting information identified on the forms as being required to accompany your application.

Attach extra pages if there is insufficient space on this form.

All terms used on this form have the meaning given in the *Sustainable Planning Act 2009* (SPA) or the Sustainable Planning Regulation 2009.

This form and any other IDAS form relevant to your application must be used for development applications relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994* and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008*. Whenever a planning scheme is mentioned, take it to mean land use plan for the strategic port land, Brisbane core port land or airport land.

PLEASE NOTE: This form is not required to accompany requests for compliance assessment.

This form can also be completed online using MyDAS at www.dsdip.qld.gov.au/MyDAS

Mandatory requirements

Applicant details (Note: the applicant is the person responsible for making the application and need not be the owner of the land. The applicant is responsible for ensuring the information provided on all IDAS application forms is correct. Any development permit or preliminary approval that may be issued as a consequence of this application will be issued to the applicant.)

Name/s (individual or company name in full)

Daraleigh Pty Ltd as Trustee

For companies, contact name

C/- Sch. 4(4)(6) - Disclosing personal information Gilvear Planning Pty Ltd

Postal address

PO Box 228

Suburb	BABINDA		
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State	QLD	Postcode	4861
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Country	AUSTRALIA		
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Contact phone number

Sch. 4(4)(6) - Disclosing personal information

Mobile number (non-mandatory requirement)

Fax number (non-mandatory requirement)

Email address (non-mandatory requirement)

Sch.
4(4)(6) -
Disclosing
personal
information
@givearplanning.com.au

Applicant's reference number (non-mandatory requirement)

J000143:DIL:KLG

1. What is the nature of the development proposed and what type of approval is being sought?

Table A—Aspect 1 of the application (If there are additional aspects to the application please list in Table B—Aspect 2.)

- a) What is the nature of the development? (Please only tick one box.)
- Material change of use Reconfiguring a lot Building work Operational work
- b) What is the approval type? (Please only tick one box.)
- Preliminary approval under s241 of SPA Preliminary approval under s241 and s242 of SPA Development permit
- c) Provide a brief description of the proposal, including use definition and number of buildings or structures where applicable (e.g. six unit apartment building defined as a *multi-unit dwelling*, 30 lot residential subdivision etc.)
- Extraction (Removal of Rock including Screening and Storage of Material)
- d) What is the level of assessment? (Please only tick one box.)
- Impact assessment Code assessment

Table B—Aspect 2 of the application (If there are additional aspects to the application please list in Table C—Additional aspects of the application.)

- a) What is the nature of development? (Please only tick one box.)
- Material change of use Reconfiguring a lot Building work Operational work
- b) What is the approval type? (Please only tick one box.)
- Preliminary approval under s241 of SPA Preliminary approval under s241 and s242 of SPA Development permit
- c) Provide a brief description of the proposal, including use definition and number of buildings or structures where applicable (e.g. six unit apartment building defined as a *multi-unit dwelling*, 30 lot residential subdivision etc.)
-
- d) What is the level of assessment?
- Impact assessment Code assessment

Table C—Additional aspects of the application (If there are additional aspects to the application please list in a separate table on an extra page and attach to this form.)

- Refer attached schedule Not required

2. Location of the premises (Complete Table D and/or Table E as applicable. Identify each lot in a separate row.)

Table D—Street address and lot on plan for the premises or street address and lot on plan for the land adjoining or adjacent to the premises (Note: this table is to be used for applications involving taking or interfering with water). (Attach a separate schedule if there is insufficient space in this table.)

- Street address **and** lot on plan (All lots must be listed.)
- Street address **and** lot on plan for the land adjoining or adjacent to the premises (Appropriate for development in water but adjoining or adjacent to land, e.g. jetty, pontoon. All lots must be listed.)

Street address					Lot on plan description		Local government area (e.g. Logan, Cairns)
Lot	Unit no.	Street no.	Street name and official suburb/ locality name	Post-code	Lot no.	Plan type and plan no.	
i)							
ii)							
iii)							

Planning scheme details (If the premises involves multiple zones, clearly identify the relevant zone/s for each lot in a separate row in the below table. Non-mandatory)

Lot	Applicable zone / precinct	Applicable local plan / precinct	Applicable overlay/s
i)			
ii)			
iii)			

Table E—Premises coordinates (Appropriate for development in remote areas, over part of a lot or in water not adjoining or adjacent to land e.g. channel dredging in Moreton Bay.) (Attach a separate schedule if there is insufficient space in this table.)

Coordinates (Note: place each set of coordinates in a separate row.)				Zone reference	Datum	Local government area (if applicable)
Easting	Northing	Latitude	Longitude			
SEE COORDINATES ATTACHED				Zone 55	<input checked="" type="checkbox"/> GDA94 <input type="checkbox"/> WGS84 <input type="checkbox"/> other	Cassowary Coast

3. Total area of the premises on which the development is proposed (indicate square metres)

69.59ha / 695,900sq m

4. Current use/s of the premises (e.g. vacant land, house, apartment building, cane farm etc.)

Rural (Grazing / Farm purposes)

5. Are there any current approvals (e.g. a preliminary approval) associated with this application? (Non-mandatory requirement)

No Yes—provide details below

List of approval reference/s	Date approved (dd/mm/yy)	Date approval lapses (dd/mm/yy)

6. Is owner's consent required for this application? (Refer to notes at the end of this form for more information.)

No
 Yes—complete either Table F, Table G or Table H as applicable

Table F

Name of owner/s of the land	
I/We, the above-mentioned owner/s of the land, consent to the making of this application.	
Signature of owner/s of the land	
Date	

Table G

Name of owner/s of the land	Daraleigh Pty Ltd as Trustee
<input checked="" type="checkbox"/> The owner's written consent is attached or will be provided separately to the assessment manager.	

Table H

Name of owner/s of the land	
<input type="checkbox"/> By making this application, I, the applicant, declare that the owner has given written consent to the making of the application.	

7. Identify if any of the following apply to the premises (Tick applicable box/es.)

- Adjacent to a water body, watercourse or aquifer (e.g. creek, river, lake, canal)—complete Table I
- On strategic port land under the *Transport Infrastructure Act 1994*—complete Table J
- In a tidal water area—complete Table K
- On Brisbane core port land under the *Transport Infrastructure Act 1994* (No table requires completion.)
- On airport land under the *Airport Assets (Restructuring and Disposal) Act 2008* (no table requires completion)
- Listed on either the Contaminated Land Register (CLR) or the Environmental Management Register (EMR) under the *Environmental Protection Act 1994* (no table requires completion)

Table I

Name of water body, watercourse or aquifer

Table J	
Lot on plan description for strategic port land	Port authority for the lot

Table K	
Name of local government for the tidal area (if applicable)	Port authority for the tidal area (if applicable)

8. Are there any existing easements on the premises? (e.g. for vehicular access, electricity, overland flow, water etc)

- No Yes—ensure the type, location and dimension of each easement is included in the plans submitted

9. Does the proposal include new building work or operational work on the premises? (Including any services)

- No Yes—ensure the nature, location and dimension of proposed works are included in plans submitted

10. Is the payment of a portable long service leave levy applicable to this application? (Refer to notes at the end of this form for more information.)

- No—go to question 12 Yes

11. Has the portable long service leave levy been paid? (Refer to notes at the end of this form for more information.)

- No
 Yes—complete Table L and submit with this application the yellow local government/private certifier's copy of the receipted QLeave form

Table L		
Amount paid	Date paid (dd/mm/yy)	QLeave project number (6 digit number starting with A, B, E, L or P)

12. Has the local government agreed to apply a superseded planning scheme to this application under section 96 of the Sustainable Planning Act 2009?

- No
 Yes—please provide details below

Name of local government	Date of written notice given by local government (dd/mm/yy)	Reference number of written notice given by local government (if applicable)

13. List below all of the forms and supporting information that accompany this application (Include all IDAS forms, checklists, mandatory supporting information etc. that will be submitted as part of this application. Note: this question does not apply for applications made online using MyDAS)

Description of attachment or title of attachment	Method of lodgement to assessment manager
Planning Report with Attachments	Online
IDAS Forms and supporting material	Online

14. Applicant's declaration

By making this application, I declare that all information in this application is true and correct (Note: it is unlawful to provide false or misleading information)

Notes for completing this form

- Section 261 of the *Sustainable Planning Act 2009* prescribes when an application is a properly-made application. Note, the assessment manager has discretion to accept an application as properly made despite any non-compliance with the requirement to provide mandatory supporting information under section 260(1)(c) of the *Sustainable Planning Act 2009*

Applicant details

- Where the applicant is not a natural person, ensure the applicant entity is a real legal entity.

Question 1

- Schedule 3 of the *Sustainable Planning Regulation 2009* identifies assessable development and the type of assessment. Where schedule 3 identifies assessable development as "various aspects of development" the applicant must identify each aspect of the development on Tables A, B and C respectively and as required.

Question 6

- Section 263 of the *Sustainable Planning Act 2009* sets out when the consent of the owner of the land is required for an application. Section 260(1)(e) of the *Sustainable Planning Act 2009* provides that if the owner's consent is required under section 263, then an application must contain, or be accompanied by, the written consent of the owner, or include a declaration by the applicant that the owner has given written consent to the making of the application. If a development application relates to a state resource, the application is not required to be supported by evidence of an allocation or entitlement to a state resource. However, where the state is the owner of the subject land, the written consent of the state, as landowner, may be required. Allocation or entitlement to the state resource is a separate process and will need to be obtained before development commences.

Question 7

- If the premises is listed on either the Contaminated Land Register (CLR) or the Environmental Management Register (EMR) under the *Environmental Protection Act 1994* it may be necessary to seek compliance assessment. Schedule 18 of the *Sustainable Planning Regulation 2009* identifies where compliance assessment is required.

Question 11

- The *Building and Construction Industry (Portable Long Service Leave) Act 1991* prescribes when the portable long service leave levy is payable.
- The portable long service leave levy amount and other prescribed percentages and rates for calculating the levy are prescribed in the *Building and Construction Industry (Portable Long Service Leave) Regulation 2002*.

Question 12

- The portable long service leave levy need not be paid when the application is made, but the *Building and Construction Industry (Portable Long Service Leave) Act 1991* requires the levy to be paid before a development permit is issued.
- Building and construction industry notification and payment forms are available from any Queensland post office or agency, on request from QLeave, or can be completed on the QLeave website at www.qleave.qld.gov.au. For further information contact QLeave on 1800 803 481 or visit www.qleave.qld.gov.au.

Privacy—The information collected in this form will be used by the Department of State Development, Infrastructure and Planning (DSDIP), assessment manager, referral agency and/or building certifier in accordance with the processing and assessment of your application. Your personal details should not be disclosed for a purpose outside of the IDAS process or the provisions about public access to planning and development information in the *Sustainable Planning Act 2009*, except where required by legislation (including the *Right to Information Act 2009*) or as required by Parliament. This information may be stored in relevant databases. The information collected will be retained as required by the *Public Records Act 2002*.

OFFICE USE ONLY

Date received Reference numbers

NOTIFICATION OF ENGAGEMENT OF A PRIVATE CERTIFIER

To Council. I have been engaged as the private certifier for the building work referred to in this application

Date of engagement	Name	BSA Certification license number	Building classification/s

QLEAVE NOTIFICATION AND PAYMENT (For completion by assessment manager or private certifier if applicable.)

Description of the work	QLeave project number	Amount paid (\$)	Date paid	Date received form sighted by assessment manager	Name of officer who sighted the form

The *Sustainable Planning Act 2009* is administered by the Department of State Development, Infrastructure and Planning. This form and all other required application materials should be sent to your assessment manager and any referral agency.

#	EAST	NORTH	
1	388249	8067121	POINT OF COMMENCEMENT POINT 1 PLAN 14/185 SHEET 2
2	388547	8067094	
3	388578	8067391	
4	388674	8067511	
5	388659	8067647	
6	388737	8067726	
7	388777	8067922	
8	388882	8067881	see plan
9	388975	8067908	
10	389008	8067945	
11	388988	8068143	
12	389019	8068140	
13	389110	8068098	
14	389280	8068125	
15	389295	8068161	
16	389159	8068335	see plan
17	389268	8068391	
18	389376	8068328	
19	389379	8068337	
20	389272	8068401	
21	389029	8068452	see plan
22	388982	8068431	
23	388945	8068402	
24	388842	8068380	
25	388670	8068406	
26	388614	8068425	
27	388518	8068431	
28	388416	8068381	
29	388367	8068443	see plan

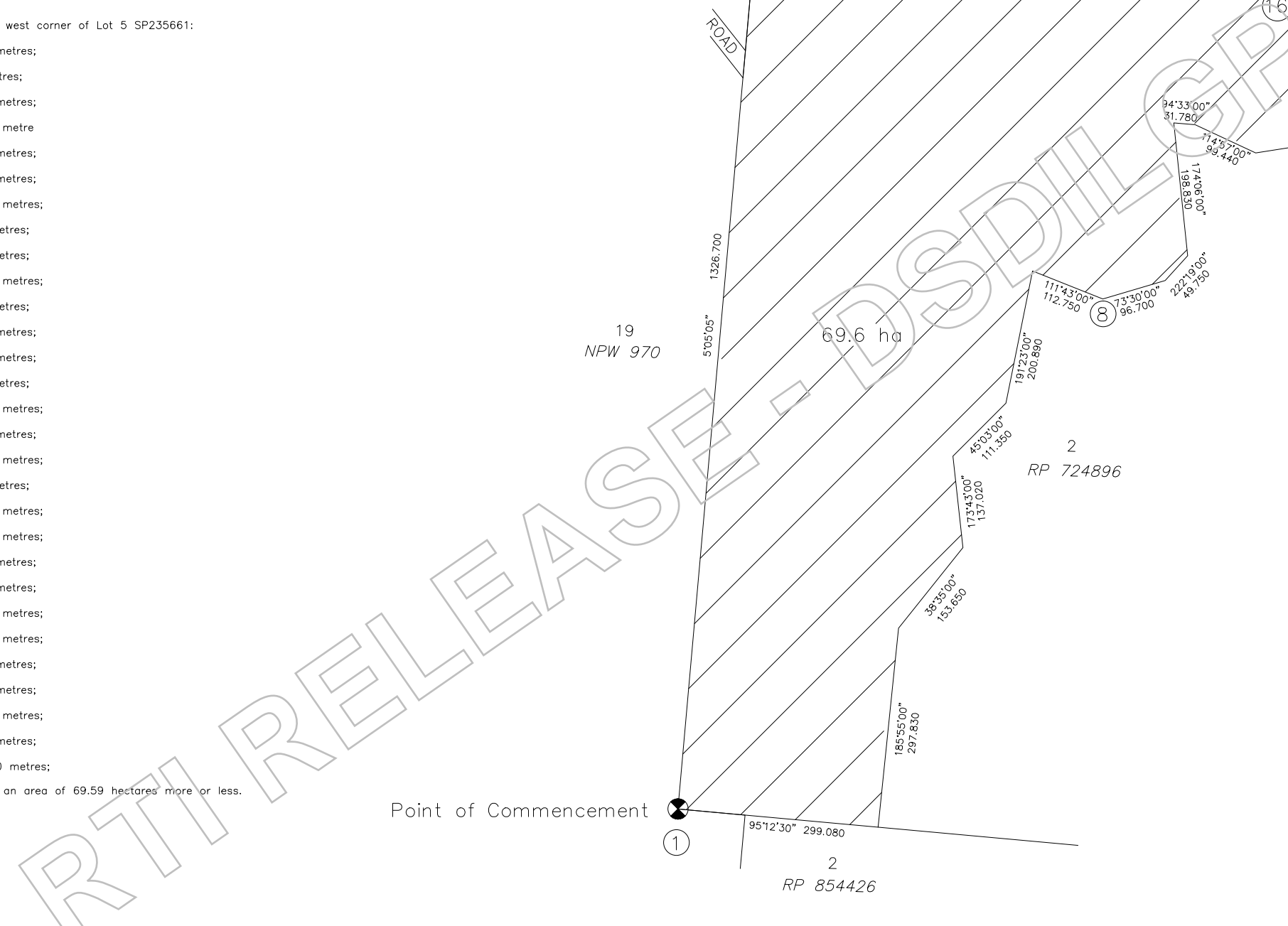
Note: GDA94 ZONE 55 coordinates obtained by scaling from DNR Smart Map printed at a scale of 1:10000 on 16/07/2014.

The Metes and Bounds Description of Extractive Resource Site (ERS) within Lot 5 SP235661 Parish of Glady, County of Nares

Commencing at a known point being the south west corner of Lot 5 SP235661:

- Thence at a bearing of 95°12'30" for 299.08 metres;
- Thence at a bearing of 5°5'00" for 297.83 metres;
- Thence at a bearing of 38°35'00" for 153.65 metres;
- Thence at a bearing of 353°43'00" for 137.02 metre
- Thence at a bearing of 45°03'00" for 111.35 metres;
- Thence at a bearing of 11°23'00" for 200.89 metres;
- Thence at a bearing of 111°43'00" for 112.75 metres;
- Thence at a bearing of 73°30'00" for 96.70 metres;
- Thence at a bearing of 42°19'00" for 49.75 metres;
- Thence at a bearing of 354°06'00" for 198.83 metres;
- Thence at a bearing of 94°33'00" for 31.78 metres;
- Thence at a bearing of 114°57'00" for 99.44 metres;
- Thence at a bearing of 81°08'00" for 172.64 metres;
- Thence at a bearing of 22°07'00" for 39.33 metres;
- Thence at a bearing of 321°53'00" for 220.62 metres;
- Thence at a bearing of 62°54'00" for 123.20 metres;
- Thence at a bearing of 120°27'00" for 124.87 metres;
- Thence at a bearing of 19°33'00" for 10.06 metres;
- Thence at a bearing of 300°27'00" for 124.87 metres;
- Thence at a bearing of 282°00'02" for 247.94 metres;
- Thence at a bearing of 246°03'00" for 51.90 metres;
- Thence at a bearing of 232°16'00" for 46.75 metres;
- Thence at a bearing of 257°46'00" for 105.65 metres;
- Thence at a bearing of 278°34'00" for 173.49 metres;
- Thence at a bearing of 288°39'00" for 59.10 metres;
- Thence at a bearing of 273°50'00" for 95.88 metres;
- Thence at a bearing of 243°55'00" for 114.10 metres;
- Thence at a bearing of 321°40'00" for 78.96 metres;
- Thence at a bearing of 185°05'05" for 1326.70 metres;

to the Point of commencement and containing an area of 69.59 hectares more or less.



title: METES & BOUNDS DESCRIPTION of EXTRACTIVE RESOURCE SITE MOODY ROAD – VASA VIEWS	PARISH GLADY	CALCULATED	DATE	Sch. 4(4)(6) - Disclosing personal information Bach.App.Sc.(Surv.) Cadastral Surveyor	SCALE	1:8000 (A3)		
	COUNTY NARES	SURVEYED	DATE JUL 14		FILES REF.			
	LOCAL AUTH. CASS COAST REG	DRAWN GSM	DATE JUL 14		PROPERTY DESC.	Lot 5 on SP 235661		
client: DARALEIGH P/L	SURVEY EXAMINED		DATE	11 Kavieng Street, Trinity Beach 4879. P.O. Box 152 Trinity Beach.	Fax: 0740 577 089 Email:	FILE	14/185	SHEET 2
	PLAN EXAMINED Sch. 4(4)(6) - Disclosing personal information		DATE JUL 14			Sch. 4(4)(6) - Disclosing personal information		

IDAS form 5—Material change of use assessable against a planning scheme

(Sustainable Planning Act 2009 version 3.0 effective 1 July 2013)

This form must be used for development applications for a material change of use assessable against a planning scheme.

You **MUST** complete **ALL** questions that are stated to be a mandatory requirement unless otherwise identified on this form.

For all development applications, you must:

- complete *IDAS form 1—Application details*
- complete any other forms relevant to your application
- provide any mandatory supporting information identified on the forms as being required to accompany your application.

Attach extra pages if there is insufficient space on this form.

All terms used on this form have the meaning given in the Sustainable Planning Act 2009 (SPA) or the Sustainable Planning Regulation 2009.

This form must also be used for material change of use on strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994* and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008* that requires assessment against the land use plan for that land. Whenever a planning scheme is mentioned, take it to mean land use plan for the strategic port land, Brisbane core port land or airport land.

This form can also be completed online using MyDAS at www.dsdip.qld.gov.au/MyDAS

Mandatory requirements

1. Describe the proposed use. (Note: this is to provide additional detail to the information provided in question 1 of *IDAS form 1—Application details*. Attach a separate schedule if there is insufficient space in this table.)

General explanation of the proposed use	Planning scheme definition (include each definition in a new row) (non-mandatory)	No. of dwelling units (if applicable) or gross floor area (if applicable)	Days and hours of operation (if applicable)	No. of employees (if applicable)
Extraction including Screening and Storage	Extraction	N/A	Refer Planning Report	TBC

2. Are there any current approvals associated with the proposed material change of use? (e.g. a preliminary approval.)

No Yes—provide details below

List of approval reference/s	Date approved (dd/mm/yy)	Date approval lapses (dd/mm/yy)

3. Does the proposed use involve the following? (Tick all applicable boxes.)

- | | | | | |
|--|-------------------------------------|----|-------------------------------------|-----|
| The reuse of existing buildings on the premises | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Yes |
| New building work on the premises | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | Yes |
| The reuse of existing operational work on the premises | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | Yes |
| New operational work on the premises | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | Yes |

Mandatory supporting information

4. Confirm that the following mandatory supporting information accompanies this application

Mandatory supporting information	Confirmation of lodgement	Method of lodgement
All applications		
<p>A site plan drawn to an appropriate scale (1:100, 1:200 or 1:500 are recommended scales) which shows the following:</p> <ul style="list-style-type: none"> the location and site area of the land to which the application relates (<i>relevant land</i>) the north point the boundaries of the relevant land any road frontages of the relevant land, including the name of the road the location and use of any existing or proposed buildings or structures on the relevant land (note: where extensive demolition or new buildings are proposed, two separate plans [an existing site plan and proposed site plan] may be appropriate) any existing or proposed easements on the relevant land and their function the location and use of buildings on land adjoining the relevant land all vehicle access points and any existing or proposed car parking areas on the relevant land. Car parking spaces for persons with disabilities and any service vehicle access and parking should be clearly marked for any new building on the relevant land, the location of refuse storage the location of any proposed retaining walls on the relevant land and their height the location of any proposed landscaping on the relevant land the location of any stormwater detention on the relevant land. 	<input checked="" type="checkbox"/> Confirmed	Online
A statement about how the proposed development addresses the local government's planning scheme and any other planning instruments or documents relevant to the application.	<input checked="" type="checkbox"/> Confirmed	Online
A statement about the intensity and scale of the proposed use (e.g. number of visitors, number of seats, capacity of storage area etc.).	<input checked="" type="checkbox"/> Confirmed	Online
<p>Information that states:</p> <ul style="list-style-type: none"> the existing or proposed floor area, site cover, maximum number of storeys and maximum height above natural ground level for existing or new buildings (e.g. information regarding existing buildings but not being reused) the existing or proposed number of on-site car parking bays, type of vehicle cross-over (for non-residential uses) and vehicular servicing arrangement (for non-residential uses). 	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	

A statement addressing the relevant part(s) of the State Development Assessment Provisions (SDAP).	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not applicable	Online
When the application involves the reuse of existing buildings		
Plans showing the size, location, existing floor area, existing site cover, existing maximum number of storeys and existing maximum height above natural ground level of the buildings to be reused.	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
When the application involves new building work (including extensions)		
Floor plans drawn to an appropriate scale (1:50, 1:100 or 1:200 are recommended scales) which show the following: <ul style="list-style-type: none"> the north point the intended use of each area on the floor plan (for commercial, industrial or mixed use developments only) the room layout (for residential development only) with all rooms clearly labelled the existing and the proposed built form (for extensions only) the gross floor area of each proposed floor area. 	<input checked="" type="checkbox"/> Confirmed	Online
Elevations drawn to an appropriate scale (1:100, 1:200 or 1:500 are recommended scales) which show plans of all building elevations and facades, clearly labelled to identify orientation (e.g. north elevation)	<input checked="" type="checkbox"/> Confirmed	Online
Plans showing the size, location, proposed site cover, proposed maximum number of storeys, and proposed maximum height above natural ground level of the proposed new building work.	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not applicable	Online
When the application involves reuse of other existing work		
Plans showing the nature, location, number of on-site car parking bays, existing area of landscaping, existing type of vehicular cross-over (non-residential uses), and existing type of vehicular servicing arrangement (non-residential uses) of the work to be reused.	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not applicable	Online
When the application involves new operational work		
Plans showing the nature, location, number of new on-site car parking bays, proposed area of new landscaping, proposed type of new vehicle cross-over (non-residential uses), proposed maximum new vehicular servicing arrangement (non-residential uses) of the proposed new operational work.	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not applicable	Online

Privacy—Please refer to your assessment manager, referral agency and/or building certifier for further details on the use of information recorded in this form.

OFFICE USE ONLY

Date received Reference numbers

The *Sustainable Planning Act 2009* is administered by the Department of State Development, Infrastructure and Planning. This form and all other required application materials should be sent to your assessment manager and any referral agency.

IDAS form 11—Clearing native vegetation

(Sustainable Planning Act 2009 version 3.1 effective 23 September 2013)

This form must be used for development applications that involve the clearing of native vegetation.

You **MUST** complete **ALL** questions that are stated to be a mandatory requirement unless otherwise identified on this form.

For all development applications, you must:

- complete *IDAS form 1—Application details*
- complete any other forms relevant to your application
- provide any mandatory supporting information identified on the forms as being required to accompany your application
- include the relevant application fee, noting that referral agency fees (where applicable) are to be paid to the referral agency.

Attach extra pages if there is insufficient space on this form.

All terms used on this form have the meaning given in the *Sustainable Planning Act 2009* (SPA) or the Sustainable Planning Regulation 2009.

This form can also be completed online using MyDAS at www.dsdip.qld.gov.au/MyDAS

Mandatory requirements

1. What type of development is proposed?

- Operational work for clearing vegetation made assessable under Schedule 3 of the Sustainable Planning Regulation 2009
- Material change of use of the premises
- Reconfiguring a lot

2. What type of approval is being sought?

- Development permit
- Preliminary approval
- Both—provide details below

Extraction (including Screening and Storage)

Mandatory supporting information

3. Confirm that the following mandatory supporting information accompanies this application

For ALL applications	Confirmation of lodgement	Method of lodgement
A property vegetation management plan including as defined under the Vegetation Management Act 1999 schedule. Note: A property vegetation management plan must show the matters prescribed in section 11 of the Vegetation Management Regulation 2012.	<input checked="" type="checkbox"/> Confirmed	Online

For ALL applications	Confirmation of lodgement	Method of lodgement
A statement addressing the relevant part(s) of the State Development Assessment Provisions (SDAP).	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not applicable	Online
For an operational work application for which the assessment manager is the local government		
Written confirmation that the chief executive of the Department of Natural Resources and Mines is satisfied the proposed clearing is for a relevant purpose under the <i>Vegetation Management Act 1999</i> , section 22A.	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
For an operational work application where the assessment manager is the Department of State Development, Infrastructure and Planning		
Either of the following: <ul style="list-style-type: none"> written confirmation that the chief executive of the Department of Natural Resources and Mines is satisfied the proposed clearing is for a relevant purpose under the <i>Vegetation Management Act 1999</i>, section 22A; or information identifying the relevant purpose under the <i>Vegetation Management Act 1999</i>, section 22A and demonstrating how the proposed clearing is for that purpose. 	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
For applications for a material change of use or reconfiguring a lot		
The following additional detail to be included in the property vegetation management plan: <ul style="list-style-type: none"> details of the location and extent of: <ul style="list-style-type: none"> infrastructure, including buildings, fences, roads and electrical, telecommunication or sewerage services; and firebreaks and fire management lines; and details of the way the proposed clearing complies with the relevant part(s) of the SDAP. 	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	

Notes for completing this form

- The Department of Natural Resource and Mines (DNRM) website contains a comprehensive range of information about the *Vegetation Management Act 1999*.
- Question 3 for operational work applications — Under the *Vegetation Management Act 1999*, the proposed vegetation clearing is only for a relevant purpose if the applicant satisfies the chief executive of the DNRM that the development applied for is one of the purposes listed in section 22A of that Act. If the assessment manager is the local government, the applicant must obtain confirmation from the chief executive of DNRM that the proposed clearing is for a relevant purpose and provide this with the application. However, if the Department of State Development, Infrastructure and Planning (DSDIP) is the assessment manager, the applicant has the choice of either obtaining this confirmation from DNRM before making the application, or providing adequate information for the decision to be made on whether the proposed clearing is for a relevant purpose at the time the application is made.

Privacy—Please refer to your assessment manager, referral agency and/or building certifier for further details on the use of information recorded in this form.

OFFICE USE ONLY

Date received

Reference numbers

The *Sustainable Planning Act 2009* is administered by the Department of State Development, Infrastructure and Planning. This form and all other required application materials should be sent to your assessment manager and any referral agency.

IDAS form 1—Application details

(Sustainable Planning Act 2009 version 3.0 effective 1 July 2013)

This form must be used for **ALL** development applications.

You **MUST** complete **ALL** questions that are stated to be a mandatory requirement unless otherwise identified on this form.

For all development applications, you must:

complete this form (*IDAS form 1—Application details*)

complete any other forms relevant to your application

provide any mandatory supporting information identified on the forms as being required to accompany your application.

Attach extra pages if there is insufficient space on this form.

All terms used on this form have the meaning given in the *Sustainable Planning Act 2009* (SPA) or the Sustainable Planning Regulation 2009.

This form and any other IDAS form relevant to your application must be used for development applications relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994* and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008*. Whenever a planning scheme is mentioned, take it to mean land use plan for the strategic port land, Brisbane core port land or airport land.

PLEASE NOTE: This form is not required to accompany requests for compliance assessment.

This form can also be completed online using MyDAS at www.dsdip.qld.gov.au/MyDAS

Mandatory requirements

Applicant details (Note: the applicant is the person responsible for making the application and need not be the owner of the land. The applicant is responsible for ensuring the information provided on all IDAS application forms is correct. Any development permit or preliminary approval that may be issued as a consequence of this application will be issued to the applicant.)

Name/s (individual or company name in full)

Daraleigh Pty Ltd as Trustee

For companies, contact name

C/- Kristy Gilvear, Gilvear Planning

Postal address

PO Box 228

Suburb	BABINDA		
State	QLD	Postcode	4861
Country	AUSTRALIA		

Contact phone number

0448897991

Mobile number (non-mandatory requirement)

0448897991

Fax number (non-mandatory requirement)

Email address (non-mandatory requirement)

kristy@gilvearplanning.com.au

Applicant's reference number (non-mandatory requirement)

J000143:DIL:KLG

1. What is the nature of the development proposed and what type of approval is being sought?

Table A—Aspect 1 of the application (If there are additional aspects to the application please list in Table B—Aspect 2.)

a) What is the nature of the development?

Material Change of Use

b) What is the approval type?

Development permit

c) Provide a brief description of the proposal, including use definition and number of buildings or structures where applicable (e.g. six unit apartment building defined as a multi-unit dwelling, 30 lot residential subdivision etc.)

Extraction (Removal of Rock including Screening and Storage of Material)

d) What is the level of assessment? (Please only tick one box.)

Code Assessment

2. Location of the premises (Complete Table D and/or Table E as applicable. Identify each lot in a separate row.)

Table D—Street address and lot on plan for the premises or street address and lot on plan for the land adjoining or adjacent to the premises (Note: this table is to be used for applications involving taking or interfering with water). (Attach a separate schedule if there is insufficient space in this table.)

Street address **and** lot on plan (All lots must be listed.)

Street address **and** lot on plan for the land adjoining or adjacent to the premises (Appropriate for development in water but adjoining or adjacent to land, e.g. jetty, pontoon. All lots must be listed.)

Street address					Lot on plan description		Local government area (e.g. Logan, Cairns)
Lot	Unit no.	Street no.	Street name and official suburb/ locality name	Post-code	Lot no.	Plan type and plan no.	

I					5	SP235661	CASSOWARY COAST REGIONAL
II					5	SP235661	CASSOWARY COAST REGIONAL

Planning scheme details (if the premises involves multiple zones, clearly identify the relevant zone/s for each lot in a separate row in the below table. Non-mandatory)

Lot	Applicable zone/precinct	Applicable local plan/precinct	Applicable overlay/s
I			
II			

Table E—Premises coordinates (Appropriate for development in remote areas, over part of a lot or in water not adjoining or adjacent to land e.g. channel dredging in Moreton Bay.) (Attach a separate schedule if there is insufficient space in this table.)

Coordinates (Note: place each set of coordinates in a separate row)				Zone reference	Datum	Local government area (if applicable)
Easting	Northing	Latitude	Longitude			

3. Total area of the premises on which the development is proposed (indicate square metres)

69.59ha

4. Current use/s of the premises (e.g. vacant land, house, apartment building, cane farm etc.)

Rural (Grazing/Farm purposes)

5. Are there any current approvals (e.g. a preliminary approval) associated with this application? (Non-mandatory requirement)

No Yes—provide details below

List of approval reference/s	Date approved (dd/mm/yy)	Date approval lapses (dd/mm/yy)

6. Is owner's consent required for this application? (Refer to notes at the end of this form for more information.)

No Yes—complete either Table F, Table G or Table H as applicable

Table F

Name of owner/s of the land	
I/We, the above-mentioned owner/s of the land, consent to the making of this application.	
Signature of owner/s of the land	
Date	

Table G

Name of owner/s of the land	Daraleigh Pty Ltd as Trustee
<input checked="" type="checkbox"/>	The owner's written consent is attached or will be provided separately to the assessment manager

Table H

Name of owner/s of the land

- By making this application, I, the applicant, declare that the owner has given written consent to the making of the application.

7. Identify if any of the following apply to the premises (Tick all applicable boxes.)

- Adjacent to a water body, watercourse or aquifer (e.g. creek, river, lake, canal)—complete Table I
- On strategic port land under the *Transport Infrastructure Act 1994*—complete Table J
- In a tidal water area—complete Table K
- On Brisbane core port land under the *Transport Infrastructure Act 1994* (no table requires completion)
- On airport land under the *Airport Assets (Restructuring and Disposal) Act 2008* (no table requires completion)
- Listed on either the Contaminated Land Register (CLR) or the Environmental Management Register (EMR) under the Environmental Protection Act 1994 (no table requires completion)

Table I

Name of water body, watercourse or aquifer

Table J

Lot on plan description for strategic port land

Port authority for the lot

Table K

Name of local government for the tidal area (if applicable)

Port authority for the tidal area (if applicable)

8. Are there any existing easements on the premises? (e.g. for vehicular access, electricity, overland flow, water etc)

- No Yes—ensure the type, location and dimension of each easement is included in the plans submitted.

9. Does the proposal include new building work or operational work on the premises? (Including any services)

- No Yes—ensure the nature, location and dimension of proposed works are included in plans submitted

10. Is the payment of a portable long service leave levy applicable to this application? (Refer to notes at the end of this form for more information.)

- No—go to question 12 Yes

11. Has the portable long service leave levy been paid? (Refer to notes at the end of this form for more information.)

- No
- Yes—complete Table L and submit with this application the yellow local government/private certifier's copy of the receipted QLeave form

Table L

Amount paid	Date paid (dd/mm/yy)	QLeave project number (6 digit number starting with A, B, E, L or P)

12. Has the local government agreed to apply a superseded planning scheme to this application under section 96 of the *Sustainable Planning Act 2009*?

- No
- Yes—please provide details below

Name of local government	Date of written notice given by local government (dd/mm/yy)	Reference number of written notice given by local government (if applicable)

13. List below all of the forms and supporting information that accompany this application (Include all IDAS forms, checklists, mandatory supporting information etc. that will be submitted as part of this application. Note: this question does not apply for applications made online using MyDAS)

Description of attachment or title of attachment	Method of lodgement to assessment manager
Supporting Information -- Proposal Brief Statement of 1st aspect	
Supporting Information -- Proposal Brief Statement of 2nd aspect	
Supporting Information -- Proposed plans	
consent to the making of this application. -- Owner's consent	
Plan -- Existing easement plan	
Supporting Information -- Local government/private certifier	
Supporting Information -- Additional Information	

14. Applicant's declaration

- By making this application, I declare that all information in this application is true and correct (Note: it is unlawful to provide false or misleading information)

Notes for completing this form

- Section 261 of the *Sustainable Planning Act 2009* prescribes when an application is a properly-made application. Note, the assessment manager has discretion to accept an application as properly made despite any non-compliance with the requirement to provide mandatory supporting information under section 260(1)(c) of the *Sustainable Planning Act 2009*

Applicant details

- Where the applicant is not a natural person, ensure the applicant entity is a real legal entity.

Question 1

- Schedule 3 of the Sustainable Planning Regulation 2009 identifies assessable development and the type of assessment. Where schedule 3 identifies assessable development as “various aspects of development” the applicant must identify each aspect of the development on Tables A, B and C respectively and as required.

Question 6

- Section 263 of the *Sustainable Planning Act 2009* sets out when the consent of the owner of the land is required for an application. Section 260(1)(e) of the *Sustainable Planning Act 2009* provides that if the owner’s consent is required under section 263, then an application must contain, or be accompanied by, the written consent of the owner, or include a declaration by the applicant that the owner has given written consent to the making of the application. If a development application relates to a state resource, the application is not required to be supported by evidence of an allocation or entitlement to a state resource. However, where the state is the owner of the subject land, the written consent of the state, as landowner, may be required. Allocation or entitlement to the state resource is a separate process and will need to be obtained before development commences.

Question 11

- The *Building and Construction Industry (Portable Long Service Leave) Act 1991* prescribes when the portable long service leave levy is payable.
- The portable long service leave levy amount and other prescribed percentages and rates for calculating the levy are prescribed in the *Building and Construction Industry (Portable Long Service Leave) Regulation 2002*.

Question 12

- The portable long service leave levy need not be paid when the application is made, but the *Building and Construction Industry (Portable Long Service Leave) Act 1991* requires the levy to be paid before a development permit is issued.
- Building and construction industry notification and payment forms are available from any Queensland post office or agency, on request from QLeave, or can be completed on the QLeave website at www.qleave.qld.gov.au. For further information contact QLeave on 1800 803 481 or visit www.qleave.qld.gov.au.

Privacy—The information collected in this form will be used by the Department of State Development, Infrastructure and Planning (DSDIP), assessment manager, referral agency and/or building certifier in accordance with the processing and assessment of your application. Your personal details should not be disclosed for a purpose outside of the IDAS process or the provisions about public access to planning and development information in the *Sustainable Planning Act 2009*, except where required by legislation (including the *Right to Information Act 2009*) or as required by Parliament. This information may be stored in relevant databases. The information collected will be retained as required by the *Public Records Act 2002*.

OFFICE USE ONLY

Date received Reference numbers

NOTIFICATION OF ENGAGEMENT OF A PRIVATE CERTIFIER

To Council. I have been engaged as the private certifier for the building work referred to in this application

Date of engagement	Name	BSA Certification license number	Building classification/s

QLEAVE NOTIFICATION AND PAYMENT (For completion by assessment manager or private certifier if applicable.)

Description of the work	QLeave project number	Amount paid (\$)	Date paid	Date received form sighted by assessment manager	Name of officer who sighted the form

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Department of State Development, Infrastructure and Planning
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tel 13 QGOV (13 74 68)
info@dsdip.qld.gov.au

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RTI RELEASE - DSDILGP

IDAS form 11—Clearing native vegetation

(Sustainable Planning Act 2009 version 3.1 effective 23 September 2013)

This form must be used for development applications that involve the clearing of native vegetation.

You **MUST** complete **ALL** questions that are stated to be a mandatory requirement unless otherwise identified on this form.

For all development applications, you must:

- complete *IDAS form 1—Application details*
- complete any other forms relevant to your application
- provide any mandatory supporting information identified on the forms as being required to accompany your application
- include the relevant application fee, noting that referral agency fees (where applicable) are to be paid to the referral agency

Attach extra pages if there is insufficient space on this form.

All terms used on this form have the meaning given in the *Sustainable Planning Act 2009* or the *Sustainable Planning Regulation 2009*.

This form can also be completed online using MyDAS at www.dsdipl.qld.gov.au/MyDAS

Mandatory requirements

1. What type of development is proposed?

- Operational work for clearing vegetation made assessable under Schedule 3 of the Sustainable Planning Regulation 2009
- Material change of use of the premises
- Reconfiguring a lot

2. What type of approval is being sought?

<input checked="" type="checkbox"/>	Development permit
<input type="checkbox"/>	Preliminary approval
<input type="checkbox"/>	Both—provide details below

3. Confirm that the following mandatory supporting information accompanies this application

For ALL applications	Confirmation of lodgement	Method of lodgement
A property vegetation management plan including as defined under the Vegetation Management Act 1999 schedule. Note: A property vegetation management plan must show the matters prescribed in section 11 of the Vegetation Management Regulation 2012.	<input checked="" type="checkbox"/> Confirmed	
A statement addressing the relevant part(s) of the State Development Assessment Provisions (SDAP).	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not Applicable	
For an operational work application for which the assessment manager is the local government		
Written confirmation that the chief executive of the Department of Natural Resources and Mines is satisfied the proposed clearing is for a relevant purpose under the <i>Vegetation Management Act 1999</i> , section 22A.	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not Applicable	
For an operational work application where the assessment manager is the Department of State Development Infrastructure and Planning		
Either of the following: <ul style="list-style-type: none"> • written confirmation that the chief executive of the Department of Natural Resources and Mines is satisfied the proposed clearing is for a relevant purpose under the <i>Vegetation Management Act 1999</i>, section 22A or • information identifying the relevant purpose under the <i>Vegetation Management Act 1999</i>, section 22A and demonstrating how the proposed clearing is for that purpose. 	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not Applicable	
For applications for a material change of use or reconfiguring a lot		
The following additional detail to be included in the property vegetation management plan: <ul style="list-style-type: none"> • details of the location and extent of <ul style="list-style-type: none"> • infrastructure including buildings, fences, roads and electrical, telecommunication or sewerage services; and • firebreaks and fire management lines; and • details of the way the proposed clearing complies with the relevant part(s) of the SDAP. 	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not Applicable	

Notes for completing this form

- The Department of Natural Resource and Mines (DNRM) website contains a comprehensive range of information about the *Vegetation Management Act 1999*.
- Question 3 for operational work applications —Under the *Vegetation Management Act 1999*, the proposed vegetation clearing is only for a relevant purpose if the applicant satisfies the chief executive of the DNRM that the development applied for is one of the purposes listed in section 22A of that Act. If the assessment manager is the local government, the applicant must obtain confirmation from the chief executive of DNRM that the proposed clearing is for a relevant purpose and provide this with the application. However, if the Department of State Development, Infrastructure and Planning (DSDIP) is the assessment manager, the applicant has the choice of either obtaining this confirmation from DNRM before making the application, or providing adequate information for the decision to be made on whether the proposed clearing is for a relevant purpose at the time the application is made.

Privacy—Please refer to your assessment manager, referral agency and/or building certifier for further details on the use of information recorded in this form.

OFFICE USE ONLY

Date received

Reference numbers

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Department of State Development, Infrastructure and Planning

PO Box 15009 City East Qld 4002

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www.dsdip.qld.gov.au

IDAS form 5—Material change of use assessable against a planning scheme

(Sustainable Planning Act 2009 version 3.0 effective 1 July 2013)

This form must be used for development applications for a material change of use assessable against a planning scheme.

You **MUST** complete **ALL** questions that are stated to be a mandatory requirement unless otherwise identified on this form.

For all development applications, you must:

- complete *IDAS form 1—Application details*
- complete any other forms relevant to your application
- provide any mandatory supporting information identified on the forms as being required to accompany your application.

Attach extra pages if there is insufficient space on this form.

All terms used on this form have the meaning given in the *Sustainable Planning Act 2009* or the Sustainable Planning Regulation 2009.

This form must also be used for material change of use on strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994* and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008* that requires assessment against the land use plan for that land. Whenever a planning scheme is mentioned, take it to mean land use plan for the strategic port land, Brisbane core port land or airport land.

This form can also be completed online using MyDAS at www.dsdip.qld.gov.au/MyDAS

Mandatory requirements

1. Describe the proposed use. (Note: this is to provide additional detail to the information provided in question 1 of *IDAS form 1—Application details*. Attach a separate schedule if there is insufficient space in this table.)

General explanation of the proposed use	Planning scheme definition (include each definition in a new row) (non mandatory)	No. of dwelling units (if applicable) or gross floor area (if applicable)	Days and hours of operation (if applicable)	No. of employees (if applicable)
Extraction including Processing and Storage	Extraction			

2. Are there any current approvals associated with the proposed material change of use? (e.g. a preliminary approval.)

No Yes—provide details below

Reference/s	Date approved (dd/mm/yy)	Date approval lapses (dd/mm/yy)

3. Does the proposed use involve the following? (Tick all applicable boxes.)

- | | | | | |
|--|-------------------------------------|----|-------------------------------------|-----|
| The reuse of existing buildings on the premises | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Yes |
| New building work on the premises | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | Yes |
| The reuse of existing operational work on the premises | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | Yes |
| New operational work on the premises | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | Yes |

Mandatory supporting information

4. Confirm that the following mandatory supporting information accompanies this application

Mandatory supporting information	Confirmation of lodgement	Method of lodgement
All applications		
<p>A site plan drawn to an appropriate scale (1:100, 1:200 or 1:500 are recommended scales) which shows the following:</p> <ul style="list-style-type: none"> the location and site area of the land to which the application relates (<i>relevant land</i>) the north point the boundaries of the relevant land any road frontages of the relevant land, including the name of the road the location and use of any existing or proposed buildings or structures on the relevant land (note: where extensive demolition or new buildings are proposed, two separate plans an existing site plan and proposed site plan) may be appropriate any existing or proposed easements on the relevant land and their function the location and use of buildings on land adjoining the relevant land all vehicle access points and any existing or proposed car parking areas on the relevant land. Car parking spaces for persons with disabilities and any service vehicle access and parking should be clearly marked for any new building on the relevant land, the location of refuse storage the location of any proposed retaining walls on the relevant land and their height the location of any proposed landscaping on the relevant land the location of any stormwater detention on the relevant land. 	<input checked="" type="checkbox"/> Confirmed	
A statement about how the proposed development addresses the local government's planning scheme and any other planning instruments or documents relevant to the application.	<input checked="" type="checkbox"/> Confirmed	
A statement about the intensity and scale of the proposed use (e.g. number of visitors, number of seats, capacity of storage area etc.).	<input checked="" type="checkbox"/> Confirmed	
<p>Information that states:</p> <ul style="list-style-type: none"> the existing or proposed floor area, site cover, maximum number of 	<input checked="" type="checkbox"/> Confirmed	

<p>storeys and maximum height above natural ground level for existing or new buildings (e.g. information regarding existing buildings but not being reused)</p> <ul style="list-style-type: none"> the existing or proposed number of on-site car parking bays, type of vehicle cross-over (for non-residential uses) and vehicular servicing arrangement (for non-residential uses). 	<input type="checkbox"/> Not Applicable	
<p>A statement addressing the relevant part(s) of the State Development Assessment Provisions (SDAP).</p>	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not Applicable	
<p>When the application involves the reuse of existing buildings</p>		
<p>Plans showing the size, location, existing floor area, existing site cover, existing maximum number of storeys and existing maximum height above natural ground level of the buildings to be reused.</p>	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not Applicable	
<p>When the application involves new building work (including extensions)</p>		
<p>Floor plans drawn to an appropriate scale (1:50, 1:100 or 1:200 are recommended scales) which show the following:</p> <ul style="list-style-type: none"> the north point the intended use of each area on the floor plan (for commercial, industrial or mixed use developments only) the room layout (for residential development only) with all rooms clearly labelled the existing and the proposed built form (for extensions only) the gross floor area of each proposed floor area. 	<input checked="" type="checkbox"/> Confirmed	
<p>Elevations drawn to an appropriate scale (1:100, 1:200 or 1:500 are recommended scales) which show plans of all building elevations and facades, clearly labelled to identify orientation (e.g. north elevation)</p>	<input checked="" type="checkbox"/> Confirmed	
<p>Plans showing the size, location, proposed site cover, proposed maximum number of storeys, and proposed maximum height above natural ground level of the proposed new building work.</p>	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not Applicable	
<p>When the application involves reuse of other existing work</p>		
<p>Plans showing the nature, location, number of on-site car parking bays, existing area of landscaping, existing type of vehicular cross-over (non-residential uses), and existing type of vehicular servicing arrangement (non-residential uses) of the work to be reused.</p>	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not Applicable	
<p>When the application involves new operational work</p>		
<p>Plans showing the nature, location, number of new on-site car parking bays, proposed area of new landscaping, proposed type of new vehicle cross-over (non-residential uses), proposed maximum new vehicular servicing arrangement (non-residential uses) of the proposed new operational work.</p>	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not Applicable	

Privacy—Please refer to your assessment manager, referral agency and/or building certifier for further details on the use of information recorded in this form.

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Your Ref: DEV2014/0068-DH:nt1408140841 (Council)
SDA-0714-013023 (State)
Our Ref: J000143:DIL:KLG
Date: 14 January 2015

Chief Executive Officer
Cassowary Coast Regional Council
PO Box 887
INNISFAIL QLD 4860

Via SmartEDA

And to:

State Assessment and Referral Agency (SARA)
Department of State Development, Infrastructure and Planning
PO Box 2358
CAIRNS QLD 4870

Via MyDAS and Email to CairnsSARA@dsdip.qld.gov.au

Dear Sir / Madam,

RE: Application for Development Permit for Extractive Industry at Moody Road, Vasa Views (Part of Lot 5 on SP235661)

I refer to previous correspondence regarding the above-described matter, and in particular:

- (a) Council's Information Request dated 14 August 2014; and
- (b) the State's information Request dated 13 August 2014.

Pursuant to Section 278 of the *Sustainable Planning Act 2009*, the Applicant:

- (i) Confirms a "minor change" to the development application, following consideration of information requests and clarification of site arrangements proposed; and
- (ii) Provides the following Response to the Information Requests issued.

CHANGE TO APPLICATION

Council's information request sought additional detail regarding a range of issues, including more detailed site arrangements and concepts for development.

In preparation of information to respond to these requests in consultation with the Applicant, it has become apparent that:

- (a) Amendments to internal site arrangements have been necessary (discussed below); and
- (b) Setback distances from residences in the area are such that an Environmental Authority for the activity is required, pursuant to the *Environmental Protection Act* and association Regulations.

On behalf of the Applicant, I confirm that application for Environmental Authority (ERA 16(2)(a) and 16(3)(a) Extracting and Screening) was submitted to the Department of Environment and Heritage Protection via email on 22 December 2014. The Department is currently assessing that Application, and have allocated Reference No AR067639 to same. At this stage, the Department has not requested significant additional information to assist in its assessment of the Application, and we are hopeful that a decision will be issued in coming weeks.

Following assessment of the change to the Application resulting from the modifications to site arrangements, and requirement for an Environmental Authority to be obtained, it is submitted that the change has no impact on assessment processes or stages, in accordance with Section 354(1)(a) and (b)(ii) and (2) of the *Sustainable Planning Act 2009*.

Council is therefore requested to continue in its assessment of the Application as required.

RESPONSES TO INFORMATION REQUESTS

1. Cassowary Coast Regional Council Information Request

Information Request Item 1

Please provide an amended detailed Site Plan, illustrating the following –

- *All existing and proposed buildings;*
- *Car parking areas;*
- *Truck wash down areas;*
- *The location of the weighbridge;*
- *Internal haulage routes (including dimensions and setback distances to adjoining properties);*

- *Buffer areas;*
- *Dimensions of the proposed extraction areas, stockpiles / processing areas and the settlement pond and stormwater management areas.*

Response

Attachment 1 to this Submission is an updated Site Plan, prepared with due regard to site conditions, terrain, sediment and erosion control and operational matters. This Plan:

- a. Confirms existing buildings on site will not be used for the extractive operations proposed;
- b. Confirms a new office, car park and weighbridge area will be provided (no greater than 6,200sq m in size);
- c. Confirms that washdown, stockpile and screening areas will be provided on approximately 6,000sq m within the Stage 1 extractive area (extraction will be undertaken, providing the formalized washdown, stockpile and screening areas, in addition to the Sediment Basin as required);
- d. Outlines the estimated locations of internal haulage routes, which will be formalized with gravel finish and appropriate erosion and sediment control measures (discussed below);
- e. Provides clarification regarding buffer area location and scale across the site;
- f. Confirms the maximum working areas and staging proposed for extraction across the site. It is noted that working areas will at no time exceed 2.27ha in size.

Information Request Item 2

Please provide Floor and Elevation Plans of any proposed or existing buildings that are to be used as part of the development (i.e. staff amenities, office areas etc).

Response

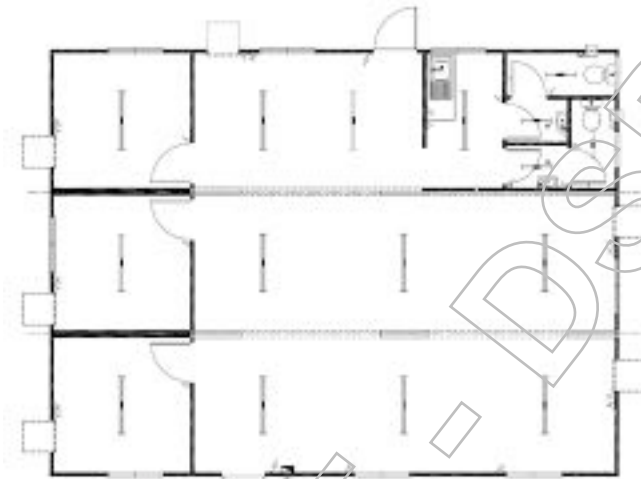
A new Office and Amenities building is proposed for the extractive operations on site. Existing buildings are located inappropriately to be supportive of uses proposed.

The new Office and Amenities building will be located such that incoming and departing traffic across the site can be monitored.

An anticipated internal layout for the new Building is provided below. A transportable / relocatable building is likely to be sourced, although permanent construction may be undertaken if considered necessary in the future.

Appropriate advice will be sought in regards effluent disposal matters associated with the Office and Amenities building. The Applicant notes Council may ensure compliance with appropriate requirements in this regard via the imposition of reasonable conditions on any approval granted.

The building will not exceed 7.5m in height, and will have a floor area no greater than 12m x 9m. Two (2) toilets and a kitchenette will be provided.



Car parking for employees, contractors and visitors will be provided adjoining the main office entry. Car parking areas will be a gravel finish, with appropriate safety and directional signage provided in compliance with the *Manual of Uniform Traffic Control Devices* (TMR Queensland).

Information Request Item 3

Please provide details on the expected number of employees required to operate the proposed business.

Response

At this stage, it is anticipated that no more than 4 - 5 full time equivalent employees will be required on site to operate the business. During initial startup on site, the number is expected to be much lower, with no more than 2 – 3 full time equivalent staff.

Information Request Item 4

Please address the following sections of the State Planning Policy (July 2014)

- *SPP Code: Water Quality*

Response

Within Part E: Interim Development Assessment Requirements of the State Planning Policy (July 2014), relevant Water Quality assessment requirements are applicable to a range of development applications across Queensland.

The following assessment of the project as against those requirements has been undertaken:

Receiving waters:

Development:

- (1) *avoids or otherwise minimizes adverse impacts on the environmental values of receiving waters arising from:*
 - (a) *altered stormwater quality or flows;*
 - (b) *wastewater (other than contaminated stormwater and sewage);*
 - (c) *the creation or expansion of non-tidal artificial waterways; and*
- (2) *by demonstrating it complies with the SPP code: Water Quality (Appendix 3).*

Comment: The Applicant has sought engineering advice in regards stormwater and erosion sediment control and management on the site. Additional commentary in this respect is provided below, and an assessment as against the SPP Code: Water Quality has been completed.

Development in SEQ

Comment: Not applicable. The site is not within the SEQ Water Supply Catchment.

For a development application mentioned under the heading "Acid Sulfate Soils"

Comment: Not applicable. The site is above 5m AHD, and is not affected by Acid Sulfate Soil considerations.

Consideration of the relevant Code requirements is provided below.

Appendix 3: Water Quality Code		
Performance Outcomes	Acceptable Outcomes	Compliance / Comment
PO1 The development is planned and designed considering the	AO1.1 A site stormwater quality management plan (SQMP) is	Complies The updated Site Plan at Attachment 1 considers site

<p>land use constraints of the site for achieving stormwater design objectives.</p>	<p>prepared, and:</p> <p>a. is consistent with any local area stormwater management planning, and</p> <p>b. provides for achievable stormwater quality treatment measures meeting design objectives listed below in Table A (construction phase) and Table B (post construction phase), or current best practice environmental managements, reflecting land use constraints, such as:</p> <ul style="list-style-type: none"> • erosive, dispersive, sodic and/or saline soil types • landscape features (including landform) • acid sulfate soil and management of nutrients of concern • rainfall erosivity. <p><i>Editor's note: Local area stormwater management planning may include Urban Stormwater Quality Management Plans, or Catchment or waterway management plans, Healthy Waters Management Plans, Water Quality Improvement Plans, Natural Resource Management Plans.</i></p>	<p>terrain and operational issues in the context of stormwater management and control.</p> <p>A Stormwater Quality Management Plan has been prepared by Black & More (refer Attachment 2).</p>
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Information Request Item 5

Please provide a Traffic Impact Assessment Report by a qualified RPEQ Traffic Engineer. Additionally, please include preliminary design plans carried out by a suitably qualified person showing the detailing the proposed upgrades to Moody Road as a result of this proposal.

Response

Black & More Engineers have been engaged to prepare a Traffic Impact Assessment Report for the project. This Report is provided at **Attachment 3** for reference, and incorporates confirmation of proposed upgrades to Moody Road arising as a result of development (refer Section 3.0, page 8).

Importantly, Black & More advise that it is proposed to:

"... Widen the existing gravel carriageway of Moody Road to 7.5m wide to allow passing of heavy vehicles."

Further:

"It is considered that no changes to the vertical or horizontal alignment of Moody Road are required and none are proposed as part of this development."

Information Request Item 6

Please provide a final Environmental Management Plan (EMP) including the Extractive Operations Safety Management Plan and the Extractive Operations Development Plan.

Response

In consultation with the Applicant, an updated Environmental Management Plan (EMP) (*draft*) has been prepared providing greater clarity regarding management and operational matters including:

- Incorporation of the Stormwater Quality Management Plan;
- Incorporation of a Draft Safety Management Plan;
- Update to the Operations Plan;
- Communications and complaint management;
- Updated risk assessments.

The EMP is provided as "Draft", as further modifications / amendments may be required following receipt of any Approval/s for the project. In addition, further advice is being sought in regards Safety Management on site, and additional amendment during that process may be necessary.

The EMP as modified and finalized prior to commencement of operations on site will be provided to Council for reference, and the Applicant notes Council may impose a condition on any approval granted to ensure compliance in this respect.

The updated draft EMP is provided at **Attachment 4** for reference.

Information Request Item 7

Please provide additional details on erosion and sediment control measures, addressing any run-off generated as a result of the proposed development, including the internal haulage routes.

Additionally, the EMP Section 6, outlines the following:

“A vegetated zone of sufficient width shall be maintained adjacent to all drainage lines (not within the actual operations working area) as a buffer to allow for sedimentation of solids from storm-water runoff”.

Can you please provide additional details on the vegetated zone and illustrate the location on the amended Site Plan.

Response

As noted above, Black & More Engineers have been engaged to prepare a Stormwater Quality Management Plan for the extractive operations proposed. This SQMP is provided at **Attachment 2**.

An updated Site Plan, providing greater clarity regarding the location/s of vegetated buffers across the site, is provided within **Attachment 1**.

This information has been incorporated within the updated Environmental Management Plan provided within **Attachment 4** for reference.

