

## Department of Environment and Heritage Protection

# Permit<sup>1</sup>

### Environmental Protection Act 1994

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

**Permit<sup>1</sup> number: EPPR03097015**

**Environmental authority takes effect when your related development approval takes effect.**

The first annual fee is payable within 20 business days of the effective date.

The anniversary date of this environmental authority is the same day each year as the effective date. An annual return and the payment of the annual fee will be due each year on this day.

#### Environmental authority holder(s)

Name	Registered address
Maroochydore Sands Pty Ltd	Level 4, 247 Adelaide Street BRISBANE ADELAIDE STREET QLD 4000

#### Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
16-(2b) Extracting, other than by dredging, in a year, more than 100,000t but not more than 1,000,000t yr of material	235-269 Eudlo Flats Road and Forest Glen - Lot 2 Plan SP194361 750-770 Maroochydore Road, Forest Glen - Lot 1 Plan SP182998, Lot 7 Plan SP182998 and Lot 2 Plan SP182997
16-(3b) Screening, in a year, more than 100,000t but not more than 1,000,000t yr of material	Malones Road and Forest Glen - Lot 5 Plan RP128773

#### Additional information for applicants

##### Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

<sup>1</sup> Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

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Contaminated land

It is a requirement of the EP Act that an owner or occupier of land give written notice to the chief executive if they become aware of the following:


- a notifiable activity (as defined in Schedule 3) that is being, or has been, carried out on the land (notice must be given within 20 business days)
- an event involving a hazardous contaminant on the land, or a change in the condition of the contaminated land, that is causing, or is reasonably likely to cause, serious or material environmental harm (notice must be given within 24 hours).

For further information, including the form for giving written notice, refer to the Queensland Government website <http://www.qld.gov.au/> (using the search term 'managing contaminated land').



Signature

James Mackenzie  
Department of Environment and Heritage Protection  
Delegate of the administering authority  
*Environmental Protection Act 1994*



Date

**Enquiries:**  
Department of Environment and Heritage  
Protection  
GPO Box 2454  
BRISBANE QLD 4001  
Phone: 1300 130 372  
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**Obligations under the *Environmental Protection Act 1994***

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

**Conditions of environmental authority**

The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
G1	Activities conducted under this environmental authority must be conducted in accordance with the following limitations: a) The <b>activity</b> is limited to the extraction pits, and processing and stockpile areas identified in <i>Schedule 1 Figure 1 - Conceptual Site Layout Plan</i> ; and b) Extraction must follow the sequential pit staging identified in <i>Schedule 1 Figure 1 - Conceptual Site Layout Plan</i> (i.e. Pit 1, followed by Pit 2 and so on).
G2	All reasonable and practicable <b>measures</b> must be taken to minimise the likelihood of environmental harm being caused.
G3	Any breach of a condition of this environmental authority, must be reported to the <b>administering authority</b> as soon as practicable, or at most, within 24 hours of <b>you</b> becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
G4	Other than as permitted by this environmental authority, the <b>release of a contaminant into the environment</b> must not occur.
G5	An <b>appropriately qualified person(s)</b> must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G6	All analyses required under this environmental authority must be carried out by a laboratory that has <b>NATA</b> certification, or an equivalent certification, for such analyses. The only exception to this condition is for <i>in situ</i> monitoring of pH and electrical conductivity.
G7	When required by the <b>administering authority</b> , monitoring must be undertaken in the manner prescribed by the <b>administering authority</b> , to investigate a complaint that is not considered by the <b>administering authority</b> to be frivolous or vexatious, of environmental nuisance arising from the <b>activity</b> . The monitoring results must be provided to the <b>administering authority</b> upon request.