2. State Information Request

Information Request Item 1

Provide a detailed Traffic Impact Assessment Report undertaken by a qualified RPEQ traffic engineer. The Traffic Impact Assessment Report should include:

- *A full analysis and assessment of the Moody Road and Bruce Highway intersection in accordance with the Guidelines for assessment of road impacts of development (GARID).*
- *Proposed haulage equipment, including operational vehicle numbers, size and types,*
- *Bi-directional haulage flows and likely vehicle movements, and*

- *Any potential management strategies that should be adopted to ensure the safe and efficient operation of the Moody Road / Bruce Highway intersection is maintained.*

Note: The Planning Report submitted with the application indicates that a Traffic Impact Assessment Report would be submitted. The department had not received this report at the time of preparing this information request.

Response

Black & More Engineers have been engaged to prepare a Traffic Impact Assessment Report for the project. This Report is provided at **Attachment 3** (digital SIDRA analysis provided as separate **attachment**) for reference.

In summarizing the outcomes of the Assessment, Black & More have noted that the assessment:

“To accommodate the additional vehicles generated by the development the following Bruce Highway upgrades are proposed:

- *Increase the length of the existing channelized right turn traffic turning into Moody Road from the north;*
- *New Auxiliary left turn for traffic turning into Moody Road; and*
- *New Northbound acceleration lane for traffic entering Bruce Highway.”*

Further:

“Safety and environment concerns with road access to the proposed development will be addressed with the upgrades nominated.”

Conclusion

In accordance with Section 278(1)(a) of the *Sustainable Planning Act 2009*, the Applicant hereby:

- a. Provides the above response to Information Requests issued by Council and the State; and
- b. Formally requests that Council and the State proceed with assessment of the Application.

Should additional detail be required, please do not hesitate to contact me via telephone or email.

Kind regards,

A handwritten signature in blue ink, appearing to read 'K. Gilvear', is enclosed in a light green rectangular box.

Kristy Gilvear

Director / Town Planner

Gilvear Planning Pty Ltd

Far North Queensland Office:

e: kristy@gilvearplanning.com.au

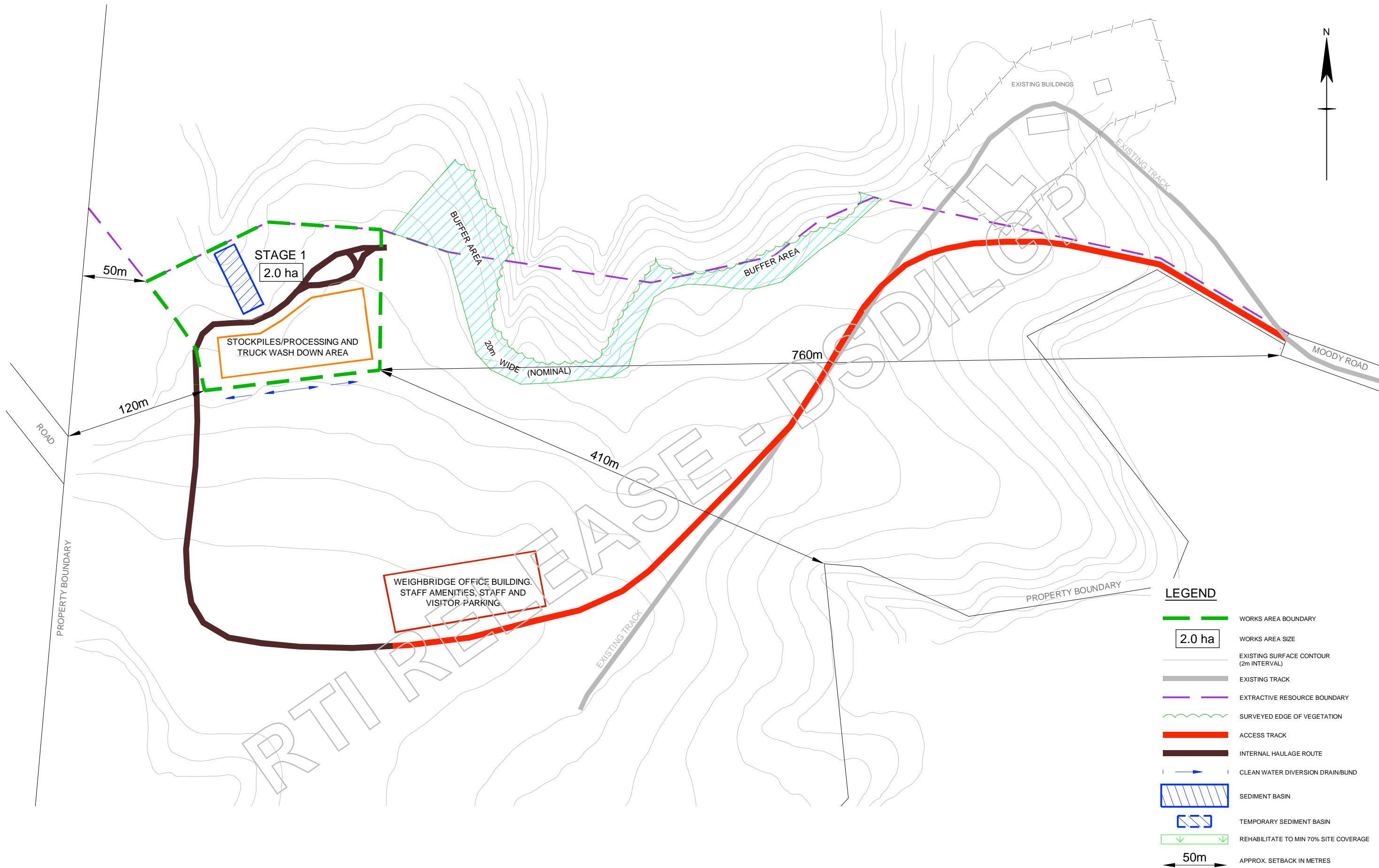
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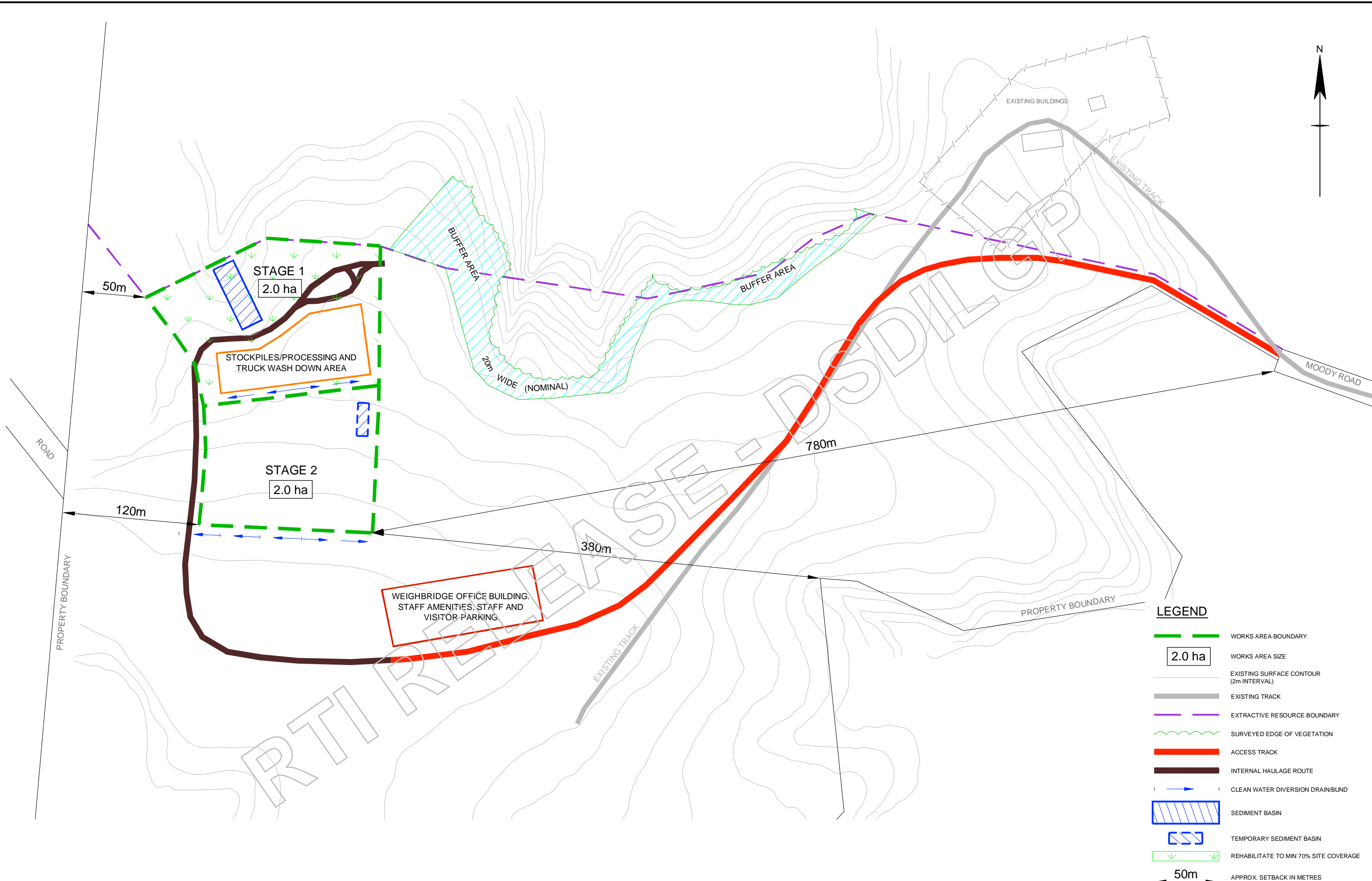
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 Black & More
 ABN 24 845 447 493
 93 Digger St Cairns North QLD 4870
 PO Box 999N Cairns North QLD 4870
 Telephone (07) 4031 9944
 Fax (07) 4031 9914
 Email black.more@blackm.com
 Internet www.blackm.com

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STORMWATER QUALITY MANAGEMENT PLAN
STAGE 1

FIGURE 7147-3
 Date 8 DECEMBER 2014 Project Number 7147
 Drawing Size A1 Scale (A1 size) 1:1500 Revision B

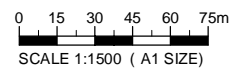
External References: B&M-TITLE-SKETCH-A1_e.dwg; 7147-X-SSQMP.dwg

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LEGEND

	WORKS AREA BOUNDARY
	WORKS AREA SIZE
	EXISTING SURFACE CONTOUR (2m INTERVAL)
	EXISTING TRACK
	EXTRACTIVE RESOURCE BOUNDARY
	SURVEYED EDGE OF VEGETATION
	ACCESS TRACK
	INTERNAL HAULAGE ROUTE
	CLEAN WATER DIVERSION DRAIN/BUND
	SEDIMENT BASIN
	TEMPORARY SEDIMENT BASIN
	REHABILITATE TO MIN 70% SITE COVERAGE
	APPROX. SETBACK IN METRES



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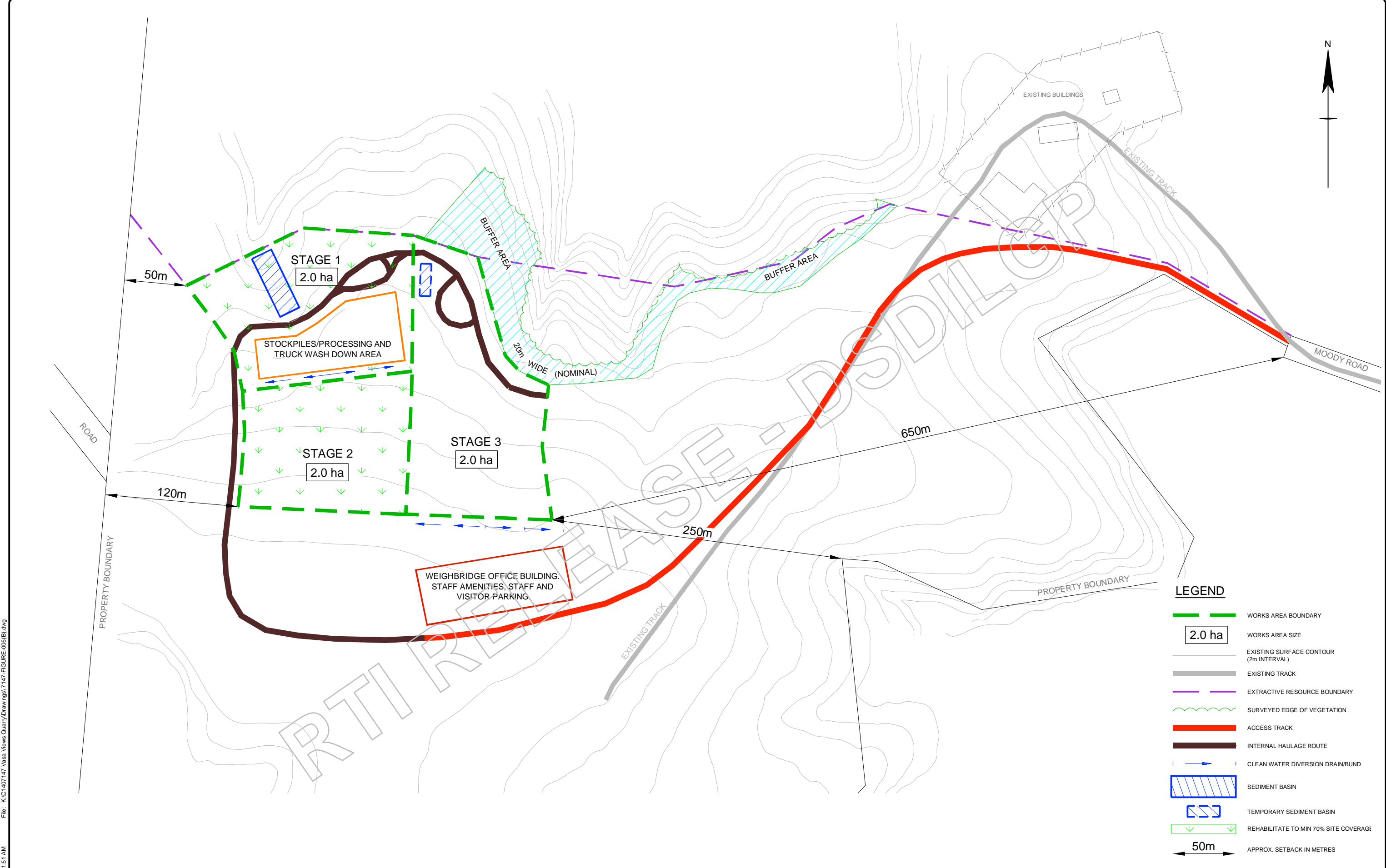
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ABN 24 845 447 493
93 Digger St Cairns North QLD 4870
PO Box 999N Cairns North QLD 4870
Telephone (07) 4031 9944
Fax (07) 4031 8914
Email black.more@blackm.com
Internet www.blackm.com

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STAGE 2

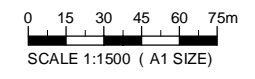
FIGURE 7147-4

Date 8 DECEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) 1:1500
Revision B	

External References: B&M-TITLE-SKETCH-A1_e.dwg; 7147-X-SSQMP.dwg



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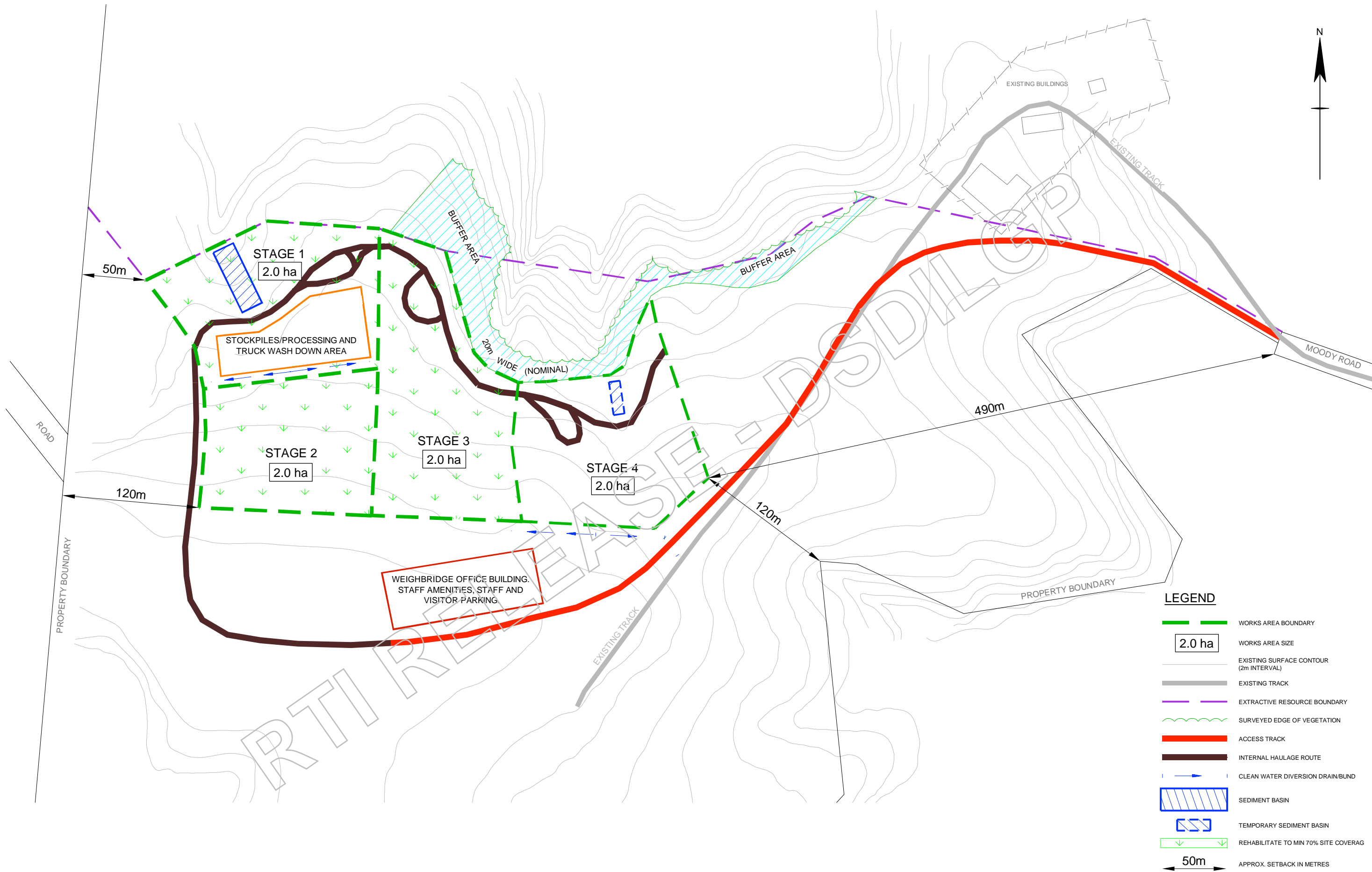
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 ABN 24 845 447 493
 93 Digger St Cairns North QLD 4870
 PO Box 999N Cairns North QLD 4870
 Telephone (07) 4031 9944
 Fax (07) 4031 9914
 Email black.more@blackm.com
 Internet www.blackm.com

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STAGE 3

FIGURE 7147-5	
Date 8 DECEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) 1:1500
Revision B	

External References: B&M-TITLE-SKETCH-A1_e.dwg ; 7147-X-SSQMP.dwg

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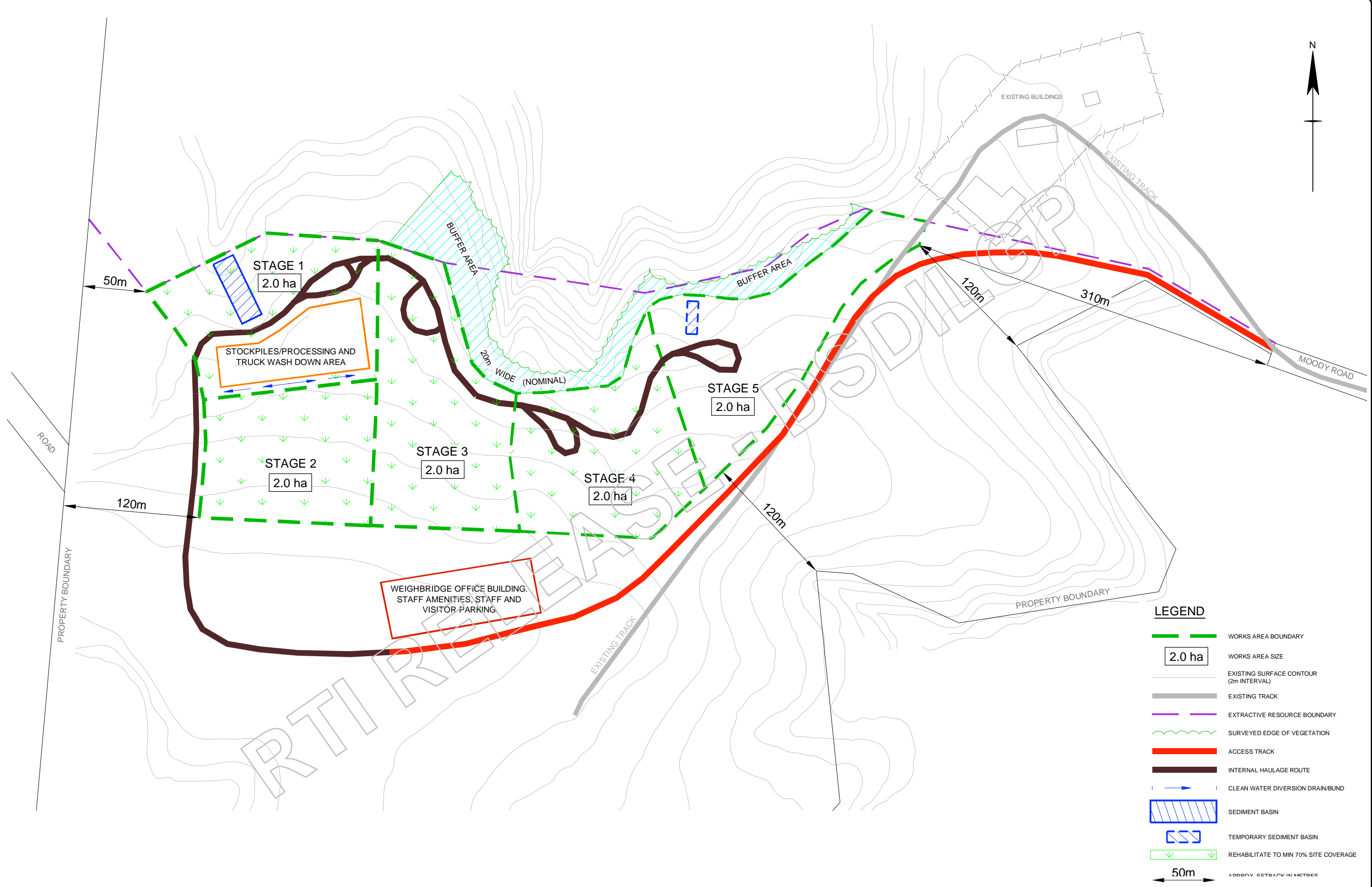
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 ABN 24 845 447 493
 93 Digger St Cairns North QLD 4870
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 Telephone (07) 4031 9944
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 Email black.more@blackm.com
 Internet www.blackm.com

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STAGE 4

FIGURE 7147-6	
Date 8 DECEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) 1:1500
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External References: B&M-TITLE-SKETCH-A1_e.dwg ; 7147-X-SSQMP.dwg

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LEGEND

- WORKS AREA BOUNDARY
- WORKS AREA SIZE
- EXISTING SURFACE CONTOUR (2m INTERVAL)
- EXISTING TRACK
- EXTRACTIVE RESOURCE BOUNDARY
- SURVEYED EDGE OF VEGETATION
- ACCESS TRACK
- INTERNAL HAULAGE ROUTE
- CLEAN WATER DIVERSION DRAIN/BUND
- SEDIMENT BASIN
- TEMPORARY SEDIMENT BASIN
- REHABILITATE TO MIN 70% SITE COVERAGE
- 50m
- 50m

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 93 Digger St Cairns North QLD 4870
 PO Box 999N Cairns North QLD 4870
 Telephone (07) 4031 9944
 Fax (07) 4031 9914
 Email black.more@blackm.com
 Internet www.blackm.com

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STAGE 5

FIGURE 7147-7	
Date 8 DECEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) 1:1500
Revision B	

External References: B&M-TITLE-SKETCH-A1_e.dwg; 7147-X-SSQMP.dwg

ATTACHMENT 2: Stormwater Quality Management Plan

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Vasa Views Extractive Industry

Stormwater Quality Management Plan

Prepared For:

Daraleigh Pty Ltd

Moody Road

Vasa Views Qld 4860



December 2014

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	Title: Vasa Views Extractive Industry – Stormwater Quality Management Plan
	Project Manager: Sch. 4(4)(6) - Disclosing personal information
	Author: Sch. 4(4)(6) - Disclosing personal information
	Client: Daraleigh Pty Ltd Client Contact: Sch. 4(4)(6) - Disclosing personal information Client Reference: 7147
Synopsis: Stormwater Quality Management Plan	



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Any recommendations contained in this report are based largely on our understanding of the information that has been supplied to us, and should be balanced against additional information that you may hold or seek. The client is cautioned to exercise due commercial diligence in the interpretation of any material herein, and accept our findings as suggestions given in good faith requiring interpretation within the context of the client's own enterprise environment.

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			Name	Signature	Date
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1.0 Introduction

This Stormwater Quality Management Plan has been prepared by Black & More for Daraleigh Pty Ltd for the proposed Extractive Industry (operations) situated on Lot 5 SP23566 and located Todd Road, Vasa Views.

We make reference to the Cassowary Coast Regional Council information request dated 14 August 2014. This Report aims to address Condition 4 being advice on State Planning Policy: Water Quality.

Given the sites low slopes (0 to 5%) and remoteness to water courses, it is considered there is low potential for environmental harm to be caused by contaminated stormwater ingress from exposed soils during operations. However, considering the rainfall erosivity of North Queensland rainfall, detrimental impacts to receiving waters is possible and therefore procedures consistent with *State Planning Policy 4/10 Guideline to Healthy Waters* must be implemented to prevent this from occurring.

The objectives for this management plan is outlined below:

- Provide a set of Best Practice Site Management Procedures to minimise the extent of soil erosion and transport during earthworks operations;
- Comply with *State Planning Policy 4/10 Guideline to Healthy Waters*;
- Provide techniques to control sediment so that it does not cause detrimental impacts to water quality; and
- Ensure staff are adequately trained in the installation and maintenance of Erosion and Sediment Controls.

1.1 Performance Criteria

Water discharged from the site is to comply with *Environmental Protection (Water) Policy 2009* to ensure that no detrimental impacts on water quality and the environment occur during the construction phase.

The quality of discharge from the site is to satisfy the following Water Quality Objectives (WQOs);

- An increase in suspended solids within surface waters upstream of site to downstream of site – of less than 10%.
- Water pH released from a controlled sediment basin outflow must be within the range 6.5 to 8.5.
- Suspended Solids released from controlled sediment basin outflows must be no greater than 50mg/L.
- Oils and Grease – no visible films or odour.
- Litter – no visible litter washed or blown from the site.

1.2 Responsibility

Daraleigh Pty Ltd will be responsible for the implementation of the Water Quality Monitoring Program (WQMP) during the course of all operations.

Daraleigh Pty will be responsible for the implementation of the Stormwater Management Plan (SMP) during the course of all operations.

2.0 Soils

The subsoil in the site area is mapped on the Australian Soil Resource Information Systems (ASRIS) google earth database as follows;

Australian Soil Classification:
Ferralsols



Subsoil Texture:
Light clay or light medium clay (35-45%)



CSIRO note the typical properties of Ferralsols to be as follows:

- Igneous
- High in iron and clay content
- May be very deep and well drained in high rainfall areas

The ARIS classification is consistent with observations made during the drilling of bore holes on the site.

The site elevation ranges between RL. 95m to 115m, therefore no acid sulphate soils are envisaged. The site is classified on the National Acid Sulphate Soils database as "low probability"

3.0 Erosion Risk

A quantitative risk assessment has been undertaken for the site. The risk has been assessed as 1083t/ha/yr averaged for the year using the universal soil loss equation RULSE. We note that the International Erosion and Sediment Control (IECA) Best Practice Erosion and Sediment Control Manual classifies this rate of erosion as "high"

Calculation of the likely soil loss rate is provided in **Appendix 2** of this Report.

Where reasonable and practical, operations will be minimised during the wet season (Nov – April). Regardless, Type 1 controls (i.e. sediment basin) will be required throughout the year.

The erosion and sediment controls detailed in the following Sections of this Report seek to achieve the WQO's outlined in Section 1 of this Report.

4.0 Erosion and Sediment Control Plan

The proposed Staged Erosion and Sediment Control Plan (ESCP) is shown on Figures 714-3 to 7147-7 provided in **Appendix 1**. Erosion and Sediment Controls are explained in this section of the report and shown diagrammatically in **Appendix 1**.

Extraction (exposing of earth) will be undertaken in stages not larger than 2 hectares at any time. When the extractive material is depleted, the works area will be rehabilitated and a new 2 hectare stage of work exposed.

4.1 Site Office, Stockpile & Screening Area, Truck Wash Down Area

Entry and Exit from the site should be restricted to one access point.

An allocated truck wash down area (raised rock rubble pit / geofabric filter drainage mat) is to be constructed to contain fines and concrete particles from entering stormwater. The wash down area shall drain to the sediment basin.

The site office and lay down area should be a suitably gravel constructed all weather hardstand area.

All office roofs should have allocated downpipes and rock outlet to avoid erosion.

The stockpile locations should be placed down gradient of this area.

All domestic waste skips onsite are required to be covered to avoid the ingress of stormwater.

4.2 Diversion Drain

A "clean water" diversion drain or bund is to be constructed on upstream edge of any operations, The intent of the drain or bund is to prevent clean storm water entering the site and becoming dirty water.

The diversion drain or bund should be lined with topsoil and grassed.

The diversion drain or bund should be sized be a suitably qualified RPEQ to capture and convey the 10 year average return interval (ARI) rainfall event.

4.3 Sediment Basin

Temporary sediment basins will be installed at the lowest point of each 2 hectare stage of works.

A larger sediment basin will be installed at the lowest point of the site (Stage 1) to capture sediment from the truck wash down, stockpiling and screening area. This basin also has the opportunity to act as secondary sediment trap if capacity of the temporary sediment basin is exceeded.

We have assessed (refer **Appendix 2**) that for a 2 hectare exposed area, the sediment storage zone of the sediment basin would need to be at least 278m³ with the upper settling zone being 791m³. Therefore, the total size of the sediment basin would need to be at least 1069m³.

The use of flocculants such as gypsum and polyacrylamide (mixed by high pressure spray and dosing/mixing tanks circulation) could also be implemented if water quality objectives are not being achieved. The choice of polyacrylamide should be based on the most environmentally safe, anionic product available. Cationic polyacrylamide should not be used. Ensure the use of any flocculants is in accordance with manufacturer's specifications and recommendations. The water quality in the sediment basin is to be visually tested prior to discharge. The level in the detention basin must be able to be measured to assess sediment and water volume and pumped within 5 days after rainfall to ensure a settling volume of 1069m³ can be maintained.

The temporary sediment basin in each 2 hectare stage of works cannot be removed until more than 70% site cover has been achieved.

A Certificate of Sediment Basin Construction is to be signed and approved by an RPEQ. An example certification is provided in **Appendix 3** of this Report.

5.0 Implementation Strategy

Construction of all controls as per Section 2 and the ESCP should be implemented before soil is disturbed. All long term stockpiles must have appropriate controls (Section 2.0) installed to ensure they do not erode and cause sediment releases.

Ongoing monitoring and maintenance as outlined in Section 6 of this Report should occur to ensure controls continue to operate effectively.

Following the completion of operations, revegetation is to occur as soon as possible. This may be completed progressively as works are completed.

Watering to ensure revegetation achieves at least 70% coverage of soil surface must be completed before temporary controls such as sediment fences are removed.

Best Practice for land clearing, topsoil management, earthworks and rehabilitation is to be maintained at all times. Listed below are some best management practices as detailed in International Erosion and Sediment Control (IECA) Best Practice Erosion and Sediment Control Manual.

Land Clearing

Vegetation clearing must be conducted in a manner that minimises damage to any retained vegetation including protected trees and buffer zones. Best practice includes;

- *Land clearing should not occur unless necessary drainage and sediment control measures are installed. The exception would be any land clearing necessary to allow installation of these control measures.*
- *Land clearing is to be staged to minimise the extent and duration of soil exposure.*
- *Land clearing is avoided during periods of rainfall or when stormwater runoff is occurring or expected to occur.*
- *Where reasonable and practical, the grubbing and the removal of ground cover should not occur until immediately prior to the operations occurring within the stage of works.*
- *Land clearing should not extend beyond that necessary to provide up to 2 hectares of site activity.*
- *Dispose of cleared vegetation through mulching (for future rehabilitation) or by burial or suitable offsite disposal. Cleared vegetation should not be burnt or dumped near a watercourse.*

Topsoil Management (Stripping & Stockpiling)

- *Ensuring that wherever reasonable and practical, topsoil is stripped and stockpiled immediately before operations occur within any 2 hectare stage of works.*
- *Ensuring top soil is preserved for reuse on the site where possible.*
- *Ensuring topsoil is stripped in a moist condition.*
- *Ensuring that wherever practical, topsoils are not mixed with subsoils during stripping and stockpiling procedures.*
- *Ensuring the maximum stockpile height of topsoil is 2m.*
- *Ensuring all earth stockpiles remain in a free draining condition to avoid long term soil saturation*

Earthworks (Extractive Industry Operations)

- *Ensuring operations are avoided during periods of rainfall when stormwater runoff is occurring or expected to occur*
- *Ensuring earth stockpiles are located away from areas subjected to concentrated overland flow*
- *Ensuring excavated material is not placed adjacent to protected vegetation, stream banks, or within locations where it may become an unacceptable source of sediment runoff.*
- *Ensuring a Flow Diversion Bund or Catch Drain is placed up-slope*
- *Ensuring stormwater runoff originating from stockpiles is directed to, and/or controlled by, a suitable sediment trap.*
- *Maintain moist soil conditions during excavation to suppress dust.*

- Ensuring constructed earth slopes are formed to a stable slope consistent with the soil properties and potential for erosion. The long term stability of finished earth slopes is to be verified by a suitably qualified geotechnical engineer.

Topsoil Management (Respreading)

- Ensuring all topsoils (local and imported) are tested and where necessary ameliorated before placement. As a guide topsoil should be;
 - A friable, sandy loam with good texture and structure;
 - Free from large clods, lumps of subsoil, weed seed or any other foreign matter;
 - Free of stones larger than 25mm; and
 - Within a suitable pH range.
- Before respreading the topsoil, scarify the subsoil to breakup any compacted or surface sealing to enable the appropriate keying of the two soils.
- On slopes less than about 3:1 (H:V) scarify lightly compacted subsoil with a tined implement to a depth of 50 to 100mm, and heavily compacted subsoils to a minimum depth of 300mm, ensuring all ripping and cultivation operations occur along the contour.
- On banks steeper than about 3:1 (H:V), chain or harrow to break any surface seal and fill any minor rills; alternatively, the surface can be track walked to promote the formation of cleat marks parallel to the contour.
- Ensuring that when it is desirable to re-establish the entrapped seed content of the soil, the topsoil is re-spread in the reverse sequence to its removal so that the original upper 50mm soil layer is returned to the surface.
- Ensuring soil is removed from stockpiles in a manner that avoids vehicles travelling over the stockpile.
- Ensuring topsoil is spread to lightly compacted (i.e. firm) depth of about 40 to 60mm on lands where the slope exceeds 4:1 H:V, and 75 to 100mm on lesser slopes. Special techniques, including stair stepping of subsoil surfaces, will generally be required when spreading topsoil on slopes steeper than 2:1.
- Ensuring all exposed subsoils are covered as soon as practicable, especially if dispersive.
- Ensuring that when working adjacent to a watercourse, topsoil is not spread at a significantly different elevation (relative to the watercourse) to where it is originated.
- Ensuring that after spreading topsoil, the surface is left in an appropriate scarified (roughened) condition to assist moisture infiltration and inhibit soil erosion.
- Ensuring that prior to planting, any compacted or crusted topsoil surfaces are cultivated to a depth of 100mm, but not greater than the depth of topsoil.
- Ensuring soil stockpile areas are rehabilitated as soon as reasonable and practicable after the material has been removed.

Rehabilitation

- Monitor site revegetation particularly after rainfall and/or amendment to ensure that the revegetation is controlling erosion and stabilising soil slopes as required.
- Water vegetation periodical, especially in the first 7 days after establishment. Use low pressure sprays.
- Apply additional seed, mulch and/or soil conditioning as required.
- Control excessive vegetation through mowing, slashing or the controlled use of herbicides
- Control weeds especially within a 1m radius around immature trees.
- Check and maintain protective fencing.
- Replace dead vegetation.
- Re-firm vegetation loosen by wind, erosion and wildlife.

6.0 Ongoing Requirements

6.1 Site Inspection and Monitoring

Erosion and sediment controls should be inspected by the site manager (or nominated representative):

- At least daily when rain is occurring;
- At least weekly (even if work is not occurring on site);
- Within 24 hours prior to expected rainfall; and
- Within 18 hours of a rainfall event of sufficient intensity and duration to cause on site runoff.

Any issues affecting erosion and sediment control effectiveness will be repaired and amended as appropriate to maintain the WQOs.

Weekly site inspections (or following runoff-producing rainfall) must include:

- All drainage, erosion and sediment control measures;
- Occurrences of excessive sediment deposition (whether on-site or off-site);
- All site discharge points (sediment basin water quality testing);
- Treatment and de-watering requirements of sediment basins;
- Sediment deposition within sediment basins and the need for its removal;
- Occurrences of excessive erosion, sedimentation, or mud generation around the site office, car park and material storage areas.
- Occurrences of construction materials, litter or sediment placed, deposited, washed or blown from the site, including deposition by vehicular movements;
- Litter and waste receptors;
- Bunded oil, fuel and chemical storage facilities;
- Health of recently established vegetation;
- Proposed staging of future site clearing, earthworks and site/soil stabilisation.

Site inspections immediately prior to anticipated runoff-producing rainfall must include:

- All drainage, erosion and sediment control measures;
- All temporary (e.g. over-night) flow diversion and drainage works.

Note that additional water quality monitoring maybe required if the WQOs are not being met.

An example of a weekly site inspection checklist is provided in **Appendix 3** to this report.

6.2 Non-compliance

Possible items of Non-compliance with the WQO's may include:

- Build-up of sediment off the site;
- Excessive sediment build-up on the site;
- Poor vegetation establishment;
- Poorly maintained, damaged or failed ESC devices;
- Deteriorated water quality identified as being attributable to the extractive industry operations.

6.3 Corrective Actions

After any identification of incident or failure, the source/cause is to be immediately located and the following measures implemented:

- Build-up of sediment off the site – the material must be collected and disposed of in a manner that will not cause ongoing environmental nuisance or harm; then on-site ESC measures amended, where appropriate, to reduce the risk of further sedimentation.
- Excessive sediment build-up on the site – collect and dispose of material, then amend up-slope drainage and/or erosion control measures as appropriate to reduce further occurrence.
- Severe or excessive rill erosion – investigate cause, control up-slope water movement, re-profile surface, cover dispersive soils with a minimum 100mm layer of non-dispersive soil, and stabilise with erosion control blankets and vegetation as necessary.
- Off-stream erosion – fill rills, vegetate and install velocity control measures.
- Release of construction material from the site – collected and disposed of in a manner that will not cause ongoing environmental nuisance or harm; then inspect litter and waste receptors.
- Poor vegetation growth or soil coverage – plant new vegetation and/or mulch as required. Newly planted and previously planted areas may require supplementary watering and replanting.
- Sediment control failure – replace and monitor more frequently. Regular failures may mean that the sediment control, location, alignment or installation may need to be amended.

If the release of excessive sediment and/or other materials off the site occurs, or water quality monitoring indicates levels are not within the WQOs, clean up deposition, and inspect all control measures.

If the release of excessive sediment and/or other materials off the site is identified during two consecutive site inspections, or water quality monitoring indicates levels not within the WQOs on two consecutive tests, then review and revise the ESCP, or otherwise reduce the extent and/or duration of soil exposure.

If monitored levels within any sediment basin does not conform to the release criteria for:

- Suspended solids – flocculate and retest;
- pH – add acid if pH is too high, or add hydrated lime if pH is too low, and retest.

6.4 Incident Reporting

All weekly monitoring, non-compliance and corrective actions reporting should be stored with this stormwater quality management plan and be available for auditing.

An example of a non-conformance report is provided as an **Appendix 3** to this Report

7.0 Conclusion

It is considered that this stormwater quality management plan will adequately manage water quality and risk of adverse impacts associated with the proposed works on the site. In the instance of management practices and procedures being identified as ineffective, improvements are to be undertaken to remedy the inefficiency. These improvements are then to be inserted into this document to reflect the new procedures.

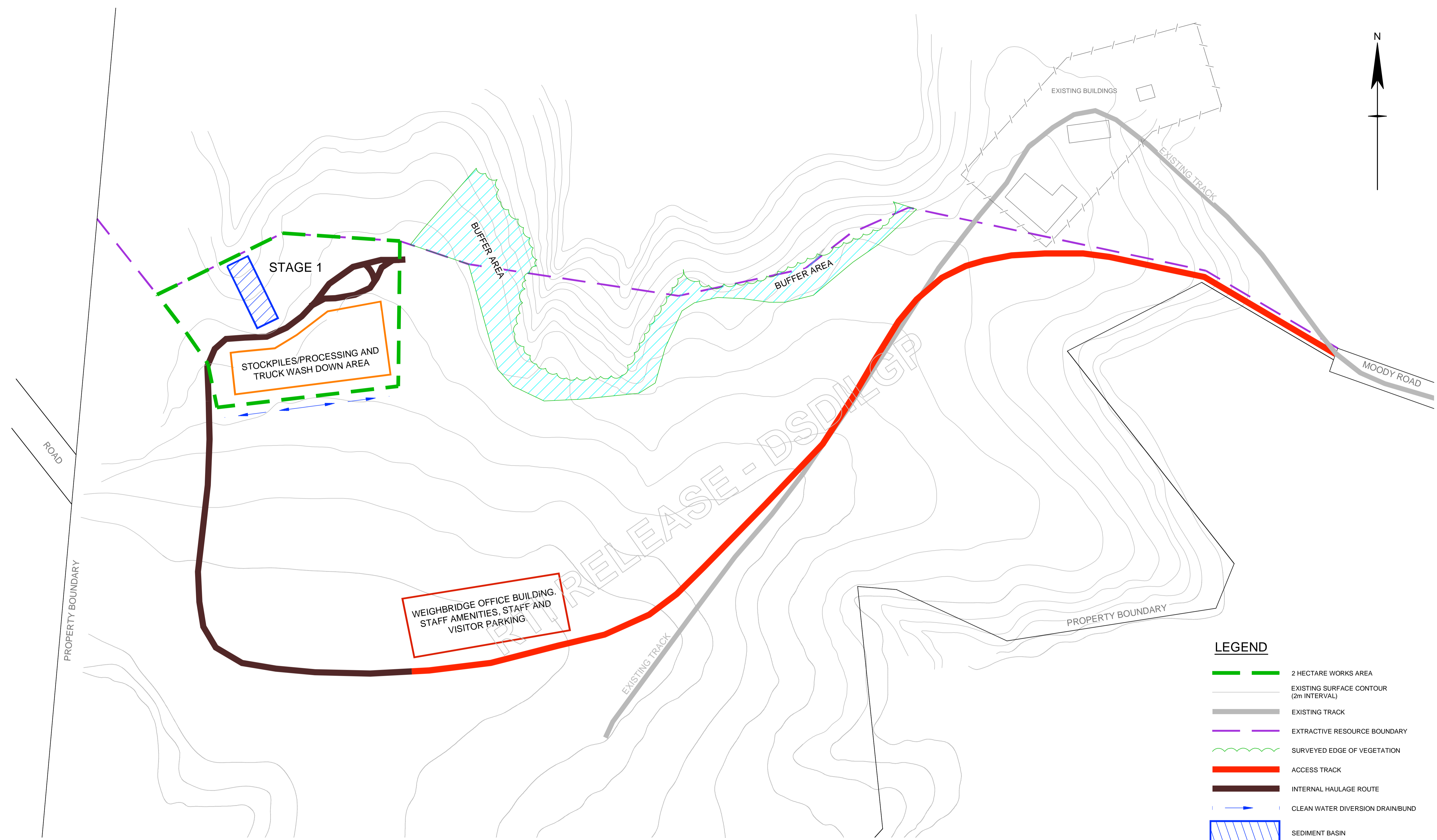
RTI RELEASE - DSDILGP

RTI RELEASE - DSDILGP

Appendix 1

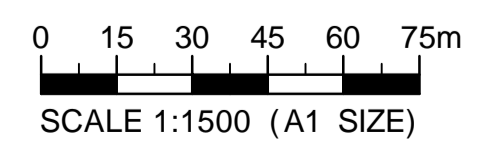
Figure 714-3 to 7147-7 Staged Erosion and Sediment Control Plan
Erosion and Sediment Controls

Printed: 08 December 2014, 4:20 PM File: K:\C1\407147 Vasa Views Quarry\Drawings\7147-FIGURE-003(A).dwg



LEGEND

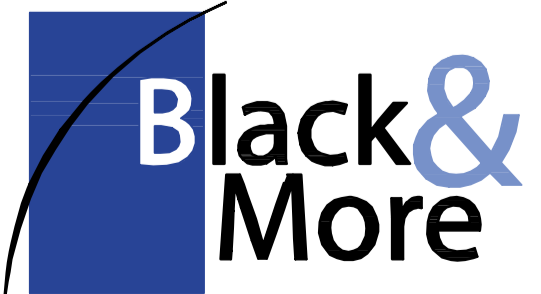
	2 HECTARE WORKS AREA
	EXISTING SURFACE CONTOUR (2m INTERVAL)
	EXISTING TRACK
	EXTRACTIVE RESOURCE BOUNDARY
	SURVEYED EDGE OF VEGETATION
	ACCESS TRACK
	INTERNAL HAULAGE ROUTE
	CLEAN WATER DIVERSION DRAIN/BUND
	SEDIMENT BASIN
	TEMPORARY SEDIMENT BASIN



NOTES

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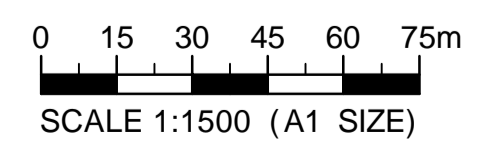
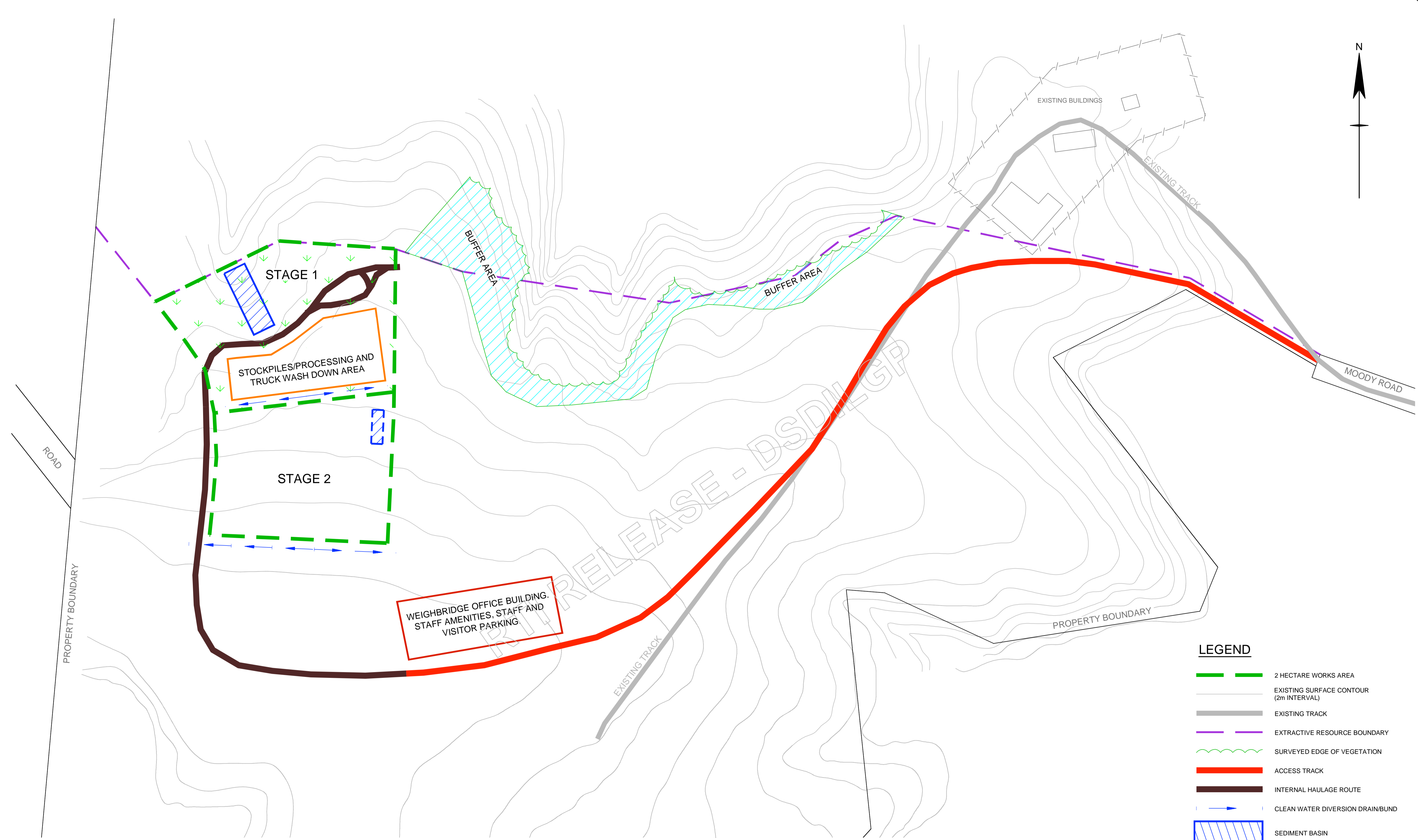


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 PO Box 999N Cairns North QLD 4870
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VASA VIEWS EXTRACTIVE INDUSTRY
STORMWATER QUALITY MANAGEMENT PLAN
STAGE 1

FIGURE 7147-3	
Date 8 DECEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) 1:1500
Revision A	

Printed: 08 December 2014, 4:21 PM File: K:\C1407147 Vasa Views Quarry\Drawings\7147-FIGURE-004(A).dwg



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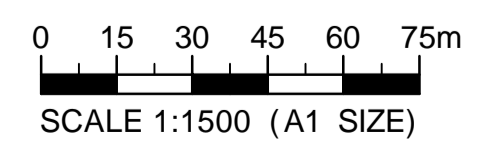
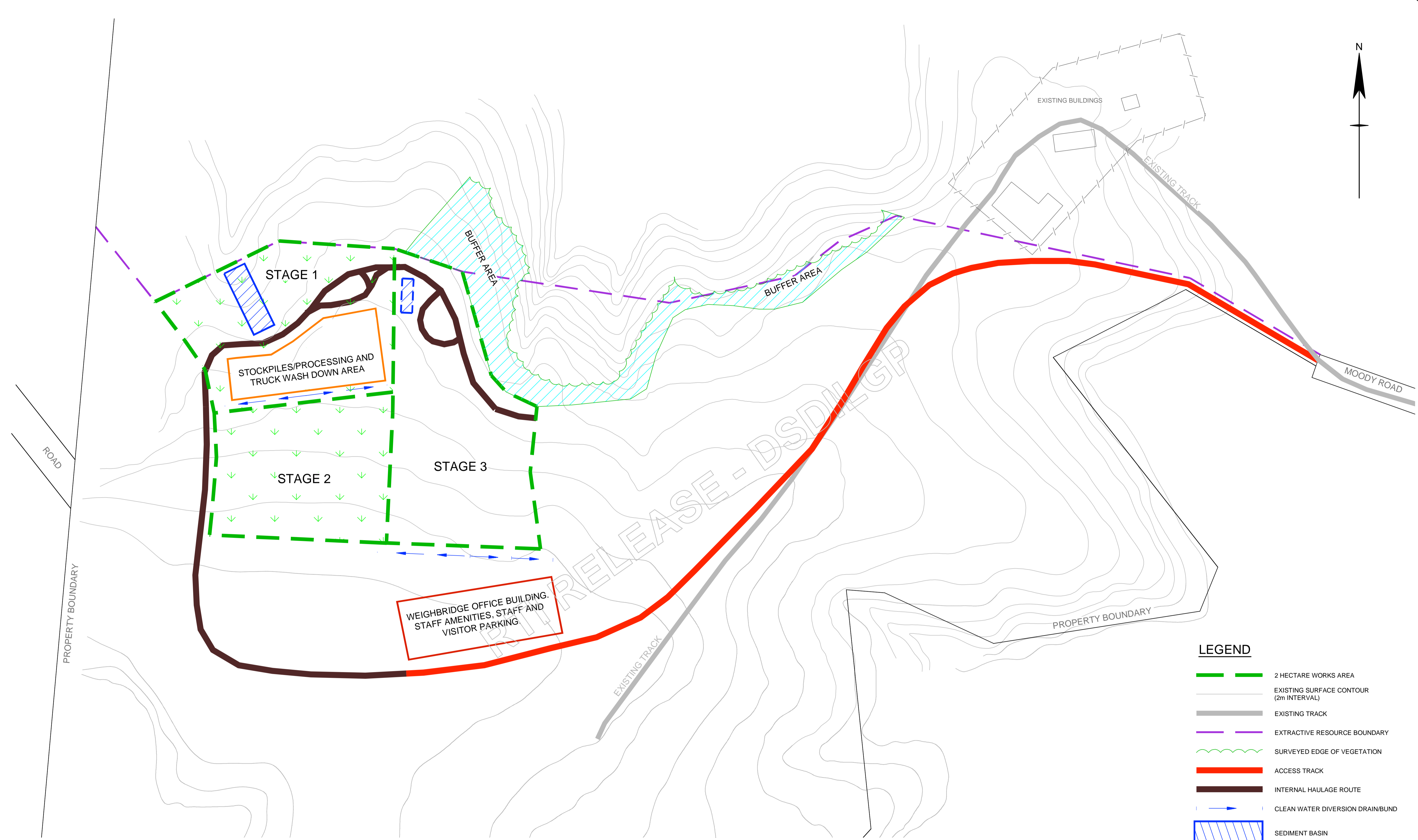
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 PO Box 999N Cairns North QLD 4870
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 Fax (07) 4031 9914
 Email black.more@blackm.com
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STAGE 2

FIGURE 7147-4	
Date 8 DECEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) 1:1500
Revision A	

External References: B&M-TITLE-SKETCH-A1_e.dwg ; 7147-X-SSQMP.dwg

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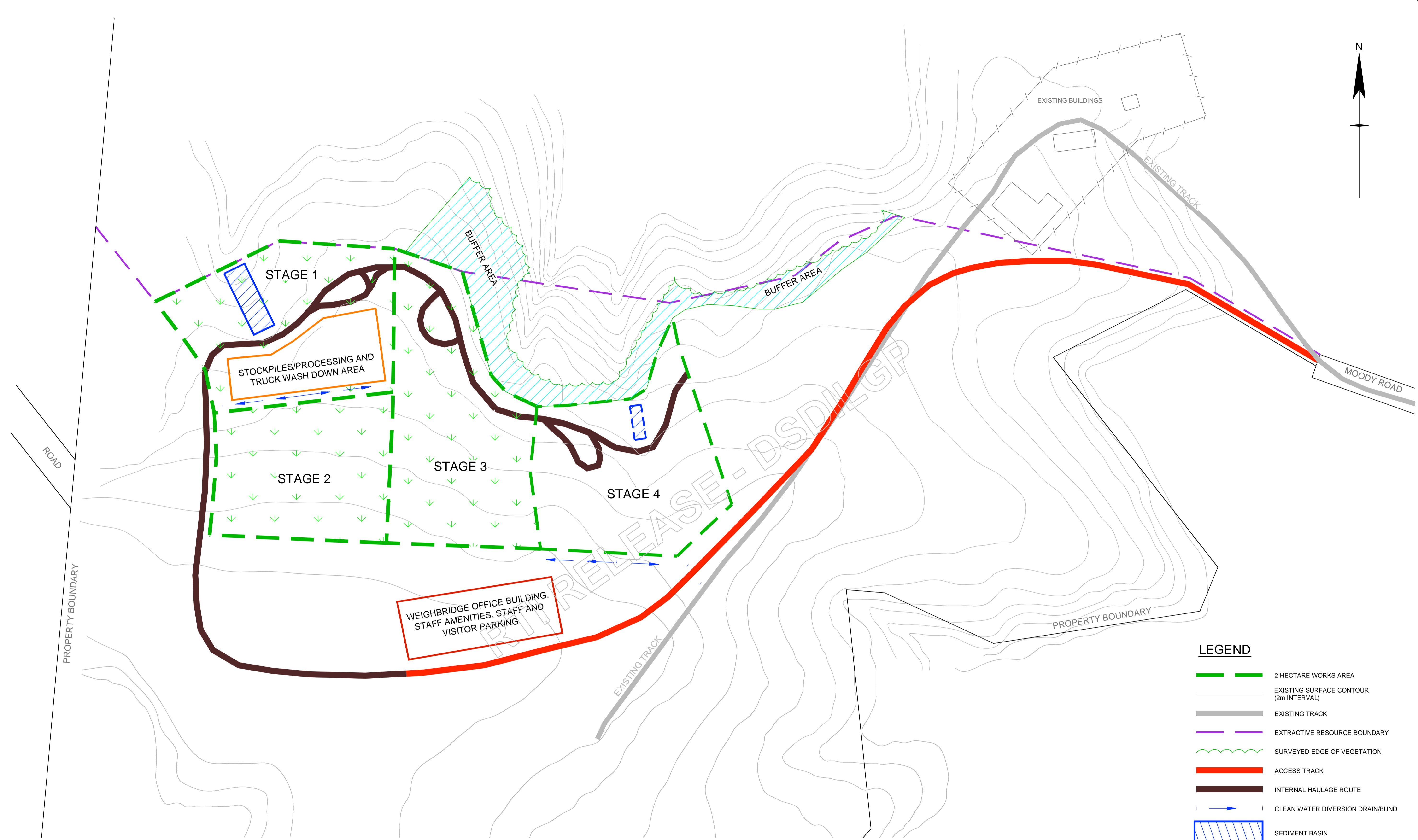
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STORMWATER QUALITY MANAGEMENT PLAN
STAGE 3

FIGURE 7147-5	
Date 8 DECEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) 1:1500
Revision A	

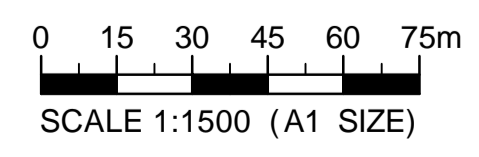
External References: B&M-TITLE-SKETCH-A1_e.dwg ; 7147-X-SSQMP.dwg

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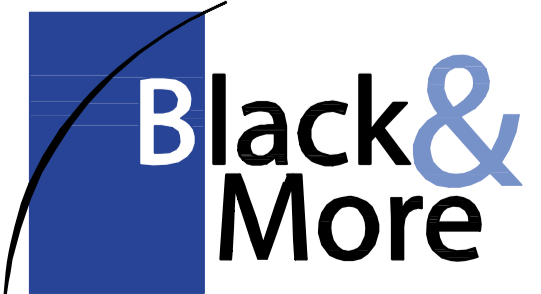
LEGEND

	2 HECTARE WORKS AREA
	EXISTING SURFACE CONTOUR (2m INTERVAL)
	EXISTING TRACK
	EXTRACTIVE RESOURCE BOUNDARY
	SURVEYED EDGE OF VEGETATION
	ACCESS TRACK
	INTERNAL HAULAGE ROUTE
	CLEAN WATER DIVERSION DRAIN/BUND
	SEDIMENT BASIN
	TEMPORARY SEDIMENT BASIN
	REHABILITATE TO MIN 70% SITE COVERAGE



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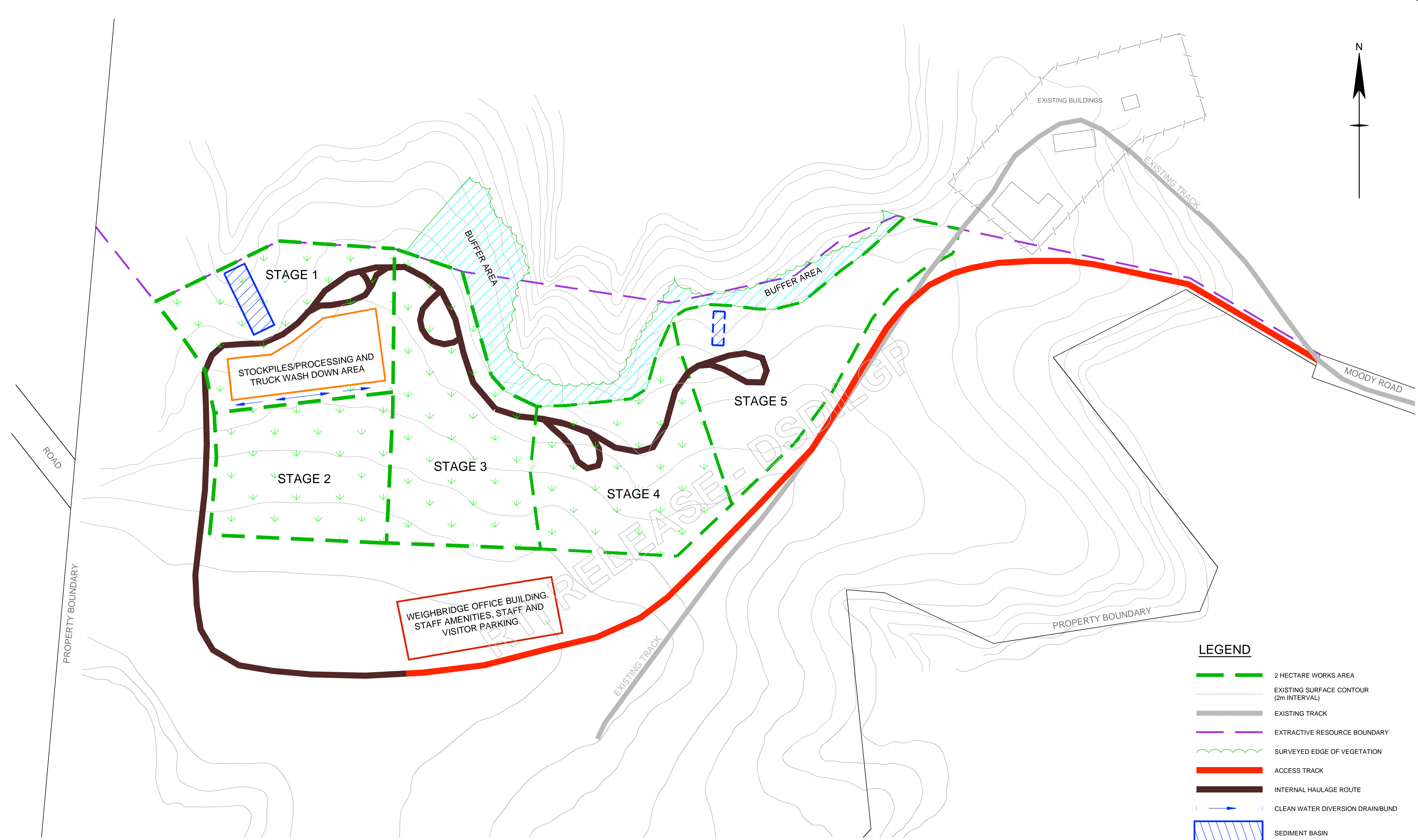
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STAGE 4

FIGURE 7147-6	
Date 8 DECEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) 1:1500
Revision A	

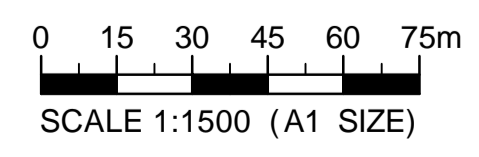
External References: B&M-TITLE-SKETCH-A1_e.dwg ; 7147-X-SSQMP.dwg

Printed: 08 December 2014, 4:22 PM File: K:\C1407147 Vasa Views Quarry\Drawings\7147-FIGURE-007(A).dwg



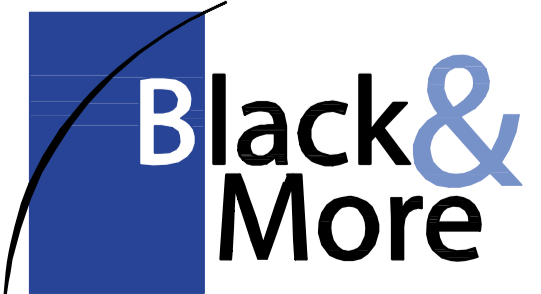
LEGEND

	2 HECTARE WORKS AREA
	EXISTING SURFACE CONTOUR (2m INTERVAL)
	EXISTING TRACK
	EXTRACTIVE RESOURCE BOUNDARY
	SURVEYED EDGE OF VEGETATION
	ACCESS TRACK
	INTERNAL HAULAGE ROUTE
	CLEAN WATER DIVERSION DRAIN/BUND
	SEDIMENT BASIN
	TEMPORARY SEDIMENT BASIN
	REHABILITATE TO MIN 70% SITE COVERAGE



NOTES
 1. FOR DETAILS REFER TO STORMWATER QUALITY MANAGEMENT PLAN REPORT.

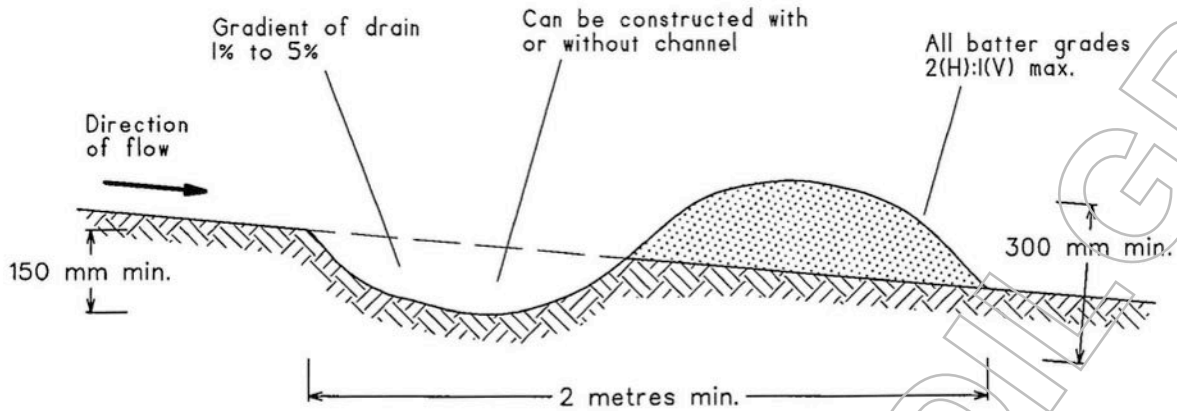
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STAGE 5

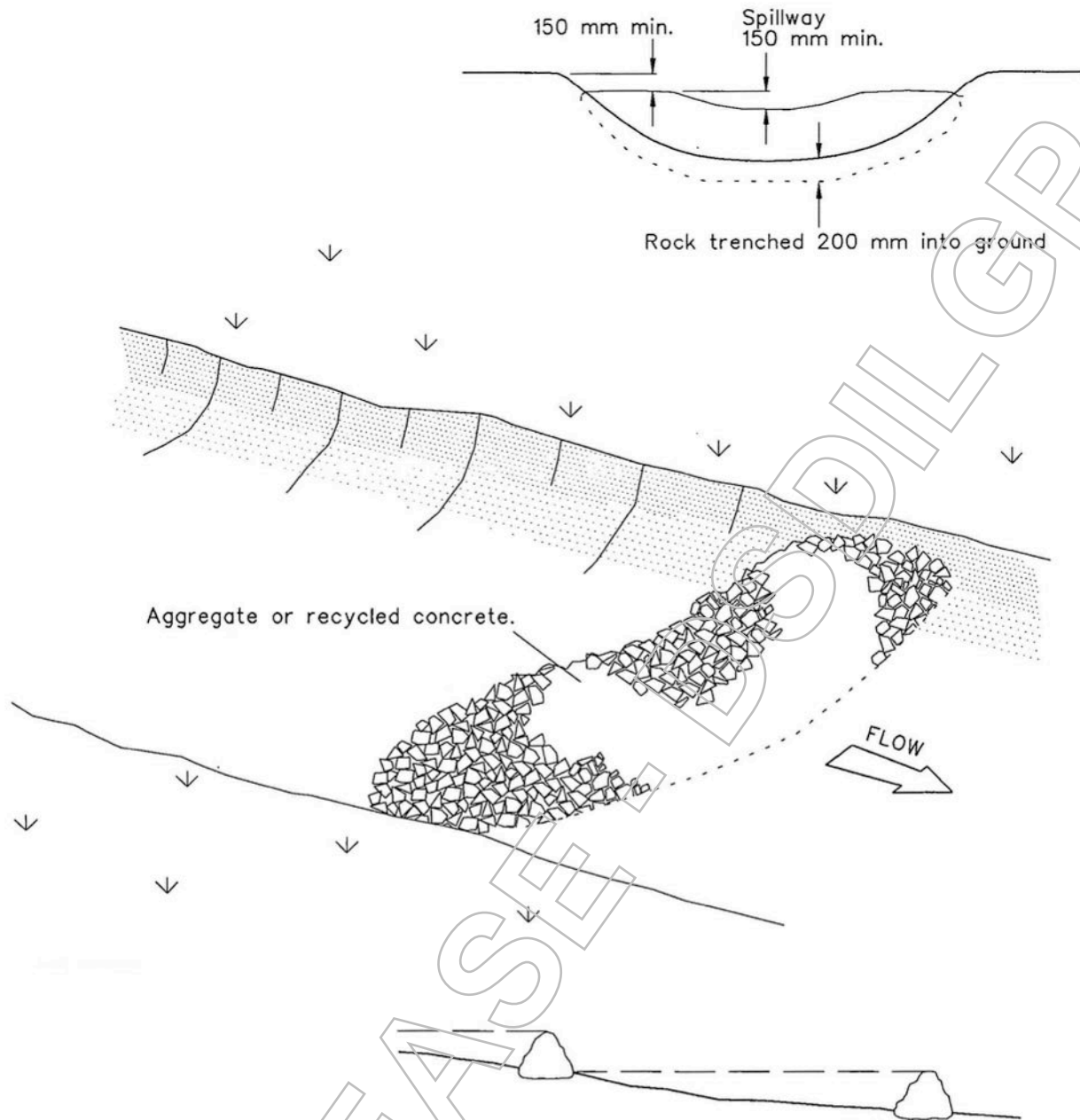
FIGURE 7147-7	
Date 8 DECEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) 1:1500
Revision A	



NOTE: Only to be used as temporary bank where maximum upslope length is 80 metres.

Construction Notes

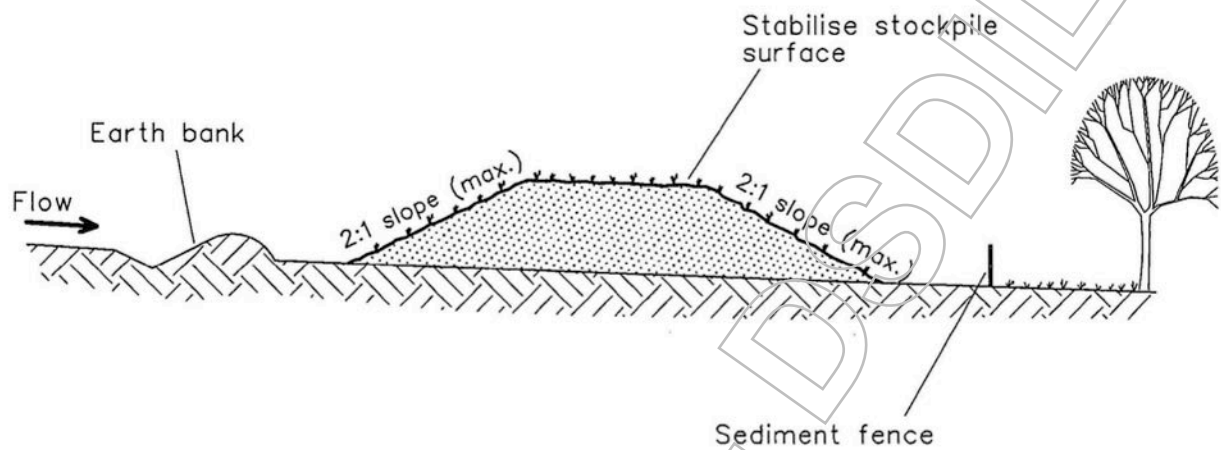
1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction.



Spacing of check dams along centreline and scour protection below each check dam to be specified on SWMP/ESCP

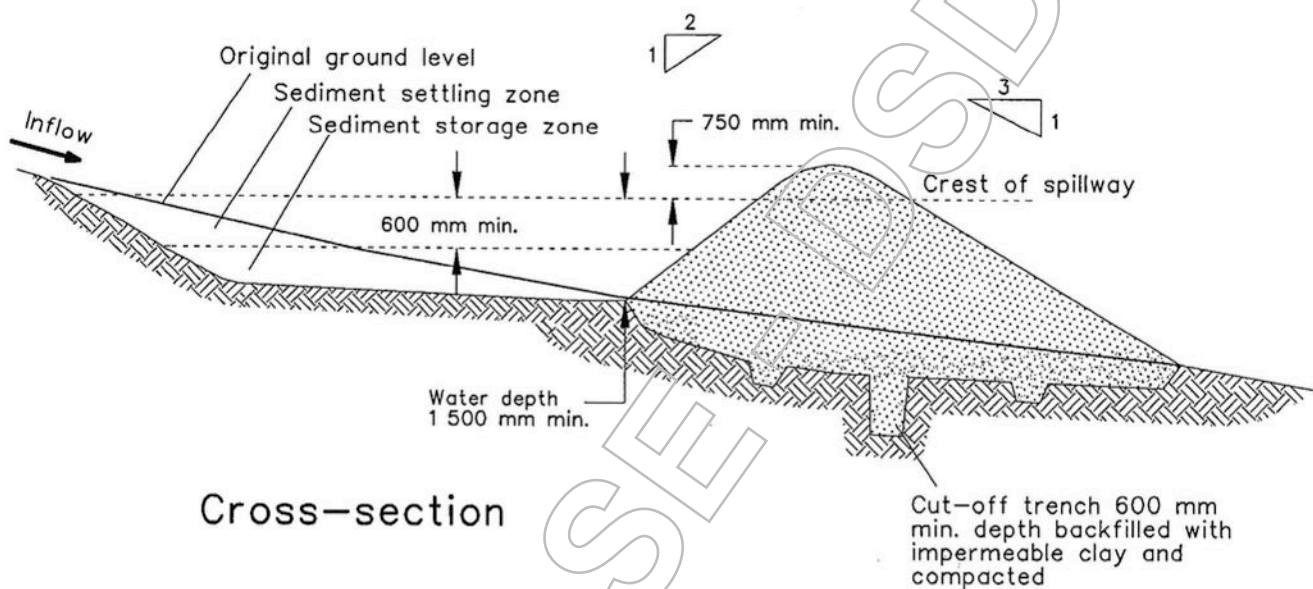
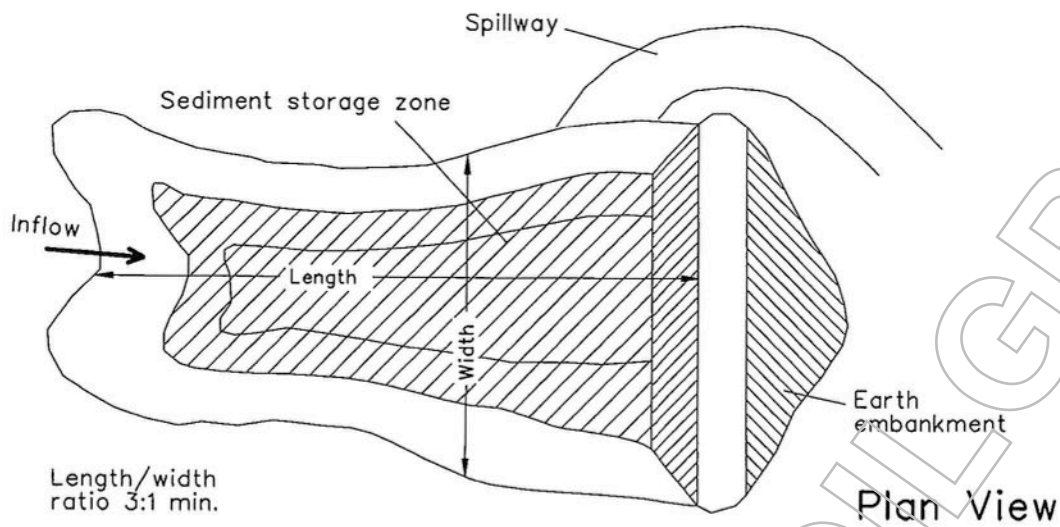
Construction Notes

1. Check dams can be built with various materials, including rocks, logs, sandbags and straw bales. The maintenance program should ensure their integrity is retained, especially where constructed with straw bales. In the case of bales, this might require their replacement each two to four months.
2. Trench the check dam 200 mm into the ground across its whole width. Where rock is used, fill the trenches to at least 100 mm above the ground surface to reduce the risk of undercutting.
3. Normally, their maximum height should not exceed 600 mm above the gully floor. The centre should act as a spillway, being at least 150 mm lower than the outer edges.
4. Space the dams so the toe of the upstream dam is level with the spillway of the next downstream dam.



Construction Notes

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
5. Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.



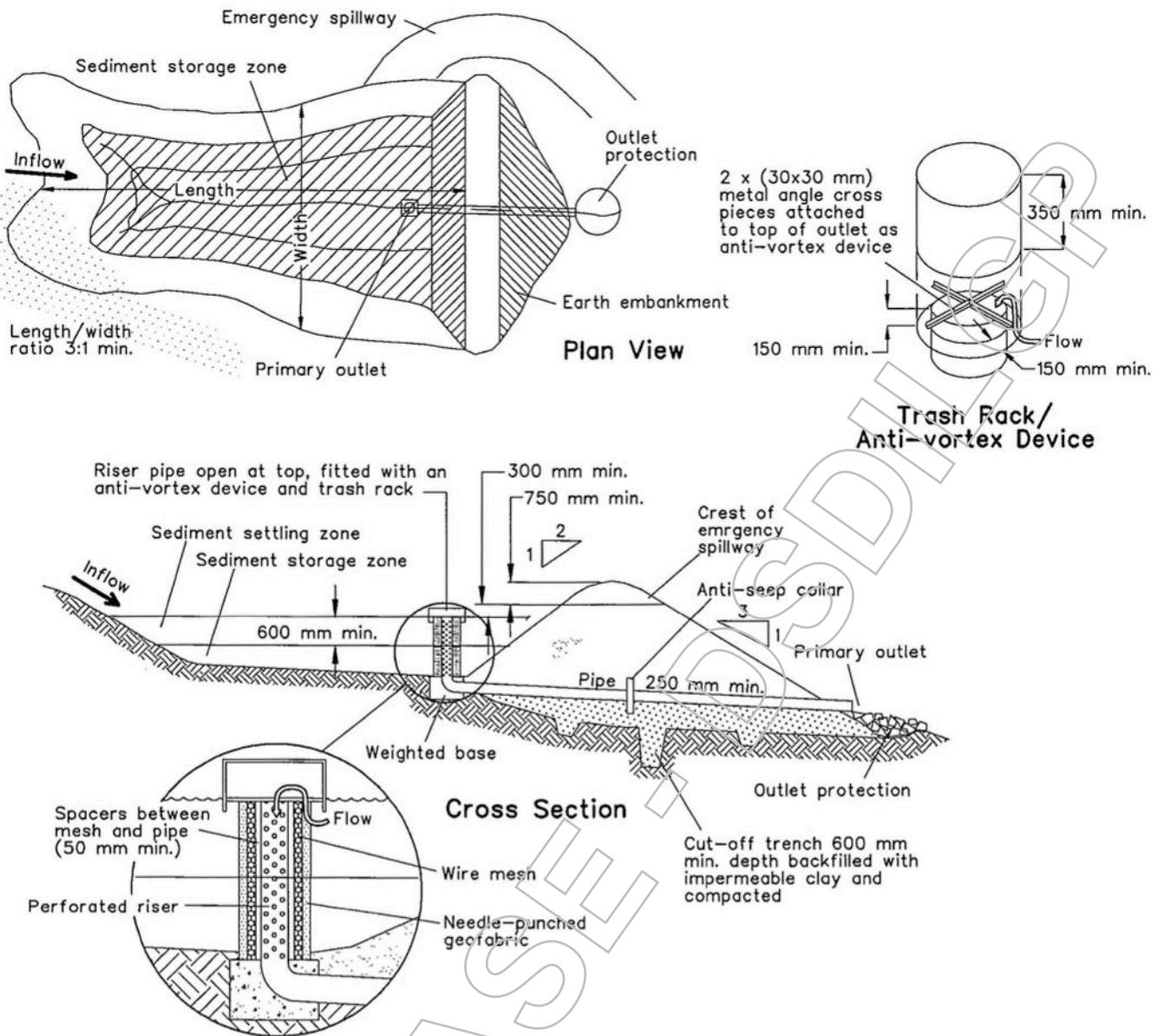
Construction Notes

1. Remove all vegetation and topsoil from under the dam wall and from within the storage area.
2. Construct a cut-off trench 500 mm deep and 1,200 mm wide along the centreline of the embankment extending to a point on the gully wall level with the riser crest.
3. Maintain the trench free of water and recompact the materials with equipment as specified in the SWMP to 95 per cent Standard Proctor Density.
4. Select fill following the SWMP that is free of roots, wood, rock, large stone or foreign material.
5. Prepare the site under the embankment by ripping to at least 100 mm to help bond compacted fill to the existing substrate.
6. Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content following the SWMP.
7. Construct the emergency spillway.
8. Rehabilitate the structure following the SWMP.

EARTH BASIN - WET

(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)

SD 6-4



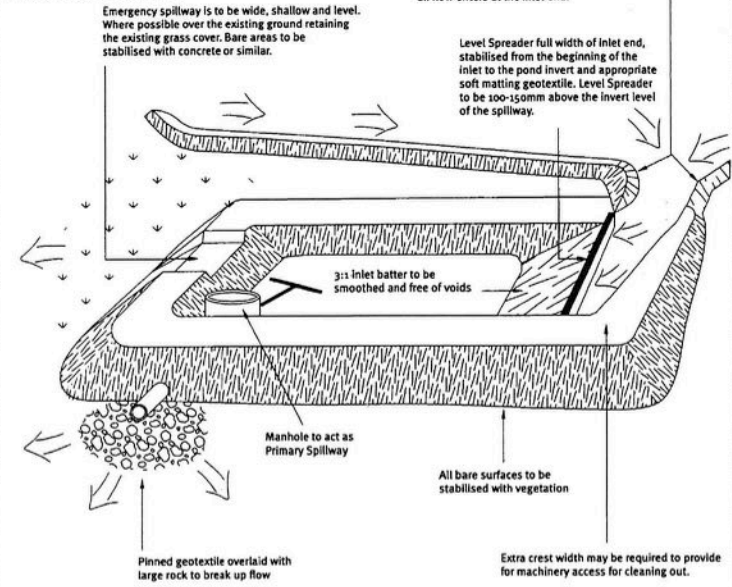
Construction Notes

1. Remove all vegetation and topsoil from under the dam wall and from within the storage area.
2. Form a cut off trench under the centreline of the embankment 600 mm deep and 1,200 mm wide, extending to a point on the watercourse wall above the riser sill level.
3. Maintain the trench free of water and recompact the materials with equipment as specified in the SWMP to 95 per cent Standard Proctor Density.
4. Select fill according to the SWMP that is free from roots, wood, rock, large stone or foreign material.
5. Prepare the site under the embankment by ripping to at least 100 mm to help bond the compacted fill to the existing substrate.
6. Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content following the SWMP.
7. Install the pipe outlet with seepage collars as specified in the SWMP and Standard Drawing 6-3b.
8. Form batter grades at 2(H):1(V) upstream and 3(H):1(V) downstream or as specified in the SWMP

EARTH BASIN - DRY
(APPLIES TO 'TYPE C' SOILS ONLY)

SD 6-3

POND OVERVIEW



GENERAL POND DETAIL

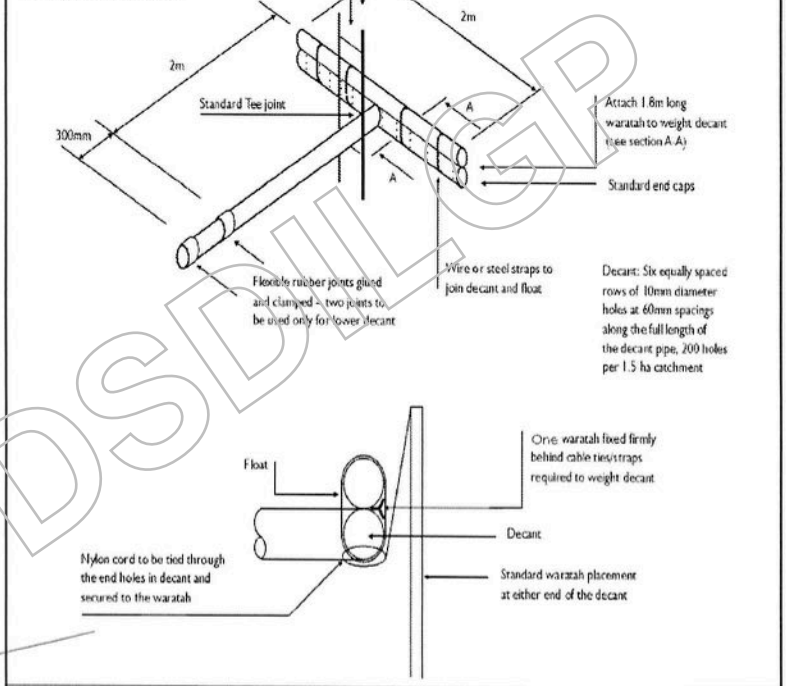
Catchment	2.0 ha
Minimum required capacity	600 m ³ (to top of primary spillway)
Inside pond slopes	3h:1v
Bottom pond size	24 x 4 m
Depth to top of primary spillway	2.0 m
No.'s of decants	2
Holes/decant	200 bottom one; 66 top

1. Remove all organic soil, use approved fill only and ensure thorough compaction.
2. Clean pond out when 20% full of sediment
3. Position chemical dose point upstream of the level spreader for better mixing (ensure all site runoff is treated)

PIPE WORK

Install a 225 mm diameter pipe to the outside of the pond. Place fabric or rock at the outlet for erosion control. Construct a minimum of two anti-seep collars around the outlet pipe. Record this with a photo and file. Compact the soil thoroughly around the pipe to avoid seepage. Install a concrete manhole at the outlet end to the pond with the invert or top 250 mm below the emergency spillway invert. Weigh manhole (e.g. concrete) to stop potential floating. Decants are to drain at equal depths through the live storage volume i.e. set at 800 and 1400 mm above the pond floor for the 2 decant ponds @ 2m depth. Elevate the stubs to the manhole slightly to the vertical to help decant movement. Fasten two rubber couplings (available from drainage outlets) to the bottom fitting - one coupling only is needed for the top one. Construct the decants as shown opposite and securely clamp and PK screw all connections to make watertight seals. Install waratahs (steel posts) at the end of each decant and fasten cord so the decants are at the correct heights off the pond. Strap (wire) a waratah on to each float for weight. Decants are to have 10 mm diameter holes - 200 for the bottom one and 66 for the top one.

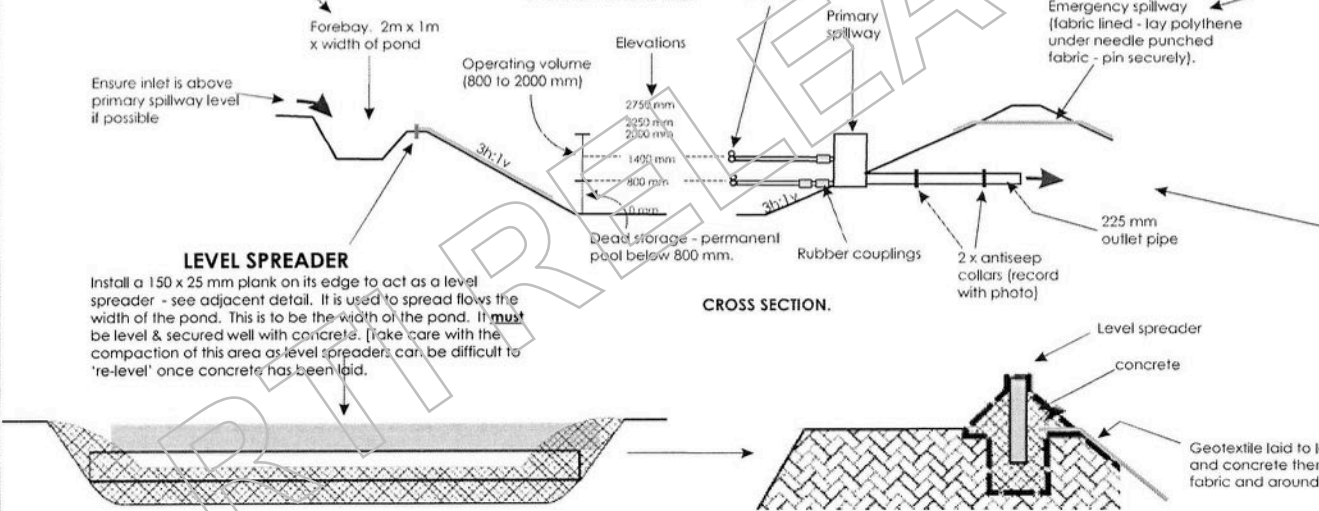
DECANT DETAIL



FOREBAY/INLET

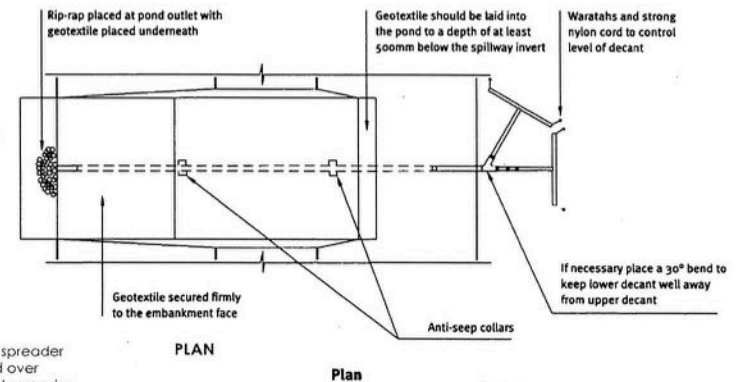
Construct a forebay at the pond inlet as shown - this will reduce future cleaning of the pond. Make it the same width of the pond (see below) and position it where it can be easily cleaned out by machine. The inlet slope should be a minimum of 3h:1v, smooth & level, and lined with polythene overlaid with needle punched fabric down to the permanent pool level. Ensure chemical dose point is upstream of forebay for better mixing.

POND DETAILS



EMERGENCY SPILLWAY

6m wide emergency spillway. Invert of spillway to be 250 mm above the invert of the primary spillway (riser). It needs to be horizontal and lined with polythene overlaid with fabric. Securely pin e.g. 0.5m centres.



SUNSHINE COAST
REGIONAL COUNCIL

SEDIMENT RETENTION BASIN DETAILS

Date: February 2009
Scale: Not to scale
Drwg No. PF/1

Reference
TP 90: Auckland Regional Council, 1999 "Erosion and sediment control guidelines for land disturbing activities in the Auckland Region".
Erosion Management Ltd
35 Hastings Parade, PO Box 32-364,
Devonport, Auckland 0744, N.Z.
Ph. 064 9 4460 278
Fax. 064 9 4460 214

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Appendix 2
Erosion Hazard & Sediment Basin Sizing

1. Erosion Hazard and Sediment Basins

Site Name: Vasa Views Quarry
Site Location:
Precinct/Stage:
Calculation by: MD
Calculation date: 27/10/2014

Site area	Sub-catchment or Name of Structure					Notes
	A					
Total catchment area (ha)	2					
Disturbed catchment area (ha)	2					

Soil analysis (enter sediment type if known, or laboratory particle size data)

Sediment Type (C, F or D) if known:	F					If known, Type D is worst-case.
% sand (fraction 0.02 to 2.00 mm)						Enter the percentage of each soil fraction. E.g. enter 10 for 10%
% silt (fraction 0.002 to 0.02 mm)						
% clay (fraction finer than 0.002 mm)						
Dispersion percentage						E.g. enter 10 for dispersion of 10%
% of whole soil dispersible	0					Pg 23 (SCRC) or 3.15 (IECA)
Soil Texture Group	F					Automatic calculation from above

Rainfall data

Design rainfall depth (no of days)	5					
Design rainfall depth (percentile)	85					Pg 101 (SCRC) or Pg B.17 (IECA)
x-day, y-percentile rainfall event (mm)	70.6					
Rainfall R-factor (if known)	31479					Only need to enter one or the other here
IFD: 2-year, 6-hour storm (if known)						

RUSLE Factors

Rainfall erosivity (R-factor)	31479					Auto-filled from above
Soil erodibility (K-factor)	0.018					
Slope length (m)	300					
Slope gradient (%)	5					
Length/gradient (LS-factor)	1.47					RUSLE LS factor calculated for a high rill/interrill ratio.
Erosion control practice (P-factor)	1.3					
Ground cover (C-factor)	1					

Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins)

Put an X here to use 50% of water zone						Fill in one or the other - either an X or nominate the number of months
Storage (soil) zone design (months)	2					
Cv (Volumetric runoff coefficient)	0.56					Pg 202 (SCRC) or Pg B.18 (IECA)

Calculations and Type D/F Sediment Basin Volumes

Soil loss (t/ha/yr)	1083					
Soil Loss Class	6					Pg 54 (SCRC) or Pg 3.4 (IECA)
Soil loss (m ³ /ha/yr)	833					Conversion to cubic metres
Basin storage (soil) volume (m ³)	278					Pg 102 (SCRC) or Pg B.19 (IECA)
Basin settling (water) volume (m ³)	791					Pg 102 (SCRC) or Pg B.14 (IECA)
Sediment basin total volume (m ³)	1069					

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Appendix 3

Example Weekly Inspection Checklist

Example Non-Conformance Report

Certification of Sediment Basin Construction

Weekly Site Inspection

LOCATION

INSPECTION OFFICER DATE

SIGNATURE

Legend: ✓ OK X Not OK N/A Not applicable

Item	Consideration	Assessment
1	Public roadways clear of sediment.	.....
2	Entry/exit pads clear of excessive sediment deposition.	.....
3	Entry/exit pads have adequate void spacing to trap sediment.	.....
4	The construction site is clear of litter and unconfined rubbish.	.....
5	Adequate stockpiles of emergency ESC materials exist on site.	.....
6	Site dust is being adequately controlled.	.....
7	Appropriate drainage and sediment controls have been installed prior to new areas being cleared or disturbed.	.....
8	Up-slope "clean" water is being appropriately diverted around/through the site.	.....
9	Drainage lines are free of soil scour and sediment deposition.	.....
10	No areas of exposed soil are in need of erosion control.	.....
11	Earth batters are free of "rill" erosion.	.....
12	Erosion control mulch is not being displaced by wind or water.	.....
13	Long-term soil stockpiles are protected from wind, rain and stormwater flow with appropriate drainage and erosion controls.	.....
14	Sediment fences are free from damage.	.....
15	Sediment-laden stormwater is not simply flowing "around" the sediment fences or other sediment traps.	.....
16	Sediment controls placed up-slope/around stormwater inlets are appropriate for the type of inlet structure.	.....
17	All sediment traps are free of excessive sediment deposition.	.....
18	The settled sediment layer within a sediment basin is clearly visible through the supernatant prior to discharge such water.	.....
19	All reasonable and practicable measures are being taken to control sediment runoff from the site.	.....
20	All soil surfaces are being appropriately prepared (i.e. pH, nutrients, roughness and density) prior to revegetation.	.....
21	Stabilised surfaces have a minimum 70% soil coverage.	.....
22	The site is adequately prepared for imminent storms.	.....
23	All ESC measures are in proper working order.	.....

Site Inspection Checklist

LOCATION OF DEVELOPMENT

.....

.....

INSPECTION OFFICER DATE

SIGNATURE

N/A – not applicable

✓ – acceptable controls adopted

✗ – measures are not acceptable, or a potential problem exists

Part A: Initial site inspection

Item	Consideration	Assessment
1	Has an Erosion and Sediment Control Plan (ESCP) been approved for the site?	.....
2	Have all necessary development approvals been obtained?	.....
3	Are site conditions consistent with those assumed within the approved ESCP?	.....
4	Are environmental values being adequately protected?	.....
5	Are all ESC-related development conditions being satisfied?	.....
6	Was the full perimeter of the work site inspected?	.....
7	Are all reasonable and practicable measures being taken to minimise environmental harm?	.....

Part B: Site inspection and monitoring

Item	Consideration	Assessment
8	Appropriate in-house site inspections of ESC practices are being carried out such that all control measures are being maintained.	.....
9	Site inspections and monitoring are being carried out at appropriate times and intervals.	.....

8. Bibliography

NON-CONFORMANCE REPORT

Job Name:		Job No:	
Date:		Client:	
Details of non-conformance:			
Details of specification/procedure not conforming to:			
Non-conformance raised by:		Date:	
Short-term preventative action:			
Estimated cost of rework/re-training/waste:			
Long-term preventative action:			
Accepted/rejected by the Client:		Date:	
Signed:			
Non-conformance resolved:		Date:	
Signed:			

Certification of Sediment Basin Construction

BASIN IDENTIFICATION CODE/NUMBER:

LOCATION:

Legend: ✓ OK X Not OK N/A Not applicable

Construction:

Item	Consideration	Assessment
1	Sediment basin located in accordance with approved plans.	.....
2	Embankment material compacted in accordance with specifications.	.....
3	Critical basin and spillway dimensions and elevations confirmed by as-constructed survey.	.....
4	Required freeboard adjacent embankments and spillway confirmed by as-constructed survey.	.....
5	Placement of rock on chute and upstream face of spillway in accordance with design details and standards.	.....
6	Placement of rock within energy dissipation zone downstream of spillway in accordance with design details and standard.	.....
7	All other sediment basin requirements in accordance with design details and standards.	.....
8	As-constructed plan prepared for basin and spillway.	.....

INSPECTION OFFICER **DATE**

SIGNATURE

Geotechnical:

Item	Consideration	Assessment
9	Suitable material used to form all embankments.	.....
10	Appropriate compaction achieved in embankment construction (if observed).	.....
11	No foreseeable concerns regarding stability or construction of the basin and spillway.	.....

INSPECTION OFFICER **DATE**

SIGNATURE

RTI RELEASE - DSDILGP

Vasa Views Extractive Industry

Traffic Impact Assessment Report

Prepared For:

Daraleigh Pty Ltd

Moody Road

Vasa Views Qld 4860



December 2014

DOCUMENT CONTROL SHEET

Black & More Cairns Office: 93 Digger Street Cairns North QLD 4870 PO Box 999N Cairns QLD 4870 Telephone (07) 4031 9944 Facsimile (07) 4031 9914 www.blackm.com ABN 24 845 447 493	Document: 140032 Title: Vasa Views Extractive Industry – Traffic Impact Assessment Report Project Manager: Sch. 4(4)(6) - Disclosing personal information Author: Sch. 4(4)(6) - Disclosing personal information Client: Daraleigh Pty Ltd Client Contact: Sch. 4(4)(6) - Disclosing personal information Client Reference: Sch. 4(4)(6) - Disclosing personal information Synopsis: Traffic Impact Assessment Report
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RTI RELEASE - DSDILGP

1.0 Executive Summary

This Traffic Impact Assessment Report has been prepared by Black & More on behalf of Daraleigh Pty Ltd. The report is in relation to the proposed Extractive Industry situated on Lot 5 SP23566 and located at Todd Road, Vasa Views.

We refer to the following documents;

- Item 1. of the concurrence agency information request dated 13 August 2014; and
- Item 5. of Cassowary Coast Regional Council information request dated 14 August 2014.

This report aims to address the RFI (Traffic Impact Assessment Report) to assist Transport & Main Roads (TMR) and Cassowary Coast Regional Council (CCRC) to determine what upgrades may be required to Moody Road & its intersection with the Bruce Highway as a consequence of this development.

Typically, traffic impact assessments establish whether an upgrade to roads/intersections is required; and where required, traffic assessments seek to determine the extent of the upgrade, staging and responsibility to pay for the upgrade.

Our assessment finds that this development does trigger upgrades to Moody Road and the intersection to the state controlled Bruce Highway. The assessment of the particular circumstances at this intersection; and its constraints and opportunities, do away with the staging contemplation, essentially finding that the ultimate road & intersection upgrades should be provided now.

Because this is the logical conclusion the assessment herein does not provide multiple iterations, staging plans or test numerous sensitivity runs on the input assumptions. We submit this is appropriate in this instance.

2.0 Development Details

The current use of the site is agriculture; livestock, cropping and forestry.

The proposed development is an Extractive Industry; extraction including screening and storage.

The estimated output of the Extractive Industry is 100,000 tonnes per annum. The extractive industry will begin operation in 2015/2016 but is not expected to fully operational (100,00 tonnes output per year) until 2020.

Further details on the operation of the proposed development is provided in the following sections of this report.

2.1 Surrounding Road Network

The proposed access to the site is via Moody Road and the Bruce Highway.



Moody Road

In its current form, Moody Road is a 5.0m wide gravel road located centrally in a 20m wide road reserve. The proposed development is located at the end of Moody Road, approximately 1km from the Bruce Highway intersection.

Moody Road is a low volume rural road providing a connection to the Bruce Highway for agricultural land used for livestock, cropping and forestry. Three buildings (assumed residences) are located within these agricultural land uses.

No traffic count data is available for entry and exit movements from Moody Road (minor road) to the Bruce Highway. In the absence of traffic count data we have used practical generation rates to determine the likely existing vehicle movements on the minor road.

	Vehicle Trips	Notes
Moody Road Existing Daily light vehicles	10	5 trips/house/day (rural uses) adopted
Moody Road Existing Daily heavy vehicles	2	2 trips/day (farm land use) assumed
Moody Road Existing Total Daily vehicles	12	
Moody Road Existing Peak hour all vehicles	2	10% of the daily vehicle movements assumed (rounded up)

Moody Road/Bruce Highway Intersection

In lieu of traffic count data, it is assumed that of the existing vehicles movements on Moody Road is assumed as follows;

- 50% approach and leave the site from Bruce Highway South; and
- 50% approach and leave the site from Bruce Highway North

The major road traffic volumes (through on Bruce Highway) were determined from the following traffic count data provided by TMR Officers;

- 2013 AADT Segment Report between Palmerston Highway intersection and Wopen Creek Road intersection (from Site 110040). A copy is provided in **Appendix 2** of this Report.

The automatic traffic count data recorded the following two way AADT movements:

	Vehicle Trips	Notes
Bruce Highway existing daily light vehicles	4,753	
Bruce Highway existing daily heavy vehicles	780	
Bruce Highway total daily vehicles	5,531	
Bruce Highway existing peak hour all vehicles	554	10% of the daily vehicle movements assumed

From discussions with TMR officers (25 September 2014) it is understood that the data is the most recent available and is suitable for use in this traffic assessment.

We understand that no annual growth factor data is available for this site. We have had consideration to growth factor data available for adjacent Bruce Highway sites. We consider that an annual growth rate of 1% is appropriate. It is accepted that lower or higher growth rates could apply but we submit this would not alter the findings and additional analysis is therefore not warranted in this instance.

TMR Officers have also provided the engineering design plans for the 2008 upgrade of the Moody Road/Bruce Highway intersection.

A short channelised right turn treatment currently existing on the Bruce Highway (major road). The diverge & deceleration length of this turn treatment is approximately 70m. The turning lane width varies from 3.80 to 3.90m.

No auxiliary acceleration or deceleration left turn treatments exist for the major road left in/left out movements. These movements currently negotiate a 15m radii bend.

The lane widths for the through movements on the major road are 3.50m.

2.2 Development Traffic Generation

The likely traffic generated by the proposed development was based upon consideration of the operation of the Extractive Industry and its traffic generation characteristics.

Light Vehicles

The estimated light traffic generated by the proposed development is as follows;

	Vehicle Trips	Notes
Generated daily light vehicles	16	5 staff per day x 2 trips/staff/day assumed 3 visitors per day x 2 trips/visitor/day (1 in/1 out) assumed
Generated peak hour light vehicles	8	All employees and visitors arrive or leave in 1 hour period

Heavy Vehicles

In assessing daily and peak hour movements for heavy vehicles associated with the proposed quarry use, we had regard to the following information.

The annual quarry extraction is anticipated to be 100,000 tonnes.

The Extractive Industry operator has forecast that the dry season (nominally 6 months) will be the peak period with 66,000 tonnes, approximately 2/3 of the annual extraction, occurring during this time.

Heavy vehicles movements from the Extractive Industry are envisaged to be for 11hrs per day (6am – 5pm), 6 days per week (Monday-Saturday).

The average haulage vehicle is assumed to be a 6 axle articulated vehicle with a payload of 25 tonnes.

The estimated heavy vehicle traffic generated by the proposed development during the peak “dry season” period is assessed as follows;

	Vehicle Trips	Notes
Generated daily heavy vehicles	34	66,000 tonnes /6 months / (25 tonnes/truck x 26 weeks x 6 days/week) - 1 unloaded trip and 1 loaded trip
Generated peak hour heavy vehicles	6	Evenly distribution over 11hr work day assumed

Total Vehicles

	Vehicle Trips
Generated daily vehicles total	50
Generated peak hour total vehicles	14

2.3 Development Traffic Distribution

The proposed development is located between two client areas; Innisfail and Cairns. It is considered an appropriate assumption for the vehicle movements for Moody Road is for;

- 50% approaching and leaving the site from Bruce Highway South (servicing Innisfail and South); and
- 50% approaching and leaving the site from Bruce Highway North (servicing Cairns and North).

2.4 Design Horizon

The Extractive Industry will commence in 2015/2016. However, we understand that it will not be fully operational until 2020. The design horizon for the Extractive Industry is envisaged to be 2040.

2.5 Other Site Aspects

Where required, off street parking will be provided for all vehicles associated with the proposed development.

3.0 Traffic Operation Assessment

Utilising the above inputs, the traffic volumes pre and post the proposed development for the peak hour period are shown in the table below. An annual growth rate of 1% has been used to estimate the 2020 and 2040 major road traffic volumes, (see previous comment on sensitivity to growth factors).

Peak Hour Period Traffic Volumes (% Heavy Vehicles)	
<p>Existing Condition (2013)</p>	
<p>Start of Extractive Industry operations (2020)</p> <p>1% annual growth factor for Bruce Highway traffic assumed</p>	
<p>Design Horizon (2040)</p> <p>1% annual growth factor for Bruce Highway traffic assumed</p>	

To accommodate the additional vehicle movements generated by the development, the following upgrades were considered;

Moody Road

1. Widen the existing gravel carriageway of Moody Road to 7.5m wide to allow passing of heavy vehicles.

The extent of upgrades to Moody Road are shown on Figure 7147-1 in **Appendix 1** of this Report.

It is considered that no changes to the vertical or horizontal alignment of Moody Road are required and none are proposed as part of this development.

Bruce Highway

1. Increase the length of the existing channelised right turn traffic turning into Moody Road from the north, (from 70m to 150m);
2. Provide an auxiliary left turn for traffic turning into Moody Road from the South; and
3. Provide a Northbound acceleration lane for traffic exiting Moody Road and travelling North along the Bruce Highway.

The approximate extent of upgrades to the Bruce Highway/Moody Road Intersection are shown on Figure 7147-2 in **Appendix 1** of this Report.

We consider that no southbound acceleration lane for traffic entering the Bruce Highway is required on the basis that;

- A southbound vehicle on the Bruce Highway has 400m sight distance to a vehicle entering the Bruce Highway from Moody Road (conversely the exiting vehicle has 400m sight distance to judge the safe exit manoeuvre from Moody Road turning South); and
- Conflict caused by proximity of Jogo Road intersection (400m) to the Moody Road intersection would make any alterations to current road form and function impractical and potentially introduce conflict and confusion to motorists.

Noting the proposal does not seek to provide additional southbound acceleration lane, we make the following comments;

- TMR Officers may consider that southbound through traffic may be temporarily inconvenienced, (after coming up behind loaded heavy vehicle still getting up to highway speed);
- From the intersection heading south, the sight distance is available for approximately 150m to next crest. Considering this, the minimum sight distance available to southbound through traffic is assessed as 400m from the critical location(s). This equates to 15 seconds at 100km/hr; 20 seconds at 80km/hr differential speed; and 24 seconds at 60km/hr differential speed; and
- TMR Officers can be comforted in the knowledge that there is the overtaking lane commencing 600m south providing safe opportunity to overtake a heavy vehicle and limiting any temporary inconvenience.

We note the proposed upgrades listed above have been based on opportunities and constraints assessed for the vertical and horizontal geometry of the Bruce Highway as documented on engineering construction plans provided by TMR.

The upgrades proposed to both Moody Road and the Moody Road/Bruce Highway Intersection will be confirmed with detail engineering design and calculations at the time of an operational works applications. The final arrangement and sizing of the proposed upgrades will be in accordance with the following design guidelines;

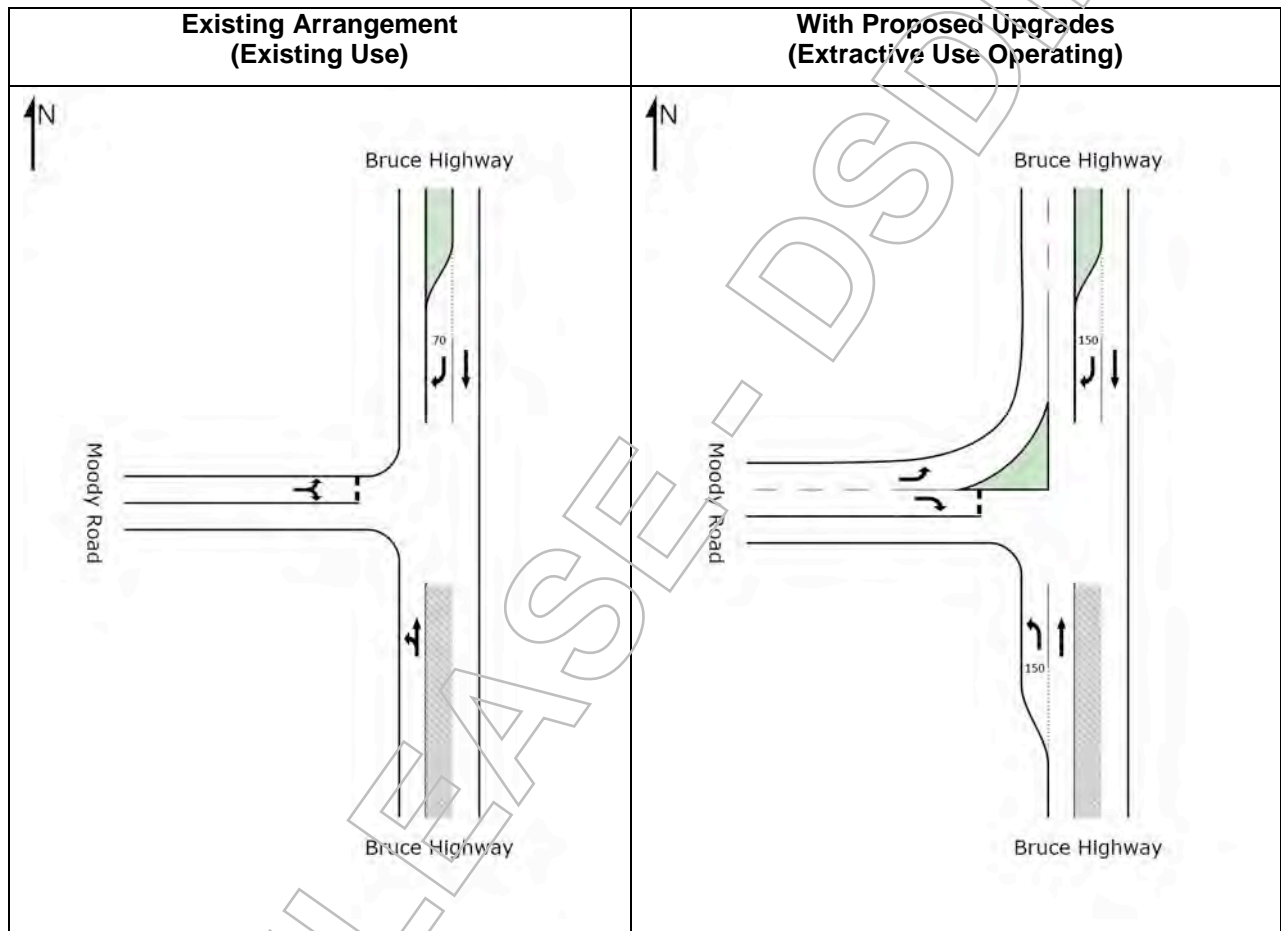
- FNQROC Development Manual
- Austroads Guide to Road Design, Part 4A signalised and signalised intersections
- Austroads Technical Publication AP-R211: Geometric Design for Trucks
- Austroads Pavement Design Manual

To assess the development traffic following proposed upgrades and consider impacts on the operation of the Bruce Highway, an analysis of the intersection during peak periods has been undertaken using SIDRA Intersection. The following SIDRA model setting were used;

- Level of service method; Delay (HCM)
- Performance measure; Delay
- Level of service target; LOS D

Intersection Layout

The two intersections modelled in SIDRA are shown below:



The northbound overtaking lane which commences at the intersection has been omitted from the SIDRA analysis. This is a conservative approach as no lane splitting for the through traffic is allowed for.

Results

The SIDRA analysis results for the existing movements and post development movements for the peak hour period at Moody Road/Bruce Highway intersection for the 2040 design horizon are summarised below.

	Existing Condition	Post Development (2040)
Total Flow & %HV		
Level of Service		
Degree of Saturation		

<p>Average Delay (sec)</p>		
<p>Queue (vehs)</p>		

The results show that the development generated traffic will not have any impact to the **through movements** on the Bruce Highway.

Using delay as the performance measure, the level of service that existed pre development will change for the **turning movements** post development. Although the delay increases the queue length and degree of saturation is almost unchanged.

The critical movement is for traffic exiting Moody Road turning right (southbound). SIDRA has assessed the queuing level of service as LOS D (delay of 29.6 seconds). However, we emphasise that this delay is as a function of the increased (2040) through traffic rather than additional traffic generated by the development. Without the proposed development the delay in 2040 would be 28.8 seconds.

A digital copy of the SIDRA intersection analysis calculation files is provided in **Appendix 3** of this Report.

4.0 Pavement Impact Assessment

To accommodate additional traffic generated from the proposed development, the existing pavement in Moody Road will be upgraded to the FNQROC Development Manual Standard for pavement thickness (Section D3) for industrial streets (minimum 250mm thick). The final pavement design will be confirmed at the time of the operational works application with regard to subgrade material properties.

The impact on the Bruce Highway pavement as a result of the proposed development is considered to be insignificant, due to the traffic volumes associated with the development relative to Bruce Highway traffic - The proposed development represents 0.90% of the daily Bruce Highway traffic by the 2013 count and 0.70% of the assessed 2040 Bruce Highway traffic.

New pavements for the proposed upgrade to Bruce Highway (additional lanes) will be designed in accordance with Austroads Pavement Design Manual

On this basis no pavement impact assessment of existing pavements are required.

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5.0 Safety Review

No serious vehicle crash incidents have been recorded in the Queensland Government Road Crash Database (<https://data.qld.gov.au>) for the period 2001 to 2013.

With reference to Section 3.0 & 4.0 of this report, upgrade works to existing roads are proposed to accommodate the traffic movements associated with the proposed development therefore a safety audit of the existing road forms is not required.

The upgrade works will be designed as per the current safety standards.

The upgrades proposed represent the logical maximum improvement works to the intersection.

The critical movement is considered to be the right turn out of Moody Road heading southbound on highway.

This movement exists now due to existing uses. The issues of delay and queueing in the 2040 scenario remain irrespective of this development.

The rate of exit due to this development is 6 vehicles in the peak hour. The maximum queue length is one heavy vehicle.

This case exists regardless of the development.

6.0 Environmental and Other Issues

The proposed development will not generate night traffic. Notwithstanding this, there is no adjacent development that would be affected by headlight glare.

The adjacent agricultural land uses are not considered sensitive to the noise and vibration created by heavy vehicles traffic during the day. Irrespective, the activities will be subject to the operating conditions imposed under the Extractive Industry permit conditions.

Similarly the operating procedures required to be implemented under the Extractive Industry permit conditions will require measures that will minimise dust generation along Moody Road.

Road culverts in Moody Road will need to be widened to accommodate the proposed carriageway width.

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7.0 Conclusion

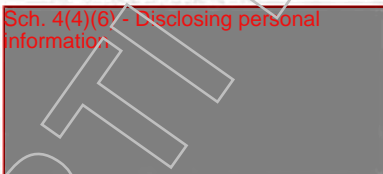
The following conclusions can be drawn from this Traffic Impact Assessment Report:

- The proposed development will likely generate an additional 12 light vehicles and 34 heavy vehicles per day, 12 in peak hour, 1 in max queue.
- The extractive industry will begin operation in 2015/2016 but is not expected to fully operational and at full production (100,00 tonnes per year) until 2020.
- To accommodate the additional vehicles generated by the development the existing gravel carriageway of Moody Road will be widened to 7.5m wide to allow passing of heavy vehicles with pavement provided to FNQROC.
- The existing vertical and horizontal alignment of Moody Road can readily accommodate the upgrades identified for the additional traffic from the proposed development.
- To accommodate the additional vehicles generated by the development the following Bruce Highway upgrades are proposed;
 - Increase the length of the existing channelised right turn traffic turning into Moody Road from the north;
 - New Auxiliary left turn for traffic turning into Moody Road; and
 - New Northbound acceleration lane for traffic entering Bruce Highway
- No southbound acceleration lane for traffic entering the Bruce Highway is required
- The final arrangement and sizing of the proposed upgrades will be confirmed with detailed engineering design at the time of an operational works application.
- A SIDRA Intersection Analysis demonstrated that the proposed upgrades do not significantly change the degree of saturation and queue length of turning movements entering and existing Moody road. The main influence on level of service is the Bruce Highway through traffic.
- A SIDRA Intersection Analysis demonstrated that the proposed upgrades do not have a worsening on the performance of the Bruce Highway (through movements)
- A pavement impact assessment is not required.
- The existing pavement thickness in Moody Road will be increased to the FNQROC Development Manual Standard for industrial streets.
- New pavements in the Bruce Highway (for upgrades) will be designed in accordance with the Austroads Pavement Design Manual
- Safety and environment concerns with road access to the proposed development will be addressed with the upgrades nominated.