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G8	The <b>activity</b> must be undertaken in accordance with written procedures that: <ul style="list-style-type: none"> <li>a) identify potential risks to the environment from the <b>activity</b> during routine operations, closure and an emergency</li> <li>b) establish and maintain control <b>measures</b> that minimise the potential for environmental harm</li> <li>c) ensure plant, equipment and <b>measures</b> are maintained in a proper and effective condition</li> <li>d) ensure plant, equipment and <b>measures</b> are operated in a proper and effective manner</li> <li>e) ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i></li> <li>f) ensure that reviews of environmental performance are undertaken at least annually.</li> </ul>
G9	Chemicals and fuels in containers of greater than 15 litres must be stored within a <b>secondary containment system</b> .
G10	The <b>activity</b> must not be carried out until <b>you</b> have given financial assurance to the <b>administering authority</b> .
G11	If the <b>administering authority</b> increases the amount of financial assurance you must give the additional financial assurance to the <b>administering authority</b> within 28 days of receiving written notice of the increase.
<b>Agency interest: Air</b>	
<b>Condition number</b>	<b>Condition</b>
A1	Odours or airborne contaminants which are <b>noxious</b> or <b>offensive</b> or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any <b>sensitive place</b> or <b>commercial place</b> .
A2	Dust and particulate matter emissions must not exceed the following concentrations at any <b>sensitive place</b> or <b>commercial place</b> : <ul style="list-style-type: none"> <li>a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions), or</li> <li>b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM<sub>10</sub>) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, when monitored in accordance with Australian Standard AS 3580.9.3 (or more recent editions) or any other method approved by the administering authority.</li> </ul>

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Agency interest: Water																													
Condition number	Condition																												
WT1	<p>Water in all extraction pits must be maintained within the quality characteristics listed in <i>Table 1 – Extraction pit water quality limits</i> at all times, and monitoring undertaken in accordance with the requirements specified.</p> <p><b>Table 1—Extraction pit water quality limits</b></p> <table border="1"> <thead> <tr> <th>Quality characteristic (units)</th> <th>Limit</th> <th>Limit Type</th> <th>Minimum Monitoring Frequency</th> </tr> </thead> <tbody> <tr> <td>pH (pH units)</td> <td>6.5-8</td> <td>Range</td> <td>Continuous at the point of extraction, and at representative locations daily</td> </tr> <tr> <td>Electrical Conductivity (µS/cm)</td> <td>500</td> <td>Maximum</td> <td>Continuous</td> </tr> <tr> <td>Total Suspended Solids (mg/L)</td> <td>50</td> <td>Maximum</td> <td>Monthly</td> </tr> <tr> <td>Total and Dissolved Aluminium (µg/L)</td> <td>55<sup>f</sup></td> <td>Maximum</td> <td>Monthly; or weekly if pH is &lt;6.0</td> </tr> <tr> <td>Total and Dissolved Iron (µg/L)</td> <td>300<sup>f</sup></td> <td>Maximum</td> <td>Monthly; or weekly if pH is &lt;6.0</td> </tr> <tr> <td>Trace heavy metals</td> <td>-</td> <td>-</td> <td>Quarterly</td> </tr> </tbody> </table> <p><b>Associated monitoring requirements</b></p> <ul style="list-style-type: none"> <li>a) Monitoring must be in accordance with the methods prescribed in the current edition of the Department of Environment and Heritage Protection <i>Water Quality Sampling Manual</i>.</li> <li>b) Samples must be taken using representative samples.</li> <li>c) All determinations must employ analytical practical quantification limits sufficiently low enough to enable comparisons to be made against water quality objectives/limits relevant to the particular water quality characteristic.</li> <li>d) Monitoring must be undertaken as per the frequency stated.</li> <li>e) All monitoring devices must be correctly calibrated and maintained.</li> <li>f) Limit applies only to the Total value of the analyte.</li> </ul>	Quality characteristic (units)	Limit	Limit Type	Minimum Monitoring Frequency	pH (pH units)	6.5-8	Range	Continuous at the point of extraction, and at representative locations daily	Electrical Conductivity (µS/cm)	500	Maximum	Continuous	Total Suspended Solids (mg/L)	50	Maximum	Monthly	Total and Dissolved Aluminium (µg/L)	55 <sup>f</sup>	Maximum	Monthly; or weekly if pH is <6.0	Total and Dissolved Iron (µg/L)	300 <sup>f</sup>	Maximum	Monthly; or weekly if pH is <6.0	Trace heavy metals	-	-	Quarterly
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WT2	Any breach of water quality limits listed in <i>Table 1—Extraction pit water quality limits</i> must be investigated to determine the cause, and measures taken to restore water quality limits within a reasonable timeframe.																												
WT3	Contaminants must not be released to <b>waters</b> , except <b>uncontrolled releases</b> during and immediately following inundation by floodwaters.																												
WT4	Any release to <b>waters</b> must not: <ul style="list-style-type: none"> <li>a) have any other properties at a concentration that is capable of causing environmental harm;</li> <li>b) produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.</li> </ul>																												
WT5	A <b>receiving environment monitoring program</b> must be designed and implemented by an <b>appropriately qualified person(s)</b> to monitor the effects of the <b>activity</b> on.																												