Yours sincerely

BLACK & MORE

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Project Engineer

Reviewed



Partner

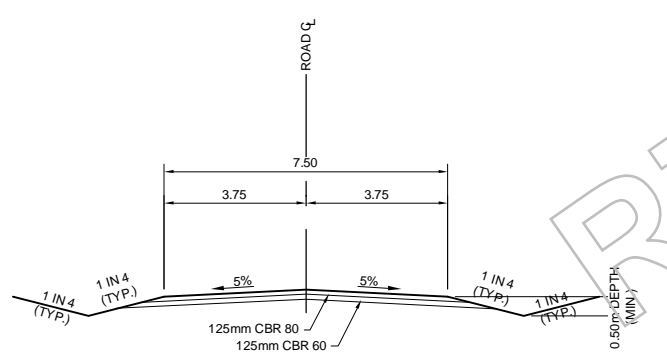
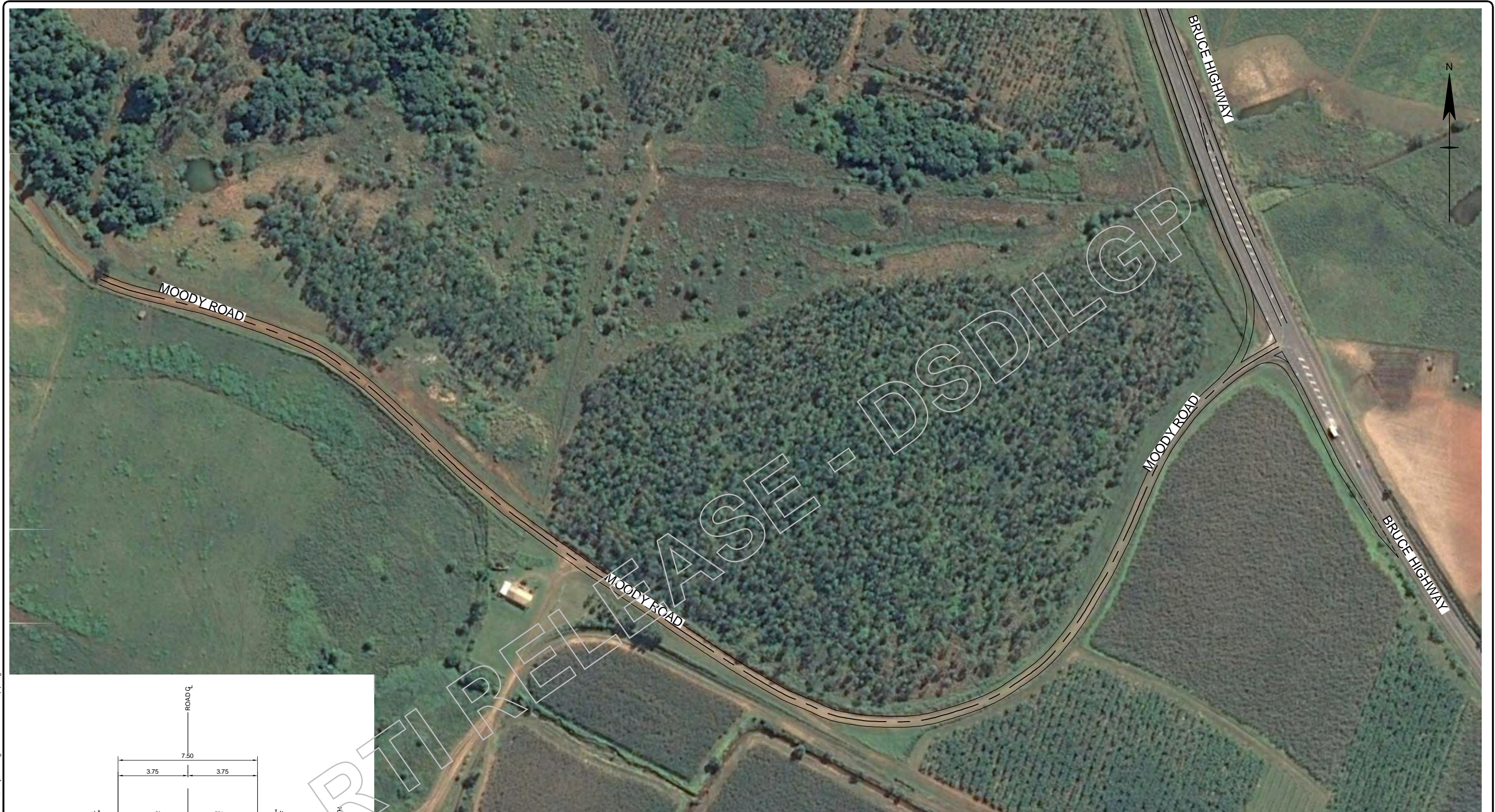
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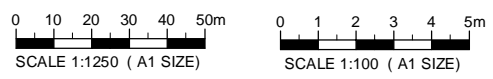
APPENDIX 1

Figure 7147-1 Proposed Upgrades – Moody Road

Figure 7147-2 Proposed Upgrades – Moody Road/Bruce Highway Intersection



MOODY ROAD TYPICAL CROSS SECTION
SCALE 1:100



PLAN
SCALE 1:1250

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Printed: 10 November 2014, 7:33 PM File: K:\C1407147 Vasa Views Quarry Drawings\7147-FIGURE-001(A).dwg

External References: B&M-TITLE-SKETCH-A1_e.dwg

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Telephone (07) 4031 9944
Fax (07) 4031 9914
Email black.more@blackm.com
Internet www.blackm.com

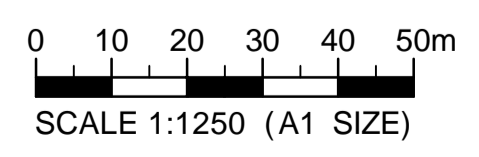
DARALEIGH PTY LTD
VASA VIEWS QUARRY
PROPOSED UPGRADES
MOODY ROAD

FIGURE 7147-1	
Date NOVEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) AS SHOWN
Revision A	



PLAN
SCALE 1:1250

Printed: 19 November 2014, 4:50 PM File: K:\C1407147 Vasa Views Quarry\Drawings\7147-FIGURE-002(A).dwg



NOTES

1. FINAL ARRANGEMENT OF UPGRADES TO BE CONFIRMED WITH DETAILED ENGINEERING DESIGN.

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ABN 24 845 447 493
93 Digger St Cairns North QLD 4870
PO Box 999N Cairns North QLD 4870
Telephone (07) 4031 9944
Fax (07) 4031 9914
Email black.more@blackm.com
Internet www.blackm.com

DARALEIGH PTY LTD
VASA VIEWS EXTRACTIVE INDUSTRY
PROPOSED UPGRADES
BRUCE HIGHWAY AND MOODY ROAD
INTERSECTION

DRAFT

FIGURE 7147-2

Date	Project Number	
NOVEMBER 2014	7147	
Drawing Size	Scale (A1 size)	Revision
A1	1:1250	A

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APPENDIX 2

Automatic traffic count data and Engineering design plans for existing intersection provided by TMR Officers

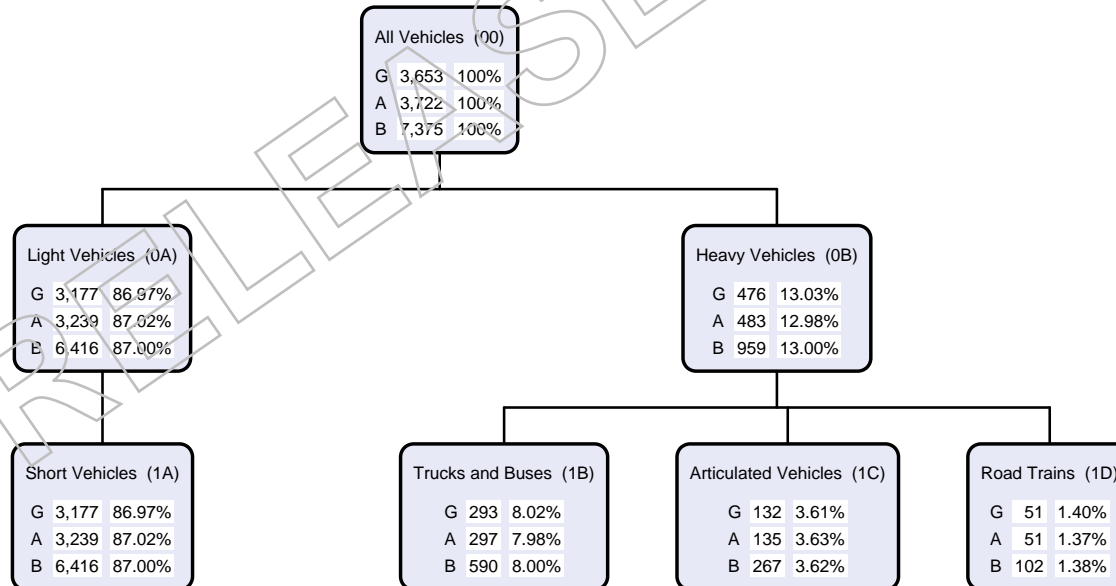
Site 110040. Point 310000080. Nth Johnstone R, 200m N of Palmerston Hy.
6.46 km

4.46 km
Start Point 310000094. Bruce Hwy to Babinda @ Palmerston Hwy.

19.20 km
End Point 310000147. Bruce Hwy to Innisfail @ Woopen Ck Rd.

The width of each Road Segment is proportional to its AADT.

This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are converted to whole numbers, there will be occasional inaccuracies due to rounding. These inaccuracies are statistically insignificant.



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APPENDIX 3
SIDRA Analysis Digital File (CD)

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Environmental Management Plan

Dillon's Extractive Industries

Prepared By: **Gilvear Planning Pty Ltd**

DRAFT V3 – November 2014

Document Control

Version	Description	Date	Author	Reviewer
1	Draft EMP	22 July 2014	KLK	SR
2	Draft EMP	28 July 2014	KLK	
3	Draft EMP	12 November 2014	KLK	
4	Draft EMP	10 December 2014	KLK	

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RTI DRAFT

1 Introduction

This Environmental Management Plan ('EMP') has been prepared for Dillon's Extractive Operations, operated by Daraleigh Pty Ltd as Trustee and / or its duly appointed delegate ('the Operator').

Dillon's Extractive Operations is currently in the Application stage; it is anticipated that this EMP will require update / revision during and following receipt of relevant approvals.

This EMP has been prepared to satisfy Council and State environmental requirements and obligations, and is to be read in conjunction with:

- a. Extractive Operations Development Plan (in preparation); and
- b. Safety Management Plan (in preparation) ('SMP').

2 EMP Objective

The objective of this EMP is to ensure that the environmental impact requirements of relevant approval/s and legislative requirements are implemented through appropriate business operation, practices and procedures.

If there is a conflict between this EMP and the conditions of any approval related to the use, the conditions will prevail to the extent of the conflict.

3 Environmental Responsibilities and Contact Numbers

3.1 Management Team

Management on site will involve the Permit Holder, Operator, Site Supervisor and Office Manager.

Regular management meetings (no less than fortnightly) will be convened to ensure management and operations are undertaken with due regard for all relevant requirements including those outlined within this EMP.

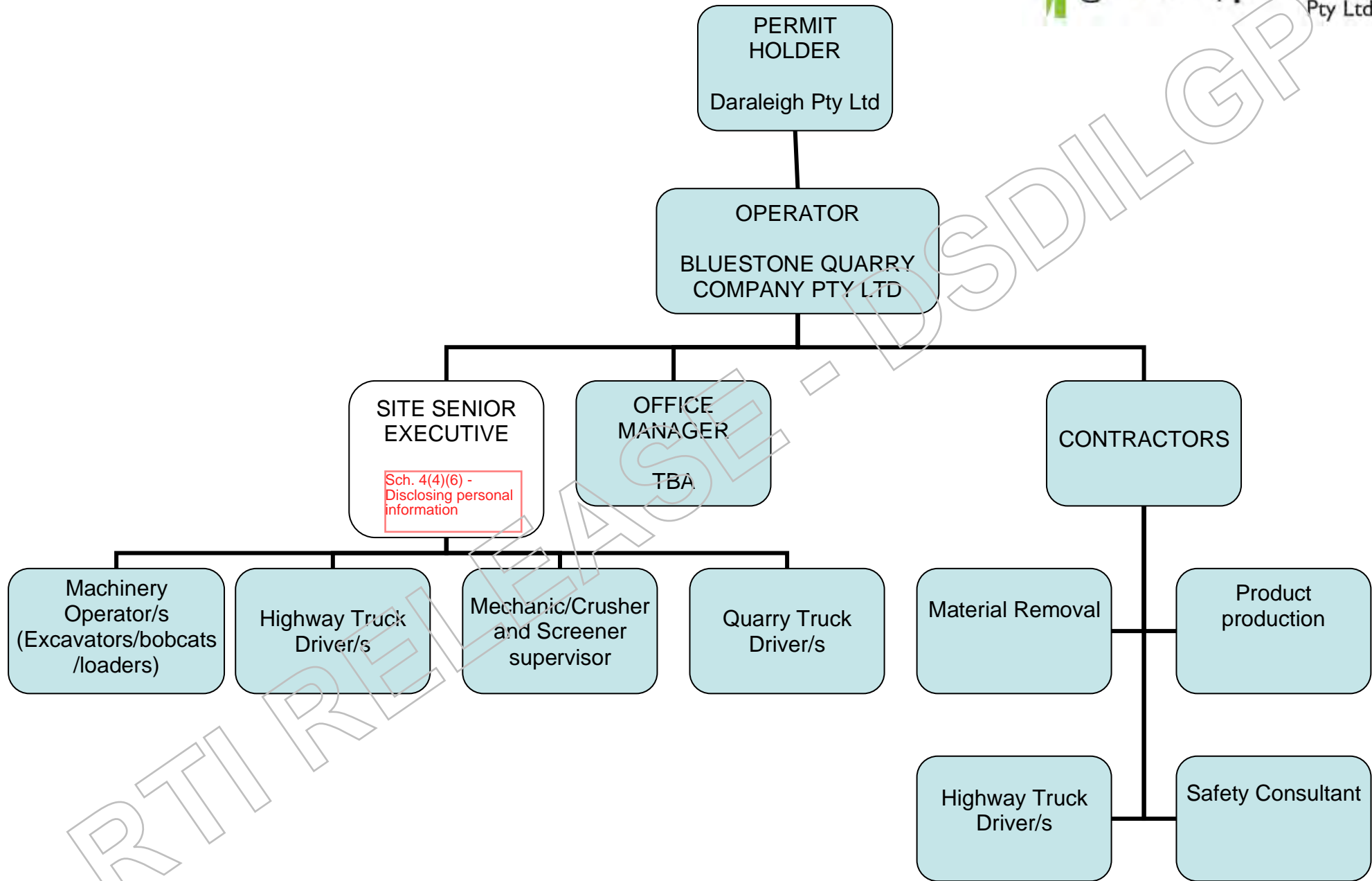
3.2 Contact Details

Contact details for the site and operations on site are outlined below:

CONTACTS			
Landowner	Daraleigh Pty Ltd as Trustee	Phone	Sch. 4(4)(6) - Disclosing personal information
Environmental Authority Holder:	Bluestone Quarry Company Pty Ltd	Phone	
Operator	Bluestone Quarry Company Pty Ltd	Phone	
Site Senior Executive	Sch. 4(4)(6) - Disclosing personal information	Phone	

3.3 Roles and Responsibilities

Responsibilities of employees and contractors operating on site are set out in the Safety Management Plan (under development) (**Attachment 6**). Reporting lines and responsibilities are outlined in the matrix below.



4 Environmental Commitments

Our Commitment

We will minimise the environmental impact of the operations by ensuring the design and management practices comply with the conditions of the planning approval, environmental authority and all other relevant legislation. We intend to follow the principles of sound environmental management through systems that evaluate, record, monitor, review and manage environmental impacts. We will review the plan annually or more frequently if circumstances require. We will ensure that all staff involved in the operations of the business are adequately trained in those systems and requirements.

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5 Operations

This EMP follows a philosophy common amongst modern management systems; that being, risk management. Key components are self-assessment protocols are provided so that the operator can review operations on a continual basis, and identify ongoing opportunities for improvement.

5.1 Overview

Operations Name:	Dillon's Extractive Operations
Operator:	Bluestone Quarry Company Pty Ltd
Plan Date:	10 December 2014 (Draft V4)
EMP review dates:	Annually on final plan anniversary date

Site Location

LOT	<i>Part of Lot 5</i>	PLAN	<i>SP235661</i>	TENURE	Freehold (Fee Simple)
PARISH	<i>Glady</i>	SHIRE	<i>Cassowary Coast</i>		
LOCALITY	<i>Vasa Views</i>	Address	BRUCE HIGHWAY AND MOODY ROAD, VASA VIEWS		

The site is described as part of Lot 5 on SP235661, and is located on the Bruce Highway and Moody Road, Vasa Views.

The extraction area is approximately 30ha in extent with a maximum extent of 2 ha being worked at any one time (not including access, drainage or storage areas).

A **Locality Map** is provided in **Attachment 1**.

5.2 Operations Layout

An **Operations Map** outlining the area of proposed operations and direction of workings is attached as **Attachment 2**. The Operations Map shall be updated regularly having regard for the extent of use.

Operations will commence on the north-western area of the site and head south. All operations will remain within the extraction area, and will not exceed 2ha in size at any one time.

Infrastructure and extraction areas will not be located on areas that will or are likely to disturb vegetation and watercourses mapped on site.

Access to the site will be via Moody Road.

The site contains or is surrounded by:

North	Tree Farm, Cattle / Horse Grazing Vegetation that is Category 7.8.1b (least concern) and Category 7.11.1a (least concern)
West	Tree Farm, Cattle / Horse Grazing, Cane Farm Vegetation that is Category 7.11.1a (least concern)
South	Tree Farm, Cattle / Horse Grazing, Cane Farm / Banana Farm Vegetation that is Category 7.11.1a (least concern)
East	Tree Farm, Cattle / Horse Grazing, Cane Farm

	/ Banana Farm Vegetation that is Category 7.11.1a (least concern)
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Operations Area site use

	Details
Access	Via Bruce Highway, Moody Road
Public uses	Nil
Utilities in the area	Town Water Onsite Effluent Disposal Electricity Telecommunications
Other land uses	Cattle Grazing and Tree Farm

Other Local Area Details

Dominant Vegetation	
Regional Ecosystem	<i>Least Concern Category 7.8.1b</i>
Landform	<i>Extraction Area falls north and south from a centralised ridge line; site approximately 80m AHD at its highest point</i>
Geology / Rock Type	<i>Northern Tasman Orogenic Zone</i> <i>Hodgkinson Province</i> <i>Blue Rock Basalt</i>
Soil Type	<i>Eubenangee</i>

Acid sulphate soils	N/A
Wet weather operation	<i>As required, secure site, ensuring stormwater management appropriate for site conditions, and potential shut down during the wet season</i>

Operations

Material Type/s:	Hard Rock – Crushed Aggregate Hard Rock – Road Base Overburden, Fill Other
Quantity extracted to date:	Nil
Average Annual extraction:	Maximum of 100,000t (estimated)
Intended maximum working area (ha):	2.5ha at any time
Extractive Resource life expectancy (yrs):	Unknown – minimum 10years (est)

5.3 History of Workings

The site is a greenfield site; extraction / investigation to date has been for farm improvement purposes only, and minimal quantities have been extracted.

5.4 Proposed Workings

At this preliminary stage, it is anticipated that extraction on the site will commence in its north-western extent, on the northern side of the ridge line, moving progressively towards the southern boundary with adjoining properties.

Specifically, the proposal includes:

- Progressive extraction of basalt rock of up to 100,000 tonnes of material per year, in 2 hectare stages, within a total 30 hectare development footprint;

- Screening/processing of the extracted resource;
- Stockpiling of processed material for distribution;
- Sediment basins and bund walls for stormwater and erosion and sediment control and / or acceptable alternative;
- Associated internal haulage routes; and
- Weighbridge and site amenities (office etc.).

The site of the proposed extractive industry contains a large deposit of basalt rock resource which has the potential to produce variety of concrete aggregates, sealing aggregates, road base and ballast and is intended to supply Far North Queensland region construction industry.

Typically, extractive industries involve the following stages of operation

- Clearing;
- Topsoil and overburden stripping and stockpiling for use within rehabilitation;
- Extraction of resource;
- Processing and stockpiling of extracted resources; and
- Loading and haulage/distribution to market.

Access to the site is gained from Moody Road, off Bruce Highway. Moody Road is currently unsealed, with the section towards Bruce Highway being compacted gravel treatment; and the balance being compacted soil. It is anticipated that upgrades to the treatment of Moody Road, to allow 10m pavement and upgrade to intersection of Moody Road and Bruce Highway will be required to establish safe ingress and egress from the extraction operation.

As far as practicable, the operation of the site will firstly seek to avoid impacts on identified environmental values, such as vegetation contained essential habitat for protected species, identified watercourses and wetlands.

Clearing of the identified vegetation community may be necessary to access the western face of the resource.

Haul roads have been designed for efficient and safe operation particularly in respect to layout, type of extraction and topography of the site. Haul roads will be gravel finished, and enable two-way traffic with a ten (10) metre width. Readily visible signage will be installed, in accordance with appropriate safety standards, including the *Manual of Uniform Traffic Control Devices* (TMR Qld).

Machinery likely to be utilised across the site includes:

- Crushing and screening plant;
- Front end loaders;
- Trucks;
- Excavators;
- Water truck.

Additional machinery, including bulldozers, graders and rock breakers may be deployed as necessary. Mobile crushing and screening is proposed for extractive operations.

In terms of water for the site, both for potable and non-potable uses, it is anticipated that:

- (a) Water for drinking purposes may be via town water supply to the site, and / or water collection from roofs of buildings on site; and
- (b) Water for dust suppression, truck washdown and associated purposes may be via water collection in tanks and / or recycling from stormwater treatment implemented on site.

6 Environmental Risk Assessment

Ongoing and regular assessments of environmental risks in operations will be undertaken.

As at the date of preparation of this draft EMP, the following is a brief outline of issues / risks as assessed. Please note more detailed Risk Assessments in regards specific issues has been undertaken within this EMP, and is provided for reference in conjunction with specific management strategies.

6.1 Acid Sulfate Soil

The site is not known to contain Acid Sulfate Soils (actual or potential). Furthermore, operations are elevated above 20m AHD.

Specific management of this issue is not provided for, nor proposed.

6.2 Air Quality

The site is located in an area dominated by rural and rural-residential land uses. It is anticipated that potential impacts on air quality for residents and visitors to the area may be appropriately managed, noting:

- a. Extraction is to be undertaken in the northern area of the site, progressively working south and is also benefited by existing vegetation and terrain of the site; and
- b. Nature of use proposed is such that air quality is considered to be unlikely to be detrimentally affected in this locality, given existing rural uses already emit and impact air quality.

6.3 Contaminated Land

The site is not to be listed on the Contaminated Land or Environmental Management Registers. Prior rural / agricultural uses on the site are considered unlikely to have detrimentally affected the site and / or necessitated contaminated land assessments being undertaken.

Potential for contamination as a result of extractive operations proposed is considered minimal; appropriate management practices and storage requirements for potentially contaminative materials will be implemented.

6.4 Cultural Heritage

Given the extensive rural and agricultural operations across the site, particularly in the area proposed for extraction, it is considered unlikely that Indigenous cultural heritage will be detrimentally affected by the use.

No known European cultural heritage artefacts / buildings are located on site.

Appropriate adherence to the Duty of Care Guidelines is considered a suitable method to manage operations and potential for impact.

6.5 Stormwater Quality Management

Erosion and sediment management / control are a key consideration in the development of the Operations Plan. A Stormwater Quality Management Plan (SQMP) has been developed to ensure operations on site can be managed appropriately in terms of impacts on water quality generally. This SQMP is included at **Attachment 3**.

6.6 Flora and Fauna

Preliminary Environmental assessment by Northern Resource Consultants (NRC) was undertaken in June 2014, and confirms that:

“The majority of the vegetation within the assessment unit was confirmed to be remnant-quality complex mesophyll vine forest. The floristic composition and structure and the landzone features are characteristic of regional ecosystem 7.8.1, which is the regional ecosystem currently shown on the State mapping....” (p.1)

“Whilst the majority of this community is of remnant status, there are some areas on the margins of the community that are significantly disturbed with an abundance of non-native species. Some of the vegetation on the southern margins is somewhat isolated from the main community, with little or no understorey and a ground layer comprised of exotic pasture grasses. Other areas that have been subject to historical clearing contain a dense shrub layer of exotic species.... with few, if any, canopy species. Some of these areas are currently incorporated into the regional ecosystem mapping, but they do not meet the criteria for remnant vegetation. The regional ecosystem mapping could be amended to remove these highly disturbed non-remnant areas.” (p2-3)

“There is a narrow band of vegetation adjacent to the southeast margin of the community that appears to be a small plantation of cabinet timber trees, mostly Queensland Maple... they do not represent part of the remnant community and the regional ecosystem mapping could be amended to exclude these trees.” (p3)

In terms of the vegetation being a habitat for the Southern Cassowary, the initial assessment indicated that:

“the remnant vegetation is likely to be of low value to the Southern Cassowary. The main limiting factors with respect to the significance of the area as Southern Cassowary habitat are the size of the vegetation community and its connectivity with the surrounding landscape. The community is relatively small in size and isolated from the surrounding tracts of remnant vegetation. It does not form a corridor between areas of suitable Southern Cassowary habitat, and is mostly surrounded by vast areas of non-remnant vegetation and agricultural land.” (p4)

“A review of extracts from the Queensland Government Wildlife Online database revealed there are eight records of the Southern Cassowary within 2km of the essential habitat area that was assessed. However, there are no records within 1km of the assessment area.” (p4)

A copy of the Assessment undertaken in June / July by Northern Resource Consultants is provided at **Attachment 4** for reference.

Vegetation clearing to facilitate extraction operations is unlikely to be required, and / or if required, at this stage will not exceed 2500 – 5000 sq m in size, likely to be located in the south-western portion of the area mapped as vegetation by the State.

Cleared vegetation may be disposed of by burning or simply pushed into stockpiles and used in rehabilitation. Vegetation can be kept for spreading during rehabilitation but no longer than 12 months.

Before an area is cleared, it will be inspected by the operator or its duly appointed agent.

Clearing must not occur outside the operations area and areas required for access and firebreaks (marked and pegged area) and should be undertaken on a face to prevent the occurrence of solitary trees left standing. Cleared debris heaps must be contained within the

Operations area boundary and are NOT to be pushed and left up against standing trees or encroach upon any watercourse buffer zones.

Beyond the clearing potentially required, and foreshadowed above, all existing vegetation on the site will be retained. While the operations area is unlikely to be viewed from public areas in its initial stages, retention of existing, and establishment of new vegetation on the southern side of the operations area should assist with reducing the visual impact of any operations and maintaining the scenic values of the landscape, particularly in terms of the view from the Bruce Highway heading north.

Debris intended for burning must be kept within the Operations Area in a location where burning shall not cause damage to retained vegetation or rehabilitated areas. The Operator must conduct all burning responsibly under a permit to burn obtained from the local fire warden.

Attachment 5 shows the **Regional Ecosystem/s** on the Operations Area.

All requirements of the *Environmental Protection Act 1994*, the *Nature Conservation Act 1992* as well as associated Environmental Protection Policies and licence requirements shall be met and maintained. If any EVR, (Endangered, Vulnerable and Near Threatened) M (Of Management Concern), P (Status Pending) or C (S) (Common but Significant) species are encountered on the extraction area, these species may only be disturbed with a licence or authority or permit from QPWS or in accordance with an exemption from another act, regulation or conservation plan.

Taking or disturbing wildlife listed under the *Environment Protection and Biodiversity Conservation Act 1999* may also require approval from the relevant Commonwealth Department. Rare and threatened species, as defined under the *Nature Conservation Act 1992* and "of concern" (M) and "status pending" (P) species, as defined in the Species Management Information System (SMIS), shall be managed in accordance with the SMIS where applicable.

Appropriate training shall be provided to all persons involved in site operations.

6.7 Impacts on Surrounding Land Uses

The site is located in an area dominated by rural and rural-residential land uses. The dwelling located nearest the extraction area is located on the ridgeline on Lot 3 on RP839123. This dwelling is anticipated to be no less than 1.7km (estimated) from the operations during initial works, as illustrated on the screenshot from Google Earth and Queensland Globe below.



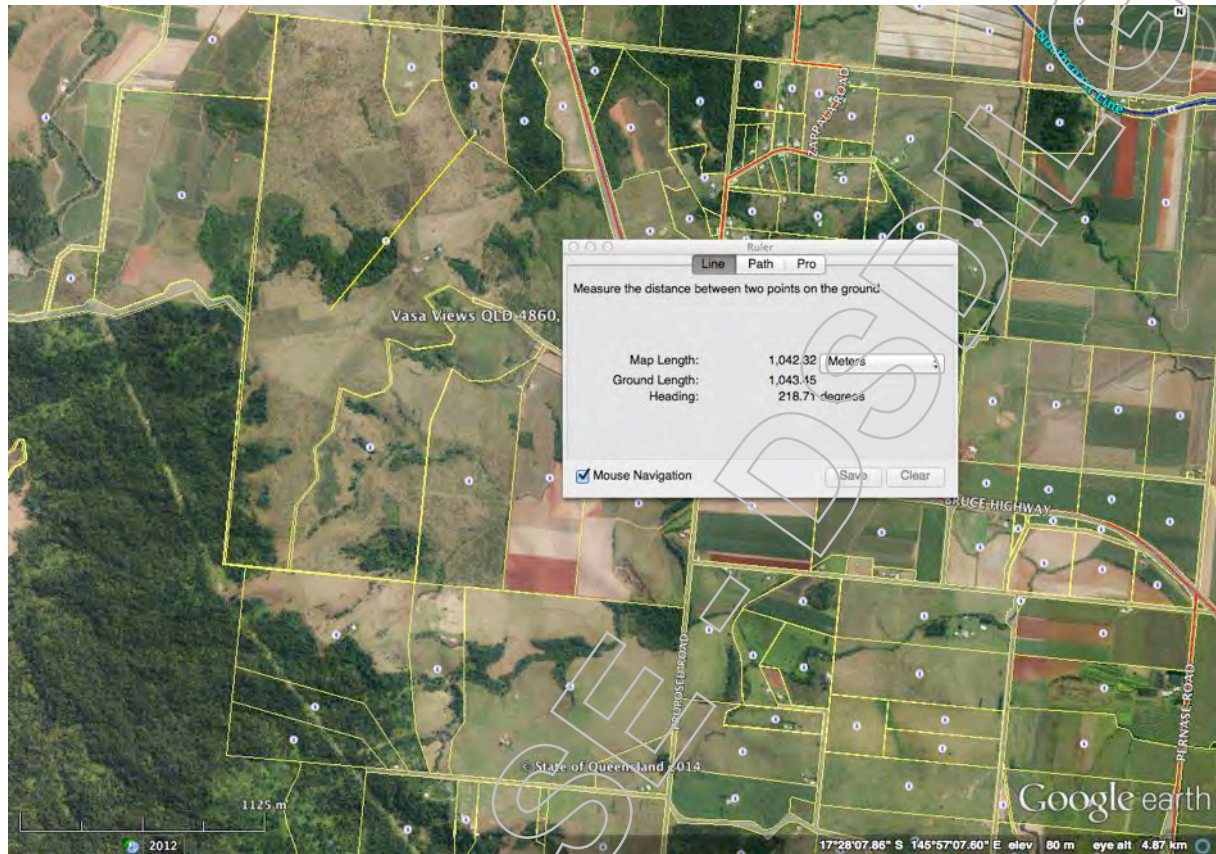
As operations move south across the site, the separation distance between this dwelling and operations will decrease to almost 1km (see screenshot below).



Within the site, an existing dwelling at its closest to the operations area has a separation distance of approximately 400m (screenshot below).



To the north, the nearest residence is located on Lot 1 on RP735849. This residence has an estimated separation distance from initial extractive operations of approximately 1km (see screenshot below).



Given the range and location of uses in the locality around the site, this EMP has included appropriate responses to ensure potential for impacts on amenity, noise, air and water quality are appropriately addressed.

6.8 Noise

As noted above, proximity of potentially sensitive receptors in terms of noise generated on site has been a key consideration in formulation of this EMP. Specific responses to the potential for impacts on the noise environment of the locality have been provided in section 9.3 below.

6.9 Visual Amenity

The sites terrain and location are such that impacts on visual amenity are capable of being managed through the appropriate location of activities (for example, north of the ridgeline

through the site, predominantly). By and large, when viewed off-site, it is submitted that the operations proposed will not be visible; traffic on, to or from the site may be managed such that the site will retain its 'rural' vista from off-site vantage points. Small scale operations buildings (for example, office and amenities) will be located such that they can be screened and / or will arguably not detrimentally impact on the amenity of the locality.

6.10 Waste

Types of waste likely to be generated by the proposed development is likely to include conventional urban waste associated with office and ancillary operations, together with minimal waste associated with machinery repair / maintenance, if required.

The nature of the use is such that waste (excluding waste water) is not generated in large quantities.

Waste generation (exclusive of stormwater) is considered a low risk to the environment.

6.11 Weed Control

If declared plants are found in the monitoring schedule during operations, the appropriate authority shall be notified and all practical steps shall be taken to avoid spreading the plants or seeds to non-infested areas in accordance with the *Land Protection (Pest and Stock Route Management) Act (2002)*. Any persons using herbicides for the controlling of weeds on the extraction area shall be certified and appropriately accredited and shall conduct the application of herbicides in accordance with the applicable legislation and accompanying Regulations, which includes the *Agricultural Chemical Distribution Control Act 1966*.

No vehicles or machinery are to be brought onto the extraction area from infested areas without being thoroughly washed down prior to their entering the site.

7 Legislation, Approvals, licenses and permits

All extractive activities shall comply with:

- All conditions in any relevant Approval / Permit applicable to the subject use
- Relevant provisions within the *Environmental Protection Act 1994*
- Relevant provisions of the Local Government Planning Scheme, currently the Johnstone Shire Planning Scheme
- All relevant conditions of the *Mining and Quarrying Safety and Health Act 1999*
- *Aboriginal Cultural Heritage Act 2003*
- All other relevant Legislative requirements.

It is noted that the Eligibility Criteria and Standard Conditions for both Extraction and Screening activities (included for reference at Attachment INSERT) can be complied with during Stage 1 and 2 operations on site. However, subsequent stages cannot comply with separation distance criteria, in that dwellings will be less than 1km from the operations areas. In these circumstances, it is noted that a Site Specific Application would be required.

8 Safety Management

The Operations Manager will develop a **Safety Management Plan** (under development) (**Attachment 6**) that will address safety, environment protection and fire management prior to commencement of use of the site. The Operations Manager will ensure all staff and visitors are given a site induction and that staff are required to participate in emergency response and fire evacuation drills.

The Operations Manager and / or its Delegate must ensure that material is loaded into vehicles in a way that prevents its release from the vehicle into the environment, including the road environment.

All activities shall be conducted in accordance with the *Mining and Quarrying Safety and Health Act 1999*, *Mining and Quarrying Safety and Health Regulations 2001*, *Workplace Health and Safety Act 1995* and the *Workplace Health and Safety Regulations 1997*.

8.1 Temporary Closure

Infrastructure (not including roads or permanent structures) may be removed for temporary closure and will be re-established when operations recommence.

During and on completion of operations all working faces, including stockpiles shall be left at the natural angle of repose of mechanically loosened material. This shall apply in all instances when the working face is left unattended.

Operations must cease when operations are considered detrimental to the environment or risk causing environmental harm, such as during either wet or dry weather conditions.

9 Environmental Management Practices

9.1 Air Quality

EMP Objective:

The activity will be operated in a manner that protects environmental values of the air on the site and in the locality.

Performance Outcome:

Discharge to the air of contaminants that may cause an adverse impact on the environment as a result of the activity undertaken do not occur, or, where unavoidable, are minimised to the greatest practicable extent.

Environmental Values:

The site is located in a rural area, to the west of the Bruce Highway north of Innisfail.

Surrounding land uses include:

- Cattle and horse grazing
- Tree plantations
- Banana farm
- Sugar Cane farming.

See below aerial image with topographical overlay, courtesy Queensland Government and Google (© 2014).



The nearest residence or sensitive receptor to the subject proposal is within the site, approximately 400m from the area where extraction will occur.

Existing and likely future landuses in this locality will remain rural / agricultural in nature. Infrastructure servicing and legislative constraints, together with site and slope characteristics, will largely inhibit or prohibit future urban development for the foreseeable future.

Rural / agricultural uses in the immediate vicinity will, from time to time, result in odours from cattle being released, harvesting and farm operations on cane farms, and air quality being impacted from time to time by dust from vehicular and / or stock movements, particularly in drier periods.

Risk Assessment:

Risk to air quality as a result of the proposed development is considered fairly minimal, having regard to:

- a. Existing landuses in the locality, which by their nature generate dust and noise from time to time;
- b. Extraction initially undertaken in the northern area of the site, progressively working south, however, being benefited by existing vegetation and also terrain of the site;
- c. Nature of use proposed is such that air quality is considered to be unlikely to be detrimentally affected in this locality, given existing rural uses already emit and impact air quality.

Management Strategies:

Objective	Responsible Entity	Performance Measure	Acceptable Solution Corrective Actions
Air quality on site maintained to current standard.	Owner / Operator	<p>No odour complaints</p> <p>Good air quality maintained on site for workers</p> <p>Air emissions will not adversely affect human health or wellbeing</p> <p>Impacts on health and biodiversity of ecosystems are avoided</p> <p>Extraction is to take place within controlled environment, with releases from that environment managed and monitored</p>	<p>Maintenance of plant and equipment as required to ensure off-site impacts removed / minimised</p> <p>Monthly testing of equipment as required to ensure emissions within acceptable parameters</p> <p>Maintenance and testing records maintained and stored in appropriate location</p>

In addition, the following operational strategies will be implemented:

- (a) Trucks transporting material to or from the site must be covered and operated in compliance with relevant legislative requirements to minimise impacts on amenity and / or detrimental impacts on air quality; and
- (b) The use of unsealed roads for the transport of extracted materials will be avoided if an existing sealed road is a practical alternative. Where the use of unsealed roads is

9.2 Water Management and Discharge

EMP Objective:

The activity will be operated in a way that protects environmental values of waters.

Performance Outcome:

There is no actual or potential discharge to waters of contaminants that may cause an adverse impact on the environmental values of waters as a result of the development.

Water discharged from the site is to comply with relevant policy requirements.

The quality of discharge from the site will satisfy Water Quality Objectives confirmed within the Stormwater Quality Management Plan at Attachment 3.

Environmental Values:

The site is mapped as containing a watercourse. See below mapping obtained from Google Earth and the State of Queensland (© 2014).



Risk Assessment:

Risk of discharge from the subject operations impacting or affecting the watercourse on site is considered to be minimal to moderate, given:

- a. Operations being undertaken within a controlled environment, with potential discharge areas being bunded and / or subject to discrete discharge capture systems implemented in response to site conditions;
- d. Separation and slope characteristics between the site of operations and the watercourse being such that mitigation / management is undertaken in a practical and appropriate manner.

Management Strategies:

Objective	Responsible Entity	Performance Measure	Acceptable Solution Corrective Actions
Water quality to be maintained and / or improved. Water use is to be minimised insofar as practicable given nature of operations on site.	Owner / Operator	<p>Uncontrolled discharge of untreated water and / or fluids from the site does not occur</p> <p>Impacts on health and biodiversity of ecosystems are avoided</p> <p>Production is to take place within controlled environment, with releases from that environment managed and monitored</p> <p>Water use is to be managed and reduced</p>	<p>Maintenance of plant and equipment as required to ensure off-site impacts removed / minimised</p> <p>Monthly testing of equipment as required</p> <p>Maintenance and testing records maintained and stored in appropriate location</p> <p>Water treated on site is to be utilised for appropriate irrigation and / or dust</p>

Objective	Responsible Entity	Performance Measure	Acceptable Solution Corrective Actions
		<p>through continued improvement to systems, equipment and operations on site</p> <p>Water treatment systems enable appropriate recycling and re-use of water from site operations</p> <p>Stormwater runoff from disturbed areas within the site must be directed to sediment basins and / or a suitable alternative, to ensure that sediment / contaminated runoff does not impact or affect areas beyond the site</p> <p>Effective drainage structures shall be constructed and maintained at all times on access tracks and sections of the operations area in</p>	<p>suppression activities on site subject to regular testing and maintenance of tanks, dams, ponds or pumping systems</p> <p>Sediment basins must be emptied of sediment as often as necessary but on at least a biannual basis to maintain design integrity</p> <p>A vegetated zone of sufficient width shall be maintained adjacent to all drainage lines (not within the actual operations working area) as a buffer to allow for sedimentation of solids from storm-water runoff</p>

Objective	Responsible Entity	Performance Measure	Acceptable Solution Corrective Actions
		accordance with the Stormwater Quality Management Plan in <u>Attachment 4</u>	

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9.3 Noise

EMP Objective:

The activity will be operated in a way that protects the environmental values of the acoustic environment.

Performance Outcome:

Sound from this activity is not audible at a sensitive receptor and / or release of sound to the environment from this activity is managed so that adverse impacts on environmental values including health and wellbeing and sensitive ecosystems are prevented or minimised.

Environmental Values:

The locality in which the site is situated is predominantly rural, with ancillary residential dwellings on larger allotments. The residence nearest the operations (and not on the same allotment) is over 1km from the extraction site.

It is not anticipated that the surrounding area will be further developed into the foreseeable future, given agricultural activities that dominate, legislative and policy constraints.

Background noise levels in the area are affected by the agricultural activities that are undertaken in the locality, including:

- a. Cattle and horse grazing;
- b. Banana Farm operations (including use of tractors, and workers in paddocks);
- c. Sugar Cane farming, with harvesting activities in the winter / spring months; and
- d. The Bruce Highway and associated traffic noise generated, located within a 1.5km distance of the site.

Noise from activities on site will be produced by machinery utilised on site, and heavy and conventional vehicles travelling to and from the site.

Risk Assessment:

Risk of adverse impacts in the acoustic environment directly attributable to proposed development is considered moderate. In completing this risk assessment, regard has been had to the following:

- a. Processing being undertaken within a controlled environment in compliance with appropriate health standards and guidelines;
- b. Extraction and associated activities being undertaken during hours of operation consistent with general rural activities already in existence in the locality;
- c. Existing activities in the area being considered consistent with proposed extraction.

Management Strategies:

Objective	Responsible Entity	Performance Measure	Acceptable Solution Corrective Actions
The acoustic environment will not be detrimentally impacted by the development.	Owner / Operator	Noise complaints are not received The use will not increase noise for surrounding residents	Maintenance of plant and equipment as required to ensure off-site impacts removed / minimised Monthly testing of equipment as required Maintenance and testing records maintained and stored in appropriate location Appropriate noise suppression techniques / improvements to machinery utilised on site implemented

Objective	Responsible Entity	Performance Measure	Acceptable Solution Corrective Actions
			Activities do not occur 'out of hours' unless in an emergency situation or where unavoidable

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9.4 Waste Management

EMP Objective:

Any waste generated, transported or received as part of carrying out the activity is managed in a way that protects environmental values of the site and locality.

Performance Outcome:

Waste generated, transported or received is managed in accordance with an appropriate waste and resource management hierarchy.

Disposal of and / or recycling of waste for use on site is managed in a way that prevents or minimises potential or perceived impacts on the environmental values of the site and / or the locality.

Environmental Values:

Types of waste likely to be generated by the proposed development is likely to include conventional urban waste associated with office and ancillary operations, together with minimal waste associated with machinery repair / maintenance, if required.

The nature of the use is such that waste (excluding waste water) is not generated in large quantities.

The waste is not considered 'regulated waste'.

Conventional 'urban' waste generated on site (for example, packaging, office related waste) is collected, compacted and transported in an appropriate vehicle to off-site disposal sites weekly.

Risk Assessment:

Risk of adverse impacts as a result of waste generated by the proposed development are considered minimal, if any. In providing this risk assessment, regard has been had to the following:

- a. Processing is undertaken within a controlled environment in compliance with relevant standards and guidelines;

- b. The proposal seeks to establish an extraction operation on an existing rural allotment. Waste generation is likely to be minimal, if any.

Management Strategies:

Objective	Responsible Entity	Performance Measure	Acceptable Solution Corrective Actions
<p>Waste generated on site is managed in a manner that protects environmental values.</p>	<p>Owner / Operator</p>	<p>Uncontrolled discharge of untreated water and / or fluids from the site does not occur</p> <p>Impacts on health and biodiversity of ecosystems are avoided</p> <p>Extraction is to take place in a controlled environment, with releases from that environment managed and monitored</p> <p>Water treatment systems enable appropriate recycling and re-use of water from site operations, if possible</p> <p>Waste 'production' in terms of packaging and / or other associated activities on site (office etc) is minimised</p>	<p>Maintenance of plant and equipment as required to ensure off-site impacts removed / minimised</p> <p>Monthly testing of equipment as required</p> <p>Maintenance and testing records maintained and stored in appropriate location</p> <p>Water treated on site is to be utilised for appropriate irrigation activities on site subject to regular testing and maintenance of tanks, dams, ponds or pumping systems</p> <p>Waste collection areas are appropriately banded, with collection containers checked regularly to ensure seals remain in place and opportunities</p>

Objective	Responsible Entity	Performance Measure	Acceptable Solution Corrective Actions
			for leakage do not occur

In addition:

- No waste materials other than extracted material shall be stored or buried on the operations area. When operations are complete, all equipment and rubbish is to be removed and disposed of in an appropriate manner. Only materials and equipment required for the operation are permitted to be stored within the operations area, and these shall not be stored within 70 metres of any watercourse unless sediment traps are used to the satisfaction of Council / State representatives.
- A temporary waste bin shall be provided for general refuse that will be emptied on a regular basis. It shall however be emptied upon cessation of operations or as necessary and disposed of at a facility that can lawfully accept that type of waste. The waste bin shall be located at least 70 metres from any watercourse unless sediment traps are used.
- No hazardous substances shall be stored on the operations area. All chemical, fuel and oils storage facilities shall be designed and operated in accordance with *Australian Standard 1940 (2004) The Storage and Handling of Flammable and Combustible Liquids*.
- Any petroleum product spills are to be managed as per **Petroleum Spillage Action Plan (Attachment 7)**. Fuel and oil dumps, storage, filling and wash down areas shall be located in a secure, fire safe area a minimum of 70 metres from any watercourse.

10 Rehabilitation

The site shall be effectively drained.

During operations, stockpiles are to be temporarily earth bunded or sediment fenced. If the stockpile is to remain longer than six (6) months a cover of cereals and grasses is to be established. Topsoil stockpiles should be as low as possible and shall not exceed a height of more than 2 metres if practicable, to ensure the soil does not become anaerobic which may be toxic to plants.

Upon completion stockpiled topsoil and any burnt material shall be spread over all exposed areas in a manner that minimises erosion and encourages regeneration of vegetation.

The access road must be graded and drainage made effective following completion of each use of the site and any existing crossings to be repaired and drained. Temporary crossings are to be removed and crossing points rehabilitated and drained to prevent erosion of the banks.

The site must be rehabilitated to stabilise the site and where possible return aesthetic value to the land to a standard similar to the surrounding area or better, upon cessation of extraction and / or associated activities.

11 Aboriginal Cultural Heritage

The Operator/s have a Duty of Care in respect to the *Aboriginal Cultural Heritage Act 2003 (Qld)*, to take all reasonable and practicable measures to ensure that operations activity does not harm Indigenous Cultural Heritage.

Attachment 10 incorporates a copy of the Duty of Care Guidelines that must be followed on the site.

12 Monitoring and Review

During Operations

- Regular site inspections must be completed by the operator.
- Operations will also be audited and relevant operational requirements and plans shall be reviewed on the dates specified to incorporate current site information and any amendments to operations.
- A sound practice indicator assessment ('SPIs') will be conducted at the start of operations, then after one week and one month. After this time SPIs will be conducted every 12 months.
- Bunding walls will be inspected after significant rainfall events for effectiveness, and modified as required.
- Working plans will be updated progressively and Council / State Government agency inspections and feedback will be incorporated into this plan.
- Notification of significant complaints to Council and / or State agencies, especially complaints resulting from breaches to legislation, is mandatory. Minor complaints are to be recorded and kept for a minimum of five years.

Rehabilitation

- Rehabilitation areas will be sign posted after completion for protection, and revisited after predetermined periods for inspection and maintenance. Sites are to be re-inspected within 12 months for recruitment of native species, presence of pests and weeds and erosion.
- Monitoring of the rehabilitated site will be continued until deemed to be in a satisfactory state by relevant authorities.

13 Complaint Management

The Operator will ensure that Complaints regarding the site or operations on site are:

- (a) Appropriately recorded and
- (b) Investigated and
- (c) Where required, corrective action/s implemented and
- (d) Responded to in an appropriate manner.

A register for complaints received regarding site operations will be maintained, and kept on site for review for a period no less than five (5) years.

14 Emergency Preparations

Emergencies potentially affecting operations include:

- (a) Fire
- (b) Landslide
- (c) Flooding / Severe Rainfall Event
- (d) Cyclone
- (e) Workplace Accident / Incident.

Emergency response plans will be developed for all potential emergency events. Where feasible and appropriate, response drills will be undertaken annually on site.

Additional detail regarding emergency management and preparedness is provided within the Safety Management Plan at **Attachment 6**.

15 Subcontractor Management

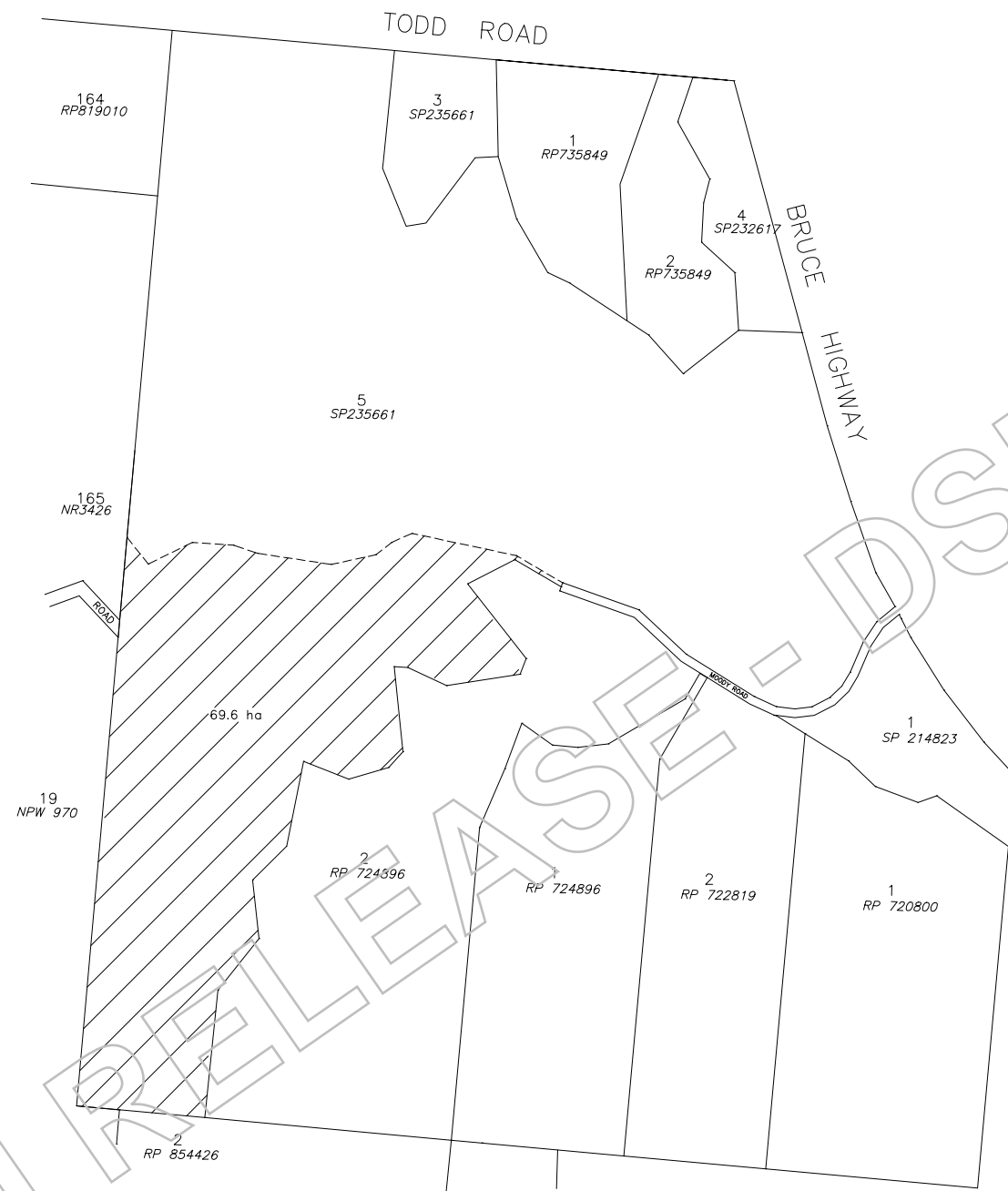
Ensuring that all parties visiting and / or working on site are appropriately trained and notified of environmental, safety and general operational obligations is a critical component of site operations.

To allow the operator to control all visitors to the site, including their plant and equipment, it will ensure that visitors, employees and contractors are suitably trained and equipped, and that their plant and equipment is safe and fit for purpose for the work being carried out.

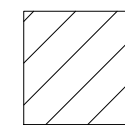
All people visiting the site, whether for private or commercial reasons, will be controlled via the contractor management program. This will be achieved by ensuring all people are made aware of their health and safety requirements, including equipment standards.

Sub-Contractors will only be engaged on demonstration of appropriate qualifications (if required); training; prior experience and management of equipment from an operational and safety perspective. Appropriate insurances must also be provided prior to entering the site.

Additional detail regarding Subcontractor / visitor management on site is provided within the Safety Management Plan at **Attachment 6**.



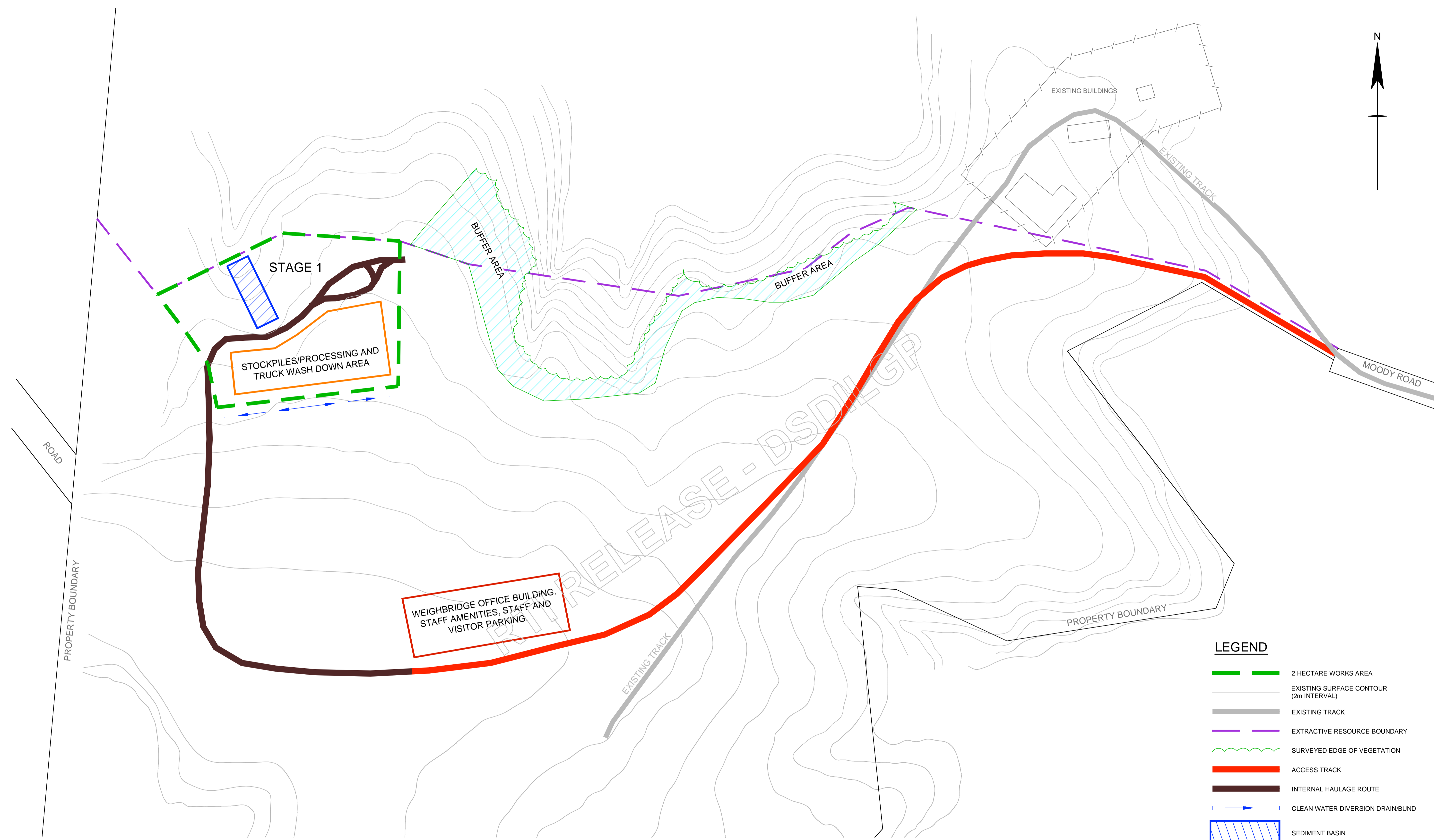
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EXTRACTIVE RESOURCE SITE

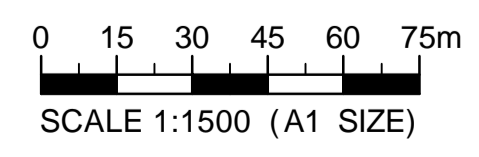
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	COUNTY NARES	SURVEYED	DATE JUL 14		FILES REF.			
client: DARALEIGH P/L	LOCAL AUTH. CASS COAST REG	DRAWN GSM	DATE JUL 14	11 Kavieng Street, Trinity Beach 4879. P.O. Box 152 Trinity Beach. Email:	PROPERTY DESC.	Lot 5 on SP 235661		
		SURVEY EXAMINED	DATE			Sch. 4(4)(6) - Disclosing personal information Fax: 0740 577 089 Sch. 4(4)(6) - Disclosing personal information	FILE	14/185
		PLAN EXAMINED Sch. 4(4)(6) - Disclosing personal information	DATE JUL 14				SHEET	1

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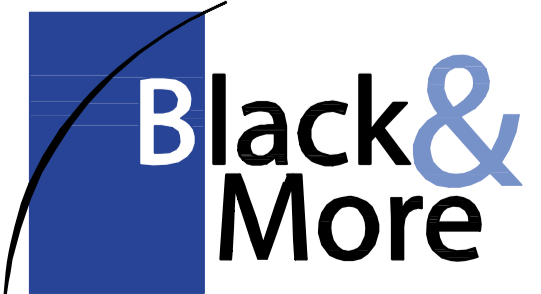
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	EXISTING TRACK
	EXTRACTIVE RESOURCE BOUNDARY
	SURVEYED EDGE OF VEGETATION
	ACCESS TRACK
	INTERNAL HAULAGE ROUTE
	CLEAN WATER DIVERSION DRAIN/BUND
	SEDIMENT BASIN
	TEMPORARY SEDIMENT BASIN



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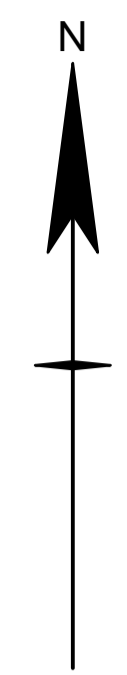
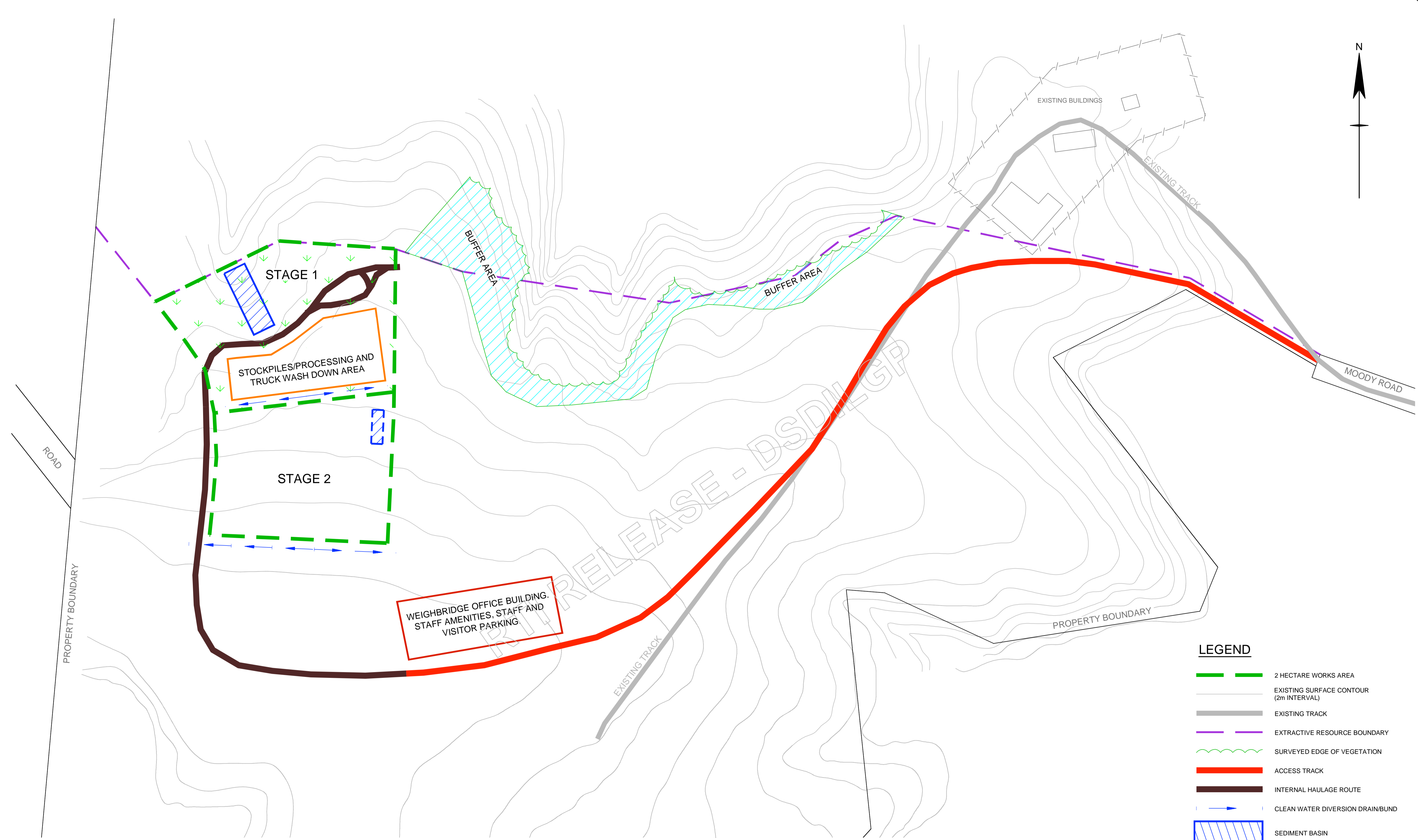
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 PO Box 999N Cairns North QLD 4870
 Telephone (07) 4031 9944
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FIGURE 7147-3

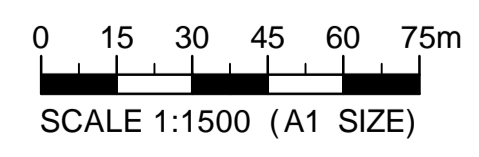
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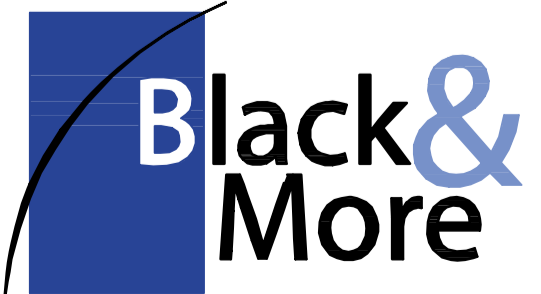
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	EXTRACTIVE RESOURCE BOUNDARY
	SURVEYED EDGE OF VEGETATION
	ACCESS TRACK
	INTERNAL HAULAGE ROUTE
	CLEAN WATER DIVERSION DRAIN/BUND
	SEDIMENT BASIN
	TEMPORARY SEDIMENT BASIN
	REHABILITATE TO MIN 70% SITE COVERAGE



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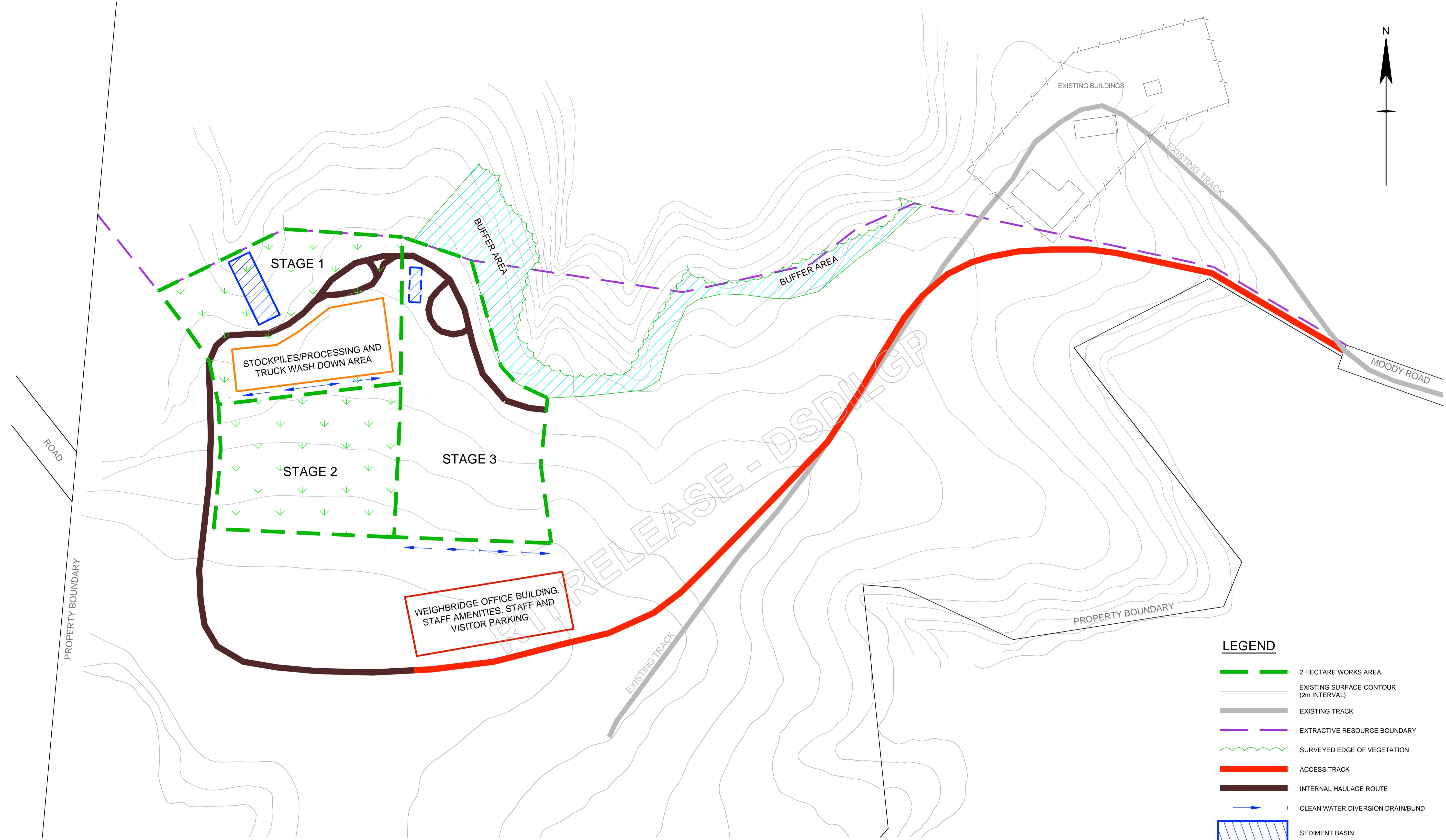
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 ABN 24 845 447 493
 93 Digger St Cairns North QLD 4870
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FIGURE 7147-4	
Date 8 DECEMBER 2014	Project Number 7147
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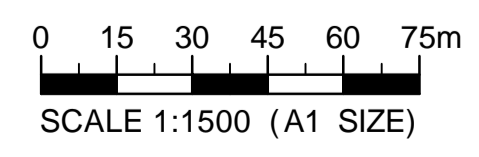
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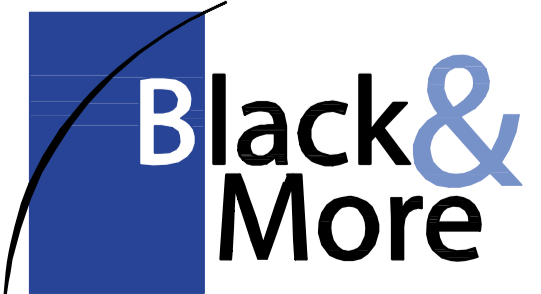
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	EXISTING TRACK
	EXTRACTIVE RESOURCE BOUNDARY
	SURVEYED EDGE OF VEGETATION
	ACCESS TRACK
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	SEDIMENT BASIN
	TEMPORARY SEDIMENT BASIN
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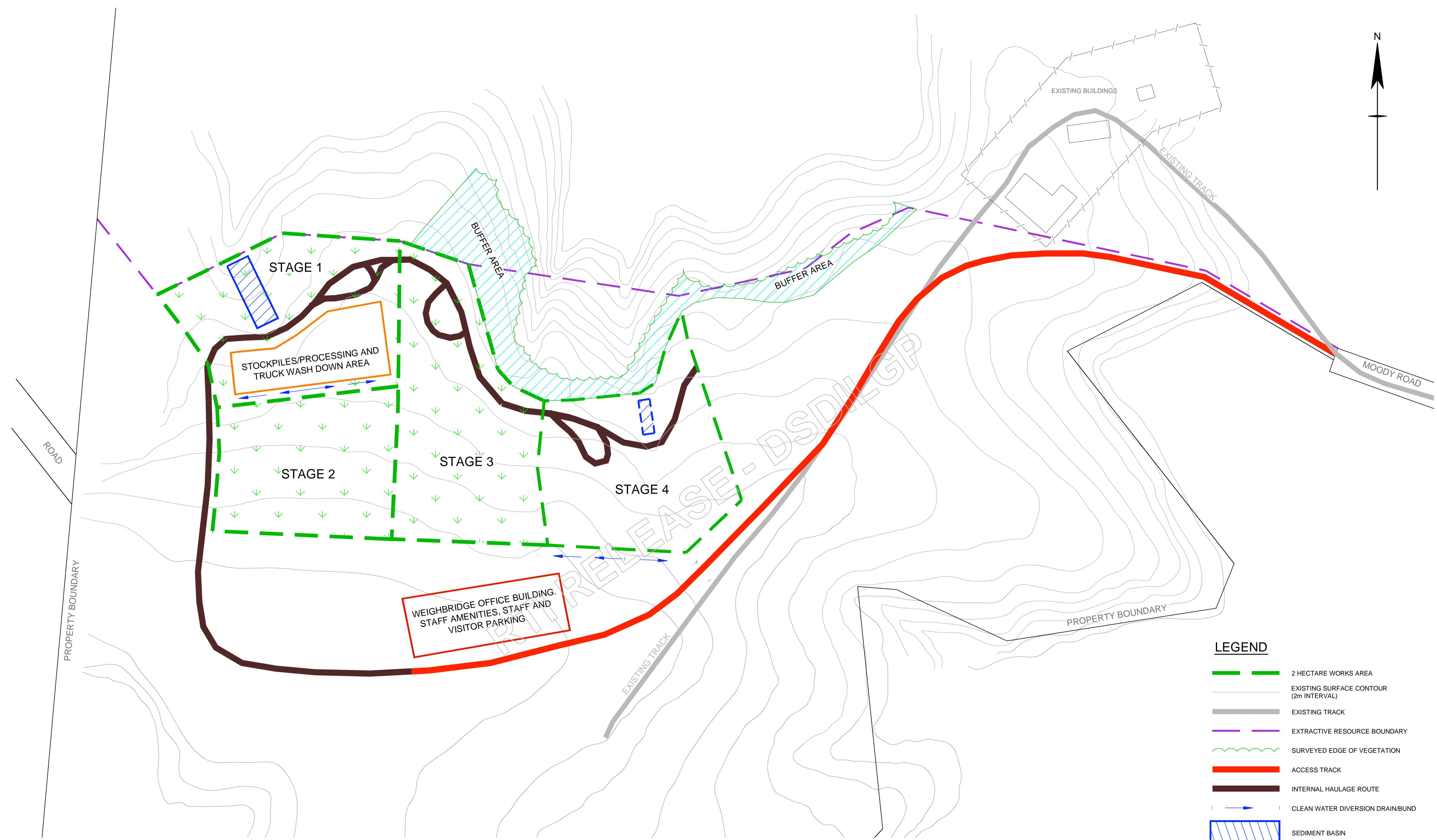


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 93 Digger St Cairns North QLD 4870
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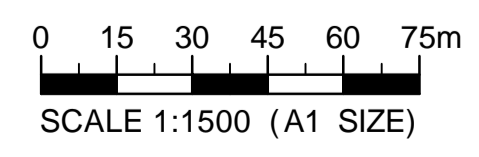
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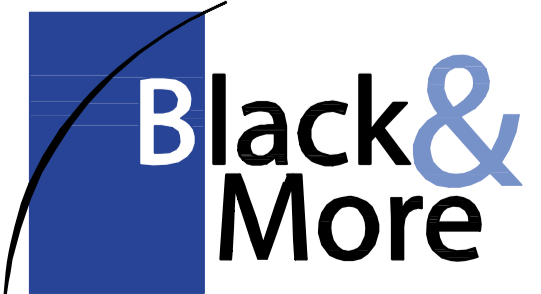
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	2 HECTARE WORKS AREA
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	EXISTING TRACK
	EXTRACTIVE RESOURCE BOUNDARY
	SURVEYED EDGE OF VEGETATION
	ACCESS TRACK
	INTERNAL HAULAGE ROUTE
	CLEAN WATER DIVERSION DRAIN/BUND
	SEDIMENT BASIN
	TEMPORARY SEDIMENT BASIN
	REHABILITATE TO MIN 70% SITE COVERAGE



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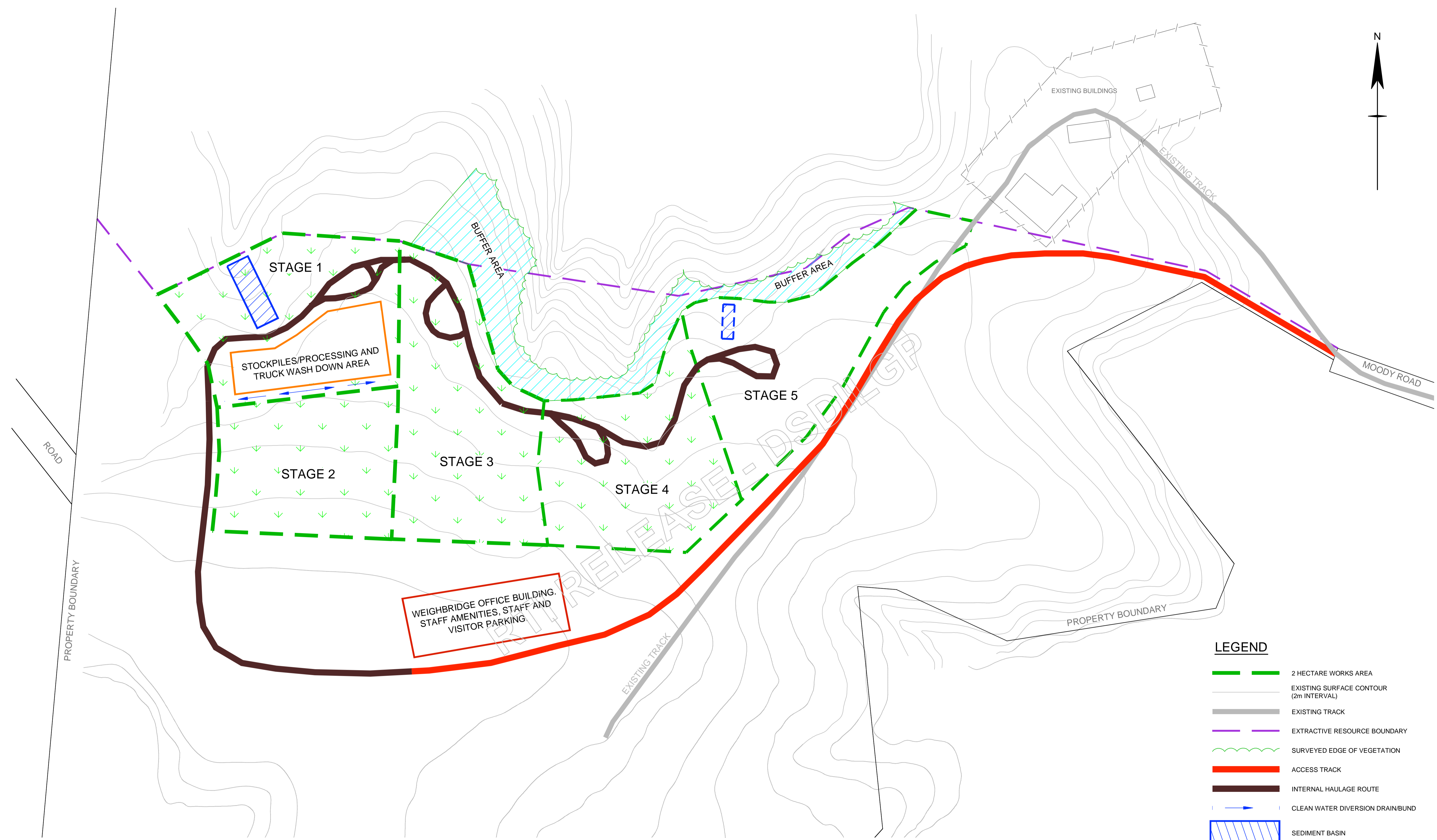
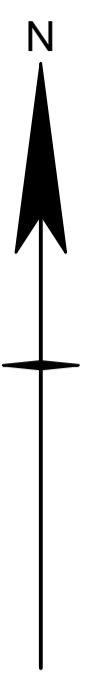


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93 Digger St Cairns North QLD 4870
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FIGURE 7147-6	
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Drawing Size A1	Scale (A1 size) 1:1500
Revision A	

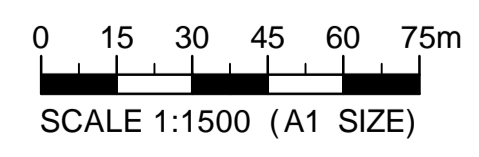
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LEGEND

	2 HECTARE WORKS AREA
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	EXISTING TRACK
	EXTRACTIVE RESOURCE BOUNDARY
	SURVEYED EDGE OF VEGETATION
	ACCESS TRACK
	INTERNAL HAULAGE ROUTE
	CLEAN WATER DIVERSION DRAIN/BUND
	SEDIMENT BASIN
	TEMPORARY SEDIMENT BASIN
	REHABILITATE TO MIN 70% SITE COVERAGE

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STAGE 5

FIGURE 7147-7	
Date 8 DECEMBER 2014	Project Number 7147
Drawing Size A1	Scale (A1 size) 1:1500
Revision A	



Dillon Quarry Vasa Views

Vegetation and Habitat Assessment

July 2014

prepared on behalf of
Gilvear Planning

Contact Information

Details

Organisation

Northern Resource Consultants Pty Limited

Contact Person

Sch. 4(4)(6) - Disclosing personal information

Phone

Email

Mail

12 Cannan Street, South Townsville QLD, 4810

ABN

55 126 894 693

Document Control

Sch. 4(4)(6) - Disclosing personal information

Details including responsible party and date

Report Preparation 3 July 2014

Technical Review 4 July 2014

Limitations of this Report

Client: Gilvear Planning

Prepared by Northern Resource Consultants (NRC)

This disclaimer brings the limitations of the investigations to the attention of the reader.

The information in this report is for the exclusive use of Gilvear Planning. Gilvear Planning is the only intended beneficiary of our work.

We cannot be held liable for third party reliance on this document. The information within this report could be different if the information upon which it is based is determined to be inaccurate or incomplete.

The results of work carried out by others may have been used in the preparation of this report. These results have been used in good faith, and we are not responsible for their accuracy.

This report has been formulated in the context of published guidelines, field observations, discussions with site personnel, and results of laboratory analyses.

NRC's opinions in this document are subject to modification if additional information is obtained through further investigation, observations or analysis. They relate solely and exclusively to environmental management matters, and are based on the technical and practical experience of environmental scientists.

They are not presented as legal advice, nor do they represent decisions from the regulatory agencies charged with the administration of the relevant Acts.

Any advice, opinions or recommendations contained in this document should be read and relied upon only in the context of the document as a whole and are considered current as of the date of this document.

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Vegetation and Habitat Assessment

1. Background

Northern Resource Consultants performed a site visit to Lot 5 on SP235661 on 27 June 2014 to conduct an assessment of the vegetation and fauna habitat within a proposed quarry site on the property.

The proposed quarry site is in close proximity to a vegetation community that is mapped as remnant vegetation on the State regional ecosystem mapping. The remnant community is mapped as regional ecosystem 7.8.1b, which has a least concern status under the *Vegetation Management Act 1999* (VMA). The remnant community is also mapped as essential habitat for the Southern Cassowary (southern population).

The site survey involved an assessment of the regional ecosystem and essential habitat mapping to determine their significance as constraints to development. The site survey included the following tasks:

- an assessment of the floristic composition and structure of the community, as well as the condition of the community and presence of pest species,
- an assessment of the presence of essential habitat factors for the Southern Cassowary as listed in the Essential Habitat Database,
- basic mapping of the remnant vegetation boundary using handheld GPS,
- site photographs to support the findings.

2. Vegetation Type

The majority of the vegetation within the assessment unit was confirmed to be remnant-quality complex mesophyll vine forest. The floristic composition and structure and the landzone features are characteristic of regional ecosystem 7.8.1, which is the regional ecosystem currently shown on the State mapping. The current regional ecosystem mapping further defines the community as 7.8.1b, but classification to the community level for this regional ecosystem is dependent on soil characteristics. The 7.8.1b community is defined by the extent of the Eubenangee soil type, and therefore classification to the community level would require further assessment and involve an analysis of soil type. In any case, it is the regional ecosystem classification and the VMA class, irrespective of the specific vegetation community, that are used to determine restrictions on native vegetation clearing in the State Development Assessment Provisions (SDAP).

Regional ecosystem 7.8.1 has a 'least concern' status under the VMA, which is the status used for determining native vegetation clearing restrictions in the SDAP. The Queensland Herbarium Regional Ecosystem Description Database provides additional information on the status of this community that is worth noting. The regional ecosystem (7.8.1) is listed as having an endangered biodiversity status, and the mapped community (7.8.1b) is considered to be "virtually extinct". It also notes that the regional ecosystem is "approaching the threshold of 'of concern' Vegetation Management Act class and therefore consideration of any further clearing should be very carefully assessed". Whilst the community currently has a 'least concern' status, this may be upgraded to a higher conservation status during future reviews of the regional ecosystem mapping and classification.

The vegetation community present on the site includes multiple strata with a relatively high diversity of species within each stratum. The main species within each stratum of the community and some representative photographs are shown in Table 1.

TABLE 1 Species observed within the assessment area

STRATUM	KEY SPECIES
Emergent	<i>Alstonia scholaris</i> , <i>Dysoxylum peltigrewianum</i> , <i>Eleocarpus grandis</i>
Tree 1	<i>Castanopsermum australe</i> , <i>Ficus</i> spp., <i>Myristica globosa</i> , <i>Pisonia umbellifera</i> , <i>Dendrocnide excelsa</i> , <i>Polyscias murrayi</i> , <i>Dysoxylum peltigrewianum</i> , * <i>Spathodea campanulata</i>
Tree 2	<i>Homalanthus novoguineensis</i> , <i>Polyscias elegans</i> , <i>Davidsonia pruruens</i> , <i>Melicope broadbentiana</i> , <i>Macaranga tanarius</i>
Shrubs and tall herbs	<i>Leea indica</i> , <i>Rivina humilis</i> , <i>Alpina caerulea</i> , <i>Solanum mauritianum</i> , * <i>Lantana camara</i> , <i>Dendrocnide excelsa</i>
Ground	<i>Polia macrophylla</i> , <i>Alocasia brisbanensis</i> , <i>Bowenia spectabilis</i> , * <i>Megathursus maximus</i>
Vines and climbers	<i>Bambusa moreheadiana</i> , <i>Piper caninum</i> , <i>Cissus repens</i> , * <i>Rubus alceifolius</i> , <i>Epipremnum pinnatum</i> , <i>Calamus radicalis</i>
Epiphytes	<i>Asplenium australasicum</i> , <i>Drynaria rigidula</i> , <i>Platycterium hillii</i>

* denotes species not native to Australia

The community contains a typical species composition and structure for lowland tropical rainforest in the region. As with much of this type of vegetation, disturbance from surrounding land uses, cyclones and a history of logging is evident throughout. The canopy is broken in some areas and the large trees that remain are generally non-preferred timber species. Non-native pest species are prevalent in some areas, although typically only on the margins of the community. Despite these disturbances, the majority of the community meets the condition thresholds for remnant vegetation status.

Whilst the majority of this community is of remnant status, there are some areas on the margins of the community that are significantly disturbed with an abundance of non-native species. Some of the vegetation on the southern margins is somewhat isolated from the main

community, with little or no understorey and a ground layer comprised of exotic pasture grasses. Other areas that have been subject to historical clearing contain a dense shrub layer of exotic species such as Lantana (*Lantana camara*), Wild Raspberry (*Rubus alceifolius*), Wild Tobacco (*Solanum mauritianum*) and Guinea Grass (*Megathyrsus maximus*) with few, if any, canopy species. Some of these areas are currently incorporated into the regional ecosystem mapping, but they do not meet the criteria for remnant vegetation. The regional ecosystem mapping could be amended to remove these highly disturbed non-remnant areas.

There is a narrow band of vegetation adjacent to the southeast margin of the community that appears to be a small plantation of cabinet timber trees, mostly Queensland Maple (*Flindersia brayleyana*). These trees have been planted and maintained outside the margin of the main community, forming a discrete band of vegetation devoid of any understorey species. Therefore, they do not represent part of the remnant community and the regional ecosystem mapping could be amended to exclude these trees.

There are some clear inaccuracies with the current regional ecosystem mapping, whereby areas that are devoid of woody vegetation have been included in the mapping. This is particularly clear for the northern and eastern edge of the community when the mapping is overlaid on aerial imagery. However, there is also a significant area on the southwest side of the community. The mapping appears to be somewhat misaligned with the remnant vegetation shown on the aerial imagery (see attached map). The error appears to be a consistent problem with the DNRM mapping in the local area. Amending the mapping to exclude these areas where no woody vegetation is present could significantly reduce the extent of mapped remnant vegetation.

Amending the vegetation mapping to exclude the aforementioned non-remnant areas would increase the area available for development without encroaching on mapped remnant vegetation. Areas that could be potentially excluded from the amended mapping are shown in that attached map.

3. Southern Cassowary Habitat

The vegetation management mapping shows that all remnant vegetation within the property is mapped as essential habitat for the Southern Cassowary. This southern population of this species is listed as Endangered under the Queensland *Nature Conservation Act 1992* and the entire population is listed as Endangered under the Commonwealth *Environmental Protection and Biodiversity Conservation Act 1999*.

The vegetation management mapping provides an extract from an essential habitat database that lists essential habitat factors for the prescribed species. Under the VMA, essential habitat is regulated vegetation-

- that has at least three essential habitat factors for the protected wildlife that must include any essential habitat factors that are listed as mandatory; or
- in which the protected wildlife, at any stage of its lifecycle, is located.

The essential habitat extract lists three factors for the Southern Cassowary and the remnant vegetation within the property is consistent with all of these factors. However, as discussed

previously, some of the mapped vegetation is not comprised of remnant quality vegetation. The essential habitat mapping will only apply to the extent of mapped remnant vegetation. Therefore, if the regional ecosystem mapping is amended, the extent of essential habitat will be reduced to the same area.

Despite the presence of these essential habitat factors listed in the database, the remnant vegetation is likely to be of low value to the Southern Cassowary. The main limiting factors with respect to the significance of the area as Southern Cassowary habitat are the size of the vegetation community and its connectivity with the surrounding landscape. The community is relatively small in size and isolated from the surrounding tracts of remnant vegetation. It does not form a corridor between areas of suitable Southern Cassowary habitat, and is mostly surrounded by vast areas of non-remnant vegetation and agricultural land.

It is possible that the Southern Cassowary could occur within the essential habitat area as it is known from the broader area. A review of extracts from the Queensland Government Wildlife Online database revealed there are eight records of the Southern Cassowary within 2km of the essential habitat area that was assessed. However, there are no records within 1km of the assessment area.

4. Vegetation Clearing Restrictions

4.1 Clearing Permits for EVNT Plants

Under the new vegetation management framework, a proponent must determine if the proposed clearing area is within a high risk area on a 'flora survey trigger map'. If the proposed clearing area does occur within a high risk area a flora survey must be undertaken to target endangered, vulnerable and near threatened plants (EVNT plants). If EVNT plants are identified within the proposed clearing area a clearing permit will be required. If EVNT plants are not present or can be avoided by at least 100m an exempt clearing notification form must be submitted. Clearing vegetation outside a high risk area generally does not require a flora survey or a clearing permit. However, an EVNT plant cannot knowingly be cleared or impacted without a clearing permit.

The remnant vegetation within close proximity to the proposed quarry site is outside the high risk area on the flora survey trigger map (see attached map). However, a significant portion of the property is within a high risk area (see map). Targeted EVNT plant surveys may be required for clearing some vegetation on the property to determine whether a clearing permit is required.

No EVNT plant species were recorded during the vegetation and habitat assessment. However, further survey may be required utilising targeted survey techniques for EVNT plant species. Site observations revealed that the majority of the land within the high risk area is dominated by exotic pasture species, with some highly disturbed non-remnant native vegetation within steep gullies.

4.2 Remnant Vegetation

The relevant restrictions for clearing native vegetation are defined in Module 8 of the SDAP. All remnant vegetation within the property has a 'least concern' VMA class and therefore the only relevant performance outcome requirements in Module 8 of the SDAP are related to

connectivity. The performance outcome for the value of connectivity with respect to extractive industries requires that vegetation is retained that:

- is of sufficient size and configured in a way that maintains ecosystem functioning
- remains in the landscape despite threatening processes

The acceptable outcomes for maintaining connectivity are listed in Table 3 of Module 8, and these require that clearing does not:

- occur in areas of vegetation that are less than 10 hectares
- reduce the extent of vegetation to less than 10 hectares
- occur in areas of vegetation less than 100m wide
- reduce the width of vegetation to less than 100m
- occur where the extent of vegetation on the subject lot is reduced to or less than 30 per cent of the total area of the lot

Under these performance outcomes, disturbance to the remnant vegetation area at the north of the property could be considered to have an impact on connectivity. However, it is arguable that this area already has a low value for connectivity and it does not form a link between any habitat areas. Depending on the size of the disturbance, it is possible that value of connectivity and the capacity for this community to persist in the landscape and maintain ecosystem function would not be significantly impacted at any scale.

As discussed previously, it is worth noting that the Queensland Herbarium has identified regional ecosystem 7.8.1 as “approaching the threshold of ‘of concern’ VMA class”. Therefore projects involving the clearing of this vegetation community may be subject to a higher level of scrutiny. Furthermore, this community may be changed to a higher conservation status under the VMA and therefore have more restrictions on clearing.

4.3 Essential Habitat

The full extent of remnant vegetation on the property contains all essential habitat factors listed for the Southern Cassowary. The clearing of remnant vegetation is therefore subject to the requirements of performance objective PO8 in the extractive industry section of Module 8 of the SDAP. Performance object PO8 requires that the current extent of essential habitat is maintained. If the clearing of essential habitat cannot be avoided for the proposed development, there are three acceptable outcomes described in Module 8 of the SDAP:

1. Clearing in essential habitat does not exceed 10 metres width or a total of 0.5 hectares
2. Clearing only occurs where an area of essential habitat is isolated and small in size and at risk from threatening processes, for the prescribed species

3. Where it can be demonstrated that clearing cannot be avoided, and the extent of clearing has been minimised, an environmental offset is provided for any significant residual impact from the clearing of essential habitat.

If the clearing limits of item 1 are to be exceeded, it is considered that there is a strong argument for item 2. The remnant vegetation community is small in size, isolated from the remnant vegetation in the surrounding area and has low connectivity value. Given the small size and isolation of the habitat, it is unlikely that clearing part of this habitat would result in a significant residual impact to the Southern Cassowary. The area is unlikely to be supporting habitat that is critical to the survival of the species and clearing of part of this habitat is unlikely result in a significant decrease to the availability of quality habitat to the extent that the species is likely to decline.

The provision of an environmental offset is a viable option for any significant residual impact from the clearing of essential habitat. However, depending on the scale of the disturbance, it is likely arguable residual impacts would not be significant.

The new environmental offsets framework in Queensland commenced on 1 July 2014. Under the new framework there are now multipliers relevant to each matter of State environmental significance for financial settlement offsets. A multiplier of four is applied for impacts to areas of essential habitat. As an indication of the cost associated with a financial settlement offset at Vasa Views, the online calculator was used to determine the cost of offsetting one hectare of essential habitat at this location. The total cost of the financial offset settlement for one hectare was \$147,752. This does not, however, represent the cost per hectare, as administrative costs will vary depending on the size of the area.

5. Conclusions

The majority of the vegetation shown on the regional ecosystem mapping within the property is remnant vegetation characteristic of regional ecosystem 7.8.1. However, there are some parts of the mapping that could be amended to reduce the level of environmental constraints to the development area. Any reductions to the extent of remnant vegetation mapping will result in an equal reduction to the extent of essential habitat.

The mapped essential habitat areas represent the most significant constraint to development with respect to the clearing of native vegetation. The most feasible approach to minimise constraints related to essential habitat for the development application is considered to be an argument in support of item 2 in section 4.3 of this document.

6. Site Photographs

PHOTOGRAPH	DESCRIPTION
	<p>Assessment Site 1: Disturbed non-remnant vegetation. Low species diversity and numerous exotic species.</p>
	<p>Assessment Site 2: Remnant 7.8.1 vegetation, good condition, complex structure and composition of species listed in Table 1.</p>
	<p>Assessment Site 3: Steep rocky descent on margin. Vegetation similar to assessment site 2, but with a greater number of species that favour wetter rocky areas (e.g. <i>Ficus</i> spp. and ferns)</p>

PHOTOGRAPH	DESCRIPTION
	<p>Assessment Site 4: Steep slope with exposed rock. <i>Ficus</i> spp. common in rock areas. Canopy height and species diversity increases away from the slope.</p>
	<p>Southern margin of remnant vegetation showing a strip of plantation cabinet timber trees</p>
	<p>Margin of remnant vegetation showing isolated trees (mostly <i>Alstonia scholaris</i>) that do not form part of the remnant community.</p>
	<p>Disturbed open area near the margin of the remnant community with limited canopy and shrub/ground layer dominated by exotic pest species.</p>









GILVEAR PLANNING

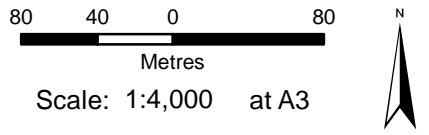
VASA VIEWS QUARRY

VEGETATION ASSESSMENT

Legend

-  Cadastral Boundary
-  Vegetation Assessment
-  Remnant Vegetation Boundary
-  Amended Remnant Boundary
-  Flora Survey Trigger
-  Watercourse

Notes:
 Land Tenure and Cadastre from
 IQ_QLD_CADASTRETENURE_\
 DCDB_CUR (Cairns and Charters
 Towers Regional Council, 2014)
 Hydrology from: IQ_VM_\
 WATERCOURSE_\
 MAP_100K_250K.shp
 © State
 of Queensland

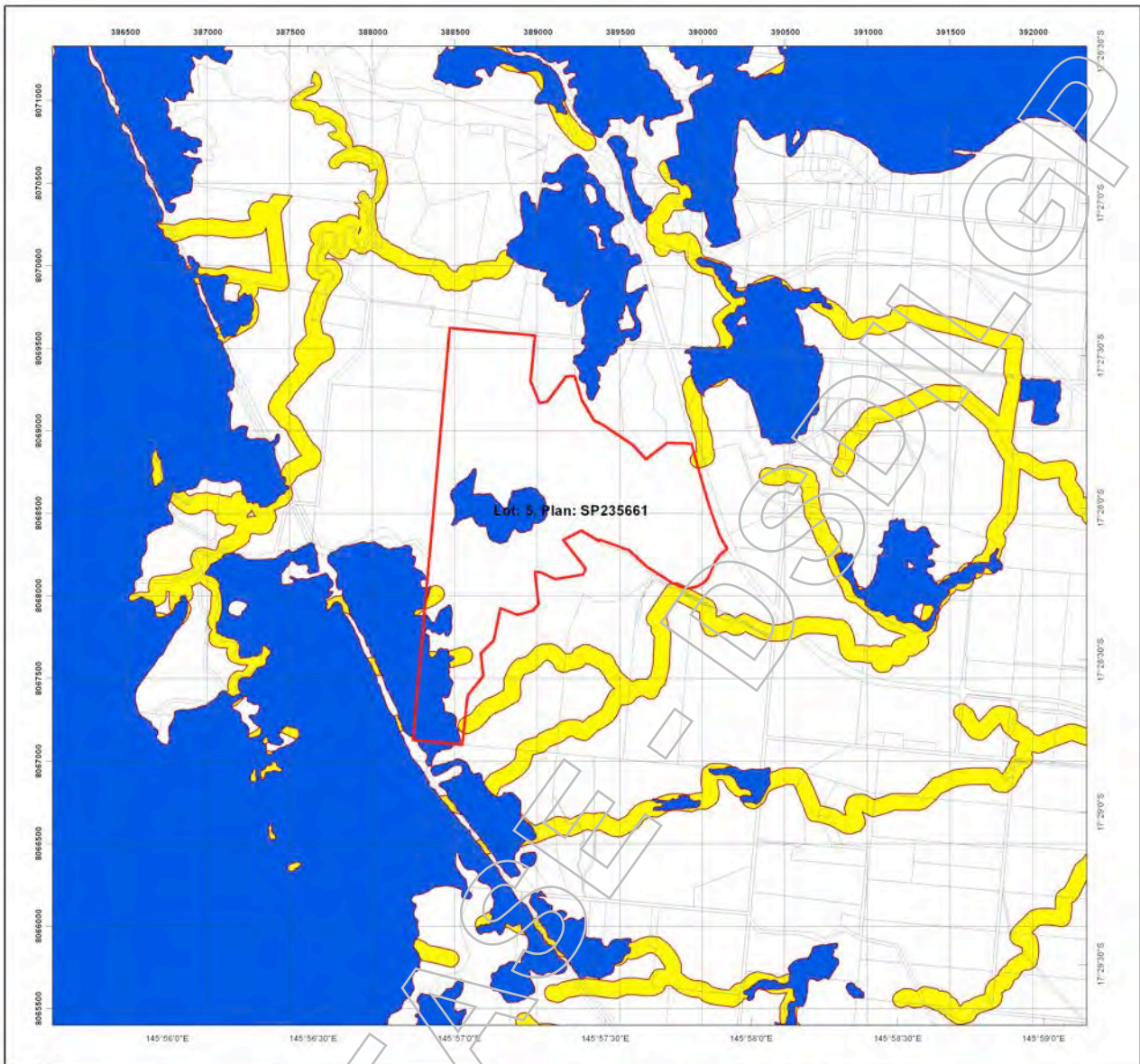


Coordinate System: GCS GDA 1994
 Datum: GDA 1994

Date: 3/07/2014



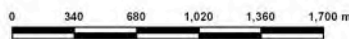
Document Path: C:\GIS\Projects\Vasa\Views\NRC_data\maps_mxd\Vegetation_assessment2.mxd



Regulated Vegetation Management Map

Legend

- Lot and Plan
- Category A area (Vegetation offsets/compliance notices/VDecs)
- Category B area (Remnant vegetation)
- Category C area (High-value/regrowth vegetation)
- Category R area (Reef regrowth/watercourse vegetation)
- Category X area (Vegetation not regulated under the VMA)
- Water
- Area not categorised
- Cadastral line
- Property boundaries shown are provided as a locational aid only



This product is projected into:
GDA 1994 MGA Zone 55

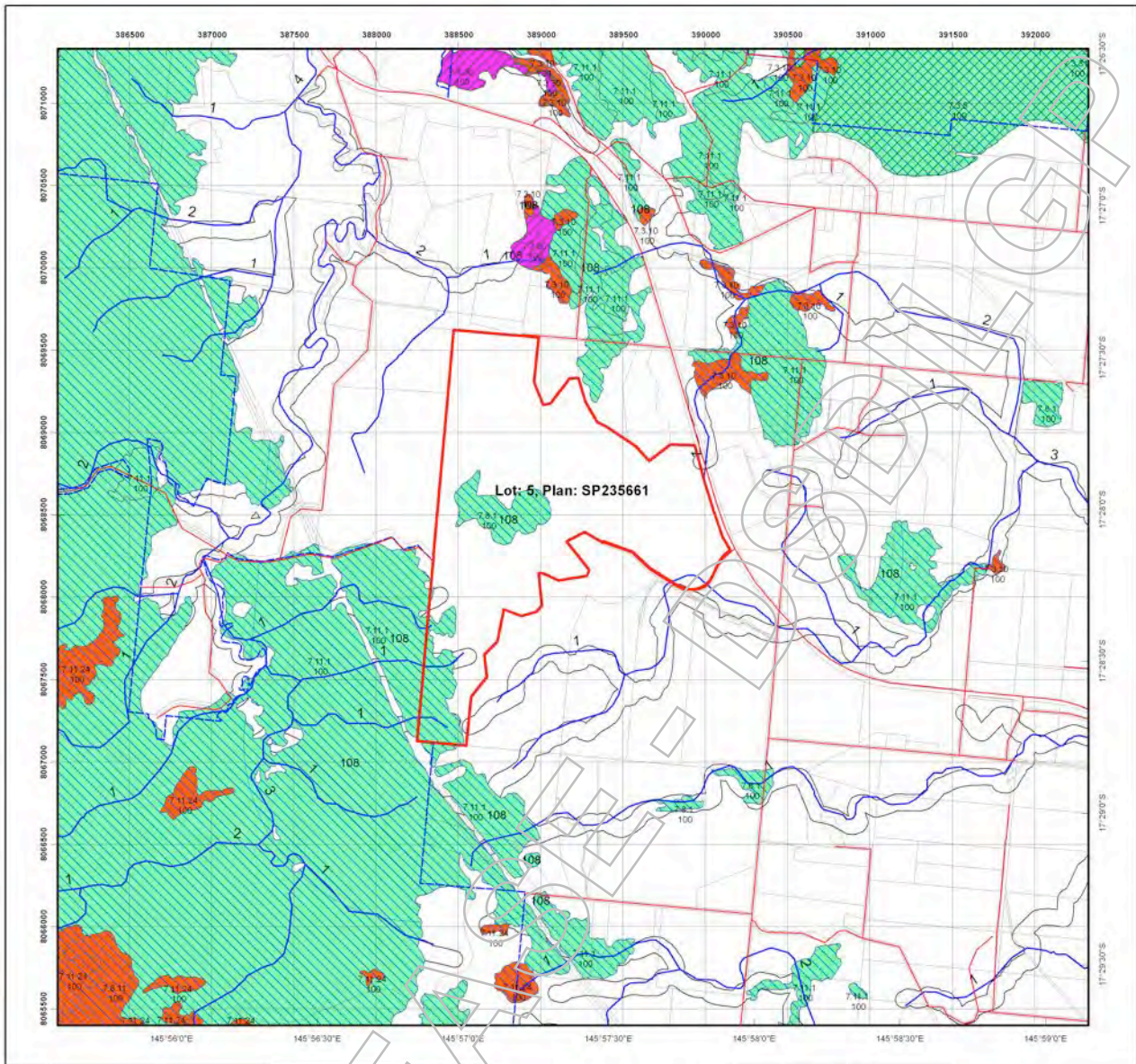
Disclaimer:

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Additional information required for the assessment of vegetation values is provided in the accompanying "Vegetation Management Supporting map". For further information go to the web site: www.dnrm.qld.gov.au or contact the Department of Natural Resources and Mines.

Digital data for the regulated vegetation management map is available from the Queensland Spatial Portal at <http://www.information.qld.gov.au/>

This map is updated on a monthly basis to ensure new PMAVs are included as they are approved.



Vegetation Management Supporting Map

Legend

- Lot and Plan
- Category A or B area containing endangered regional ecosystems
- Category A or B area containing of concern regional ecosystems
- Category A or B area that is a least concern regional ecosystem
- Category A or B area containing remnant vegetation
- Category A or B area under Section 20A(1)
These areas are edged in yellow and filled with the remnant RE Status
- Category C area containing endangered regional ecosystems
- Category C area containing of concern regional ecosystems
- Category C area that is a least concern regional ecosystem
- Category C area containing high value regrowth vegetation
- Category C area under Section 20A(1)
These areas are edged in purple and filled with the remnant RE Status
- Non Remnant
- Water
- Wetland on the vegetation management wetlands map
- Essential habitat on the essential habitat map
- Essential habitat species record
- | Watercourse on the vegetation management watercourse map
(Stream order shown as black number against stream where available)
- Roads
- © Pitney Bowes Software Pty Ltd
- National Parks, State Forest and other reserves
- Cadastral lines
- Property boundaries shown are provided as a locational aid only

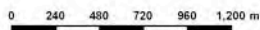
Labels for Essential Habitat are centred on the area of enquiry.

Regional ecosystem linework has been compiled at a scale of 1:100 000, except in designated areas where a compilation scale of 1:50 000 is available. Linework should be used as a guide only. The positional accuracy of RE data mapped at a scale of 1:100 000 is +/- 100 metres.

Disclaimer:
While every care is taken to ensure the accuracy of this product, the Department of Natural Resources and Mines and Pitney Bowes Software, makes no representations or warranties about its accuracy, reliability, completeness or suitability or any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the product being inaccurate or incomplete in any way and for any reason.

Additional information may be required for the purposes of land clearing or assessment of a regional ecosystem map or PMAV applications. For further information go to the web site: www.dnrm.qld.gov.au or contact the Department of Natural Resources and Mines.

Digital data for the vegetation management watercourse map, vegetation management wetlands map, essential habitat map and the vegetation management remnant and regional ecosystem map are available from the Queensland Spatial Portal at <http://www.information.qld.gov.au/>



This product is projected into:
GDA 1994 MGA Zone 55

Vegetation Management Act 1999 - Extract from the essential habitat database - version 4.0

Essential habitat is required for assessment under the:

- State Development Assessment Provisions - Module 8: Native vegetation clearing which sets out the matters of interest to the state for development assessment under the *Sustainable Planning Act 2009*; and
- Self-assessable vegetation clearing codes made under the *Vegetation Management Act 1999*

Essential habitat for one or more of the following species is found on and within 1.1 km of the identified subject lot/s or on and within 2.2 km of an identified coordinate on the accompanying essential habitat map.

This report identifies essential habitat in Category A, B and Category C areas.

The numeric labels on the essential habitat map can be cross referenced with the database below to determine which essential habitat factors might exist for a particular species.

Essential habitat is compiled from a combination of species habitat models and buffered species records.

The Department of Natural Resources and Mines website (<http://www.dnrm.qld.gov.au>) has more information on how the layer is applied under the State Development Assessment Provisions - Module 8: Native vegetation clearing and the *Vegetation Management Act 1999*.

Regional ecosystem is a mandatory essential habitat factor, unless otherwise stated.

Essential habitat, for protected wildlife, means a category A area, a category B area or category C area shown on the regulated vegetation management map-

- (a) that has at least 3 essential habitat factors for the protected wildlife that must include any essential habitat factors that are stated as mandatory for the protected wildlife in the essential habitat database; or
- (b) in which the protected wildlife, at any stage of its life cycle, is located.

Essential habitat identifies endangered or vulnerable native wildlife prescribed under the *Nature Conservation Act 1994*.

Essential habitat in Category A and B (Remnant vegetation species record) areas:1100m Species Information - (no results)

Essential habitat in Category A and B (Remnant vegetation species record) areas:1100m Regional Ecosystems Information - (no results)

Essential habitat in Category A and B (Remnant vegetation) areas:1100m Species Information - (no results)



Essential habitat in Category A and B (Remnant vegetation) areas:1100m Regional Ecosystems Information - (no results)

Essential habitat in Category C (High value regrowth vegetation) areas:1100m Species Information - (no results)



Essential habitat in Category C (High value regrowth vegetation) areas:1100m Regional Ecosystems Information - (no results)

Attachment 7 -Petroleum Spillage Action Plan

Minor Spillage (no free flowing liquid)

1. Soak up spillage with “Envirosorb”, crushed bark, sawdust or sand.
2. (a) If contaminated with traces of metal. (eg. sump oil)  Take off site and dispose in an industrial bin.
- (b) If free of traces of metal. (eg. distillate)  Store “Envirosorb” to allow reactivation
OR
 Spread out crushed bark, sawdust or sand away from watercourses to aerate and rehabilitation.

Major Spillage (free flowing liquid)

1. Contain spillage as quickly as possible. Where possible pump/bucket up into containers for appropriate treatment, recycling or disposal off site.
2. Soak up remaining spillage with “Envirosorb”, crushed bark, sawdust or sand.
3. (a) If contaminated with traces of metal. (eg. sump oil)  Take off site and dispose in industrial bin.
- (b) If free of traces of metal. (eg. distillate)  Store ‘Envirosorb” to allow reactivation
OR
 Spread out crushed bark, sawdust or sand away from watercourses to aerate and rehabilitation.
4. Notify relevant authority

Attachment 8 -PRELIMINARY Draft Rehabilitation Plan

Dillon's Extractive Operations

1. PROJECT DESCRIPTION

Dillon's Extractive Operations is located north of Innisfail, with access via the Bruce Highway and Moody Road.

Rock material will be recovered from the site by extraction of overburden and below the surface, above the hard rock face, not requiring blasting at this stage. Material will be crushed and then screened to required sizes. Product will be stored in stockpiles located on the site.

Extraction operations are initially proposed, and anticipated to last not less than 10years at this preliminary stage. Once extraction commences on site, it is anticipated that quarrying may be possible, and further approval/s obtained for that use.

However, should extraction reveal quarrying is not an appropriate undertaking for the site, the site will be rehabilitated following completion of current activities.

2. PURPOSE OF THIS PLAN

Dillon's Extractive Operations Rehabilitation Plan (the Plan) has been prepared as an attachment to the Environmental Management Plan (EMP).

The purpose of this Plan is to provide guidance to Operator in rehabilitating the site to a level that encourages natural regeneration of the disturbed area and that is considered satisfactory by relevant authorities over time.

This Plan should be read in conjunction with any relevant approval / licence conditions issued for the project, and where there is any inconsistency with this Plan and approval / licence conditions, the approval /licence conditions shall take precedence.

This Plan considers 'best practice' in environmental standards available and incorporates the latest technology/processes and community expectations known at the time of preparing this Plan.

3. SITE ESTABLISHMENT/CLEARING

During site establishment and clearing activities the following should be considered:

1. Minimise area to be cleared.
2. Stockpile all cleared vegetation for use in rehabilitation.
3. Recover topsoil (generally the surface soil to a depth of approximately 150 mm) and stockpile this resource for use in rehabilitation.
4. Recover overburden or subsoil separately if possible.

4. STOCKPILE MANAGEMENT

Stockpile topsoil and subsoil/overburden separately.

The topsoil stockpile should be managed as follows:

1. Material should exclude sub-soil/overburden (where possible);
2. Locate stockpile away from drainage lines and in a location where the stockpile can remain undisturbed until it is required for rehabilitation. Consider installing drainage control upslope of the stockpile to divert water around the material (eg diversion drain/ bank), and sediment control measures around the base of the stockpile to capture material mobilised during rainfall events (eg sediment fence/bund wall);
3. Stockpile loosely, avoid compaction;
4. The topsoil stockpile height should not exceed 1.5 m high. Slopes may be at the angle of repose (the angle that it will stand naturally);
5. Should the topsoil not be used for more than 2 months, a vegetative cover should be established to protect the material from loss (eg wind/water erosion) and to assist in maintaining the viability of the material. A sterile grass cover is recommended.

Subsoil/overburden stockpiles should follow items 2 and 3 for topsoil stockpiles.

5. PROFILING

1. Following excavation of material from the site, the area will be profiled (if possible, dependent upon face location) to direct water to a section of the site in a manner that prevents the majority of the area being inundated for extended periods of time during the wet season.
2. Drainage control will be installed (where required) to ensure that the flow of water from the Operations area minimises erosion (eg. drainage paths/lines should not exceed 2%; use rock check dams, rock mulching etc).

6. SPREADING OVERBURDEN, TOPSOIL AND VEGETATION

Following completion of operations in the relevant area (potentially following extraction and any later quarrying that may be subject to separate approvals), the following applies:

1. Spread overburden (if available) over the site and batters;
2. Evenly spread the topsoil over the site and batters (to a depth of approximately 100 mm);
3. Final profiling of the topsoil must be parallel to the contour to minimise erosion;
4. Some timber (stockpiled from the initial clearing) could be spread over the pit floor to enhance the site habitat values for fauna. Timber should be spread parallel to the contours to slow water and minimise erosion.

7. REHABILITATION OF ACCESS TRACKS AND OTHER DISTURBED AREAS

1. After the site has been rehabilitated, the haul road, access track and other disturbed areas (eg. stockpile areas) shall be rehabilitated.
2. Tracks and other compacted areas should be ripped parallel to the contours (across slope). Where this is not practical it is preferable to leave these areas un-ripped.

3. Should the tracks be located on sloping ground of greater than 2%, low whoa-boys (eg rollover cross banks or water bars) can be constructed parallel to the contour to reduce flow velocities.
4. If there is any topsoil and/or stockpile vegetation material left over after rehabilitation of the site, this material can be spread over the tracks/other disturbed areas to aid natural regeneration.
5. Lastly, the access point to the area should be decommissioned.

8. SCHEDULE OF WORKS

Progressive rehabilitation will be undertaken as respective sections of the site are fully exhausted. Where possible, topsoil and vegetation removed from newly exposed areas will be directly placed on areas available for rehabilitation.

Please note: Rehabilitation may be delayed pending further works / approvals issued across the site after extraction operations are complete.

Attachment 9 - Typical Machinery List

The equipment listed is a typical equipment type that has the capacity to handle the task involved.

TYPE	DETAILS

Additional information regarding operators and the like is available within the Safety Management Plan at Attachment 6.

RTI DRAFT REVIEW DSDILGP

Aboriginal Cultural Heritage Act 2003

Duty of Care Guidelines

Gazettal Date: 16 April 2004

PART 1 – Information to Assist in Using these Guidelines

1.0 Preamble

1.1

The *Aboriginal Cultural Heritage Act 2003* (“the Act”) commenced on 16 April 2004. The Act binds all persons, including the State, and is intended to provide effective recognition, protection and conservation of Aboriginal cultural heritage.

Principles Underlying the *Aboriginal Cultural Heritage Act 2003*

1.2

The following fundamental principles underlie the Act’s main purpose:

- the recognition, protection and conservation of Aboriginal cultural heritage should be based on respect for Aboriginal cultural and traditional practices;
- Aboriginal people should be recognised as the primary guardians, keepers and knowledge holders of Aboriginal cultural heritage;
- it is important to respect, preserve and maintain knowledge, innovations and practices of Aboriginal communities and to promote understanding of Aboriginal cultural heritage;
- activities involved in recognition, protection and conservation of Aboriginal cultural heritage are important because they allow Aboriginal people to reaffirm their obligations to “law and country”;
- there is a need to establish timely and efficient processes for the management of activities that may harm Aboriginal cultural heritage.

Distinction between Aboriginal cultural heritage and Native Title

1.3

Aboriginal cultural heritage values should not be confused with native title. As with non-Aboriginal heritage values, Aboriginal cultural heritage can exist on an area regardless of the nature of land tenure. The existence of Aboriginal cultural heritage in an area does not mean that native title exists over that area.

Definition of Aboriginal cultural heritage

1.4

The Act defines Aboriginal cultural heritage as anything that is:

- a significant Aboriginal area in Queensland; or
- a significant Aboriginal object; or
- evidence, of archaeological or historic significance, of Aboriginal occupation of an area of Queensland.

A significant Aboriginal area or object must be particularly significant to Aboriginal people because of either or both of the following:

- Aboriginal tradition;
- the history, including contemporary history, of any Aboriginal Party for the area.

Aboriginal cultural heritage areas do not have to contain physical markings

1.5

In the same way as non-Aboriginal heritage values are capable of protection, it is not necessary for an area to contain markings or other physical evidence indicating Aboriginal occupation or otherwise denoting the area's significance for the area to be protected as a significant Aboriginal area under the Act.

Role of the Aboriginal Party

1.6

The views of the Aboriginal Party for an area are key in assessing Aboriginal cultural heritage and managing any activity likely to excavate, relocate, remove or harm Aboriginal cultural heritage.

1.7

In assessing a significant Aboriginal area the legislation provides that regard may also be had to authoritative anthropological, biogeographical, historical and archaeological information.

1.8

Before an area can be registered on the Aboriginal Cultural Heritage Register, the person seeking to register the area must be able to demonstrate that the application is consistent with this information.

1.9

Appropriately qualified persons such as anthropologists, archaeologists and historians can also provide valuable assistance in this regard.

Due Diligence – The Precautionary Approach

1.10

The Act requires that a person must exercise due diligence and reasonable precaution before undertaking an activity which may harm Aboriginal cultural heritage.

Aboriginal cultural heritage duty of care

1.11

Section 23(1) of the Act states that a person who carries out an activity must take all reasonable and practicable measures to ensure the activity does not harm Aboriginal cultural heritage (the "cultural heritage duty of care").

1.12

Section 23(2) of the Act states that without limiting the matters that may be considered by a Court required to decide whether a person has complied with the cultural heritage duty of care in carrying out an activity, the Court may consider the following:

- the nature of the activity, and the likelihood of its causing harm to Aboriginal cultural heritage;
- the nature of the Aboriginal cultural heritage likely to be harmed by the activity;
- the extent to which the person consulted with Aboriginal parties about the carrying out of the activity, and the results of the consultation;

- whether the person carried out a study or survey, of any type, of the area affected by the activity to find out the location and extent of the Aboriginal cultural heritage, and the extent of the study or survey;
- whether the person searched the database and register for information about the area affected by the activity;
- the extent to which the person complied with cultural heritage duty of care guidelines;
- the nature and extent of past uses in the area affected by the activity.