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WT6	<p>The <b>receiving environment monitoring program</b> must include at least the following:</p> <ul style="list-style-type: none"> <li>a) description of potentially affected receiving waters including key communities and background water and sediment quality characteristics based on accurate and reliable monitoring data that takes into consideration any temporal variation (e.g. seasonality); and</li> <li>b) description of applicable environmental values and sediment and water quality objectives to be achieved; and</li> <li>c) any relevant reports prepared by other governmental or professional research organisations that relate to the receiving environment within which the Receiving Environment Monitoring Program is proposed; and</li> <li>d) water and sediment quality targets within the receiving environment to be achieved, and clarification of contaminant concentrations or levels indicating adverse environmental impacts during the monitoring program.</li> </ul>
WT7	<p>A <b>groundwater monitoring system</b> must be designed and implemented as follows:</p> <ul style="list-style-type: none"> <li>a) be designed and installed by an <b>appropriately qualified person(s)</b> with experience and qualifications in hydrology and <b>groundwater</b> monitoring; and</li> <li>b) include a sufficient number of bores installed at locations and depths which yield representative <b>groundwater</b> samples from at least the uppermost aquifer; and</li> <li>c) include monitoring of background <b>groundwater</b> quality, with both hydraulically <b>up-gradient bore(s)</b> or <b>background bore(s)</b> that have not been affected by any release of contaminants to <b>groundwater</b> from the <b>activity</b> and hydraulically <b>down gradient bore(s)</b> of the <b>activity</b>; and</li> <li>d) be designed to detect any significant changes to groundwater quality and level due to the <b>activity</b>; and</li> <li>e) to establish the monitoring parameters, which must include groundwater level, pH, electrical conductivity, aluminium (total and dissolved), and iron (total and dissolved).</li> </ul>
WT8	<p>Erosion and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.</p>

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Agency interest: Noise																																								
Condition number	Condition																																							
N1	<p>Noise at the sensitive receptor must not exceed the levels identified in <i>Table 2—Noise limits</i> when measured in accordance with the associated monitoring requirements.</p> <p><b>Table 2—Noise limits</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Sensitive receptor</th> <th colspan="3">Timing</th> </tr> <tr> <th colspan="3">Noise level dB(A) measured as <math>L_{Aeq,adj,T}</math></th> </tr> </thead> <tbody> <tr> <td rowspan="2">Commercial place</td> <td colspan="3">When open for business</td> </tr> <tr> <td colspan="3">50</td> </tr> <tr> <td rowspan="2">Library or educational institution</td> <td colspan="3">When open for business or when classes are being offered</td> </tr> <tr> <td colspan="3">40</td> </tr> <tr> <td rowspan="3">Other sensitive receptors</td> <td colspan="3">Monday to Sunday including public holidays</td> </tr> <tr> <td>6am – 6pm</td> <td>6pm - 10pm</td> <td>10pm - 6am</td> </tr> <tr> <td>50</td> <td>35</td> <td>30</td> </tr> <tr> <td>Any other sensitive place 300m or less from Maroochydore Rd</td> <td>50</td> <td>35</td> <td>30</td> </tr> <tr> <td>Any other sensitive place more than 300m from Maroochydore Rd</td> <td>43</td> <td>35</td> <td>30</td> </tr> </tbody> </table> <p><b>Associated monitoring requirements</b></p> <ol style="list-style-type: none"> <li>1) All monitoring devices must be correctly calibrated and maintained.</li> <li>2) Any monitoring must be in accordance with the most recent version of the administering authority's Noise Measurement Manual.</li> <li>3) Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation.</li> </ol>	Sensitive receptor	Timing			Noise level dB(A) measured as $L_{Aeq,adj,T}$			Commercial place	When open for business			50			Library or educational institution	When open for business or when classes are being offered			40			Other sensitive receptors	Monday to Sunday including public holidays			6am – 6pm	6pm - 10pm	10pm - 6am	50	35	30	Any other sensitive place 300m or less from Maroochydore Rd	50	35	30	Any other sensitive place more than 300m from Maroochydore Rd	43	35	30
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N2	<p>When required by the <b>administering authority</b>, noise monitoring must be undertaken in accordance with the associated monitoring requirements of <i>Table 2—Noise Limits</i>, and the results notified within 14 days to the <b>administering authority</b>. Monitoring must include:</p> <ol style="list-style-type: none"> <li>a) <math>L_{Aeq,adj,T}</math></li> <li>b) <b>Background</b> noise (Background) as <math>L_{A90,adj,T}</math></li> <li>c) <math>MaxL_{pA,T}</math></li> <li>d) the level and frequency of occurrence of any impulsive or tonal noise</li> <li>e) atmospheric conditions including wind speed and direction</li> <li>f) effects due to extraneous factors such as traffic noise</li> <li>g) location, date and time of recording.</li> </ol>																																							
N3	<p><b>Blasting</b> or the generation of <b>substantial low frequency noise</b> is not permitted.</p>																																							