Meeting the Duty of Care

1.13

Section 23 of the Act provides that a person who carries out an activity is taken to have complied with the cultural heritage duty of care in relation to Aboriginal cultural heritage if –

(a) the person is acting –

- under the authority of another provision of this Act that applies to the Aboriginal cultural heritage; or
- under an approved Cultural Heritage Management Plan that applies to the Aboriginal cultural heritage; or
- under a native title agreement or another agreement with an Aboriginal Party, unless the Aboriginal cultural heritage is expressly excluded from being subject to the agreement; or
- in compliance with gazetted cultural heritage duty of care guidelines; or
- in compliance with native title protection conditions, but only if the cultural heritage is expressly or impliedly the subject of the conditions; or

(b) the person owns the Aboriginal cultural heritage, or is acting with the owner's agreement; or

(c) the activity is necessary because of an emergency, including for example, a bushfire or other natural disaster.

Duty of Care Guidelines

1.14

Section 28 of the Act states that the Minister may by gazette notice notify guidelines ("cultural heritage duty of care guidelines") identifying reasonable and practicable measures for ensuring activities are managed to avoid or minimise harm to Aboriginal cultural heritage.

1.15

There is no offence in not complying with the cultural heritage duty of care guidelines. However, complying with the guidelines affords strict compliance with the cultural heritage duty of care. Where Aboriginal cultural heritage is harmed by an activity, and the activity is not otherwise covered by sections 23(3), 24(2), 25(2) or 26(2) of the Act, failure to have complied with the guidelines may result in prosecution under the Act. Maximum penalties for contravening the cultural heritage duty of care are \$110 000 for an individual and \$1 100 000 for a corporation.

Another Option for Legal Protection

1.16

The Act expressly recognises that the views of the Aboriginal Party for an area are key in assessing and managing any activity which is likely to harm Aboriginal cultural heritage. Under the Act, there is provision for voluntary agreements and Cultural Heritage Management Plans with the relevant Aboriginal Party. You have a complete defence under the Act in relation to any activity undertaken in accordance with such agreements or Cultural Heritage Management Plans.

Other Information

1.17

Ask First – A guide to respecting Indigenous heritage places and values, released by the Australian Heritage Commission, provides a practical guide to consulting and negotiating with Aboriginal people about their cultural heritage. Available from the Australian Heritage Commission website:

<http://www.ahc.gov.au/publications/indigenousheritage/index.html>

1.18

The Land Court of Queensland can assist in the provision of mediation in relation to Aboriginal cultural heritage matters.

1.19

Persons and organisations involved in activities likely to impact on Aboriginal cultural heritage may wish to consider strategic planning in relation to cultural heritage as well as training, monitoring, audit and review of their cultural heritage management systems.

1.20

Should you require assistance in determining your responsibilities under these guidelines, you should contact the Cultural Heritage Unit, Department of Aboriginal and Torres Strait Islander and Multicultural Affairs on (07) 3247 6212.

PART 2 – Guidelines under section 23(1) of the *Aboriginal Cultural Heritage Act 2003*: reasonable and practicable measures for ensuring activities are managed to avoid or minimise harm to Aboriginal cultural heritage

2.0 Introduction

2.1

These guidelines have been gazetted as cultural heritage duty of care guidelines by the Minister responsible for the administration of the legislation under section 28 of the *Aboriginal Cultural Heritage Act 2003* and identify reasonable and practicable measures for ensuring that activities are managed to avoid or minimise harm to Aboriginal cultural heritage in a way that meets the duty of care requirements under section 23 of the *Aboriginal Cultural Heritage Act 2003*.

2.2

These guidelines recognise that it is unlikely that Aboriginal cultural heritage will be harmed where:

- the current or proposed activity is on an area previously subject to significant ground disturbance and the activity will impact only on the area subject to the previous disturbance; or
- the impact of the current or proposed activity is unlikely to cause any additional harm to Aboriginal cultural heritage than that which has already occurred¹.

2.3

It is important to note that these guidelines do not permit activities which, although causing no surface disturbance or no additional surface disturbance to an area, may harm scarred or carved trees or rock art without the agreement of the Aboriginal Party for the area or a Cultural Heritage Management Plan undertaken pursuant to Part 7 of the Act.

3.0 Definitions

3.1

The definitions used in the Act apply in relation to these guidelines.

3.2

In addition to the definitions used in the Act, the following definitions are used within these guidelines:

“Cultural Heritage Find,” means a significant Aboriginal object or, evidence of archaeological or historic significance of Aboriginal occupation of an area of Queensland, or Aboriginal human remains, found in the course of undertaking an activity covered by these guidelines.

¹ This is not to say that a particular area may not continue to have importance under Aboriginal tradition or history even though it has been subject to significant ground disturbance. The Melbourne Cricket Ground, for example, is located on the site of an important Aboriginal meeting place – whilst this important value continues to exist it cannot generally be further harmed by maintenance or use as the area has been completely developed.

“Developed Area” means that the area is developed or maintained for a particular purpose such as use as a park, garden, railway, road or other access route, navigation channel, municipal facility or infrastructure facility, such as power lines, telecommunication lines or electricity infrastructure.

“No Additional Surface Disturbance” means surface disturbance not inconsistent with previous surface disturbance.

“Significant Ground Disturbance” means:

disturbance by machinery of the topsoil or surface rock layer of the ground, such as by ploughing, drilling or dredging;

the removal of native vegetation by disturbing root systems and exposing underlying soil.

“Surface Disturbance” means any disturbance of an area which causes a lasting impact to the land or waters during the activity or after the activity has ceased.

4.0 The nature of the activity and the likelihood of its causing harm to Aboriginal cultural heritage – Section 23(2)(a)

Activities involving No Surface Disturbance (Category 1)

4.1

Where an activity involves no Surface Disturbance of an area it is generally unlikely that the activity will harm Aboriginal cultural heritage and the activity will comply with these guidelines.

4.2

In these circumstances, it is reasonable and practicable for the activity to proceed without further cultural heritage assessment.

4.3

The following are examples of activities that may proceed under category 1:

- walking²
- driving along existing roads and tracks (within the existing alignment) or other infrastructure footprint
- aerial surveys
- navigating through water
- cadastral, engineering, environmental or geological surveys using methods (such as GPS systems) which do not cause surface disturbance
- photography

² Although activities such as walking through a culturally significant place are permitted under this guideline, it is important to be aware that merely being present in a culturally significant place may cause offence to Aboriginal people and, where this is known, due respect should be paid to these cultural sensitivities.

Activities causing No Additional Surface Disturbance (Category 2)

4.4

Where an activity causes No Additional Surface Disturbance of an area it is generally unlikely that the activity will harm Aboriginal cultural heritage or could cause additional harm to Aboriginal cultural heritage to that which has already occurred, and the activity will comply with these guidelines.

4.5

In these circumstances, subject to the measures set out in paragraphs 4.7 – 4.11, it is reasonable and practicable for the activity to proceed without further cultural heritage assessment.

4.6

The following are examples of activities that may generally proceed under category 2:

- Cultivation of an area which is currently subject to cultivation
- Grazing cattle on an area where cattle are currently grazed
- Use and maintenance of existing roads, tracks and power lines within the existing infrastructure alignment, or other infrastructure footprint
- Use, maintenance and protection of services and utilities (such as electricity infrastructure; water or sewerage disposal) on an area where such services and utilities are currently being provided
- Use, maintenance and protection of services and utilities (such as electricity infrastructure; water or sewerage disposal) on an area immediately adjacent to where such services and utilities are currently being provided providing the activity does not involve additional surface disturbance
- Tourism and visitation activities on an area where such activities are already taking place

Excavating, relocating, removing or harming Aboriginal cultural heritage

4.7

If at any time during the activity it is necessary to excavate, relocate, remove or harm a Cultural Heritage Find the activity should cease immediately. You must notify the Aboriginal Party for the area and seek their advice and agreement as to how best this may be managed to avoid or minimise harm to the Aboriginal cultural heritage. Paragraph 6.0 sets out examples of features highly likely to constitute or contain a Cultural Heritage Find.

Reaching Agreement

4.8

It is advisable that the terms of any agreement you reach with the Aboriginal Party for the area be recorded and documented in the event of future disputes.

Failure To Reach Agreement

4.9

Where agreement cannot be reached with the Aboriginal Party for the area, you continue to have a duty of care obligation under section 23 of the Act and must take all reasonable and practicable measures to ensure the activity does not harm Aboriginal cultural heritage including, where necessary, through the development of a Cultural Heritage Management Plan under Part 7 of the Act.

Aboriginal Cultural Heritage Register and Aboriginal Cultural Heritage Database

4.10

An activity under category 2 that will excavate, relocate, remove or harm Aboriginal cultural heritage entered on the Aboriginal Cultural Heritage Register or the Aboriginal Cultural Heritage Database should not proceed without the agreement of the Aboriginal Party for the area or a Cultural Heritage Management Plan undertaken pursuant to Part 7 of the Act.

4.11

Information regarding Aboriginal cultural heritage entered on the Aboriginal Cultural Heritage Register or the Aboriginal Cultural Heritage Database may be obtained from the Cultural Heritage Unit.

5.0 The nature and extent of past uses in the area affected by the activity - Section 23(2)(g)

Developed Areas (Category 3)

5.1

Where an activity is proposed in a Developed Area it is generally unlikely that the activity will harm Aboriginal cultural heritage and the activity will comply with these guidelines.

5.2

In these circumstances, subject to the measures set out in paragraphs 5.8 - 5.12, it is reasonable and practicable that the activity proceeds without further cultural heritage assessment.

5.3

The following are examples of activities that may generally proceed within a Developed Area:

- Use and maintenance of existing roads, tracks and power lines within the existing alignment, or other infrastructure footprint;
- Use and maintenance of services and utilities (such as electricity infrastructure; water or sewerage disposal) on an area where such services and utilities are currently being provided.

Areas previously subject to Significant Ground Disturbance (Category 4)

5.4

Where an activity is proposed in an area, which has previously been subject to Significant Ground Disturbance it is generally unlikely that the activity will harm Aboriginal cultural heritage and the activity will comply with these guidelines.

5.5

In these circumstances, subject to the measures set out in paragraphs 5.6 - 5.12, it is reasonable and practicable that the activity proceeds without further cultural heritage assessment.

5.6

In some cases, despite an area having been previously subject to Significant Ground Disturbance, certain features of the area may have residual cultural heritage significance. These features are set out in paragraph 6.0 of these guidelines.

5.7

It is important to be informed about any cultural heritage significance that may attach to these features and extra care must be taken prior to proceeding with any activity that may cause additional surface disturbance to the feature, or the area immediately surrounding the feature which is inconsistent with the pre-existing Significant Ground Disturbance. In these circumstances, it is necessary to notify the Aboriginal Party and seek:

- Advice as to whether the feature constitutes Aboriginal cultural heritage; and
- If it does, agreement as to how best the activity may be managed to avoid or minimise harm to any Aboriginal cultural heritage.

Excavating, relocating, removing or harming a Cultural Heritage Find

5.8

If at any time during the activity it is necessary to excavate, relocate, remove or harm a Cultural Heritage Find the activity should cease immediately. You must notify the Aboriginal Party for the area and seek their advice and agreement as to how best this may be managed to avoid or minimise harm to the Aboriginal cultural heritage. Paragraph 6.0 sets out examples of features highly likely to constitute or contain a Cultural Heritage Find.

Reaching Agreement

5.9

It is advisable that the terms of any agreement you reach with the Aboriginal Party for the area be recorded and documented in the event of future disputes.

Failure To Reach Agreement

5.10

Where agreement cannot be reached with the Aboriginal Party for the area, you continue to have a duty of care obligation under section 23 of the Act and must take all reasonable and practicable measures to ensure the activity does not harm Aboriginal cultural heritage including, where necessary, through the development of a Cultural Heritage Management Plan under Part 7 of the Act.

Aboriginal Cultural Heritage Register and Aboriginal Cultural Heritage Database

5.11

An activity under category 3 or category 4 that will excavate, relocate, remove or harm Aboriginal cultural heritage entered on the Aboriginal Cultural Heritage Register or the Aboriginal Cultural Heritage Database should not proceed without the agreement of the Aboriginal Party for the area or a Cultural Heritage Management Plan undertaken pursuant to Part 7 of the Act.

5.12

Information regarding Aboriginal cultural heritage entered on the Aboriginal Cultural Heritage Register or the Aboriginal Cultural Heritage Database may be obtained from the Cultural Heritage Unit.

Activities causing additional surface disturbance (Category 5)

5.13

A category 5 activity is any activity, or activity in an area, that does not fall within category 1, 2, 3 or 4.

5.14

Where an activity is proposed under category 5 there is generally a high risk that it could harm Aboriginal cultural heritage. In these circumstances, the activity should not proceed without cultural heritage assessment. Cultural heritage assessment should involve consideration of the matters a Court may consider under section 23(2) of the Act, set out in paragraph 1.12 of the Preamble to these guidelines.

5.15

Particular care must be taken where it is proposed to undertake activities causing additional surface disturbance to the features likely to have cultural heritage significance, set out in paragraph 6.0 of these guidelines.

5.16

It is important to be informed about any cultural heritage significance that may attach to these features and extra care must be taken prior to proceeding with any activity that may cause additional surface disturbance of the feature, or the area immediately surrounding the feature. Where an activity is proposed under category 5, it is necessary to notify the Aboriginal Party and seek:

- Advice as to whether the feature constitutes Aboriginal cultural heritage; and
- If it does, agreement as to how best the activity may be managed to avoid or minimise harm to any Aboriginal cultural heritage.

Excavating, relocating, removing or harming a Cultural Heritage Find

5.17

If at any time during the activity it is necessary to remove or relocate or harm a Cultural Heritage Find the activity should cease immediately. You must notify the Aboriginal Party for the area and seek their advice and agreement as to how best this may be managed to avoid or minimise harm to the Aboriginal cultural heritage. Paragraph 6.0 sets out examples of features highly likely to constitute or contain a Cultural Heritage Find.

Reaching Agreement

5.18

It is advisable that the terms of any agreement you reach with the Aboriginal Party for the area be recorded and documented in the event of future disputes.

Failure To Reach Agreement

5.19

Where agreement cannot be reached with the Aboriginal Party for the area, you continue to have a duty of care obligation under section 23 of the Act and must take all reasonable and practicable measures to ensure the activity does not harm Aboriginal cultural heritage including, where necessary, through the development of a Cultural Heritage Management Plan under Part 7 of the Act.

Aboriginal Cultural Heritage Register and Aboriginal Cultural Heritage Database

5.20

An activity under category 5 that will excavate, relocate, remove or harm Aboriginal cultural heritage entered on the Aboriginal Cultural Heritage Register or the Aboriginal Cultural Heritage Database should not proceed without the agreement of the Aboriginal Party for the area or a Cultural Heritage Management Plan undertaken pursuant to Part 7 of the Act.

5.21

Information regarding Aboriginal cultural heritage entered on the Aboriginal Cultural Heritage Register or the Aboriginal Cultural Heritage Database may be obtained from the Cultural Heritage Unit.

6.0 The nature of the Aboriginal cultural heritage likely to be harmed by the activity - Section 23(2)(b)

6.1

The following features are highly likely to have cultural heritage significance. These features include, but are not limited to:

Ceremonial places: The material remains of past Aboriginal ceremonial activities come in the form of earthen arrangements or bora grounds and their associated connecting pathways, and stone circles, arrangements and mounds. Indigenous people used these places for ceremonies, including initiation and inter-group gatherings.

Scarred or carved trees: Scars found on large mature trees often indicate the removal of bark by Indigenous people to make material items like canoes, containers, shields and boomerangs. Carved trees generally feature larger areas of bark that have been removed and carved lines deeply etched into the timber. Carvings include geometric or linear patterns, human figures, animals and birds.

Burials: Pre-contact Aboriginal burials are commonly found in caves and rock shelters, midden deposits and sand dunes. Burial sites are sensitive places of great significance to Indigenous people.

Rock art: Queensland has a rich and diverse rock art heritage. Rock art sites can include engravings, paintings, stencils and drawings. Paintings, stencils and drawings may have been done for everyday purposes, but are often used for ceremonial and sacred functions. Engravings include designs scratched, pecked or abraded into a rock surface.

Fish traps and weirs: Fish traps and weirs are stone or wooden constructions designed to capture aquatic animals, predominantly fish. Traps are considered as structures made predominantly from stone to form a type of pen or enclosure. Weirs are constructions designed to block the natural flow of water in creeks, streams and other watercourses.

Occupation sites: These are places where the material remains of human occupation are found. Such sites contain discarded stone tools, food remains, ochre, charcoal, stone and clay hearths or ovens, shell middens and shell scatters, including deposits found in rock shelters and caves. These deposits may be buried. Other evidence of occupation sites includes the remains of Aboriginal dwellings or "gunyahs".

Quarries and artefact scatters: Quarries are places where raw materials such as stone or ochre were obtained through either surface collection or sub-surface quarrying. Stone collected or extracted from stone quarries was used for the manufacture of stone tools. Ochre, a type of coloured clay, was utilised by Indigenous people in rock art and for body and wooden tool decoration.

Grinding grooves: Grinding grooves represent the physical evidence of past tool making or food processing activities. They are generally found near water sources. The presence of long thin grooves may indicate where the edges of stone tools were ground. Food processing activities such as seed grinding can leave shallow circular depressions in rock surfaces.

Contact Sites: The material remains of Indigenous participation in the development of Queensland after the arrival of European settlers. These include former or current Aboriginal missions, native mounted police barracks and historical camping sites.

Wells: Rock wells are reliable water sources that have been altered by Indigenous people for the storage of water. The presence of wells often indicates the location of routes frequently travelled by Indigenous people in the past.

6.2

Landscape features, which may also have cultural heritage significance include:

- Rock outcrops
- Caves
- Foreshores and coastal dunes
- Sand Hills
- Areas of biogeographical significance, such as natural wetlands
- Permanent and semi-permanent waterholes, natural springs.
- Particular types of native vegetation³
- Some hill and mound formations

6.3

The views of the Aboriginal Party for an area are key in helping assess the Aboriginal cultural heritage significance of these kinds of features.

6.4

Appropriately qualified persons such as anthropologists, archaeologists and historians can also provide valuable assistance.

³ Unless otherwise provided for under these guidelines (such as provisions in relation to scarred trees or places entered onto the Aboriginal Cultural Heritage Register or Database), the control and maintenance of native vegetation by pruning and lopping may proceed, subject to the provisions of the *Vegetation Management Act 1999* and other relevant legislation.

7.0 The extent to which the person consulted with Aboriginal parties about the carrying out of the activity and the results of the consultation - Section 23(2)(c)

7.1

The views of the Aboriginal Party for an area are key in assessing and managing any activity likely to excavate, relocate, remove or harm Aboriginal cultural heritage.

7.2

Ask First – A guide to respecting Indigenous heritage places and values, released by the Australian Heritage Commission, provides a practical guide to consulting and negotiating with Aboriginal people about their cultural heritage. Available from the Australian Heritage Commission website:

<http://www.environment.gov.au/heritage/ahc/publications/commission/books/ask-first.html>

7.3

Any activity undertaken in accordance with an agreement with the relevant Aboriginal Party for the area satisfies the Aboriginal cultural heritage duty of care under the Act.

Reaching Agreement

7.4

It is advisable that the terms of any agreement you reach with the Aboriginal Party for the area be recorded and documented in the event of future disputes.

Failure To Reach Agreement

7.5

Where agreement cannot be reached with the Aboriginal Party for the area, you continue to have a duty of care obligation under section 23 of the Act and must take all reasonable and practicable measures to ensure the activity does not harm Aboriginal cultural heritage including, where necessary, through the development of a Cultural Heritage Management Plan under Part 7 of the Act.

8.0 Whether the person carried out a study or survey, of any type, of the area affected by the activity to find out the location and extent of Aboriginal cultural heritage, and the extent of the study or survey - Section 23(2)(d)

8.1

A cultural heritage study or a cultural heritage survey should be carried out where it is necessary to identify and assess the Aboriginal cultural heritage values of an area, for example where an activity is likely to excavate, relocate, remove or harm Aboriginal cultural heritage.

8.2

A cultural heritage study or survey can be undertaken as part of the process for developing a Cultural Heritage Management Plan under Part 7 of the Act.

8.3

Although it may be a useful reference point, you should not rely solely on information contained within the Aboriginal Cultural Heritage Register or the Aboriginal Cultural Heritage Database in deciding whether or not to undertake a cultural heritage study or survey. Neither should you rely solely on archaeological information about an area, as this may not address the particular significance of the area as a result of Aboriginal tradition or the history of the Aboriginal Party for the area.

8.4

As highlighted in *Ask First – A guide to respecting Indigenous heritage places and values*, you should not rely solely on previous work to identify significant Aboriginal cultural heritage, as the Aboriginal people involved in previous studies or surveys may not have disclosed the existence of cultural heritage places as they may not have been under immediate threat at the time the earlier study was undertaken.

8.5

Further guidance on when a cultural heritage study or survey is required may be obtained by:

- Seeking the views of the Aboriginal Party for the area and ascertaining from the Aboriginal Party as to whether a study or survey is required;
- Seeking information from the Aboriginal Cultural Heritage Register and the Aboriginal Cultural Heritage Database as to whether there are any known cultural heritage values that could be affected by your activity⁴;
- Seeking advice from appropriately qualified persons such as anthropologists, archaeologists and historians;
- Assessing the nature of the Aboriginal cultural heritage likely to be harmed;
- Assessing the nature of the activity and the likelihood of its causing harm to Aboriginal cultural heritage;
- Assessing the nature and extent of past uses in the area affected by the activity;
- Seeking further advice from the Cultural Heritage Unit.

⁴ It is important to note that an assessment needs to be made as to whether your activity will indirectly harm Aboriginal cultural heritage not located directly within the area of actual activity e.g. damming a creek may impact on Aboriginal cultural heritage downstream from the dam.

8.6

The Aboriginal Party for the area must be given the opportunity to be involved in undertaking the cultural heritage study or survey and their advice must be sought as to how best to manage any activity, which may harm cultural heritage identified by the study or survey.

9.0 Whether the person searched the database and register for information about the area affected by the activity - Section 23(2)(e)

9.1

An activity that will excavate, relocate, remove or harm Aboriginal cultural heritage entered on the Aboriginal Cultural Heritage Register or the Aboriginal Cultural Heritage Database should not proceed without the agreement of the Aboriginal Party for the area or a Cultural Heritage Management Plan undertaken pursuant to Part 7 of the Act.

9.2

Information regarding Aboriginal cultural heritage entered on the Aboriginal Cultural Heritage Register or the Aboriginal Cultural Heritage Database may be obtained from the Cultural Heritage Unit.

RTI RELEASE - DSDILGP

Dillon's Extractive Operations

Safety Management System

1.0 POLICY & PLANNING

1.1 AIM: To develop a health and safety policy which will guide management and employees in planning, developing and implementing their safety management plan (SMP). It also includes developing an “Extractive Operations Plan” which will assist management in predicting and controlling workplace hazards.

1.2 WHAT: This policy is the basis of the SMP and looks at what we believe are our main health and safety goals.

DILLON’S EXTRACTIVE INDUSTRIES WORKPLACE HEALTH and SAFETY POLICY

Dillon’s Extractive Industries has adopted and is totally committed to the following objectives aimed at keeping the workplace safe for all employees, contractors or visitors.

- Identification of hazards, the assessment of the risks presented by these hazards and the prioritising of the rated risk acceptance.
- Determining the most effective control methods available to eliminate risks wherever possible or at least reduce the level of risks to an industry-recognised or statutory acceptance.
- Provide training for all employees to enable the safe performance of their work.
- Provide a means of communication for all employees to receive and contribute information on safety issues.
- Every employee of Dillon’s Extractive Industries, contractor or visitor has the responsibility of *Duty of Care* and must take reasonable precautions and care to ensure, or avoid endangering any person’s safety and health.

Dillon’s Extractive Industries is committed to ongoing improvement and aims for the elimination of workplace accidents, injuries and work related illnesses via the promotion of a positive safety attitude throughout all levels of the organisation.

Sch. 4(4)(6) -
Disclosing personal
information

SITE SENIOR EXECUTIVE

___/___/___
Date

EMPLOYEE REPRESENTATIVE

___/___/___
Date

1.3 WHO: This policy has been developed and reviewed jointly by management and employees.

1.4 HOW: At the site safety meeting the workforce will be involved in developing the goals of the policy. The policy is to be reviewed annually by a joint committee of management and employees.

1.5 WHEN: Each year, at the site safety meeting we intend to use FORM 1A "Yearly Safety Plan" to record our safety targets for the year. We will review this at the end of each year to see if we have achieved our target. We will modify our following year's targets to account for any shortcomings.

1.6 ACTION: The yearly safety plan (FORM 1A) is to be completed by a competent and qualified Safety Advisor listing all safety goals for the year.

1.7 DOCUMENT CONTROL: A copy of this policy is to be displayed in the site office with the master remaining in the SMP.

2.0 RESPONSIBILITIES

2.1 AIM:

The aim of this program is to give health and safety responsibilities to each position at the site.

2.2 WHAT:

A list of responsibilities for each main employment position at the site will be created and discussed with each employee.

2.3 WHO:

Responsibilities for the following positions will be developed:

- Site Senior Executive
- Workers and contractors
- Visitors

2.4 HOW:

Meetings will be held with the employees to consult and set up the obligations for the above positions. We will include the relevant sections of the governing legislation in each position description.

2.5 WHEN:

The site safety meeting will be used as the forum for discussions.

2.6 ACTION:

Responsibilities will be set up for the above positions and recorded using FORM 2A. Employees, contractors and visitors will be told of these responsibilities during their induction (see Program 12).

2.7 DOCUMENT CONTROL:

The responsibilities for each of the positions are to remain part of this SMS. Changes to this program must be approved by the site senior executive (SSE) and recorded in the document control master list (FORM 3A).

Responsibilities

Site Senior Executive/Supervisor

- To provide a safe place and safe system of work ensuring that adequate resources are available for the effective implementation and maintenance of the Safety Management System.
- To comply with the Mining and Quarrying Safety and Health Act 1999
- To comply with the Mining and Quarrying Safety and Health Regulations 2001
- Ensure plant is maintained in a safe state
- Ensure the risk to persons from operations is at an acceptable level.
- Record all events and mining related activities in the Extractive Operations Record

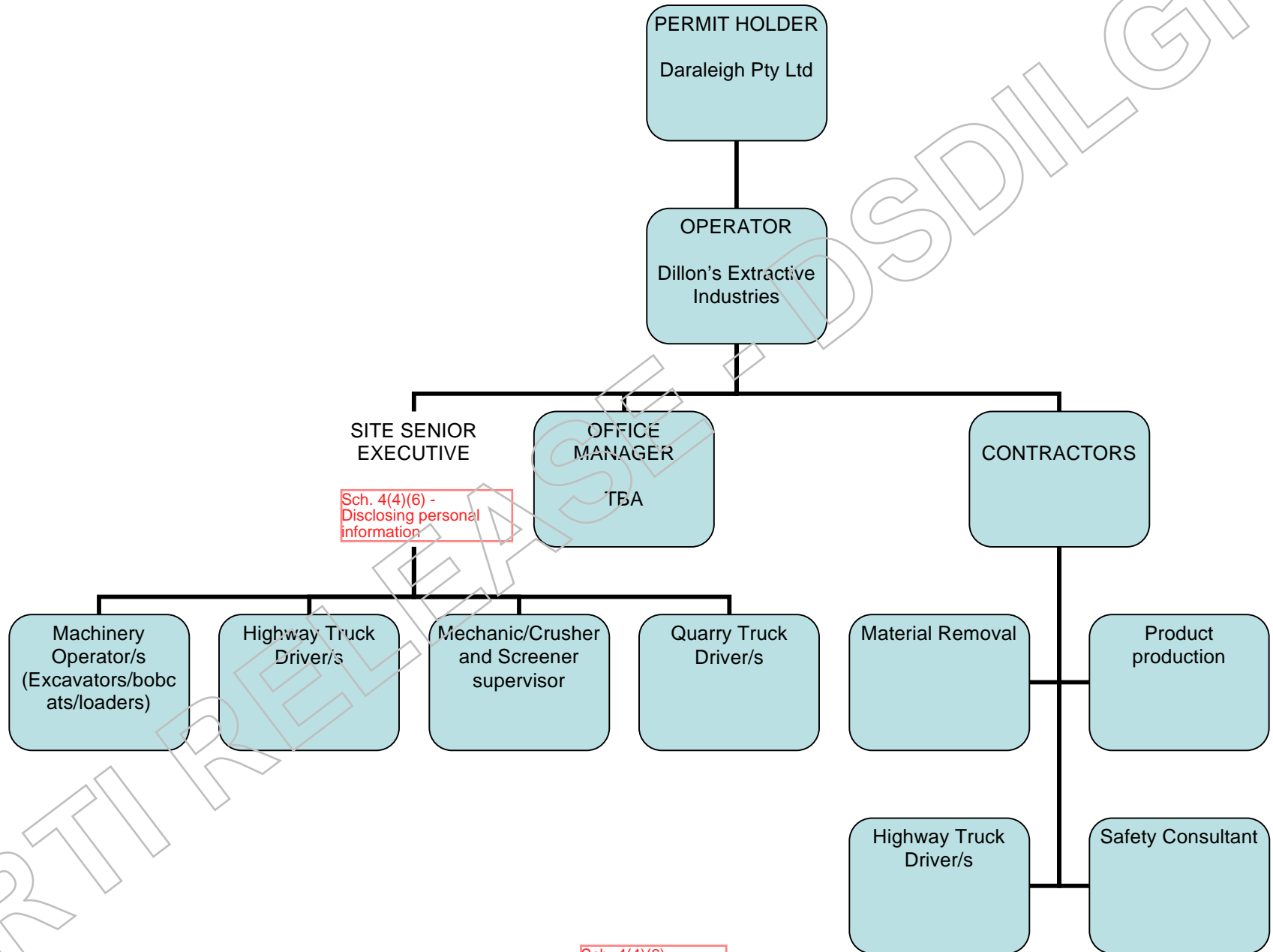
Workers and Contractors

- To act in a responsible, professional and courteous manner at all times and not to do anything wilfully or recklessly that might adversely affect the health and safety of someone at the workplace.
- To comply with the Mining and Quarrying Safety and Health Act, standard work instructions and procedures applying to the health and safety management system.
- To protect themselves from the risk of injury or illness.
- Wear Personal Protective Equipment when and where required.
- To take any reasonable and necessary course of action to ensure that persons are not exposed to unacceptable levels of risk.
- A contractor is the same as an employee

Visitors

- To act in a responsible, professional and courteous manner at all times and not to do anything wilfully or recklessly that might adversely affect the health and safety of someone at the workplace.
- To comply with the Mining and Quarrying Safety and Health Act, standard work instructions and procedures applying to the health and safety management system.
- To protect themselves from the risk of injury or illness.
- Wear Personal Protective Equipment when and where required.
- To take any reasonable and necessary course of action to ensure that persons are not exposed to unacceptable levels of risk.
- To sign in and out on the Visitors Book.
- To abide by the Site Rules and Induction

ORGANISATIONAL STRUCTURE



Sch. 4(4)(6) -
Disclosing personal
information

Doc: 2.0 Responsibilities

Approver: Sch. 4(4)(6) -
Disclosing personal
information

Date: 24 October 2014

Program 2 - 3

Register of persons occupying positions in the Management Structure

Position	Occupants details		Start Date	End Date	Certification/Permit/Licence Details
	Name	Date of Birth			
Site Senior Executive	Sch. 4(4)(6) - Disclosing personal information				
Machinery Operators					
Highway Truck Driver					
Highway Truck Driver					
Mechanic/Crusher and Screener supervisor					

Doc: 2.0 Responsibilites

Approver: Sch. 4(4)(6) - Disclosing personal information

Date: 24 October 2014

Program 2 - 4

3.0 DOCUMENT CONTROL

3.1 AIM: To ensure that all Safety Management System documents are maintained and controlled in a consistent manner. This will ensure that they are current, approved for use and available for training purposes at all times.

3.2 WHAT: All Safety Management System documents will be controlled in accordance with this program.

3.3 WHO: The Office Manager is responsible for maintaining the "Document Control Master List". They will also be responsible for issuing and filing of documents.

The most senior person in the management structure (Section 2.0) is required to sign off on all documents approving their use. This person is the approver at the bottom of each document.

3.4 HOW: All documents referred to will have the following written on the bottom of each page, (*footer*).

- a. name of document
- b. date it was written or reviewed
- c. name of the most senior person in the management structure (Approver)
- d. page number

3.5 WHEN: All Safety Management System documents will be approved for use and entered on the "Document Control Master List" (FORM3A) prior to distribution (eg inspection forms, induction sheets and site rules).

Old documents are to be removed from circulation and filed where necessary. We intend to keep/ store most of our documents for a minimum of 5 years.

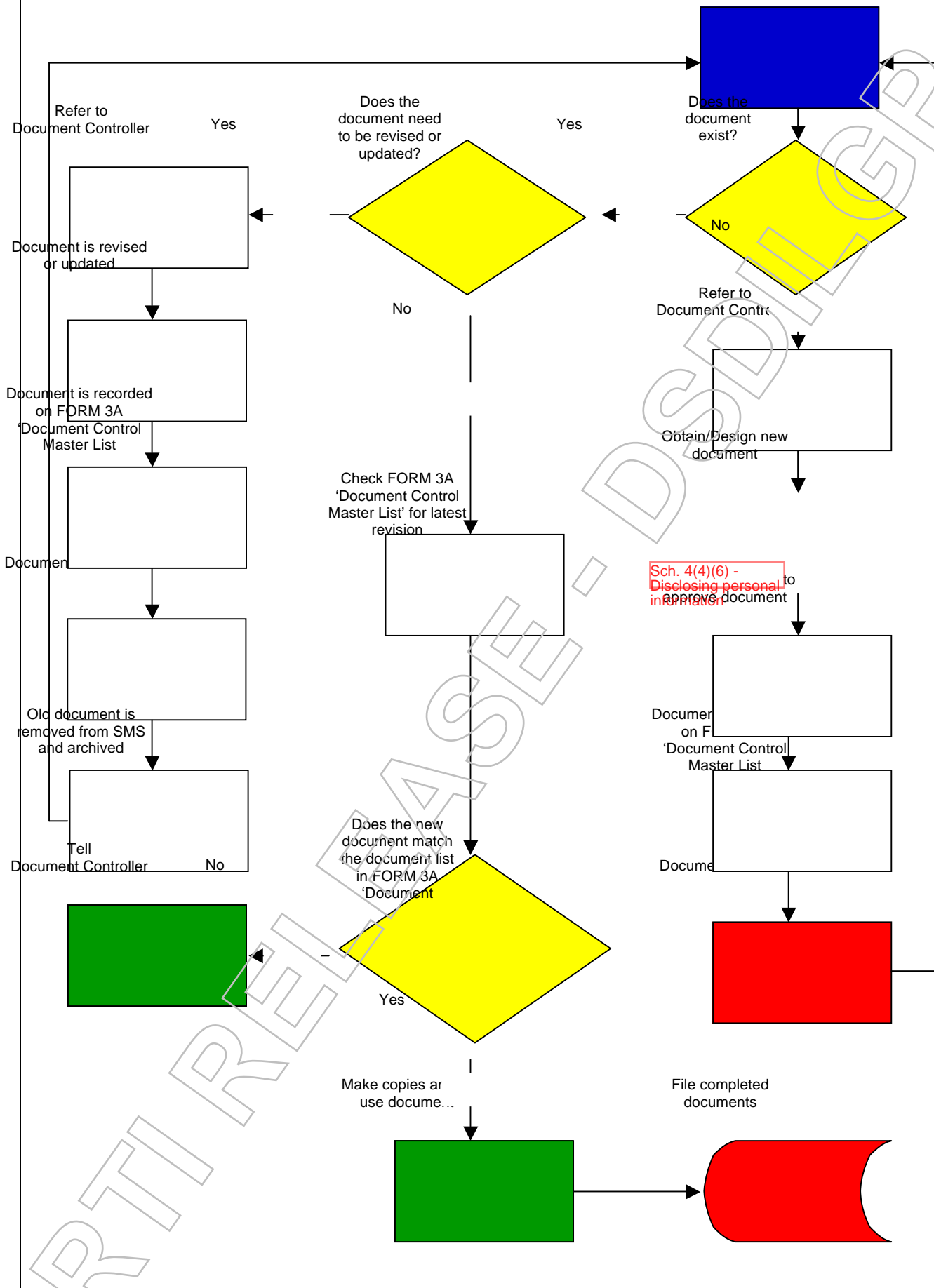
3.6 ACTION: All programs, procedures, plans, registers, inspections and forms associated with this Safety Management System are to be recorded in the "Document Control Master List" (FORM 3A).

As new documents are developed in the mine safety management plan the “Document Control Master List” (FORM 3A) will be updated.

When programs or parts of programs are reviewed the “Document Control Master List” (FORM 3A) will be updated stating the program, section and page number of the program or document, the date the reviewed document was issued, changes made to the document and signed off by the responsible person.

3.7 DOCUMENT CONTROL: The “Document Control Master List” (FORM 3A) will be filed in the Safety filing cabinet located in the site office.

3.0 DOCUMENT CONTROL



4.0 CONSULTATION

4.1 AIM: To assist in ensuring that all parties at the site are actively involved in achieving workplace health and safety goals. By promoting an open line of consultation we will ensure that everyone is aware of their responsibilities and has the chance to participate in developing and implementing the safety management plan.

4.2 WHAT: The consultation program will allow all people on site to openly discuss safety related matters. This will be through:

1. Weekly Work/Prestart meetings, and
2. Toolbox/Safety meetings.

4.3 WHO: The person responsible for organising the meetings and ensuring that it takes place is the SSE.

The Office Manager will be responsible for taking minutes of the meeting.

All personnel are required to attend the meeting. Contractors will also be encouraged to attend.

4.4 HOW: The Weekly Work/Prestart meetings will be held using the Weekly Work/Prestart Meeting (FORM 4A) or recorded in the rear of the daily diary, while following the agenda items of FORM 4A.

The Toolbox/Safety meetings will be held using the Toolbox/Safety Meeting (Form B)

These forms outline the topics that will be discussed during meetings and will act as the minutes for the meeting.

All site personnel are encouraged to provide the meeting organiser with issues to be discussed prior to the meetings.

4.5 WHEN: The Weekly Work/Prestart Meeting will be held at the start of the week.

The site safety meeting / toolbox talk will be held monthly. If the meeting cannot be held at this time it will be held on the next working day after the meeting date.

A site safety meeting **may** also be held if one of the following events occurs:

1. When a risk assessment is carried out and a decision about the controls required is to be undertaken
2. When new or amended procedures for monitoring risks are introduced
3. When decisions about the facilities for welfare are made
4. When changes that affect health, safety and welfare are made to:
 - a. premises
 - b. systems or methods of work
 - c. plant
 - d. substances
5. When decisions about procedures for consultation are made

4.6 ACTION: Any issues that are raised in the meetings that require work to improve the level of safety will be entered onto an action plan or into the daily diary.

4.7 DOCUMENT CONTROL: A copy of the minutes will be posted on the notice board for a period of 1 week. After removing the minutes a copy will be filed in the Meeting folder in the site office.

FORM 4A – WEEKLY WORK/PRESTART MEETING

SSE/SUPERVISOR:		
Date	Name of Attendees	Signature

Describe or list content of talk	

What are the Outcomes from the talk	

Are there any actions resulting from the talk?

Agreed Action	By Who	By When

FORM 4B – TOOLBOX/SAFETY MEETING

SSE/SUPERVISOR		
Date	Name of Attendees	Signature

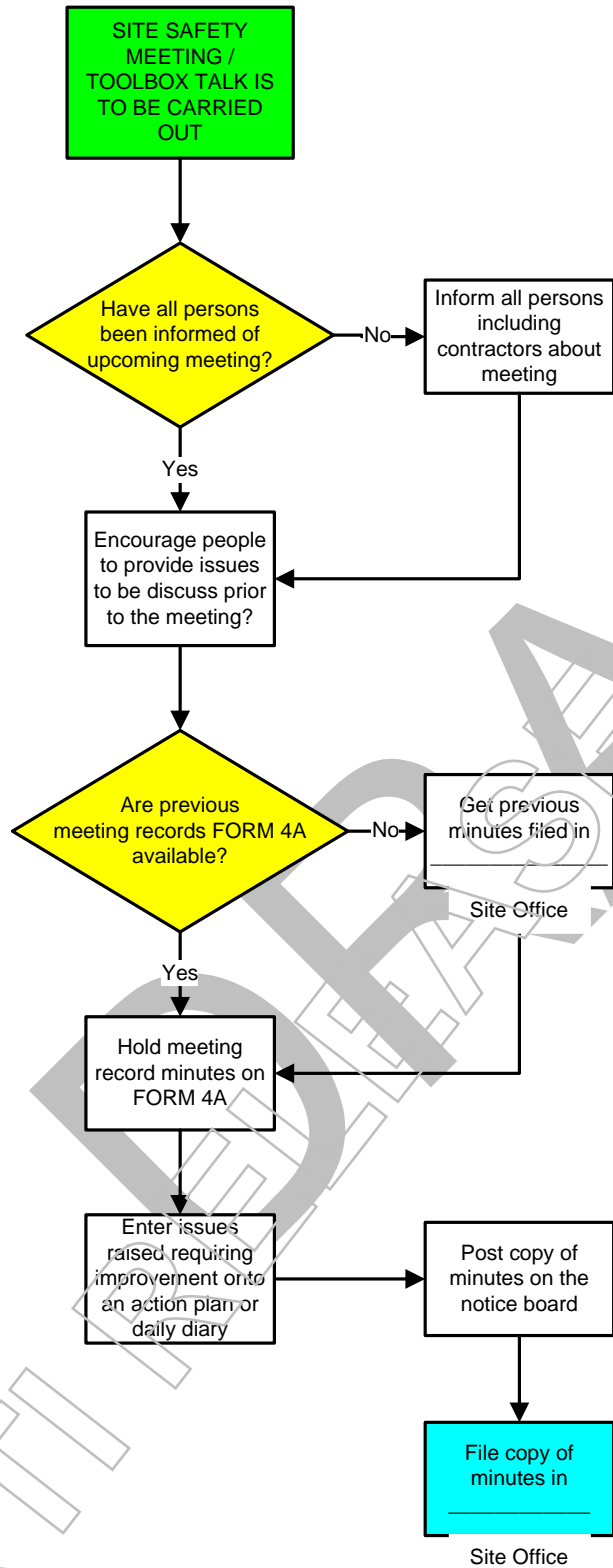
Describe or list content of talk	

What are the Outcomes from the	

Are there any actions resulting from the talk?

Agreed Action	By Who	By When

4.0 CONSULTATION



5.0 HAZARD IDENTIFICATION & RISK MANAGEMENT

5.1 AIM:

The aim of this program is to develop a process that will continually allow us to identify work hazards, to assess the risks of these hazards and to implement controls to remove or reduce the risk to the lowest practicable level.

5.2 WHAT:

The risk management process will consistently identify hazards at our quarry by way of applying the process to all of our activities. This is done by way of the following:

General Workplace Inspection Checklist	(FORM 6D)
Reporting hazards immediately as found	(FORM 6E or Hazard Reporting Booklet)
Agenda item at safety meeting / toolbox talk	(FORM 4A)
Regular Workplace Inspections	(FORM 6B)
Reviewing hazards with contractors during inductions	(FORM 12C)
Safe Work Method Statements	(FORM 8A)
TAKE 5's	My Personal Safety Checklist booklets

5.3 WHO:

The risk management program will be used by all people who work at our quarry. It is the responsibility of Sch. 4(4)(6) - Disclosing personal information and the appointed Safety Advisor/Consultant to explain to the employees and contractors the importance of using our risk management program.

5.4 HOW:

We intend to use our "Workplace Inspection Form" (FORM 6B) as the centrepiece of our risk management program. Sch. 4(4)(6) - Disclosing personal information and the appointed Safety Advisor/Consultant will conduct a whole of site hazard identification process as the first step in developing our quarry safety management plan.

Once we have identified our potential hazards we intend to apply our risk assessment program to these hazards. This consists of systematically assessing the hazards against our risk matrix, which determine the appropriate response required to protect the health and safety of workers on site.

When a hazard is identified the risk associated with it is determined by looking at the likelihood of a hazard to result in injury and the potential consequence or severity of the injury.

RISK ASSESSMENT RATING

Risk = Likelihood (Probability) x Consequence

Likelihood	Consequences
A Common or repeating occurrence	1 Fatality
B Known to have occurred – “has happened”	2 Permanent disability
C Could occur or “heard of it happening”	3 Medical/hospital or lost time
D Not likely to occur	4 First aid or no lost time
E Practically impossible	5 No injury

RISK ASSESSMENT MATRIX

Likelihood Consequences	A	B	C	D	E
1	1	2	4	7	11
2	3	5	8	12	16
3	6	9	13	17	20
4	10	14	18	21	23
5	15	19	22	24	25

RISK RATING

High Risk	1 – 6
Medium Risk	7 – 15
Low Risk	16 – 25

(Note: we conduct our risk assessment with the current controls in place)

CONTROLS

Once the hazard has been identified and risk rated, the following action must be taken. It is essential that we place the highest possible control once we have identified the hazard.

HIGH RISK	Stop work Barricade area or take short term action Select highest possible control within your capabilities Immediately notify supervisor Record in site diary Fix immediately Discuss at next safety meeting Other _____
MEDIUM RISK	Take short term action Select highest possible control within your capabilities Notify supervisor at end of shift Record in site diary Fix within 24 hrs Discuss at next safety meeting Other _____
LOW RISK	Select highest possible control within your capabilities Review during next workplace inspection to ensure still low risk Other _____

HIERACHY OF CONTROLS

When we select a control for an identified hazard, we will always choose the highest measure of control possible.

- Elimination** Is it possible to eliminate the hazard altogether?
- Substitution** Is it possible to replace the substance or, equipment with something less hazardous?
- Engineering** Is it possible to create a "barrier" between the hazard and the person e.g. guarding, hand rail, distance?
- Administrative** Is it possible to lessen the exposure of people through changing the way the job is done, rotating people through the job, administrative controls such as training, high risk permits?
- PPE** Last resort - is PPE appropriate to the type, level of hazard and has it been selected correctly?

5.5 WHEN:

This process of identifying hazards, assessing risk and implementing controls underpins all of our programs and will be applied to all of our work. Many of our documents include our risk rating categories eg Workplace Inspection (FORM 6B), Contractor & Visitor Induction (FORM 12C). All people on site will apply these categories when formally assessing hazards or during their normal work practice.

5.6 ACTION:

If during the course of any normal activity on site, any person is made aware of a hazard, then that person will apply our sites risk management strategy and will take the necessary actions to reduce the hazard to the lowest practicable level.

5.7 DOCUMENT CONTROL:

The concept of risk management has been included in the majority of our documentation. Therefore, all documentation will be filed as per the document control section of each program.

6.0 WORKPLACE INSPECTION & HAZARD REPORTING

6.1 AIM: To develop an inspection system to identify and report all hazards found in the workplace. These inspections will be completed regularly and will use our risk management process to identify, assess and control hazards.

6.2 WHAT: To ensure that workplace inspections cover all areas of the work place, the site has been divided into the following inspection areas: (see Plan 6C)

1. Extraction face
2. Crusher, Screen & Stockpiles
3. W/Shop, Gen Set, Pump, Dam & Fuel
4. Office, public areas (including roads)

Mobile plant and all fixed equipment will be inspected prior to operation in accordance with program 10, (FORM 10B).

6.3 WHO: Inspections will be conducted as per the "Inspection Matrix" (FORM 6A).

6.4 HOW: The hazards found during each inspection will be recorded on our "Workplace Inspection" (FORM 6B or 6D). This form requires the following actions to take place.

- a) inspect the plant/equipment as stated on the form looking for any hazards, defects or missing components, (eg guarding).
- b) record the condition of the plant/equipment in area provided
- c) record any hazard noticed in area provided
- d) allocate a risk rating for each hazard found (using the risk assessment program)
- e) comment on the action taken (short term and long term)
- f) sign and date the form (*remember that high and medium risks are transferred to the daily diary or action plan*).

Any hazards found during the course of normal duties, not as a result of a planned workplace inspection, should be recorded on FORM 6E "Hazard Register" or written in the Hazard Reporting Booklet and reported to Sch. 4(4)(6) - Disclosing personal information **IMMEDIATELY.**

6.5 WHEN: Inspections will be conducted as per the inspection matrix (FORM 6B).

6.6 ACTION: Completed forms are to be signed off by the person who conducted the inspection and given to Sch. 4(4)(6) - Disclosing personal information

High and medium hazards found during the inspection, along with the actions required to control these hazards are to be recorded in the daily diary or an action plan.

The mine record or action plan is to be signed off as each action is completed.

6.7 DOCUMENT CONTROL: All inspection forms are to be recorded on the "Document Control Master List", (FORM 3A). Completed forms are to be filed in safety located site office.

RTI RELEASED UNDER THE ACCESS TO INFORMATION ACT / RTI RELEASED UNDER THE 5-LOI

**DILLON'S EXTRACTIVE INDUSTRIES
INSPECTION AREAS**

1. Extraction face
2. Crusher, Screen & Stockpiles
3. W/Shop, Dam & Fuel
4. Office, public areas (including roads)

FORM 6D

General Workplace Inspection Checklist

Site being Inspected		Date of Inspection	
Persons inspecting		Signature	

Legend – record in results column	✓ = Standard met	(H,M,L) Risk identified	N/A = Not applicable to this site
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Item	Observation / Required Controls	Result (H,M,L)	Comments/Actions
1.0	BUILDINGS AND STRUCTURES		
1.1	Buildings and Floors No building damage No floors damaged/dirty Aisles width, safe & free from obstruction Stairs to approved standard		
1.2	Lighting No lights out/broken Sufficient lighting Routine inspection No glare Windows clean and undamaged		
1.3	Ventilation Natural air flow and air extraction Mechanical (include air conditioners, fans etc.) Filters clean/inspected No build up of hazards or flammable material		
1.4	Amenities Hygienic toilets/urinals Hygienic kitchen/crib room Cleanliness of fridge and cooking appliances Hygienic showers/change rooms Adequate supply of drinking water Other		
1.5	Emergency Exits identified Exit doors and equipment unobstructed Evacuation plan in place Fire extinguishers Emergency lighting		
1.6	Storage and Stacking Adequate shelving Neat & tidy Segregated or labelled SWL on shelving Heavy items on lower level Other		
2.0	HOUSEKEEPING		
2.1	Pollution (eg oil waste, scrap steel etc.) Adequate disposal/collection Bunding/storage of container area Other		
2.2	Aisles and Storage Good demarcation/ not worn Not cluttered/obstructed Access to emergency equipment and exits		
2.3	Stacking and Storage Safe and stable Doesn't obstruct flow and services Sufficient racks/areas for storage Clear access and egress Odd shaped items stored safely		
2.4	Plant and Yard		

Item	Observation / Required Controls	Result (H,M,L)	Comments/Actions
	No redundant plant No redundant material Tidy		
2.5	Scrap Removal System Sufficient bins Adequate removal/emptied Other		
2.6	Colour Coding Used Uniform code (ie to AS or guidelines) Maintenance		
3.0	ELECTRICAL SAFEGUARDING – Also refer to FORM 10 E “Electricity Risk Assessment”		
3.1	Portable Electrical Equipment Identified and on register No damaged cables/plugs Earthing Current inspection tag (> 32v) Appropriate storage No visible damaged to tools or electrical leads		
3.2	Earth Leakage Complete coverage Max 30mA EL on all GPO circuits Tested regularly by competent person Documentation Inspection tag		
3.3	Electrical Installations Safe Electrical equipment safe Wiring safe Unauthorised access to switch gear/sub-stations restricted Earthing and polarity correct No exposed wires No damage to protective sheath/cable guide or conduit All welders have hazard reduction devices		
3.4	High Voltage Power Lines Identified by signs on all approach roads Material not stock-piled under power lines		
4.0	MECHANICAL SAFEGUARDING		
4.1	Machine Guarding Machines comply with appropriate standards Guards in place All nip points guarded Not loose, broken or inadequate		
4.2	Conveyor Gears, pulley, shaft and nip points guarded Drop guards to catch falling material Emergency stop Adequate access Adequate crossovers Lanyards on all conveyors or equivalent		
4.3	Lock-out System and Usage Written procedure Covers all sources of energy Switches lockable Tags/locks available		
4.4	Switches, Isolators, Valves & Controls Labelled No labels missing Emergency stop buttons red		

Item	Observation / Required Controls	Result (H,M,L)	Comments/Actions
4.5	Ladders, Handrails and Walkways Comply with standard Stairways/landings toe-boards fitted Stairways at least one handrail Portable ladders inspected/tested Identified and on register		
4.6	Lifting Gear and Machinery Identified and on register No defective items Safe working load marked Safety latches in place Regular inspections		
5.0	GAS CYLINDERS AND PRESSURE VESSELS		
5.1	Pressure Vessels Pressure vessel register Inspections/tests to standard and labelled Relief (safety) valve operational Drained & free of moisture Red line on pressure gauges Remote isolation		
5.2	Gas Cylinders Cylinders correctly stored vertically, secure Segregation distance Equipment safe condition Correct flashback arrestors used Transported correctly, secure		
5.3	Connecting pipes fitting and hoses In good condition, no leaks Connecting pipes and lines labelled. Safety clips used		
6.0	HAZARDOUS SUBSTANCES		
6.1	Chemicals and Substances Chemical register Manifest and emergency plan Products labelled MSDS sheets Stored appropriately, bunding & containment Segregation distances		
6.2	Explosives – see drill & blast section		
7.0	MOBILE PLANT AND MACHINES		
7.1	Condition of Vehicles/Plant Daily check/documentation No defective items – maintenance system O.K Operator competent – documented training Isolated when unattended Seat belts Critical safety items (steering, brakes, loss of power – regularly checked) ROP's, FOP's, TOP's Overhead guards where applicable Fire Extinguisher and/or suppression system Potential for contact with overhead structures Flashing light/reversing alarm Maintenance records		PREScribed "EARTH MOVING MACHINERY"
8.0	HANDTOOLS		
8.1	Hand tools Condition and Storage Routine check		

Item	Observation / Required Controls	Result (H,M,L)	Comments/Actions
	No damaged or defective tools No sharp edges, mushroomed ends No split handles Stored correctly Clean of oil & grease		
9.0	ERGONOMICS		
9.1	Operators Comfortable Body posture No lifting and twisting Standard colour coding Accessibility (switches, levers, ladders) Seats/chair/workstations condition Adequate lighting Ladders approx. 70 degree angle Walkway width is adequate		
10.0	PERSONAL PROTECTIVE SAFEGUARDS		
10.1	Head Protection Area identified – sign Hard hats provided Being worn		
10.2	Footwear Provided Correct for task Being worn		
10.3	Protective Clothing Suitable clothing for task Provided and maintained		
10.4	Eye and Face Protection Area identified – signs Equipment provided Worn correctly Prescription glasses to standard		
10.5	Hearing Protection Area identified –signs Equipment provided Worn correctly		
10.6	Other PPE Safety harness & lanyards Hand protection (gloves etc.) Respiratory equipment Sun protection, Sunscreen Sun hat or attachment Insect repellent Welding PPE		
11.0	NOTICES AND SIGNS		
11.1	Signs Posted Appropriate signs displayed To standard requirements Visible and correctly located Good condition		
11.2	Noticeboards and Displays Conspicuous position Up to date		
11.3	Warning Signs No unauthorised entry Procedure in case of fire Procedure in case of electric shock		
12.0	FIRE PROTECTION AND PREVENTION -		
12.1	Extinguishing Equipment Adequate number provided Correct types for fire risks ie hydrants and fire extinguishers, sprinkler systems,		



Item	Observation / Required Controls	Result (H,M,L)	Comments/Actions
	foam equipment, fire station etc.		
12.2	Fire Equipment Locations Location accessible Signs and demarcated areas Signs indicated type of equipment Signs to standard No equipment obstructed		
12.3	Maintenance of Equipment All equipment on register Inspection/service to standard Tags/seals in place Condition good		
12.4	Fire Fighting Adequate persons trained Available number of people on all shifts Training and competency records		

ADDITIONAL OBSERVATIONS - Systems Management

Item	Observation / Required Controls	Result (H,M,L)	Comment
13.0	CONTROL OF PERSONS		
13.1	Control of Entry and Exit Control signs (eg person to report to office) Secure fences and locked gates Security checkpoint Visitor record (time in/out)		
14.0	EMERGENCY PLANNING		
14.1	Emergency Action Plan Written emergency plan Contact names/phone numbers Site Plan		
14.2	First Aider and Facilities Current first aider Adequate first aid equipment First-aid kits checked regularly Stock items within use by date Locations marked		
14.3	Accident / Injury Recording Monthly record of accidents Record of minor injuries Record of near misses		
14.4	Reporting of Accident/Emergency Oral notification procedure Forms completed/sent		
15.0	INDUCTION AND JOB SAFETY TRAINING		
15.1	Induction Safety instruction part of employment Induction given before persons perform tasks		
15.2	Job/Task Training Safety aspects of job included with each task instruction		
16.0	SUPERVISION		
16.1	Adequate supervision Supervisor on the job Supervisor demonstrates competence Use Procedure or Risk Assessment for task Communicates effectively with employee Provide adequate resources for task/job Conducts regular task/job inspection		

Item	Observation / Required Controls	Result (H,M,L)	Comment
	Takes appropriate action to identified hazards Manages Contractor t		
16.2	Employee Selection Competent operator (experience & training) Use a Safe Work Method Statement for task Follow procedures, rules instructions Check contractor competency		
16.3	Communication Conduct workplace inspections Pre-start briefing provided On the job instruction Discussion of identified hazards and controls Communication/Meeting records Employee participation Record of contractor briefing		

DRAFT

RTI RELEASED

DSD/IGP

General Extractive Operations Inspection

Site being Inspected	Date of Inspection
Persons inspecting	Signature

Legend	✓ = Standard met	(H,M,L) Risk identified	N/A = Not Applicable to this site
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Item	Observation / Required Controls	Result (H,M,L)	Comment
1.0	ACCESS ROAD		
1.1	Road Condition Wide enough for vehicles Adequate passing areas Graded surface, no spillage, pot holes Camber 2-3%		
1.2	Signage Access to site adequately sign posted Mining/open pit hazard identified Speed limits		
2.0	ROADS, RAMPS, DUMPS		
2.1	Go Line Graded and free of obstructions Vehicles parked at safe distance apart		
2.2	Windrows Axle height of the largest tyred vehicle Sufficiently wide enough to stop vehicle Delineators clearly visible and reflectors clean		
2.3	Surface Adequate width, passing areas Drainage system is adequate Well graded and free of spillage and pot holes Free of standing water No signs of cracking or collapse of edges Dust suppression No oil/diesel spillage Traffic movement in accordance to procedures Camber 2-3% Less than 10:1 gradient		
3.0	DRILL & BLAST		
3.1	Patterns Access restricted with signs, windrow or cones Windrows in place around the face. No unauthorised vehicles or personnel Pattern marked Dust control for drill rig Drill rig orientation to face		
3.2	Explosives - practical Storage, transport and use is to standard - (SWMS in place), includes; (<i>loading, stemming & connection of initiation systems</i>) Misfire procedure (SWMS in place) Exclusion zones identified and marked No ignition sources in close proximity No electrical sources in close proximity		
3.3	Explosives – Authorisation Only persons authorised under a licence handle explosives		

Item	Observation / Required Controls	Result (H,M,L)	Comment
1.0	ACCESS ROAD		
1.1	Road Condition Wide enough for vehicles Adequate passing areas Graded surface, no spillage, pot holes Camber 2-3%		
1.2	Signage Access to site adequately sign posted Mining/open pit hazard identified Speed limits		
	A register of persons authorised under a licence to handle explosives is kept at the mine The security of explosives is controlled Register of stored items is kept (if applicable)		

DRAFT

RTI RELEASED

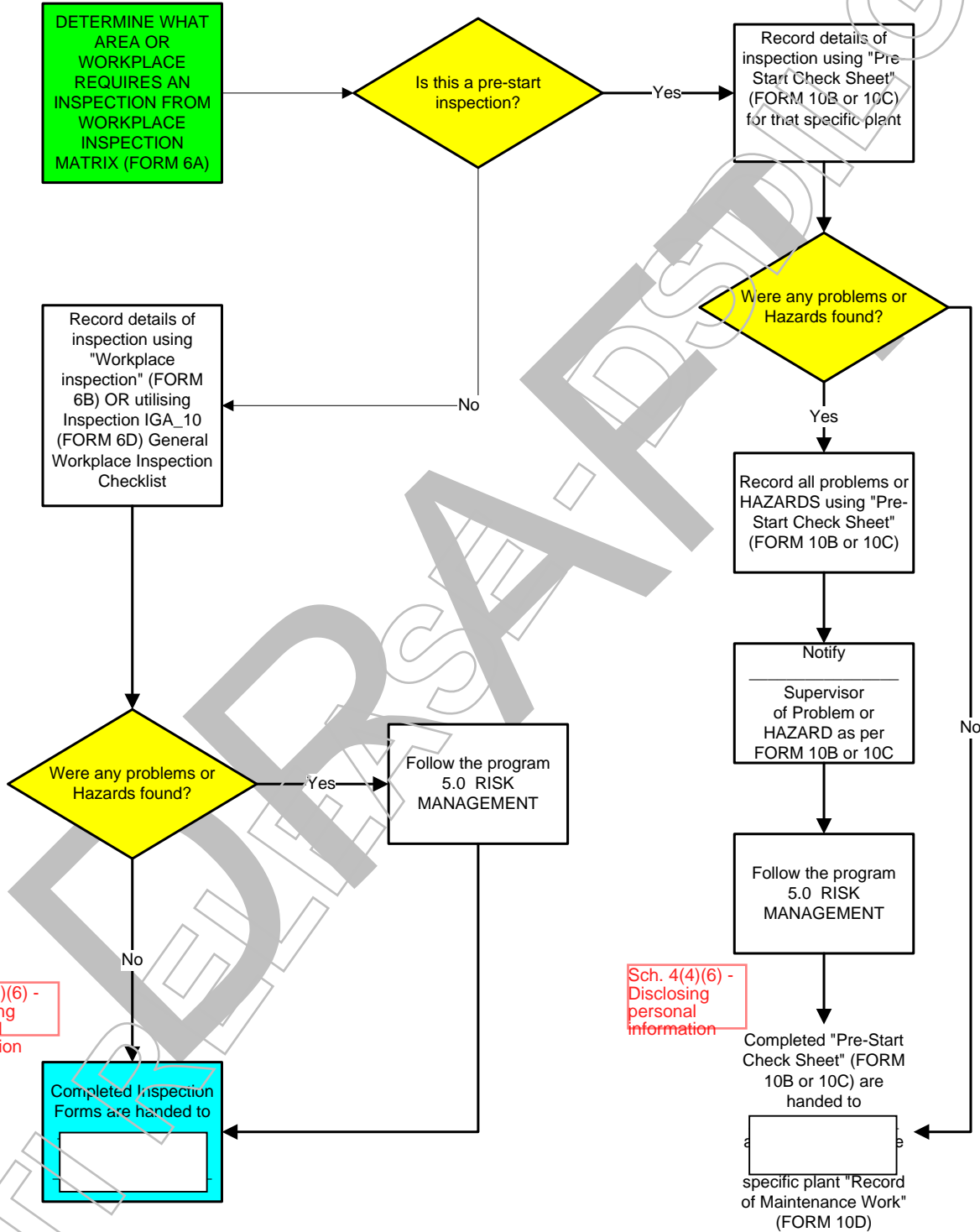
FESTIVAL

GP

4.0	OPEN PIT			PRESCRIBED HAZARD – MHSR cl 36, 37, 46 & 47 "GROUND STABILITY & INRUSH (if applicable)"
4.1	General Geological and geotechnical conditions considered in design, - faults - jointing - face height - potential for subsidence/slumping - potential for accumulation of hazardous substances water or rock - Monitoring system			
4.2	Walls To designed angle Scaled down No cracks or over hangs No loose material/fretting Water seepage Access ramp away from working face			
4.3	Berms Adequate width ratio to wall height Stable surface, no cracks Drainage adequate			
4.4	Pit Surrounds Drainage away from pit Windrows adequate size (eg 2 m high x 1.3 m base) Security adequate (Front entrance and perimeter)			

RTI RELEASED UNDER THE ACCESS TO INFORMATION ACT

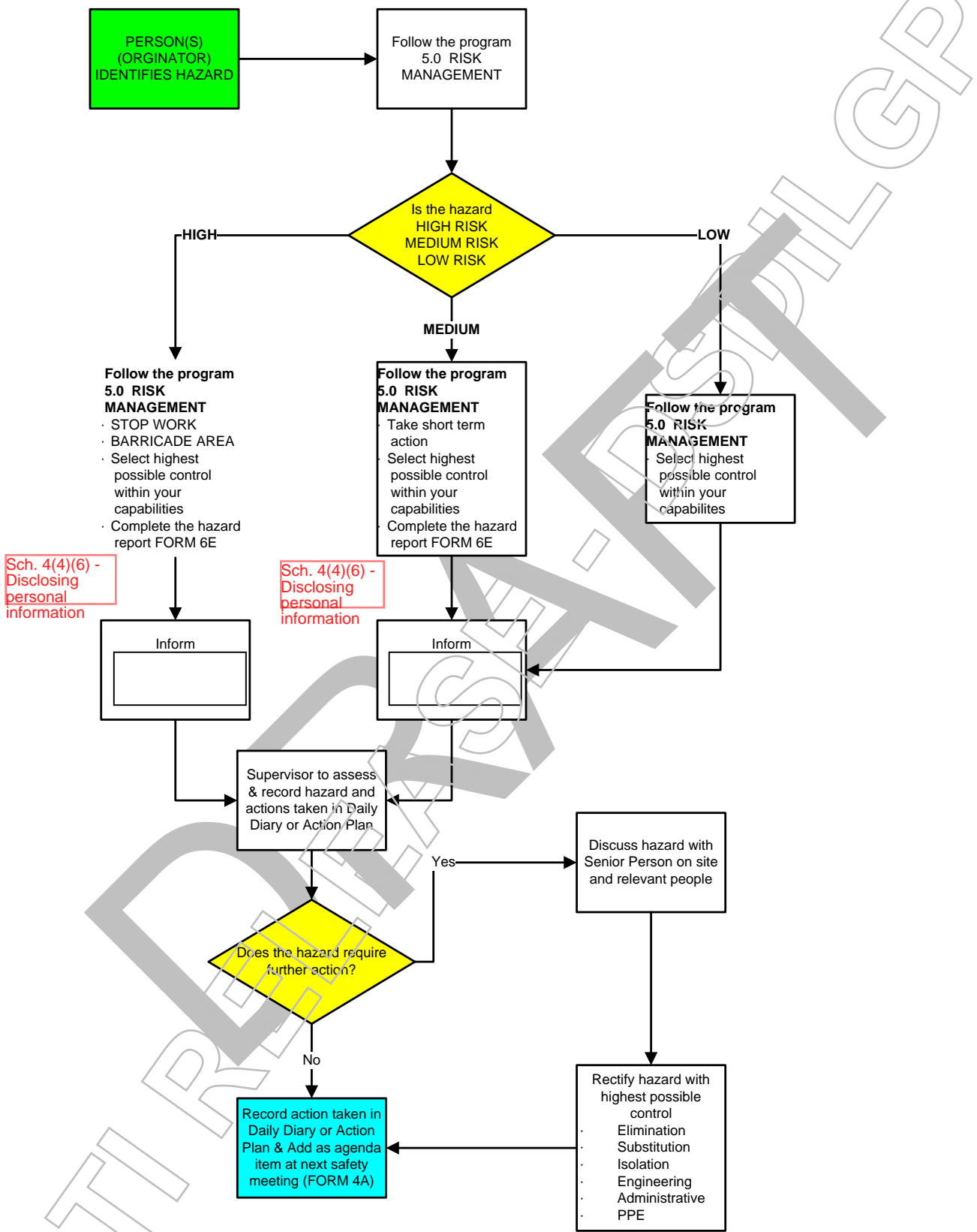
6.0 WORKPLACE INSPECTION



Sch. 4(4)(6) - Disclosing personal information

Sch. 4(4)(6) - Disclosing personal information

6.1 HAZARD IDENTIFICATION & REPORTING



Sch. 4(4)(6) - Disclosing personal information

Sch. 4(4)(6) - Disclosing personal information

7.0 WORK ENVIRONMENT & HEALTH SURVEILLANCE

7.1 AIM: To identify and assess all potential work environment hazards at the site. After identifying these hazards, controls will be developed, including ongoing monitoring programs.

7.2 WHAT: The initial site inspection that was conducted under *Program 5.0: Risk Management*, has been used as the starting point to assess whether our site has any work environment hazards. During this inspection we identified the following hazards that are applicable to our site:

<p>Dust <input type="checkbox"/></p> <p>_____ crushers _____</p> <p>_____ roads _____</p> <p>_____ loading/digging/movement _____</p>	<p>Vibration <input type="checkbox"/></p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Hazard Source</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Hazard Source</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>Noise <input type="checkbox"/></p> <p>_____ crushers _____</p> <p>_____ mobile plant _____</p> <p>_____</p>	<p>Radiation <input type="checkbox"/></p> <p>_____</p> <p>_____</p>	<p>UV PPE air cabs _____</p> <p>_____</p>	
<p><input type="checkbox"/></p> <p>_____ Poor Ergonomics _____</p> <p>_____</p>	<p><input type="checkbox"/></p> <p>_____</p> <p>_____</p>		

Doc: 7.0 Work Environment & Health Surveillance

Approver: Sch. 4(4)(6) -
 Sch. 4(4)(6) -
 Disclosing personal information

Date: 24 October 2014

Program 7 - 1

Hazardous Substances _____

Other _____

7.3 WHO: Safety Advisor/Consultant is responsible for completing the Work Environment – Hazard Management Matrix (FORM 7A) for each of the work environment hazards that were identified during the site inspection.

7.4 HOW: By completing the Work Environment – Hazard Management Matrix (FORM 7A) we will develop a control and monitoring program for each of the identified hazards. Once the control and monitoring program is developed, the site inspection sheet used in Program 6.0 (FORM 6B) will be modified to include a control checklist for the work environment hazards. Immediate controls that are required will be entered onto an action plan or in the daily diary.

7.5 WHEN:

Doc: 7.0 Work Environment & Health Surveillance

Approver

Sch. 4(4)(6) -
Disclosing
personal
information
Disclosing
personal
information

Date: 24 October 2014

Program 7 - 2

Work environment hazards

Inspections: The frequency of work environment inspections will be as per the schedule for workplace inspections (the work environment issues will be included on the workplace inspection checklist).

Monitoring: The frequency of the monitoring program will be as per the schedule determine in the "Review" column of FORM 7A.

Health surveillance

Health surveillance will be carried out according to the schedule in the column "health surveillance" of FORM 7A.

7.6 ACTION: If during the course of normal daily activities or during a workplace inspection, anyone becomes aware of a work environment hazard, then Sch. 4(4)(6) - Disclosing personal information will be notified and the hazard will be recorded on an action plan or in the daily diary.

The person identifying the hazard will apply our site's risk assessment process and will act according to its outcome.

7.7 DOCUMENT CONTROL: All documentation relating to the program (eg FORM 7A) will be filed at the site office.

Any health surveillance information will be treated as strictly confidential and will be filed on the employee's personal file, using the "Health Surveillance Register".

Doc: 7.0 Work Environment & Health Surveillance	Approver: Sch. 4(4)(6) - Disclosing personal information	Date: 24 October 2014	Program 7 - 3
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FORM 7A - Example

WORK ENVIRONMENT - HAZARD MANAGEMENT MATRIX

Hazard	Health effects	Information * legislation *guidelines	Identify source	Measurement	Assess risk	Controls	Review 1. Re-monitor	2. Health Surveillance
Dust	.respiratory	GR 38 – monitor	1. drilling	personal dust		engineer control	when controls in	depending on
	.lung cancer	GR 33 – health	2. crushing	monitoring at each		at each source by:	place re- monitor	results of
	.silicosis	Surveillance	3. screening	source		1. extraction	to gauge	monitoring
		Minerals Industry Safety Handbook	4. drying	max allowable	Near or > limit	2. suppression	effectiveness of	determine which
			5. loading	concentrations:	High	with water	controls.	people require
			6. roads	Respirable: 5mg/cu m		3.remove operator	Depending on	medical check
				silica: 0.2 mg/cu m		from source eg	results, determine	of lungs:
						Air conditioned	new monitoring	any problems
						Cabin	frequency eg.	move people
						4. dust mask		from job, regular
						1 to 3 years	re-examination	
Noise								

Doc: 7.0 Work Environment & Health Surveillance

Approver: Sch. 4(4)(6) - Disclosing personal information
 Sch. 4(4)(6) - Disclosing personal information

Date: 24 October 2014

Program 7 - 4

WORK ENVIRONMENT - HAZARD MANAGEMENT MATRIX

Hazard	Health effects	Information * legislation * guidelines	Identify source	Measurement	Assess risk	Controls	Review 1. Re-monitor	2. Health Surveillance

RTI RELEASE - DSDILGP

8.0 SAFE WORK PROCEDURES

8.1 AIM: To establish a set format that will be used when tasks require the development of a “Safe Work Method Statement” (SWMS). The development of safe work method statements will enable all people on site to carry out jobs in the same, safe, efficient manner. SWMS will be developed by identifying the hazards, assessing the risks, documenting and implementing the controls and providing supervision to ensure people comply with the procedures.

8.2 WHAT: We intend to develop SWMS for the following activities.

Note: (SWMS should be developed for all non routine tasks conducted in a non routine work place or where the risk for the task is found to be HIGH or MEDIUM).

SWMS (to be developed)	Date (for completion)	Who (is responsible)
<i>eg Removing oversize material from the crusher</i>		

8.3 WHO: Sch. 4(4)(6) - Disclosing personal information will organize the development of SWMS. He will request people that are involved in the task assist in the preparation of the SWMS. Wherever possible at least two people will be involved in the development process.

8.4 HOW: We have chosen to use the format in (FORM 8A) to complete our SWMS. This format combines the process of identifying hazards, assessing risk and implementing controls, into one document.

After a task has been selected for a SWMS, the person responsible for organising the group will obtain a copy of FORM 8A and will assemble the team at the place of the task. Once all steps have been identified the process of highlighting hazards will be completed, with an assessment of risk noted. In each case a control method will be chosen, remembering that we will always attempt to apply the hierarchy of controls.

Sch. 4(4)(6) - Disclosing personal information / Site Supervisor will then be responsible for documenting the SWMS and ensuring it is included in the training program and discussed at the next site safety meeting.

Where an activity is classified as “Hot Work”, “Working at Height” or a “Confined Space Entry” (FORM 8B) will be used in addition to any existing SWMS. This form outlines key controls that must be in place before a task is undertaken.

8.5 WHEN: SWMSs will be developed as a method to control risks associated with hazards found at the quarry. We will also continue to develop SWMSs as required, until we have covered all high and medium risk activities at the quarry as well as any SWMS required under the OH&S Act & Regs, MH&S Act & Regs.

8.6 ACTION: Where the process of developing a SWMS highlights a hazard that is **high** or **medium** it will be recorded in the daily diary or action plan for completion.

8.7 DOCUMENT CONTROL: All SWMSs will be filed in the SWMS register located on site. This register will be readily available to the workforce and will include an index at the front.

REFERENCES

Small Mines Safety Management Kit 2nd Ed

FORM 8A SAFE WORK METHOD STATEMENT (PART 2 OF 2)

Personal Qualification & Experience:	Personnel, Duties & Responsibilities:	Training Required to Complete Work:
Engineering Details/Certificates/Approvals:	Codes of Practice, Legislation:	
Plant/Equipment:	Maintenance Checks:	
Read & Signed By Persons Using this SWMS		

High Risk Permits

Permit Number:	Date:	Completed by:
Type: <i>(Please circle)</i> A. Hot Work B. Working at Height C. Confined Space		
Task to be performed: <i>(describe)</i>		
Period of permit: <i>(day)</i>	Time: From	To
Does a SWMS already exist: Yes / No <i>(if yes, review SWMS and proceed by answering related questions)</i>		

1. Task Assessment <i>(Must be completed for all high risk permits)</i>	Yes	No
Has a Risk Assessment been completed for the specific task?: Risk Rating <i>(H/M/L)</i>		
Did the risk assessment highlight a need for a Safe Work Method Statement? <i>(If a SWMS already exists please reference that document and complete the relevant section of this form, if not a SWMS should be developed)</i>		
Have all persons that will be affected by this work been notified?		
Are you required to isolate before starting?		

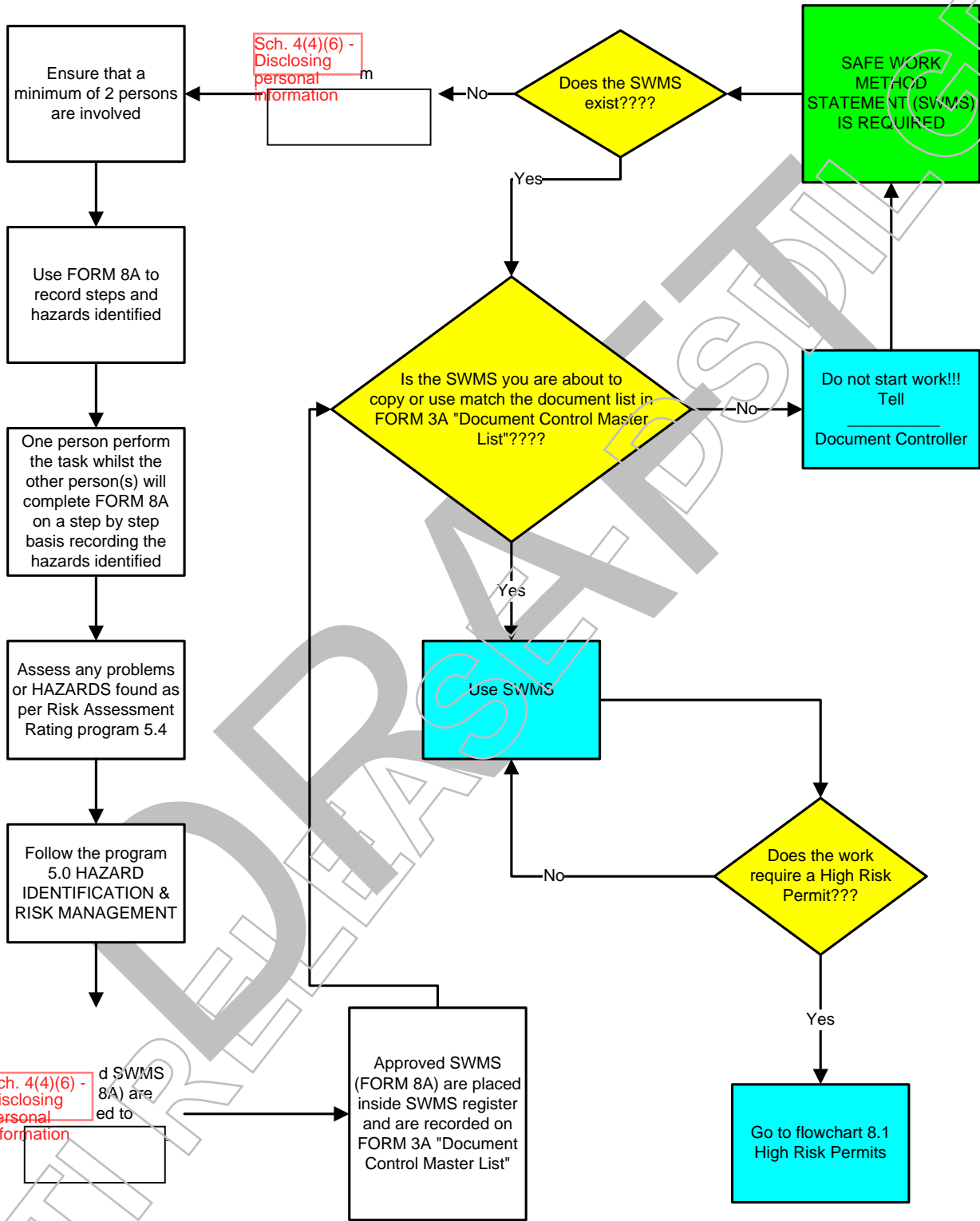
A. Hot Work <i>(includes welding, cutting & grinding outside designated hot work areas, excluding open areas in plant away from combustible materials).</i>	Yes	No
Does a fire ban apply to the location? <i>(You may need to consult the local fire brigade)</i> <i>(Fire rating for the day is _____)</i>		
Is suitable fire fighting equipment available where the task is being performed? <i>(Please list)</i>		
Are flammable and combustible items removed before commencing? <i>(No flammable or combustible items within _____ metres of hot work activities).</i>		
Do you need to wet down combustible areas before commencing hot works? <i>(If yes who will complete this task) Record _____</i>		
Do you need to purge or ventilate for flammable liquids or vapours?		
Do you need a welding screen or welding blanket to complete the task? <i>(if yes please list)</i>		
Do you need to barricade or sign post the area before commencing? <i>(if yes please list)</i>		
What PPE is required to perform the task? <i>(Please list)</i>		
Does the work area need to be hosed down after the task? <i>(Who will complete this task) Record _____</i>		
Do you need to monitor the area after the task has been completed? <i>(if so who will complete this task and for how long) Record _____</i>		

B. Working at Height (access or work at height, above 2 m or greater, that is not a normal place of work.)	Yes	No
Are warning signs & barricades to restrict unauthorised access required? <i>(if yes please list what required and where)</i>		
Is an elevated work (EWP) required to complete the task? <i>Please note some EWPs require licences to operate</i>		
Is scaffolding required to complete the task? <i>Remember scaffolding must be erected/dismantled by certified scaffolders to Aust. Standards</i>		
Is Personnel Fall Prevention Equipment required for the task? (harness & lanyards) <i>You must consider adequate anchorage points, potential loadings and inspection checks</i>		
Are persons able to attach and disconnect to the system without a risk of falling?		
Have you established safe access and egress to the work area?		
Have you considered falling objects and restricted areas? <i>No works to be conducted within metres radius of working at height activities.</i>		
What PPE is required to perform the task? <i>(Please list)</i>		
Have you considered an emergency response plan for recovering a person who may have fallen? (Hang syndrome can have fatal consequences within minutes)		

C. Confined Space (An enclosed or partially enclosed space that is not intended or designed primarily as a place of work. It may also have an atmosphere which is harmful or have restricted entry or exit)	Yes	No
Is there restricted entry or exit to the work area?		
Are you required to conduct pre-entry atmospheric testing? <i>(if yes please list who, what is required and limits)</i>		
Are you required to conduct continuous atmospheric testing during the task? <i>(if yes please list who, what is required and limits)</i>		
Have you a designated standby person in constant communication for the task? <i>(if yes please list who will be the standby person and what is required of them)</i>		
Have you got retrieval/rescue equipment at the confined space location? <i>(if yes please list what equipment and who will be responsible)</i>		
Does the task require other high risk permits to be completed? <i>(Is the work being conducted outside or at height?)</i>		
During the task can you be affected by noise, chemicals/gases/fumes, vibration, flooding, thermal extremes or radiation? (Please circle and address in risk assessment)		
Will the task require manual handling? <i>(Many confined spaces have restricted workspace available)</i>		
Have you identified where you must isolate before starting? <i>(if yes please list who will be responsible for isolating the work area)</i>		
What PPE is required to perform the task? (Please list)		

Permit Approved by Supervisor: _____ **Date:** _____

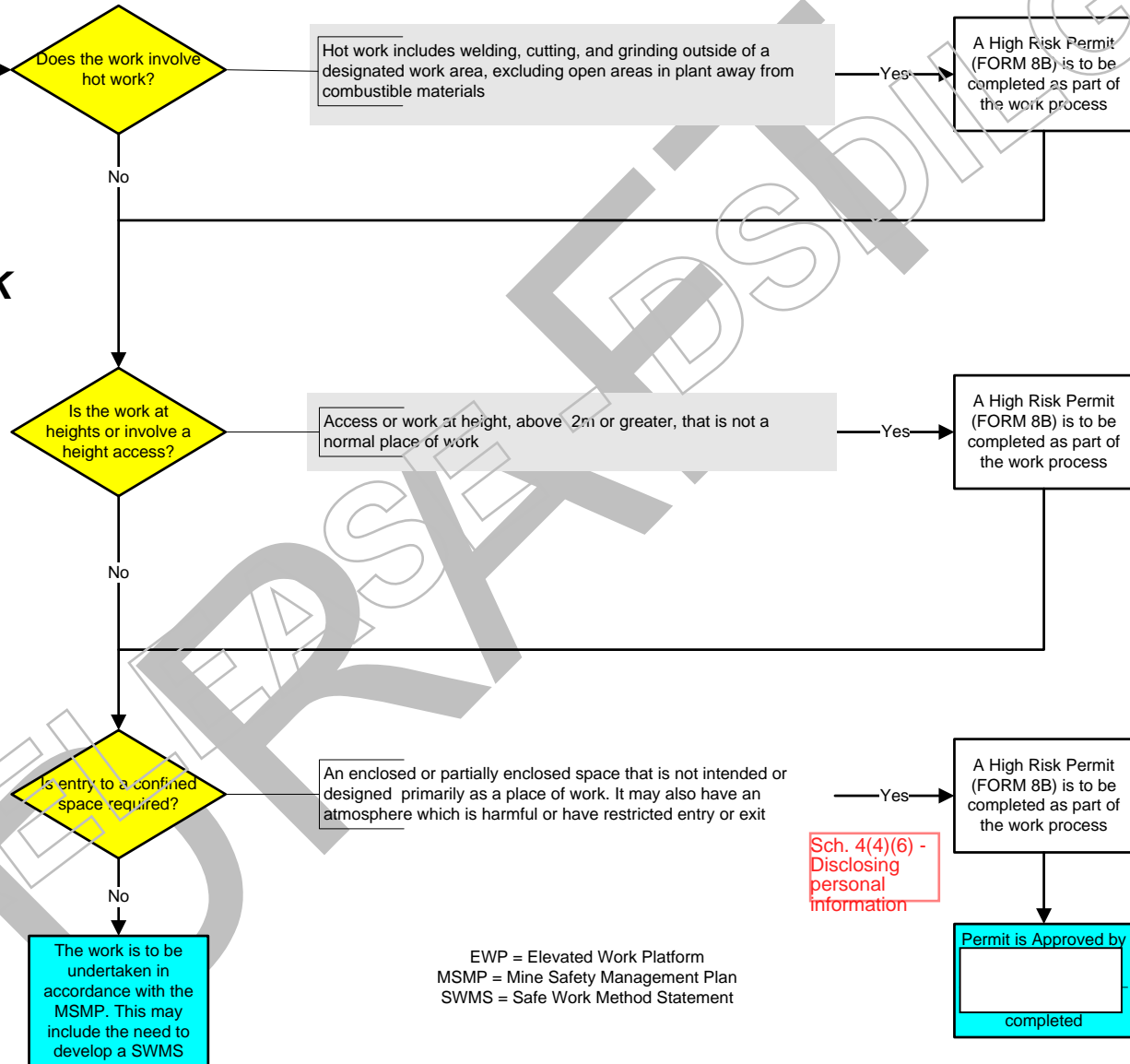
8.0 SAFE WORK METHOD STATEMENTS



SWMS = Safe Work Method Statement

HIGH RISK PERMIT IS REQUIRED

8.1 HIGH RISK PERMITS



9.0 EMERGENCY PLANNING

9.1 AIM: To develop emergency response plans and procedures to prevent further injury to persons, damage to property or the work environment, in the event of an unplanned incident.

9.2 WHAT: Our emergency response plan will consist of:

Procedure

Our procedure (FORM 9A) has been developed to help in the control of emergencies and it includes the following incidents.

- Equipment, Building or Bush Fire
- Medical (injury)
- Flood
- Storms

It has been posted in the site office so that it is near communication and available to everyone on site.

Site Plan

Our site plan drawn on Form 9C is a diagram showing the items below that exist at our operation, (see plan 6C as an example). It is displayed at the site office.

- first aid equipment locations
- emergency assembly point
- quarry face, buildings, roads
- fuel storage areas
- fire fighting equipment
- emergency phones

A letter, (FORM 9B) informing local emergency services of the operations existence will be distributed at the beginning of each year. A copy of the site emergency procedure and plan will be sent with this letter.

First Aid Personnel

There are sufficient people trained to carry out first aid on site during each shift (First Aid Officers). These people will renew their training as required. A list (FORM 9D) will be posted beside all first aid equipment, with the names and photos of the first aid officers.

9.3 WHO: The emergency response plan and procedure has been developed after consultation with the workforce, Mines Inspector and local emergency services.

9.4 HOW: Potential emergencies have been identified by way of the risk management program. After consultation with the employees, and where possible emergency services using FORM 9A, the procedure and plan has been developed. Completed procedures will be communicated to the workforce through our safety meetings.

9.5 WHEN: The procedure will be tested by way of an emergency drill, once per year.

9.6 ACTION: Emergency procedures will be set-up and employees trained in the use of these procedures and their roles during an emergency. Letters, with a copy of the site plan, will be sent to all local emergency services.

9.7 DOCUMENT CONTROL: Emergency procedures and the site plan will be recorded on the "Document Control Master List" (FORM 3A). Originals are to remain part of this SMP.

EMERGENCY PROCEDURE

In the event an emergency

KEEP CALM

DIAL 000

1. Tell the operator which service you require and provide them with the site's details
2. If possible send a person to the front gate to direct Emergency Services

Address: Todd Road and Moody Road, Vasa Views

Nearest Cross Road: Bruce Highway

Contact Name: Sch. 4(4)(6) - Disclosing personal information

Contact Number: xxxxx

GPS Coordinates Lat:- xx Long: xxx

FIRE	MEDICAL
Type of Fire (building, equipment, bush)	No. of persons injured
Size of Fire	Type of emergency
All persons directed to the Emergency Assembly Point to await further instructions	Ensure only essential persons attend the injured
Ensure all persons are accounted for	Type of injuries
If safe to do so remove all plant from the area	Ensure the area is made safe before attempting to render assistance.
Contact Sch. 4(4)(6) - Disclosing personal information	Contact Sch. 4(4)(6) - Disclosing personal information
NOTE: Only attempt to extinguish the fire if safe to do so	NOTE :Once area is safe, complete DRABC (if trained) and give assistance
Contact the Department of Primary Industries Mine Safety	Contact the Department of Primary Industries Mine Safety
Investigate – Program 11	Investigate – program 11

REMEMBER

QUICK RESPONSE CAN SAVE LIVES

FORM 9B

Date: _____

Dear Officers,

I am writing this letter to inform your station of an extractive industry we are operating within your station zone.

The attached page lists the following information:

1. name of operation and manager
2. type of operation
3. written directions to the operation, a map and site plan
4. contact telephone numbers and names
5. extraction taking place
6. plant and equipment used to win and process the product
7. the maximum number of persons that may be on site at the time of an emergency
8. equipment on site to assist in the event of an emergency

The site is open and operating from 6.30am – 5.00pm Monday to Saturday.

We would also like to extend an invitation to all station officers to visit the site for an inspection of the operation and review emergency procedures.

We hope this information may assist officers in the event of an emergency and look forward to further communication with your station.

I may be contacted by telephoning xxxxx for further information or to arrange a site visit.

Yours sincerely,

Sch. 4(4)(6) - Disclosing personal information

DETAILS OF OPERATIONS		
Operation Name	Dillon's Extractive Industries	
Type of Operation	Surface Extraction (Hard Rock)	
LOCATION DETAILS		
Street & No	Moody and Todd Roads, Vasa Views	
Suburb / Town	Innisfail	
Nearest Cross Road	Bruce Highway	
GPS Coordinates	Lat: xxx	Long: xxx
CONTACTS		
Primary Contact	Sch. 4(4)(6) - Disclosing personal information	Phone:
Secondary Contact	Office Manager	Phone:
After Hours Contact	Sch. 4(4)(6) - Disclosing personal information	Phone:
Maximum Number of People on site	10	
DETAILS OF WORK UNDERTAKEN		
Excavators feed screens and crushers directly from the operations face. Material is then transferred to stock piles by loader. Dump trucks are filled at the stock pile area by loader.		
Raw rock is extracted, sorted and loaded onto dump trucks by excavators. Waste/unused material is transferred by dump trucks to stockpiles on the site.		
All dump trucks leaving the site go over the weigh bridge in front of the office and then leave the site via Moody Road.		
PLANT & EQUIPMENT ON SITE		
3 x excavators	3 x light vehicles	
1 x quarry dump truck	1 x water truck	
4 x highway tip trucks		
3 x crusher screener plants		
2 x front end loaders		
1 x skid steer		
CHEMICALS / FUELS / EXPLOSIVES ON SITE		
200L Diesel store		
EMERGENCY EQUIPMENT ON SITE		
First aid kit		
Fire extinguishers		
Fire blanket		
Name		
Sch. 4(4)(6) - Disclosing personal information	Signature	Date

FORM 9C SITE PLAN

INSERT SITE PLAN

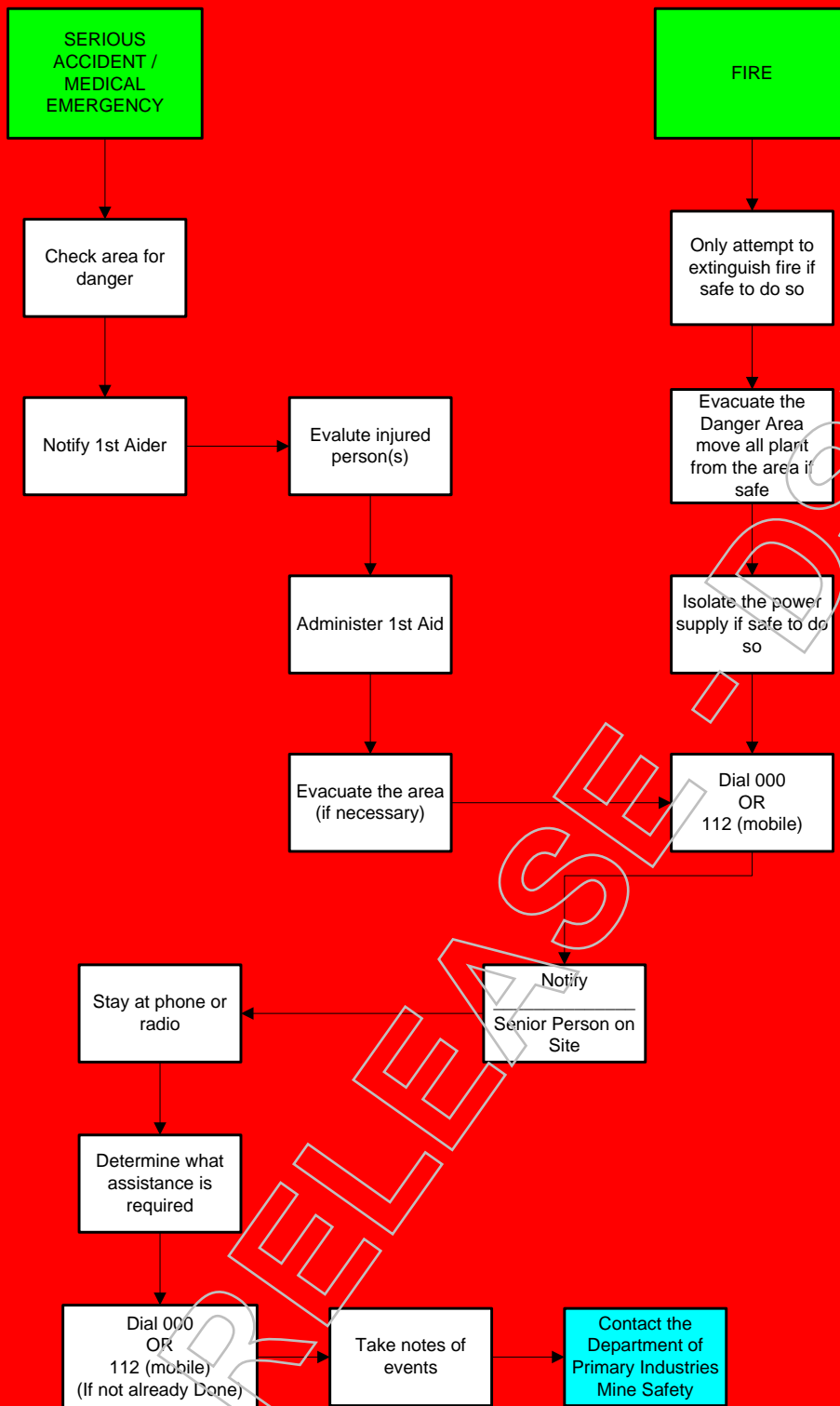
RTI RELEASED
DRAFT
DSDILGP

FORM 9D

FIRST AID OFFICERS

Name	Qualification	Date issued	Expire Date
Sch. 4(4)(6) - Disclosing personal information			
Office Manager			
Any other personnel?			

9.0 EMERGENCY PROCEDURE



10.0 MAINTENANCE

10.1 AIM: To provide a system that allows all plant and equipment that is used on site to be regularly inspected and maintained. All maintenance will be recorded to provide a history of work completed and to enable better planning of scheduled maintenance.

10.2 WHAT: This maintenance program includes all the pieces of plant and equipment contained on the Plant Register (FORM 10A).

10.3 WHO: The people responsible for completing maintenance activities are listed on the Maintenance Schedule (FORM 10A).

10.4 HOW: The SSE will be responsible for developing a full list of plant and equipment on site, known as a Plant Register (FORM 10A). Once the plant register is completed

Sch. 4(4)(6) -
Disclosing personal
information

will then allocate the type of maintenance and the frequency of maintenance to be completed on all mobile plant.

Sch. 4(4)(6)
- Disclosing
personal
information

Maintenance will be performed according to the following methods:

Daily Operators Inspection: (FORM 10B) – according to the type of plant.

Scheduled: According to the manufacturer's service manuals or previously established systems (if service manuals are not available).

Service manuals for each piece of plant and equipment are available and are located at the site office.

LOCKOUT/TAGOUT:

Lockout/Tagout Procedure (FORM 10_)

Lockout Register)Form 10/16 _)

10.5 WHEN: Maintenance will be conducted on each piece of plant and equipment as per the "Plant Register & Maintenance Schedule" (FORM 10A). These frequencies are based on information obtained from the respective plant service manuals.

10.6 ACTION: If during the course of completing any pre start checks something is found not to meet the site's standards, then the person completing the maintenance will record it on (FORM 10B) and will notify

Sch. 4(4)(6) - Disclosing
personal information

of the problem. If the problem is not fixed immediately then the hazard will be recorded in the Hazard Reporting Booklet or action plan.

10.7 DOCUMENT CONTROL: Each piece of plant and equipment will have its own plant file/ record book located at the site office (FORM 10C).

Daily Operators Inspection: The plant operator will be responsible for collecting the Daily Operators Inspection forms and Fiona Bonassi will be responsible for filing the documents in each plant file/book.

Scheduled Maintenance: All scheduled maintenance will be recorded in the plant file/record book (*eg attach completed supplier service sheets, where applicable*),

Breakdown Maintenance: All unexpected breakdown maintenance will be recorded on the plant file/ record book.

External Service Provider: All documentation received during the course of completing service work by external service providers will be recorded in the plant file/record book.

FORM 10 A – Example

PLANT REGISTER & MAINTENANCE SCHEDULE

TYPE	DETAILS - Rego - Make - Item number	TYPE OF MAINTENANCE - Pre start - Scheduled	FREQUENCY Of maintenance	WHO Performs maintenance	FORMS To be used
MOBILE					
e.g Loader	Cat 966C #2	Pre start	Daily	Operator	FORM 10 B
Loader	Cat 966C #2	Regular Service	250 hour	Mechanic	Service Manual
FIXED PLANT					
e.g Screen	Power Screen #1	Scheduled	Weekly, tonnes or hours ?	Operator & Mechanic	FORM 10 B
ELECTRICAL					
eg Earthleakage	Crusher	Scheduled	Weekly	Operator	
Earthleakage	Crusher	Scheduled	6 monthly	Electrician	

Form 10B BOBCAT __ - DAILY OPERATOR'S INSPECTION

WEEK BEGINNING MONDAY / / .

		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	
NO	ITEM	PASS/FAIL	PASS/FAIL	PASS/FAIL	PASS/FAIL	PASS/FAIL	PASS/FAIL	PASS/FAIL	COMMENTS
1	AIRCONDITIONING								
2	BELTS								
3	BRAKES/BRAKE TEST								
4	BUCKET/TEETH/SHROU DS								
6	FIRE EXTINGUISHER								
8	GREASE								
9	DOOR HANDLES								
10	HORN								
11	LIGHTS/FLASHING								
12	MIRRORS								
13	RADIATOR/HOSES								
14	OIL/WATER								
15	SEAT/SEAT BELTS								
16	TWO WAY RADIO								
17	TYRES								
18	WINDOW WIPERS								
HOURS START/END									
DATE									
DRIVER SIGNATURE									

Form 10B EXCAVATOR ___ - DAILY OPERATOR'S INSPECTION

WEEK BEGINNING MONDAY ___ / ___ / ___ .

NO	ITEM	MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY		SUNDAY		COMMENTS
		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		
1	AIRCONDITIONING															
2	SEAT/BELTS															
3	BRAKES/BRAKE TEST															
4	BUCKET/TEETH/SHROUDS															
6	FIRE EXTINGUISHER															
8	GREASE															
9	DOOR HANDLES															
10	HORN															
11	LIGHTS/FLASHING															
12	MIRRORS															
15	SEAT/SEAT BELTS															
16	TWO WAY RADIO															
17	TRACKS/CHAINS/SHOES															
18	WINDOW WIPERS															
FLUID LEVELS		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		COMMENTS
ENGINE OIL LEVEL																
SLEW OIL LEVEL																
RADIATOR WATER LEVEL																
FLUID LEAKS																
HOURS START/END		/		/		/		/		/		/		/		
DATE		/		/		/		/		/		/		/		
DRIVER SIGNATURE																

Form 10B LOADER __ - DAILY OPERATOR'S INSPECTION

WEEK BEGINNING MONDAY / / .

NO	ITEM	MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY		SUNDAY		COMMENTS
		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		PASS/FAIL		
1	AIRCONDITIONING															
2	BELTS															
3	BRAKES/BRAKE TEST															
4	BUCKET/TEETH/SHROUDS															
6	FIRE EXTINGUISHER															
8	GREASE															
9	DOOR HANDLES															
10	HORN															
11	LIGHTS/FLASHING															
12	MIRRORS															
13	OIL/WATER															
14	RADIATOR/ HOSES															
15	SEAT/SEAT BELTS															
16	TWO WAY RADIO															
17	TYRES															
18	WINDOW WIPERS															
HOURS START/END																
DATE																
DRIVER SIGNATURE																

Form 10B CRUSHER - MAINTENANCE SCHEDULE

DATE: ___/___/___

METRE START _____ METRE END _____

OPERATOR NAME _____ SIGNATURE _____

General Maintenance

	MAINTENANCE TASK	NOTES
Check for Material Build Up	Check/Remove	
Check All Safety Guards are in place	Check/Replace	
Check for loose parts, missing nuts & bolts	Tighten/Replace	
Check Hydraulic hoses, Rams & Pumps for leaks (when tightening fittings use a Torque wrench and follow the torque setting on the following page)	Tighten/Replace	
Check Hydraulic oil level in site gauge	Check/Top up	
Check Diesel Level in fuel tank	Check/Refill	
Check indicator on pressure inlet filter	Check	

Conveyor Maintenance

	MAINTENANCE TASK	NOTES
Check Conveyor belts for rips and tears	Check/Repair	
Check Belt Tension	Check/Tension	
Check Belt Alignment	Check/Align	
Check all rollers are free moving and free from obstruction	Check/Free	

Engine Maintenance (See Engine operator's manual for more details)

	MAINTENANCE TASK	NOTES
Check Engine Oil Level	Check/Top Up	
Check Water Coolant Level	Check/Top Up	
Check Engine Air Cleaner Service Indicator	Check	
Check Colour in Contamination Control Breather on Hydraulic Tank	Check	

Track Maintenance

	MAINTENANCE TASK	NOTES
Check Tension of Tracks	Check/Tension	
Check Tracks for oil leakage	Check/Repair	

Crusher Maintenance (See Crusher operator's manual for more details)

	MAINTENANCE TASK	NOTES
Check for loose bolts and parts	Check	
Check the Vee belts for slippage	Check/Tension	
Check for unusual noise when operating	Check	

Feeder Maintenance

	MAINTENANCE TASK	NOTES
Check oil level in vibrator unit	Check/Top up	
Check Mesh Securing bolts are tight	Check	
Check Mesh for wear	Check	

Form 10B SCREENING PLANT - MAINTENANCE SCHEDULE

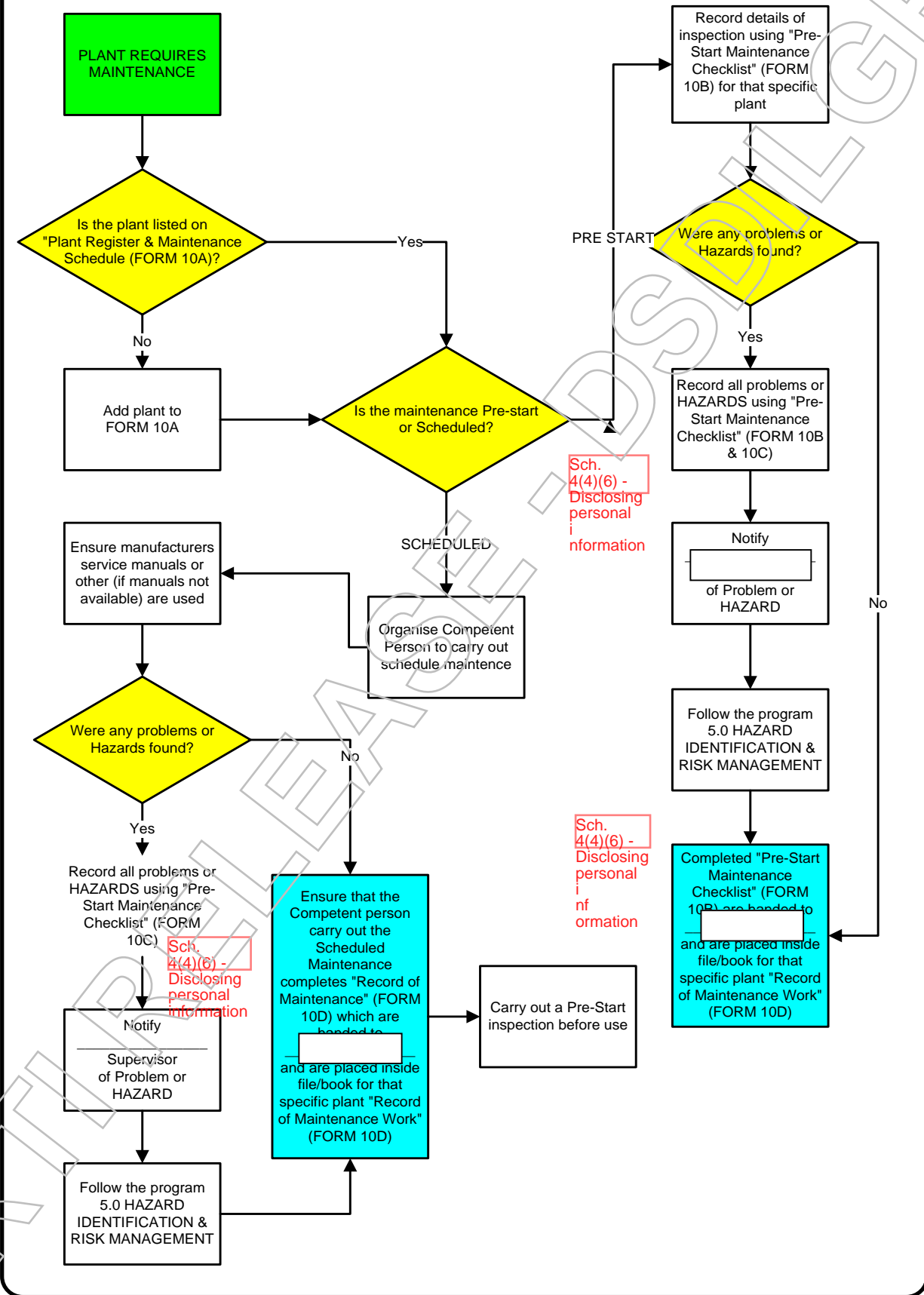
DATE: ___/___/___

METRE START _____ METRE END _____

OPERATOR NAME _____ SIGNATURE _____

NO	ITEM	OK	COMMENTS
1	DRIVE BELTS		
2	TRACKS		
3	WATER LEAKS		
4	OIL LEAKS		
5	FUEL LEAKS		
6	STEPS AND SAFETY RAILS		
7	BARRICADES		
8	FLASHING LIGHTS		
9	CRUSHING HAMMERS		
10	SCREENS		
11	CONVEYOR BELTS		
12	LANYARDS		
13	FUEL LEVEL		
14	NIP POINTS, DRUMS AND ROLLERS		
15	MATERIAL AROUND HYDRAULIC HOSES		
16	LOOSE BOLTS		
17	GENERAL HOUSE KEEPING		
18	ENGINE OIL LEVEL		
19	ENGINE COOLANT LEVEL		
20	HYDRAULIC OIL LEVEL		
21			
22			

10.0 MAINTENANCE



11.0 ACCIDENT & INCIDENT REPORTING

11.1 AIM: The aim of this program is to ensure that all accidents and incidents are reported and recorded in a standard format. This allows the site senior executive to take positive action to prevent a repeat of the incidents. The program also contains a procedure that will allow the site senior executive to determine which accidents and incidents will be investigated.

11.2 WHAT: The following accidents and incidents will be reported as required by this program.

First Aid Injuries	Near Misses
Off Site Medical Treatment	Dangerous Incidents
Lost Time Injuries	Death of a person
Serious Injuries	

11.3 WHO: It is the responsibility of the person who has been injured to report the accident or incident. The SSE Sch. 4(4)(6) - Disclosing personal information will be responsible for ensuring that the forms are filled out correctly and that they are forwarded to the correct people, eg inspectorate and WorkCover.

11.4 HOW:

First Aid Injuries: All first aid injuries will be recorded in the register of injuries that is located in the site office (FORM 11A). This register will be the starting point for all injuries, whether they are first aid, require off site medical treatment or are a serious injury.

Off Site Medical Treatment: If a person requires off site medical treatment then the person nominated in 11.3 will fill out the register of injuries and the accident/incident report and investigation form (FORM 11B). The form is located in the site office.

Lost Time Injury: If a person has an accident on site which stops them from returning to work the next day, even if it doesn't require first aid, then it will be recorded on (FORM 11B) and notified to the inspectorate by filling out the online Queensland Mining Industry Incident Report Form at https://webgis.dme.qld.gov.au/mir/incident_form.php

Serious Injury: If a person has a serious injury the local inspector will be contacted immediately by Sch. 4(4)(6) - Disclosing personal information. The accident will be recorded on (FORM 11B) and notified to the inspectorate by filling out the online Queensland Mining Industry Incident Report Form at https://webgis.dme.qld.gov.au/mir/incident_form.php within 24 hours of the incident occurring.

High potential Incidents: If anyone on site has a near miss or dangerous incident, without injury, then it will be reported to Sch. 4(4)(6) - Disclosing personal information and recorded on (FORM 11B). The site senior executive will then decide if it is reportable to the inspectorate. (Table 1 may be used as a guide). If so, then the local Inspector will be phoned immediately and the inspectorate notified by filling out the online Queensland Mining Industry Incident Report Form at https://webgis.dme.qld.gov.au/mir/incident_form.php within 24 hours of the incident occurring.

11.5 WHEN: All accidents and incidents will be recorded on the appropriate forms at the earliest possible time after the event.

All documentation will be kept for a minimum of 5 years.

Sch. 4(4)(6) - Disclosing personal information will discuss any accident or incident reports at the safety meetings to ensure that everyone is aware of the outcomes of the investigations.

11.6 ACTION: Sch. 4(4)(6) - Disclosing personal information and the safety consultant will review all accident and incident reports and will decide on which events will be **investigated**. The investigation will be completed by Sch. 4(4)(6) - Disclosing personal information and Competent Safety Advisor/Consultant (FORM 11B section C & D). The results of the investigation will be discussed at the next safety meeting and the Sch. 4(4)(6) - Disclosing personal information will make sure that any identified hazards are recorded on an action plan or daily diary and are completed and signed off.

11.7 DOCUMENT CONTROL: All information relating to accidents, incidents or investigations, including inspectorate forms, will be filed in Safety File located in the site office.

Table 1 - Legislative Requirements for Reporting High Potential Incidents and Serious Accidents

Any of the following High Potential Incidents / Serious Accidents	Mining and Quarrying Safety and Health Act 1999				
	Section 195(1)	Section 195(5)	Section 195(4)	Section 197(1)	Sect.198(1)(c)
	Notify Inspector & DWR immediately	Oral report confirmed by notice within 24 hours	Oral report confirmed by notice within 48 hours	Site not to be interfered with without permission	Report to be submitted within 1 month
An incident causing the death of a person	✓	✓	✗	✓	✓
An incident causing admission to hospital as an in-patient for treatment.	✓	✗	✓	✓	✓
An incident causing an injury causing, or likely to cause, permanent injury to health.	✓	✗	✓	✓	✓
An incident causing a person to become unconscious	✓	✗	✓	✓	✓
Theft or other loss of explosive	✓	✗	✓	✓	✓
The entrapment of a person.	✓	✗	✓	✓	✓
An incident causing an emergency evacuation of the mine, or part of it, other than as part of a training exercise.	✓	✗	✓	✓	✓
A catastrophic or major structural failure of plant.	✓	✗	✓	✓	✓
A following incident that has the potential to cause a significant adverse effect on the safety or health of a person *					
A fire	✓	✗	✓	✓	✓
An intrush	✓	✗	✓	✓	✓
Damage to, or failure of haulage or winding or lifting equipment.	✓	✗	✓	✓	✓
An unplanned movement of, or failure to stop, a vehicle	✓	✗	✓	✓	✓

FORM 11 B - ACCIDENT / INCIDENT REPORT & INVESTIGATION FORM

Report No. _____

SECTION A

WHO was injured (or involved in dangerous incident)? Surname: _____

Given Name: _____

WHO were witnesses?

WHO was the supervisor?

WHO was the accident/incident first reported to?

Time: _____

Date: _____

WHEN did the accident / incident occur?

Time: _____

Date: _____

WHERE did the accident / incident occur (be specific)

HOW did the accident / incident occur?

WHAT was the injury? (if none N/A)

Part of body: _____

WAS the employee referred to Doctor? Yes / No

WAS the employee hospitalised? Yes / No

HAS employee returned to work Yes / No

Other

Is this a lost time injury? Yes / No

Signed (First Aider): _____

Date: _____

SECTION B - INVESTIGATION BY SITE SENIOR EXECUTIVE or DELEGATE

HOW and WHY did the accident / incident happen (explain how and what the employee was doing and with what)

WAS the situation covered by Safe Work Procedure?

SECTION C - ACCIDENT / INCIDENT CAUSE ANALYSIS

Report No.

(If more space is required please attach extra pages to the back)

IMMEDIATE CAUSES Work environment, equipment and work processes / procedures / practices (list each of the immediate factors that appear to have caused the accident e.g. machine unguarded, operator used wrong tool, forklift with tynes up, fumes ignited etc)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

UNDERLYING (BASIC) CAUSES – SYSTEMS FAILURES (eg inadequate training programs, inadequate work procedures, inadequate maintenance system, inadequate housekeeping system)

GENERAL RECOMMENDATIONS (review systems identified above)

SECTION D SITE SENIOR EXECUTIVE'S PLAN / ASSESSMENT - ACTION PLAN

What's to be done	Who's to do it	By when

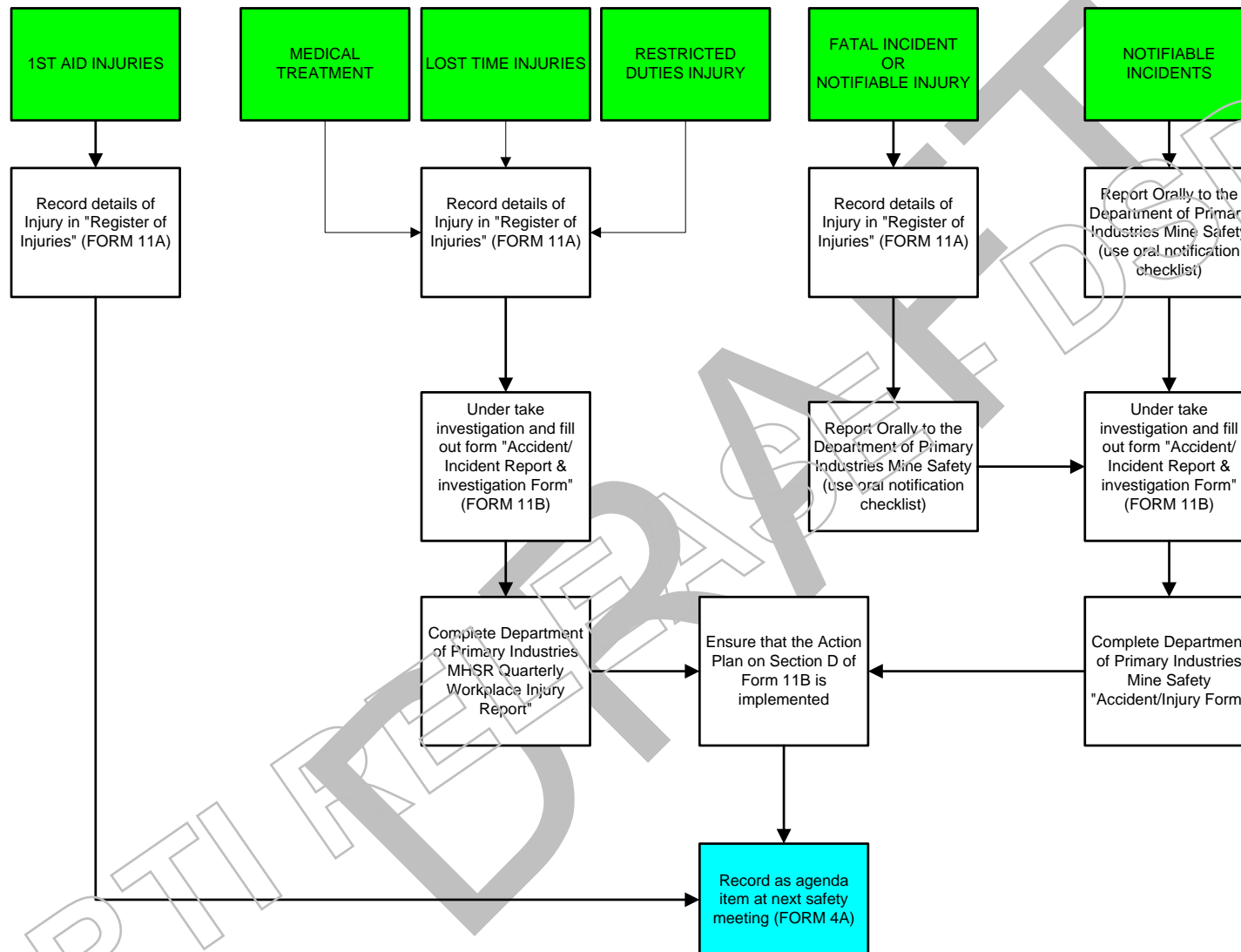
COMMENTS (Please include a picture/diagram of accident / incident) _____

Signature (SSE) _____

REVIEW AT SAFETY MEETING: ___ Yes/No ___ Date _____ Additional work required? Yes/No

RTI REQUESTED

11.0 ACCIDENT & INCIDENT REPORTING



12.0 CONTRACTOR and VISITOR MANAGEMENT

12.1 AIM: To allow the operator to control all visitors to the site, including their plant and equipment. It will ensure that visitors, employees and contractors are suitably trained and equipped, and that their plant and equipment is safe and fit for purpose for the work being carried out.