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Agency interest: Land	
Condition number	Condition
L1	Treatment and management of acid sulfate soils must comply with the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
L2	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: <ul style="list-style-type: none"> <li>a) suitable native species of <b>vegetation</b> for the location are established and sustained for earthen surfaces</li> <li>b) potential for erosion is minimised</li> <li>c) the quality of water, including seepage, released from the site does not cause environmental harm</li> <li>d) potential for environmental nuisance caused by dust is minimised</li> <li>e) the water quality of any residual water body does not have potential to cause environmental harm</li> <li>f) the final landform is stable and protects public safety.</li> </ul>
L3	Rehabilitation of disturbed areas required under condition L2, must take place progressively as works are staged and new areas of extraction are commenced.
L4	Prior to surrender of the <b>activity</b> , a post closure management plan, detailing practices and measures necessary to prevent or minimise environmental harm after the decommissioning of the <b>activity</b> , must be prepared, approved by the <b>administering authority</b> and implemented.
Agency interest: Waste	
Condition number	Condition
WT1	All waste generated in carrying out the <b>activity</b> must be reused, recycled or removed to a facility that can lawfully accept the waste.



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### Definitions

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

**Activity** means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

**Administering authority** means the Department of Environment and Heritage Protection or its successor or

**Appropriately qualified person(s)** means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

**Background** means noise, measured in the absence of the noise under investigation, as  $L_{A90,T}$  being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

**Background bore** means **groundwater** monitoring bore, constructed in accordance with the current version of the *Minimum Construction Requirements for Water Bores in Australia*, and used to sample **groundwater** from an aquifer the water quality of which may be potentially affected by the **activity**. This may be an **up-gradient bore**, **down-gradient bore** or bore in the same aquifer in a nearby location unaffected by the **activity**.

**Blasting** is the use of explosives to fracture:

- rock, coal and other minerals for later recovery; or
- structural components or other items to facilitate removal from a site or for reuse.

**Commercial place** means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

**Down-gradient bore** means a **background bore** in a location hydraulically down gradient of those aspects of the **activity** that may affect groundwater quality.

**Groundwater** means water that occurs naturally in, or is introduced artificially into, an aquifer.

**Groundwater monitoring system** means a system of groundwater monitoring devices, such as monitoring bores, used to provide data in respect to the level and quality of groundwater in the uppermost aquifer where the location of the groundwater monitoring devices is such that comparisons of groundwater quality and groundwater level can be made between groundwater flowing from beneath the site (down-gradient flow) of the **activity** and groundwater flowing towards the site of the **activity** (up-gradient flow).

$L_{Aeq,adj,T}$  means the adjusted A weighted equivalent continuous sound pressure level measures on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the activity is causing a steady state noise, and no shorter than one hour when the approved activity is causing an intermittent noise.

$Max_{LpA,T}$  means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response.

**Measures** has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

**NATA** means National Association of Testing Authorities.

**Noxious** means harmful or injurious to health or physical well-being.

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**Offensive** means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

**Prescribed contaminants** means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

**Receiving environment monitoring program** means a monitoring program designed to monitor and assess the potential impacts of controlled and/or uncontrolled releases of contaminants to the environment from the activity.

**Release of a contaminant into the environment** means to:

- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

**Sensitive place** includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

**Substantial low frequency noise** means a noise emission that has an unbalanced frequency spectrum shown in a one-third octave band measurement, with a predominant component within the frequency range 10 to 200Hz. It includes any noise emission likely to cause an overall sound pressure level at a sensitive place exceeding 55dB(Z).

**Uncontrolled releases** means uncontrolled releases of water from the site as a consequence of natural flooding.

**Up-gradient bore** means a **background bore**, in a location hydraulically up gradient of all potential influences of the **activity** that may affect groundwater quality.

**Waters** includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

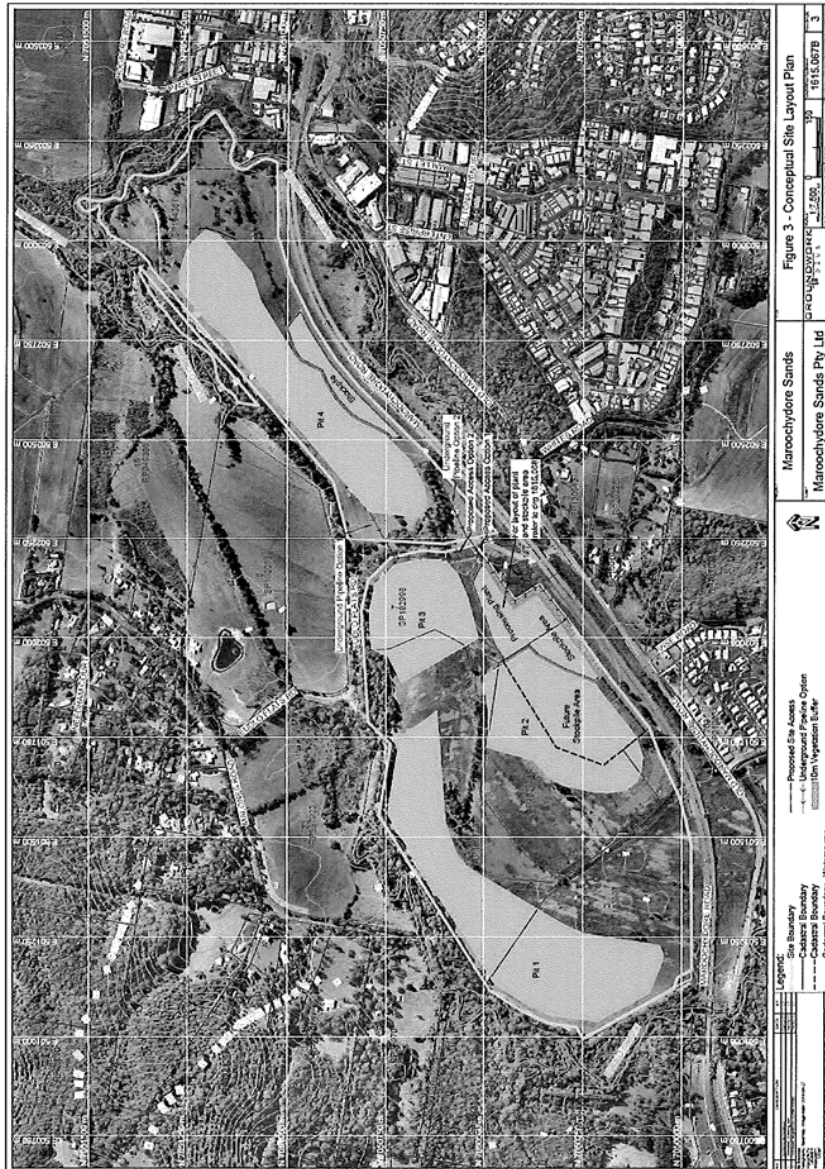
**Vegetation** means plants collectively; the plant life of a particular region considered as a whole.

**You** means the holder of the environmental authority.

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Schedule 1

Figure 1 — Conceptual Site Layout Plan



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