12.2 WHAT: All people visiting the site, whether for private or commercial reasons, will be controlled by our contractor management program. This will be achieved by ensuring all people are made aware of their health and safety requirements, including equipment standards.

Each category of visitor/contractor will be controlled according to the level of risk they will be exposed to on site.

12.3 WHO: All people who enter the site will proceed past the site office and they will be managed depending on their category. Table 1 indicates who will be able to complete the various types of induction.

ALL NEW EMPLOYEES WILL BE CONSIDERED A MEDIUM RISK. THEY WILL COMPLETE AN INDUCTION WHEN THEY START WORK.

12.4 HOW: Each contractor/visitor will be assessed against the following table to determine the type of induction required. If the company representative believes the contractor/visitor may be exposed to a higher risk category, then nothing shall prevent them from insisting that the contractor/visitor complete a higher category of induction.

VISITOR TYPE	WHO (example)	TYPE OF CONTROL	BY WHO	FREQUENCY	FORM
Low risk	<ul style="list-style-type: none"> ▪ Visitors ▪ Salespersons ▪ Industry reps ▪ Govt Officers ▪ Office equipment, cleaners & catering contractors ▪ Family 	<ul style="list-style-type: none"> ▪ Site rules (verbal) ▪ Stay in company of employee ▪ PPE ▪ Visitors book 	Anyone trained	Per visit	FORM 12A FORM 12B
Medium risk	<ul style="list-style-type: none"> ▪ Trucking contractors ▪ Electrician ▪ Boilermaker ▪ New employees 	<ul style="list-style-type: none"> ▪ Site induction ▪ Evidence of competency ▪ Insurances ▪ PPE ▪ Check equipment ▪ Copy of SWMS's 	PM or trained person	Once a year	FORM 12C section 1
High risk	<ul style="list-style-type: none"> ▪ Major contractors ▪ Drilling/Blasting ▪ Contract Crushing ▪ Project work ▪ Any activity considered high risk 	<ul style="list-style-type: none"> ▪ As per medium risk, plus ▪ Approved contractor safety management plan 	Senior most Person in Management Structure	Per project	FORM 12C section 1&2

Table 1: Visitor risk categories

12.5 WHEN: Each person entering the quarry will be controlled by the induction program suitable to their risk, at a frequency according to the table above. A refresher course will be conducted immediately by Sch. 4(4)(6) - Disclosing personal information to notify contractors/employees of any changes to the QSMS.

Prior to engaging a contractor of High Risk they will undergo an assessment as per Form 12 D "Contractors Assessment". Contractors on site will be inspected as per Program 6.0 WORKPLACE INSPECTION & HAZARD REPORTING

12.6 ACTION: If during the course of completing an induction, the visitor/employee/contractor brings to the attention of the company representative any additional hazards or issues, the company representative will bring these issues to the attention of Sch. 4(4)(6) - Disclosing personal information

Sch. 4(4)(6) - Disclosing personal information

Since we anticipate engaging contractors from time to time we have a 'subby pack and subby pack checklist' (Form 12D) ready for contractors who are assessed as in the high risk category.

12.7 DOCUMENT CONTROL: All inductions completed under medium risk and high risk categories will be signed by the employee/contractor and the inducting officer will transfer their name onto the induction register.

Each person being inducted will keep a copy of the site safety rules. The induction form will be filed with the induction register.

FORM 12 A

DILLON'S EXTRACTIVE INDUSTRIES - SITE SAFETY RULES

Thank you for visiting our site.

While you are visiting our site we are responsible for your health and safety. These site rules summarise the work practices that apply to our quarry. The nominated company representative will read through this document with you and will discuss any issues that arise.

- THE PERSON RESPONSIBLE FOR YOUR SUPERVISION IS Sch. 4(4)(6) - Disclosing personal information
- A FIRST AID KIT IS LOCATED IN THE SITE OFFICE AND FIRST AID TRAINED STAFF PHOTOS ARE DISPLAYED
- IN THE CASE OF AN EMERGENCY, GO TO THE EMERGENCY ASSEMBLY POINT AT THE QUARRY ENTRANCE AND FOLLOW THE EMERGENCY PROCEDURE
- YOU CAN ONLY VISIT THOSE AREAS AS DIRECTED BY THE COMPANY EMPLOYEE
- YOU MUST WEAR PERSONAL PROTECTIVE EQUIPMENT (PPE) AS INDICATED BY THE SIGNS ON SITE OR AS INDICATED BY THIS SAFETY PLAN
- YOU MUST REPORT TO QUARRY STAFF WHEN YOU ARRIVE ON SITE
- PLEASE BE AWARE OF MOBILE PLANT AT ALL TIMES
- OUR COMPANY POLICY ON CHILDREN ENTERING THE SITE IS THERE WILL BE NO CHILDREN PERMITTED BEYOND THE SITE OFFICE
- TRAFFIC WILL ABIDE BY THE SITE SPEED LIMIT, WHICH IS 20 Km/h
- IF YOU SEE ANY HAZARDS ON SITE PLEASE REPORT THEM IMMEDIATELY TO A STAFF MEMBER

This document will be brought to the attention of all people entering the site.

FORM 12C

CONTRACTOR/VISITOR & EMPLOYEE INDUCTION

This induction form is to be completed by any contractor/employee or visitor that is considered a medium risk or high risk. This form is to be completed by a suitably authorised person.

SECTION 1

To be completed by **Medium Risk** **High Risk** (Circle Risk Category)

Contractors/Employee/Visitor Name:
Name of Company or Trade Name:
Contact Details:
Date of Induction:
Person Completing Induction:
Type of Work being carried out:

The following items will be discussed with the new contractor / employee:

You need to check: (✓ or x)

- The contractor/employee/visitor will be shown a copy of the site rules
- Isolation procedure
- Drug and alcohol policy (Program 14)
- Reporting of accidents and incidents (Program 11)
- Reporting of hazards (FORM 6E)
- Other issues _____

In addition, the following will be discussed with a new employee:

- Conditions of employment
- Description of job
- Dillon's Extractive Industries Safety Management System provided (SSE will discuss the contents of the QSMS, contractor/employee to familiarise themselves with procedures)

All contractors/employees must provide copies of licences and tickets before the commencement of Work.

All contractors must provide copies of insurance and recent machinery service details.

I have reviewed and discussed the information on this form with the company representative.

Signed Contractor/Employee/Visitor _____ Date _____

Signed (SSE or Supervisor providing induction) _____ Date _____

Operating Equipment

Where a contractor is bringing equipment on to quarry, Sch. 4(4)(6) - Disclosing personal information will inspect the equipment the first time it arrives to ensure that it meets the quarry's equipment standards. The Contractor will conduct regular inspections to confirm that the equipment is maintained to this standard.

You need to check: (✓ or x)	
<ul style="list-style-type: none"> ▪ Necessary licences/permits are held (record details) _____ <input type="checkbox"/> ▪ Sch. 4(4)(6) - Disclosing personal information has assessed operator to be competent <input type="checkbox"/> ▪ Does mobile plant conform to site Standards? <input type="checkbox"/> <ul style="list-style-type: none"> ROPs CANOPY (except for Road Trucks, Drills, Excavator)? All safety guards fitted? Seatbelt fitted and in good condition? Fire extinguisher fitted and charged? Reverse alarm operational? All vehicle systems operational? ▪ Other issues _____ <input type="checkbox"/> 	<ul style="list-style-type: none"> ▪ Have power tools been checked recently (tagged by electrician)? <input type="checkbox"/> ▪ Flashback arrestors fitted to oxy-acetylene equipment <input type="checkbox"/> ▪ First aid facilities be available for the full duration of the job <input type="checkbox"/> ▪ Are fire fighting facilities available? <input type="checkbox"/> ▪ Has entry/exit to the site been agreed (after hours work)? <input type="checkbox"/> ▪ HAS AN ASSESSMENT OF THE HAZARDS ASSOCIATED WITH THE WORK BEEN CARRIED OUT? <input type="checkbox"/> ▪ SWMS PROVIDED <input type="checkbox"/> ▪ MSDS <input type="checkbox"/>

I have reviewed and discussed the material in section 1 of this "Contractor and Employee Induction" with the company representative.

Signed Contractor/Employee/Visitor: **Date:**

Signed (Person providing induction): **Date**

SECTION 2

To be completed by **High risk only**

Where a contractor is conducting work that is classified as a high risk due to:

- the complexity and size of the project;
- the requirement for increased supervision; or
- the fact that the work requires greater technical knowledge.

Senior Management **may** require the contractor to prepare and provide a “Contractor Safety Management Plan” of his own, that includes an assessment of risks associated with the work to be carried out by the contractor at the quarry.

I have supplied to _____ a copy of our “Contractor Safety Management Plan” and SWMS’s. These documents include an assessment of the risks associated with the work to be carried out.

Signed Contractor **Date:**

I have reviewed the “Contractor Safety Management Plan” using FORM 12D and SWMS’s and found them to be acceptable.

Signed Senior Manager on Site..... **Date**

Doc: 12.0 Contractor & Visitor Management	Approver: Sch. 4(4)(6) - Disclosing personal information	Date: 24/10/2014	Program 12 - 8
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Form 12D - CONTRACTOR CHECKLIST (for high risk contracts)

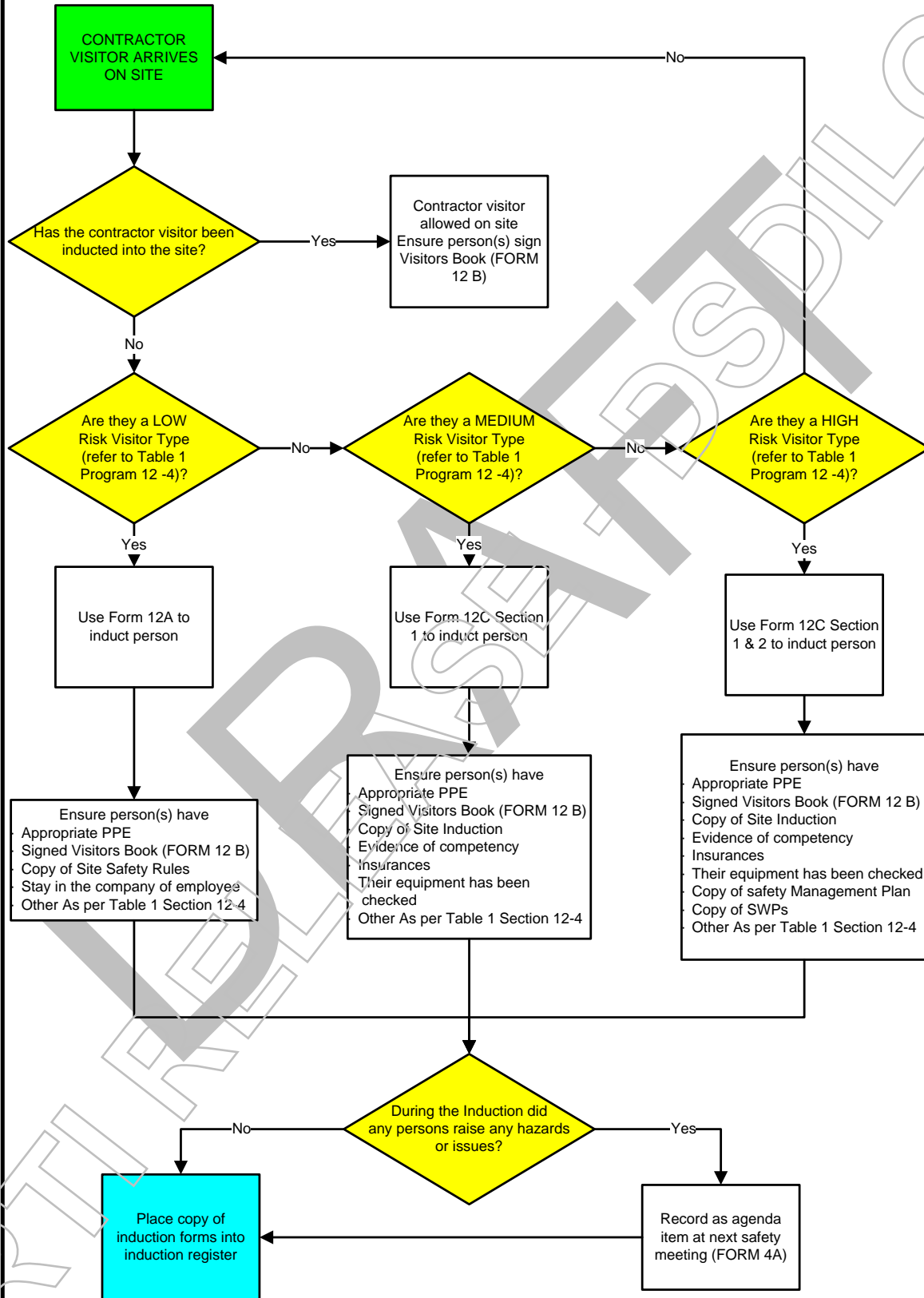
CONTRACT WORK					
SYSTEM ELEMENTS		REQUIREMENTS	Note: MINIMUM STANDARDS ARE THOSE OF THE SITE	Comments, Actions & specify standards or codes for compliance	Response and Sign-Off
1.	SITE POLICY & PLAN	Site Safety Policy attached Template (Form1A) of Annual safety Improvement Plan attached fyi	Contractor to supply copy of same 2 documents		
1A.	MAP OF SITE (see Example of Inspection Areas Plan 6C p6 – 5)	Supplied for purposes of identifying work locations and key features eg Main Office, First Aid stations, etc	Contractor to use for consultation and work coordination, clarify/specify as appropriate		
2.	RESPONSIBILITIES	Key organisational contacts listed	Contractor to supply equivalent		
3.	DOCUMENT CONTROL	Template (Form3A) - copy attached fyi	Contractor to use and submit same or equivalent		
4.	CONSULTATION	Template (Form4A) - copy attached fyi	Contractor to use and submit same or equivalent		
5.	HAZARD IDENTIFICATION & RISK MANAGEMENT	Templates (Forms 5A,B) - copy attached fyi	Contractor to use and submit same or equivalent		
6.	WORKPLACE INSPECTIONS & HAZARD REPORTING	Template (Form 6B) - copy attached fyi	Contractor to use and submit same or equivalent		
7.	WORK ENVIRONMENT & HEALTH SURVEILLANCE	Template (Form 7A) - copy attached fyi	Contractor to use and submit same or equivalent		
8.	SAFE WORK PROCEDURES	Template (Form 8A) – copy attached fyi. Similarly, an example (SWP#1 isolation of Plant & Equipment) of a Safe Work Procedure is attached fyi	Contractor to use and submit same or equivalent		
9.	EMERGENCY PLANNING	Templates (Forms 9A,B,C) - copy attached fyi	Contractor to use and submit same or equivalent		
10.	MAINTENANCE	Templates (Forms 10A,B,C) – copy attached fyi	Contractor to use and submit same or equivalent		
11.	ACCIDENT & INCIDENT REPORTING	Templates (Forms 11A,B,) – copy attached fyi	Contractor to use and submit same or equivalent		
12.	CONTRACTOR MANAGEMENT	Templates (Forms 12A,B,C,D,E) – copy attached fyi	Contractor to use and submit same or equivalent for any subcontractors engaged		
13.	TRAINING	Templates (Forms 13A,B) – copy attached fyi	Contractor to use and submit same or equivalent		

14.	FITNESS FOR WORK	Template of Site policy & plan 14.0 FITNESS FOR WORK – copy attached fyi	Contractor to use and submit same or equivalent		
15.	REGISTERS	Templates of sample Registers covering a range of topics attached fyi	Contractor to use and submit same or equivalent		

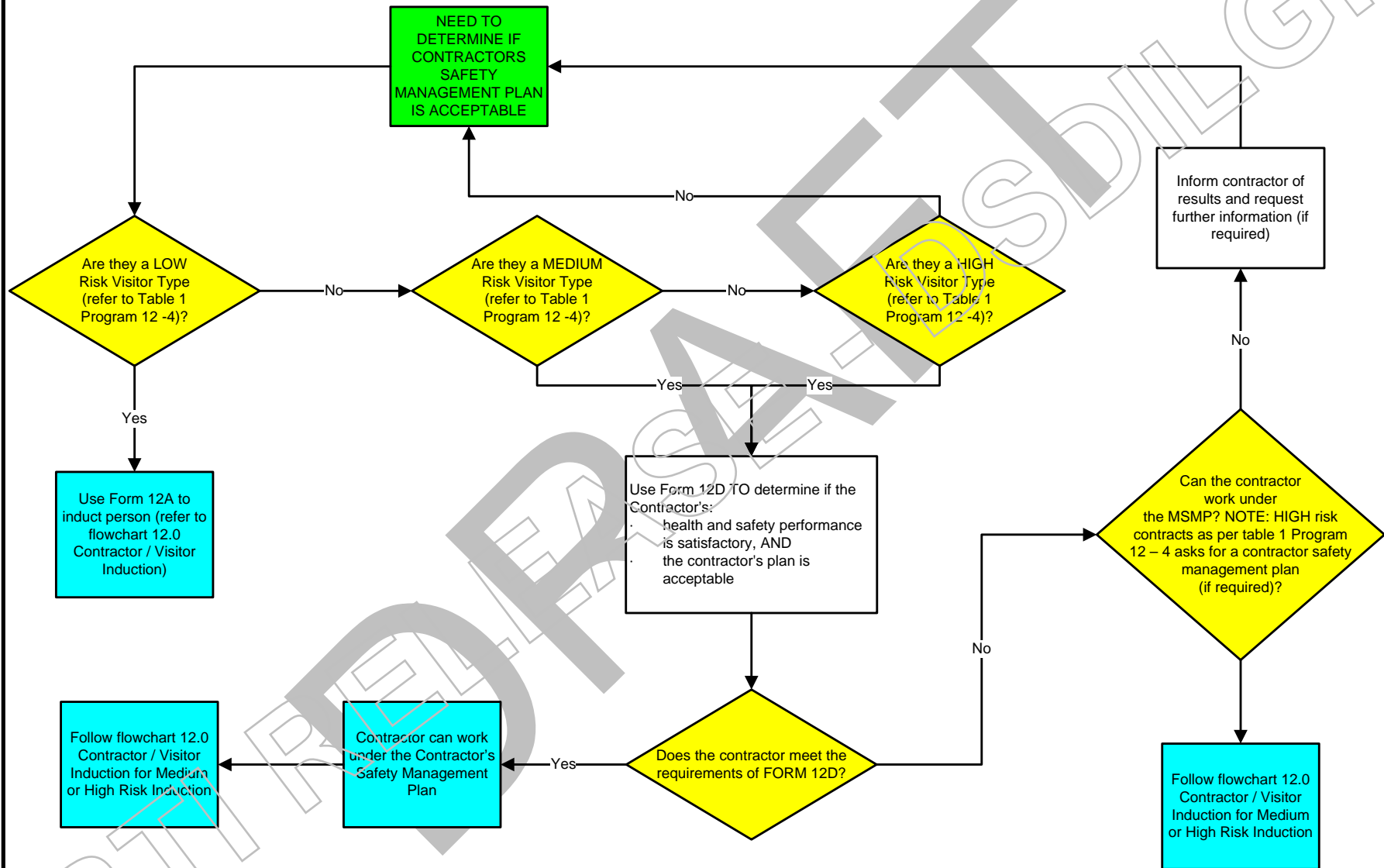
ADDITIONAL COMMENTS AS APPROPRIATE	SITE	CONTRACTOR

Date: ___ / ___ / _____

12.0 CONTRACTOR / VISITOR INDUCTION



12.1 CONTRACTOR SAFETY MANAGEMENT PLAN ASSESSMENT



13.0 INDUCTION AND TRAINING

13.1 AIM: To ensure that all employees have the appropriate training and skills to work safely and competently.

13.2 WHAT: All employees and contractors will need to have the appropriate competencies to operate machinery and equipment at the quarry. These competencies will be checked and recorded. If employees have not yet achieved the required competency then a training program will be developed to obtain the appropriate competency level.

13.3 HOW: All employees and contractors will need to be inducted as per Form 12C Contractor/Visitor & Employee Induction

13.4 WHO: People who undertake the following activities will be given training:

- FIRST AID

- _____
- _____
- _____

13.5 HOW: During the course of the Site Safety Meeting / toolbox meeting we will analyse the training needs of people employed at the mine. We will discuss the tasks that are performed at the mine and we will schedule training where it is deemed necessary.

A training/competency register will be maintained for each employee (FORM 13B) and it will be filed in the employee's personnel file. This register will list all training completed by the employee, including a record of all competencies (permits, tickets) that he/she holds, eg fork lift, first aid, loader ticket, crusher operation, induction.

When a person has been deemed competent to operate mobile plant or other equipment, FORM 13B will be signed off and a record will be kept of how he/she was deemed to be competent. If an external provider is used then a record of the permit number will be recorded.

13.6 WHEN: All training requirements will be recorded on the Training Plan (FORM 13 A).
A review our training requirements will be conducted as per the yearly plan (FORM 1A).

RTI REQUEST - DRAFT - FESPII GP

13.7 ACTION: Office Manager is responsible for maintaining the training registers.

13.8 DOCUMENT CONTROL: Documents associated with this program shall be recorded on the "Document Control Master List" (FORM 3A).

RTI REQUEST - DRAFT - FESPIIL GP

FORM 13A

TRAINING PLAN - Example

Prepared by: _____

Year : _____

Approved by: _____

Type of training	Employee	Provided by	Completion Date	When / Refresher	Expire Date
First Aid	Employee 1	ABC 1 st Aid	1/1/2006	3 years	1/1/2009
	Employee 2	ABC 1 st Aid	1/1/2006	3 years	1/1/2009
Rear Dump Truck	Employee 2	Mine Manager	1/2/2006	2 years	1/2/2008
Front End Loader	Employee 1	Mine Manager	1/2/2006	2 years	1/2/2008
Shotfirer	Employee 1	TAFE	1/12/2007		

14.0 FITNESS FOR WORK

14.1 AIM: To protect people at our site from the harmful effects of alcohol, drugs and fatigue. We are committed to ensuring that all people working on our site are in a physical and mental state that will allow them to fulfil their work competently without putting themselves and others at risk.

14.2 WHAT: We intend to openly discuss and educate all employees and visitors on the quarry's policy on alcohol, drugs and fatigue. While we respect the consultation process we also intend to be very clear on our policy of preventing persons from working at the quarry if they exhibit any signs of alcohol, drug use or fatigue.

Alcohol and drugs

- Education and awareness
- Site Limits
- Testing
- Discipline

Fatigue

- Education and awareness
- Hours of work
- Rest breaks
- Task rotation

14.3 WHO: The following persons are covered by this program:

- Employees
- Contractors & Subcontractors
- Management
- Visitors

14.4 HOW: To maintain a safe and healthy work environment we have agreed on the following procedures for dealing with alcohol, drugs and fatigue.

• **DRUGS**

Prescription drugs

Illegal drugs

- **ALCOHOL**

Site Limit 0.00% BAC

Consumption of alcohol on site is strictly prohibited.

- **FATIGUE**

14.5 WHEN: All people involved with this program will be made aware of their requirements on induction.

These limits are enforceable as of the date of induction.

14.6 ACTION: People believed to be exceeding the above limits of alcohol and other drugs will abide by our agreed disciplinary process:

Drugs

- ---

Alcohol

- ---

RTI RELEASED UNDER THE ACCESS TO INFORMATION ACT / RTI RELEASED UNDER THE ACCESS TO INFORMATION ACT

_____.

Employees that are required to work beyond their set hours shall

- _____

14.7: DOCUMENT CONTROL: All documents associated with this program shall be recorded on "Document Control Master List" (FORM 3A) and filed in the site office

REFERENCES

Small Mines Safety Management Kit 2nd Ed

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15.0 HAZARDOUS SUBSTANCES/DANGEROUS GOODS

15.1 AIM: To identify all potential products that maybe hazardous at the site. After identifying and assessing these products, controls will be developed, including ongoing monitoring programs.

15.2 WHAT: Regular site inspections will be conducted to identify products that are hazardous or dangerous. These products and any new products introduced to the quarry will be recorded on the Hazardous Substances/Dangerous Goods Register (FORM 15A). Before a product or substance is introduced a current (within 5 years of the date of issue) Material Safety Data Sheet (MSDS) will be obtained.

Any product on Form 15A that has been eliminated from the site will be crossed off the form.

All safety and environmental precautions listed on the MSDS are to be followed when using the substance and should be included in the appropriate Safe Work Method Statement (SWMS). The Site Supervisor is responsible for considering the following when selecting chemicals and substances for use on site:

- Flammability and exclusivity;
- Toxicity (short and long term);
- Carcinogenic classification if relevant;
- Chemical action and instability;
- Corrosive properties;
- Safe use and engineering controls;
- Environmental hazards; and
- Storage requirements.

All hazardous substances and dangerous goods will:

- Be stored in accordance with the MSDS and legislative requirements.
- Be stored in their original containers with the label intact at all times.

15.3 WHO: When necessary, a Qualified Safety Advisor/Consultant is responsible for the site inspection, completing the Hazardous Substances/Dangerous Goods Register (FORM 15A), obtaining current MSDSs and ensuring they are available in the workplace.

REMEMBER THAT CONTRACTORS USING HAZARDOUS SUBSTANCES OR DANGEROUS GOODS MUST BE IN POSSESSION OF CURRENT MSDSs APPLICABLE TO THEIR WORK.

15.4 HOW: By completing the Hazardous Substances/Dangerous Goods Register (FORM 15A), we will ensure that the controls required by the MSDS for a product are implemented and if needed recorded in the appropriate Safe Work Method Statement.

15.5 WHEN: Before a product or substance is used for a work activity, the Material Safety Data Sheet (MSDS) will be reviewed to determine if the product or substance is classified as hazardous. All persons involved in the use of products classified as hazardous, are provided with information and training to allow safe completion of the required task.

15.6 ACTION: If during the course of normal daily activities or during a workplace inspection, anyone becomes aware of a product that maybe hazardous or dangerous, then Sch. 4(4)(6) - Disclosing personal information will be notified. The product will be recorded on the Hazardous Substances/Dangerous Goods Register (FORM 16A), and a MSDS obtained and the recommended controls implemented Sch. 4(4)(6) - Disclosing personal information

15.7 DOCUMENT CONTROL: All documentation relating to the program (eg FORM 15A) will be filed at the site office.

HAZARDOUS SUBSTANCES/DANGEROUS GOODS REGISTER

Product name	Used For (application)	Quantity	Product labelled		MSDS		Classified as Hazardous in the MSDS		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	If YES: The risks & control measures and precautions associated with the product will be outlined in the SWMS
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	

16.0 REGISTERS

- 16.1 AIM:** The registers program of this SMP includes a series of documents that are generally used to record inspection results of specific parts of the operation. These registers may not be referred to in the main programs of the SMP, however they are an integral part of recording regular inspection and maintenance checks.
- 16.2 WHAT:** Registers will be developed for areas of the operation that require ongoing maintenance. The information that is recorded on these documents will act as a service history for each piece of plant or equipment.
- 16.3 WHO:** The Office Manager is responsible for controlling and maintaining the register system.
- 16.4 HOW:** Registers will be developed with input from employees and where available, information supplied from relevant sources (eg trades persons, suppliers, service manuals, Australian Standards).
- 16.5 WHEN:** These registers will be used as instructed by the senior site person, required by legislation or stated within programs. They are to be reviewed on an as need basis.
- 16.6 ACTION:** The senior site person will approve and issue registers that are required to maintain a safe system of work. If not stated within a program, each register shall have the following format;
- a. Title
 - b. Instructions of use
 - c. Person responsible for maintaining the document
 - d. A unique number to identify the document.
- 16.7 DOCUMENT CONTROL:** All master registers published in this program are to remain part of the SMP. This will allow for future use, when and if new plant or equipment is brought onto the quarry.

Registers that are used at the quarry become controlled documents and must be recorded in the "Document Control Master List" (FORM 3A).

LIFTING GEAR INSPECTION CONTROL AND REGISTER- CHAINS

Register # _____

Lifting equipment shall be inspected quarterly by _____. The areas of inspection shall be as stated in the legend box. Equipment found unsafe shall be removed from service and _____ informed of the findings.

ID No	LOCATION	1 ST QUARTER		2 ND QUARTER		3 RD QUARTER		4 TH QUARTER		LEGEND	
		Check	Action	Check	Action	Check	Action	Check	Action	Chains	Note
										<ol style="list-style-type: none"> 1. Twisted, stretched, bent 2. Nicked, gouged, cracked 3. Inter link & side barrel wear 4. Distorted/damaged master links 5. Distorted/damaged coupling links 6. Distorted/damaged attachments 	<p>Do not "tick". Write OK. If the equipment is defective it must be tagged 'defective' and must be reported to the person responsible for repairing the equipment. If the equipment is beyond repair it should be destroyed and discarded. New equipment to replace the discarded items must be provided to discourage the use of makeshift equipment.</p> <p>Corrective action (Indicate the action to be taken in the ACTION column by number as indicated below, specify the exact repairs to be done on a works requisition or job card)</p> <ol style="list-style-type: none"> 1. None – in good state of repair 2. Replace chain 3. Equipment to be cleaned 4. Fit safety latch on hook 5. Provide proper storage rack 6. Beyond repair – discard 7. Other
										<p>Hooks</p> <ol style="list-style-type: none"> 1. Spread in throat opening 2. Cracked, nicked, chafed 3. Wear on eye 4. Wear on elevis 5. Wear on saddle 6. Wear on load pin 7. Side bending 	
										<p>Shackles</p> <ol style="list-style-type: none"> 1. General condition 2. Wear on pin 3. Max. mass load (SWL) marked 	

EMERGENCY EQUIPMENT TESTING REGISTER

Register # _____

A competent person shall inspect all emergency equipment at an interval of _____ per year, with the results of the inspection documented on this register. This register shall be maintained by _____.

Equipment	Location	Checked by	Date	Result

ELECTRICAL TOOL AND EXTENSION LEAD REGISTER

Register # _____

All electrical tools and extension leads shall be inspected and tagged by a competent person to ensure they are safe for operation. The results of these inspections shall be recorded in this register or a register supplied by the competent person. Equipment shall be inspected _____ . This register shall be maintained by _____

Equipment #	Location	Test by	Test results	Date	Retest date

17.0 TRAFFIC MANAGEMENT PLAN

17.1 AIM:

To identify and control all potential traffic management hazards at the site.

17.2 WHAT:

The traffic management plan dictates the way the traffic is managed to ensure safe operation.

17.3 WHO:

The traffic management plan is used by all people who work at and visit our site. It is the responsibility of the SSE to ensure the operations / staff have the resources and facilities for the effective implementation of the traffic management plan. The SSE must also ensure the traffic management plan is communicated to all relevant persons.

17.4 HOW:

17.4.1 Quarry Design and Layout

The Site Plan (FORM 1B) sets out the site boundaries, roads, and the location of plant, infrastructure and stockpiles.

17.4.2 Equipment

o Selection

All mobile equipment operating in the quarry including contractor's and hired equipment will be assessed by the SSE to ensure it is fit for purpose and operate within Original Equipment Manufacturer (OEM) specifications. Contractor's equipment will be assessed using FORM 12C.

All mobile equipment operating in the quarry must:

- Clearly display load limits (GVM, GCM, and Tare)
- Be fitted with
 - an isolation switch
 - reversing alarms
 - flashing light
 - flags
 - effective/operational 2 way radio

- fire extinguishers (tested and tagged)
- Seat belts
- Safe access/egress
- OEM manuals
- Body up alarms on trucks

- **Equipment Operation**

All mobile equipment will be operated as per the Original Equipment Manufacturer (OEM) operational manuals.

No personnel shall operate any plant vehicle or equipment unless authorised by the Site Senior Executive (SSE).

Operators must be fit for duty and abide by the Dillon's Extractive Industries 14. Fitness for Work Program.

Mobile equipment Operators will complete the Dillon's Extractive Industries (Form 12C) and then must be trained and assessed as competent to operate equipment. Training shall include the requirements of the OEM and additional site controls using the appropriate SWMS and is recorded on FORM 13B. Operators will be retrained annually using SWMS.

- **Maintenance**

The quarry maintenance program (Program 10) will ensure quarry plant and equipment is maintained in a fit for purpose condition.

Persons carrying out maintenance work are competent and authorised by the SSE.

17.4.3 Road Construction and Maintenance

All quarry roads will be constructed regularly maintained to reduce hazards. Dillon's Extractive Industries will be developing a Site Development Plan that will address road:

- Location and layout
- Width
- Drainage
- Camber
- Gradient
- Edge protection
- Vehicle segregation

17.4.3 Vehicle Interaction

Exclusions and Separation

Parking

All light vehicles are to be parked 'rear end' in the visitor and staff parking areas.

Pedestrians

Public Access to include contractor entry process eg tyre fitters.

Loading Areas, Tipping Areas and Stockpiles

Communication

No mobile phones when operating

All drivers of vehicles in close vicinity of other mobile plant are required to alert the operator, of their presence and seek a response via the radio channel **INSERT**.

Should an acknowledgement not be received after repeated attempts to communicate, extreme caution is to be exercised and the driver is to proceed as if the operator of the other equipment is unaware of their presence.

Where a vehicle is not fitted with a radio communication system the driver should sound its horn when entering the general operating area of the other mobile plant. The driver should repeatedly sound the horn until some form of recognition is received from the operator of the other mobile plant. The operators of both vehicles should then proceed with caution.

Changing Operating Conditions

Monitoring Effectiveness and Inspections

Speed limits set by signs must be obeyed. One way signs must be observed.

No unauthorised vehicles are permitted to proceed beyond certain points indicated by signs. Dump truck and road truck drivers will hold at least a C class driver's license.

No person shall operate a vehicle or any plant or equipment on the site while under the influence of drugs or alcohol.

Unless otherwise indicated normal Queensland driving rules and regulations will apply.

No mobile equipment shall be driven over air lines, electrical cables or hoses unless they are protected.

Edge protection in the form of stable earth bunds are to be constructed to a minimum of 1.5m or the radius of the largest vehicle wheel.

Loaded haul trucks have right of way.

Site equipment has right of way over road trucks and haulage contractors.

INSERT SITE PLAN

RTI RELEASED
DRAFT
FESTIVAL GP

Excludes personal information

SITE RULES

Site Entry

- All visitors are required to sign in and out at the site office when attending Dillon's Extractive Industries
- The person responsible for your supervision is Sch. 4(4)(6) - Disclosing personal information
- All safety signs must be observed and complied with
- Be aware and give way to moving plant
- Authorisation must be sought to take photo/video(s)
- Any theft or damage to property will be reported to police
- Visitors travelling alone must have a suitable form of communication (phone, UHF radio)
- Visitors driving on Dillon's Extractive Industries must drive to the prevailing conditions and be prepared for unexpected site hazards. Speed must not exceed 20 km/h and seatbelts are to be worn at all times
- Children entering the site are not permitted beyond the site office

Personal Protective Equipment (PPE)

- Sturdy enclosed footwear, high visibility vests, hard hat and protective eye wear are to be worn at all times
- Additional PPE may be required and will be advised by the Dillon's Extractive Industries representative.

Smoking, Alcohol and Drugs

- Smoking is only permitted on Dillon's Extractive Industries in clearly defined smoking areas
- Any person who is intoxicated or is suspected of being under the influence of illicit drugs will be refused entry to Dillon's Extractive Industries.

In the event of injury/incident

- All incidents (including near misses), injuries and hazards must be reported to the accompanying Dillon's Extractive Industries representative immediately or before leaving the site
- A first aid kit is located in the site office and first aid trained staff photos are displayed

In the event of an emergency

- In the event of an emergency a Dillon's Extractive Industries representative will:
 - Direct you to the designated Emergency Assembly Area at the quarry entrance
 - Escort you from the site when safe to do so

SITE PLAN

RTI RELEASED UNDER THE ACCESS TO INFORMATION ACT / DSDILGP

Your Ref:
Our Ref: J000143:DIL:KLG
Date: 10 December 2014

Permit and Licence Management
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001

Via email: palm@ehp.qld.gov.au

Dear Sir / Madam,

RE: Application for Environmentally Relevant Activity 16(2)(a) and 16(3)(a) Extracting (other than by dredging) and Screening on land located at Moody Road, Vasa Views and described as part of Lot 5 on SP235661 (Area confirmed via Metes and Bounds Description)

Gilvear Planning Pty Ltd has been engaged by Daraleigh Pty Ltd as Trustee (the 'Landowner') and Bluestone Quarry Company Pty Ltd (the 'Operator') to assist in obtaining required Approvals to facilitate development of an Extractive Industry on land at Moody Road, Vasa Views more particularly described as part of Lot 5 on SP235661 ('the site').

Development Application lodged with Council

In July 2014, on behalf of the Landowner, an Application seeking a Development Permit for Material Change of Use for "Extractive Industry" was lodged with Cassowary Coast Regional Council pursuant to the *Sustainable Planning Act 2009*.

Please find **attached** the following Application material for reference:

1. IDAS Forms;
2. Planning Report with attachments;
3. Council Acknowledgement Notice dated 31 July 2014;
4. State Information Request dated 13 August 2014;
5. Council Information Request dated 14 August 2014.

The Landowner is currently formalizing a Response to Council and the State's Information Request, for lodgement in coming weeks.

Application for Environmental Authority (Site Specific)

Eligibility criteria and standard conditions for ERA 16 have been considered, but cannot be met having regard to site conditions, in particular, the location of the activity in regards existing residential dwellings owned by the Landowner on the subject site, and adjoining properties.

In those circumstances, a Site Specific application for Environmental Authority is required.

Bluestone Quarry Company Pty Ltd is the Operator for the proposed Extractive Industry, and is therefore the Applicant for the Environmental Authority process.

Please find **attached**:

1. Application form (Site specific application for a new environmental authority for prescribed ERA);
2. Application to be a Registered Operator;
3. Updated draft Environmental Management Plan (Safety Management Plan and Stormwater Quality Management Plan separately provided).

It is noted that an Application fee of \$3,053.25 is payable, representing the base fee of \$570 plus 30% of the annual fee payable for Extraction and Screening activities. I note the Application form nominates payment via credit card, and request the Department contact me to arrange that payment in due course.

Should additional detail be required in the meantime, please do not hesitate to email or call.

Kind regards,

Sch. 4(4)(6) - Disclosing
personal information

Kristy Gilvear
Director
Gilvear Planning Pty Ltd

Far North Queensland Office:

Email: kristy@gilvearplanning.com.au
Telephone: 0448 897 991
Postal: PO Box 228
BABINDA QLD 4861

Application form

Environmental Protection Act 1994

Site specific application for a new environmental authority for a prescribed ERA

This is the approved form to make a site specific application for an environmental authority under sections 124 and 125 of the Environmental Protection Act 1994 (EP Act) for an environmentally relevant activity (ERA) which is prescribed under section 19 of the EP Act.

It is recommended that you read the information on what to provide with an application, prior to making an application. This information is located on the Queensland Government's business and industry website at www.business.qld.gov.au (use the search words "Environmental Licence"). This website also has a diagnostic tool called a "Forms and fees finder" which will take you through a series of questions and provide a customised result which will identify any forms, fees and supporting information you need to make an application.

Only use this application form if you are applying for a new environmental authority (EA) where:

- All of the ERA/s being applied for are prescribed under section 19 of the EP Act.
- The ERA/s being applied for do not form part of an ERA project under existing environmental authority.
- The ERA/s being applied for are not being carried out as part of a significant project.
- If more than one ERA is being applied for:
 - o All ERAs are operationally interrelated, that is, the operation cannot function without all of the ERAs. Separate applications will need to be made for the ERAs that cannot be carried out as a single integrated operation.
 - o The places where the ERAs will be carried out are close enough to make the integrated day to day management of the activities feasible.
 - o The ERAs will be carried out under the day to day management of a single responsible person (e.g. a site manager or operations manager).
- Where a material change of use is triggered under the *Sustainable Planning Act 2009*, a development application has been made.
- If any of the ERAs being applied for are to be carried out on a parcel of land within a state development area and a particular use for the parcel of land is not stated in the approved development scheme, you have applied for, or hold a current approval for the use under section 84(4)(b) of the *State Development and Public Works Organisation Act 1971*.
- The application is not to dredge or extract more than 10,000 tonnes of material a year in the North Stradbroke Island region.

OR

- The administering authority has refused your amendment application and requires you to make a site-specific application for a new EA to replace your existing EA.

If you would like to have a pre-lodgement meeting:

- for prescribed ERAs 2, 3 and 4—contact the Department of Agriculture, Fisheries and Forestry by email at livestockregulator@daff.qld.gov.au

Variation application for an environmental authority for a prescribed ERA

- for any other ERA—please fill out and lodge the form “Application for a pre-design/pre-lodgement meeting” (EM1125¹), prior to lodging this application for an environmental authority.

¹ This is the publication number. The publication number can be used as a search term to find the latest version of a publication at www.qld.gov.au.

Site specific application for an environmental authority for a prescribed ERA

1. Applicant details

Is there more than one applicant?	<input checked="" type="checkbox"/> No, please provide applicant's details here. <input type="checkbox"/> Yes, please provide the principal applicant's details here and other applicants' details at attachment 1— <i>"Joint applicants and appointment of principal applicant"</i>
Name - individual or contact person if applicant is a business Sch. 4(4)(6) - Disclosing personal information	Suitable Operator Number TBC
Business name (include trading name if relevant) BLUESTONE QUARRY COMPANY PTY LTD	ABN/ACN (if relevant) A.C.N. 603 015 612
Residential or registered business address (not a post office box) 3 DILLON ROAD, DARAGEE QLD 4871	Phone Sch. 4(4)(6) - Disclosing personal information
Postal address (if different from above) C/- PO BOX 228 BABINDA QLD 4861	Phone N/A
Email Sch. 4(4)(6) - Disclosing personal information	<input type="checkbox"/> Indicate if you do not want to receive correspondence via email

Nomination of an agent for this application

I/we nominate the below agent to act on my/our behalf and to receive correspondence relating to this application.

Name of agent - individual or contact person if the agent is a business KRISTY GILVEAR	
Business name (include trading name if relevant) GILVEAR PLANNING PTY LTD	ABN/ACN (if relevant) A.B.N. 88 140 988 825
Postal address PO BOX 228, BABINDA QLD 4861	Phone 0448 897 991
Email kristy@gilvearplanning.com.au	<input type="checkbox"/> Indicate if you do not want to receive correspondence via email

2. Registered suitable operator status

A suitable operator is a person or a corporation assessed under section 318I of the EP Act as being suitable to carry out an ERA and is listed on the suitable operator register on the EHP website at www.ehp.qld.gov.au (use the search words "suitable operator register").

Are all applicants registered as a suitable operator?	
<input type="checkbox"/> Yes	Please include your suitable operator registration number in section one above. If there is more than one applicant, include all applicants' suitable operator registration number on Attachment 1. NOTE: The suitable operator number provided must belong to the exact same name as the applicants.
<input checked="" type="checkbox"/> No	You must apply on the attached <i>"Application to be a registered suitable operator"</i> , or if there is more than one applicant, complete a separate <i>"Application to be a registered suitable operator"</i> (Form EM745) and attach it to this application.

Site specific application for an environmental authority for a prescribed ERA

3. Description of land where the ERA/s will be carried out

Will the ERA/s be carried out at a fixed location?				
<input checked="" type="checkbox"/> Yes NOTE: If there is more than one location please complete Attachment 2	Number	Street Name	Suburb/Town	Postcode
		MOODY ROAD	VASA VIEWS	4871
	Real Property Description		Specific area within the location ie GPS or other descriptor	
	Lot 5 Plan SP235661		Part of Lot 5 as Illustrated on Proposal Plans attached	
	Port (if relevant)		Project Name (if relevant)	
	N/A		Proposed Extractive Industry	
<input type="checkbox"/> No	The location will be recorded as "Various locations throughout the State of Queensland"			

4. Details of contaminated land

Is there a site management plan in effect for contaminated land that relates to the above land?			
<input checked="" type="checkbox"/> No			
<input type="checkbox"/> Yes	Description of land e.g. Lot No.	Plan Number	LGA

5. Details of the ERAs being applied for

Complete the table below by advising which ERA/s you are applying for.

ERA Number	Threshold	Name of ERA	Does the ERA have standard conditions ² that you can comply with?
16(2)(a)	100,000t/yr	Extracting (other than by dredging)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, attach details
16(3)(a)	100,000t/yr	Screening	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, attach details
			<input type="checkbox"/> No <input type="checkbox"/> Yes, attach details
			<input type="checkbox"/> No <input type="checkbox"/> Yes, attach details

6. Other related approvals

To avoid the possibility of your environmental authority application being invalid, you need to ensure any other required applications have been made prior to lodging this application. If you are not sure what approvals are required you should contact the planning area of your local government authority or if the area is within a state development area visit the Department of State Development, Infrastructure and Planning website at: <http://www.dsdip.qld.gov.au/state-development-areas/development-applications.html>.

Are you required to obtain any of the following approvals to conduct the ERA/s?					
<ul style="list-style-type: none"> A development approval from your Local Government Authority (for ERA/s which may trigger within the local planning scheme the need for an approval under the <i>Sustainable Planning Act 2009</i>), or An approval for the use of land under the <i>State Development and Public Works Organisation Act 1971</i>? 					
<input type="checkbox"/> No					
<input checked="" type="checkbox"/> Yes	Approval name	Legislation	Application number	Date lodged	Approval status
	MCU - Extractive	Sustainable Planning Act	2014/0068	30/7/14	To issue

² ERAs with eligibility criteria and standard conditions are listed at: www.business.qld.gov.au (use the search term "eligibility criteria").

Site specific application for an environmental authority for a prescribed ERA

7. Regulated waste transport ERAs

Is your application for an ERA 57 Regulated waste transport?				
<input checked="" type="checkbox"/> No				
<input type="checkbox"/> Yes Provide details or attach a separate list of the vehicles used for the waste transport.	Type e.g. tanker, truck	Make and model	Year of manufacture	Registration number

8. Matters of national environmental significance

There are currently nine matters of national environmental significance (MNES) which have been defined in the *Environmental Protection and Biodiversity Conservation Act 1999 (Cth)*. These are:

- world heritage properties
- national heritage places
- wetlands of international importance (listed under the Ramsar Convention)
- listed threatened species and ecological communities
- migratory species protected under international agreements
- Commonwealth marine areas
- the Great Barrier Reef Marine Park
- nuclear actions (including uranium mines)
- a water resource, in relation to coal seam gas development and large coal mining development

To determine whether the proposed ERA/s will have a significant impact on MNES and for referral requirements, please refer to the guidance provided by the Federal Government’s Department of Environment on www.australia.gov.au and www.environment.gov.au.

Would the carrying out of the proposed ERA/ERA project be likely to have a significant impact on a matter of national environmental significance?	
<input checked="" type="checkbox"/> No	
<input type="checkbox"/> Yes, has the proposal been referred to the Federal Government Environment Minister or delegate for formal assessment and approval?	
<input type="checkbox"/> Yes– Reference/referral number:	
<input type="checkbox"/> No	

Site specific application for an environmental authority for a prescribed ERA

9. Assessment of the environmental impact

Where an Environmental Impact Statement (EIS) process under Chapter 3 of the EP Act, has not been completed, or if the environmental risk has changed since the EIS was completed, you must attach to this application an assessment of the likely impact of each ERA on environmental values including:

- a description of the environmental values likely to be affected by each relevant activity
- details of any emissions or releases likely to be generated by each relevant activity
- a description of the risk and likely magnitude of impacts on the environmental values
- details of the management practices proposed to be implemented to prevent or minimise adverse impacts
- details of how the land the subject of the application will be rehabilitated after each relevant activity ceases
- the proposed measures for minimising and managing waste generated by the activities.

I have attached an assessment of the environmental impact and specific supporting information.

10. Details of waste management

Describe the proposed measures for minimising and managing waste generated by the activity/ies below or on an attachment.

Refer attached Planning Report and associated material

I have attached the proposed measures.

11. Take effect date

You may nominate a date or event for when the environmental authority will take effect. An event can include a phase of your project, for example commissioning of equipment. The date the environmental authority takes effect will be the date from which you can commence the activities as well as the date your annual fees will commence to be charged (your anniversary date).

Do you want to nominate a date or event for the environmental authority to take effect on?	
<input checked="" type="checkbox"/> No	The take effect date will be the date of the decision or as nominated by the Administering Authority. However this cannot be before a related development approval has been granted.
<input type="checkbox"/> Yes	Nominate the date or event below. You must not commence any activities until after the take effect date or, if you nominated an event, before you have given written notice of the date that the event occurred. However this cannot be before a related development approval has been granted. Take effect date or event:

Site specific application for an environmental authority for a prescribed ERA

12. Payment of fees

You are required to pay an application fee at the time of application. If your application is approved you will be required to pay a fee annually. Each ERA has a regulated fee and the annual fee will be the highest annual fee of any ERA associated with the project. The first annual fee will be invoiced when the permit becomes effective. Information on fees is available at www.business.gov.au.

Please select your payment method for the application fee below:

- Cheque or money order payable to the Department of Environment and Heritage Protection (attached).
- Cheque or money order payable to the Department of Agriculture, Fisheries and Forestry (attached).
- Credit card. Please provide contact details and we will contact you for payment to be made over the telephone.

Telephone number: Sch. 4(4)(6) -
Disclosing
personal
information

Applicant certification

I declare that the information I have provided is true and correct. I understand that it is an offence to give information that I know is false, misleading or incomplete.

I will comply with all conditions on my environmental authority as well as any relevant provisions in the *Environmental Protection Act 1994*.

I understand that I am responsible for managing the environmental impacts of these activities, and that approval of this application is not an endorsement by the administering authority of the effectiveness of the management practices proposed or implemented.

Signature Sch. 4(4)(6) - Disclosing personal information	Sch. 4(4)(6) - Disclosing personal information Director Bluestone Quarry Company Pty Ltd	Date 17 December 2014
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Submit your completed application (in word searchable electronic PDF format):

for ERA 2, ERA 3 or ERA 4 via email to livestockregulator@daff.qld.gov.au or:

Post:
Senior Environmental Scientist
Department of Agriculture, Fisheries and Forestry
GPO Box 102
TOOWOOMBA QLD 4350

Further information:
www.business.qld.gov.au
Email: livestockregulator@daff.qld.gov.au
Phone: 13 QGOV (13 74 68)

for all other ERAs via email to palm@ehp.qld.gov.au or:

Post:
Permit and Licence Management
Department of Environment and Heritage
Protection
GPO Box 2454
BRISBANE QLD 4001

Courier or hand delivery:
Permit and Licence Management
Department of Environment and Heritage
Protection
Level 3, 400 George Street
BRISBANE QLD 4000
Hours: 8.30am–4.30pm business days

Further information:
www.business.qld.gov.au
Email: palm@ehp.qld.gov.au
Phone: 13 QGOV (13 74 68)

Privacy statement

The Departments of Environment and Heritage Protection (EHP) and Agriculture, Fisheries and Forestry (DAFF) are collecting the information on this form to process your application for an environmental authority. This collection is authorised under sections 124 and 125 of the *Environmental Protection Act 1994*. Your personal information will only be accessed by authorised employees within these departments and will not be disclosed to any other parties unless authorised or required by law. For queries about privacy matters please email privacy@ehp.qld.gov.au or telephone: (07) 3330 5436.

Attachment 1

Joint applicants and appointment of principal applicant

We are joint applicants for this environmental authority and hereby appoint:

as the principal applicant to receive statutory documents relating to this application.

Name - individual or contact person if applicant is a business	Suitable Operator Number ³
Business name (include trading name if relevant)	ABN/ACN (if relevant)
Residential or registered business address (not a post office box)	Phone
Postal address (if different from above)	Facsimile
Email	<input type="checkbox"/> Indicate if you do not want to receive correspondence via email
Signature	Date

Name - individual or contact person if applicant is a business	Suitable Operator Number
Business name (include trading name if relevant)	ABN/ACN (if relevant)
Residential or registered business address (not a post office box)	Phone
Postal address (if different from above)	Facsimile
Email	<input type="checkbox"/> Indicate if you do not want to receive correspondence via email
Signature	Date

Name - individual or contact person if applicant is a business	Suitable Operator Number
Business name (include trading name if relevant)	ABN/ACN (if relevant)
Residential or registered business address (not a post office box)	Phone
Postal address (if different from above)	Facsimile
Email	<input type="checkbox"/> Indicate if you do not want to receive correspondence via email

³ To obtain an Environmental Authority all applicants must be on the register of suitable operators. If you are already registered provide your number on this attachment. If you are not registered complete and attach an "Application to be a registered suitable operator" (Form EM745) to this application.

Site specific application for an environmental authority for a prescribed ERA

Attachment 2

List of locations where the ERA/s will be carried out.

Where there is more than one location list all locations and which ERA/s will be conducted at each location.

Number	Street Name	Suburb/Town	Postcode	ERA/s
Real Property Description Lot Plan		Specific area within the location ie GPS		

Number	Street Name	Suburb/Town	Postcode	ERA/s
Real Property Description Lot Plan		Specific area within the location ie GPS		

Number	Street Name	Suburb/Town	Postcode	ERA/s
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Real Property Description Lot Plan		Specific area within the location ie GPS		

Number	Street Name	Suburb/Town	Postcode	ERA/s
Real Property Description Lot Plan		Specific area within the location ie GPS		

Number	Street Name	Suburb/Town	Postcode	ERA/s
Real Property Description Lot Plan		Specific area within the location ie GPS		

Application form

Environmental Protection Act 1994

Application to be a registered suitable operator

This approved form is to be used to apply to become a suitable operator under section 318F of the Environmental Protection Act 1994 (EP Act) for the carrying out of an environmentally relevant activity (ERA).

1. Applicant details

Name - Individual or contact person if applicant is a business Sch. 4(4)(6) - Disclosing personal information	Position if a business DIRECTOR
Company / Business Name (include trading name if relevant) BLUESTONE QUARRY COMPANY PTY LTD	ABN/ACN (if relevant) A.C.N. 603 015 612
Residential or registered business address (not a post office box) 3 DILLON ROAD, DARAGEE QLD 4871	Phone Sch. 7(4)(6) - Disclosing personal information
Postal address (if different from above) C/- PO BOX 228, BABINDA QLD 4861	Facsimile N/A
Email Sch. 4(4)(6) - Disclosing personal information	<input type="checkbox"/> Indicate if you do not want to receive correspondence via email

2. Applicant suitability

Questions	No	Yes ⁴
Have you ⁵ or a business partner or a related corporation ever:		
• been convicted or guilty of an environmental offence under the <i>Environmental Protection Act 1994</i> or another law (whether in Queensland or elsewhere)?	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details
• had an environmental authority, instrument, licence or permit, however called, refused, cancelled or suspended by the administering authority (whether in Queensland or elsewhere)?	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details

⁴ If yes is ticked, you must indicate if the event occurred to you individually or to a company or business in which you currently hold, or have held a position of management or control. You must also provide complete details (including the state/territory/country in which the event occurred, the relevant legislation, location of offence or incident, date of offence or incident, amount of fine, facts and circumstances surrounding the offence or incident, details of relevant persons involved including name and positions, name of court, court reference number etc) in an attachment. You may also attach any submission you want the chief executive to consider in assessing this information, which will be used in deciding whether you are a suitable operator. - A 'relevant person' is either the applicant or any person with whom the applicant is a partner or, if a corporation, any of the corporation's executive officers.

⁵ If a corporation is applying you must answer for the corporation, any of the corporation's executive officers and any other corporations of which the executive officers are, or have been, an executive officer. If an individual is applying you must answer for any person who is your business partner.

Application form
Application to be a registered suitable operator

Questions	No	Yes ⁴																														
<ul style="list-style-type: none"> had a suitable operator registration or similar registration, however called, refused, cancelled or suspended under the <i>Environmental Protection Act 1994</i> or a corresponding law (whether in Queensland or elsewhere)? 	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details																														
<ul style="list-style-type: none"> received any of the following under the <i>Environmental Protection Act 1994</i>: <table border="0" style="width: 100%; margin-left: 20px;"> <tr> <td style="width: 60%;">a penalty infringement notice</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> attach details</td> </tr> <tr> <td>an environmental protection order</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> attach details</td> </tr> <tr> <td>a notice requiring a transitional environmental program</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> attach details</td> </tr> <tr> <td>a notice to conduct or commission an environmental audit</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> attach details</td> </tr> <tr> <td>a notice to conduct or commission an environmental investigation</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> attach details</td> </tr> <tr> <td>a direction notice</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> attach details</td> </tr> <tr> <td>a clean up notice</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> attach details</td> </tr> <tr> <td>a cost recovery notice</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> attach details</td> </tr> <tr> <td>a restraint or enforcement order</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> attach details</td> </tr> <tr> <td>another compliance or enforcement action which is not stated above</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> attach details</td> </tr> </table> 	a penalty infringement notice	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details	an environmental protection order	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details	a notice requiring a transitional environmental program	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details	a notice to conduct or commission an environmental audit	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details	a notice to conduct or commission an environmental investigation	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details	a direction notice	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details	a clean up notice	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details	a cost recovery notice	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details	a restraint or enforcement order	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details	another compliance or enforcement action which is not stated above	<input checked="" type="checkbox"/>	<input type="checkbox"/> attach details		
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Applicant Certification

It is an offence to provide information that you know is false, misleading or incomplete.

I declare that the information provided is true and correct. I have attached details for any question where I have answered "yes".

SIGNATURE	Sch. 4(4)(6) - Disclosing personal information	Sch. 4(4)(6) - Disclosing personal information	Director Queensland Quarry Company Pty Ltd	DATE 17 December 2014
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Submit your completed application via email to: palm@ehp.qld.gov.au or:

Post:
Permit and Licence Management
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001

Courier or hand delivery:
Permit and Licence Management
Department of Environment and Heritage Protection
Level 3, 400 George Street
BRISBANE QLD 4000
Hours: 8.30am-4.30pm business days

Further Information:
www.business.qld.gov.au
Email: palm@ehp.qld.gov.au
Phone: 13 QGOV (13 7468)

Privacy statement

The Department of Environment and Heritage Protection (the department) is committed to protecting the privacy, accuracy and security of your personal information in accordance with the *Information Privacy Act 2009*. The department is collecting your personal information to determine your suitability as a registered operator under section 318F of the *Environmental Protection Act 1994*. Some of this information may be given to the Department of Natural Resources and Mines for the purpose of the joint regulation of mining activities. If you answered yes to any question, the chief executive may give your information to an administering authority of another state under a corresponding law or the commissioner of the police service for the purpose of obtaining a suitability report.

If your application is approved your name, address and ABN/ACN will be disclosed on the Register of Suitable Operators which will be publicly available on the department's website. This disclosure is authorised by section 318(1)(b) of the *Environmental Protection Act 1994*. All other information will not be given to any other person or agency unless you have given us permission or we are authorised or required by law. All information supplied on this form may be disclosed publicly in accordance with the *Right to Information Act 2009* and *Evidence Act 1977*. For queries about privacy matters email: privacy@ehp.qld.gov.au or telephone: (07) 3330 5436.