

Registration certificate

Environmental Protection Act 1994

Registration certificate

No: ENRE00776608

This registration certificate is issued by the administering authority and takes effect from: 29-NOV-2011.

The anniversary day for the purposes of the Annual Return is 12 July.

This registration certificate is a requirement of section 73F of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activities listed below at the following places; subject to the conditions set out in development approval attached to the premises.

Registered Operator:-

Pacific International Development Corporation Pty Ltd
'The Precinct' Suite #3
45 Bundall Road, BUNDALL QLD 4217

Development Approval Number: IPDE00973308 (formerly SR1341)

Place:-

Lot 1 Plan RP46806, Lot 2 Plan RP46806, Lot 200 Plan SP133189

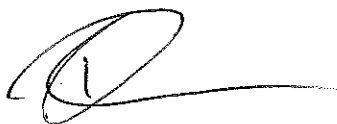
Located at:-

Undullah Road (Near Mt Elliot Road), UNDULLAH QLD 4285

Registered Activities:-

ERA 16 Extractive and screening activities Threshold 1(b) - dredging, in a year, more than 10000t to 100000t of material

ERA 16 Extractive and screening activities Threshold 3(a) - screening, in a year, 5000t to 100000t of material



Delegate

Derek Robson

Department of Environment and Resource Management
Environmental Protection Act 1994

29-NOV-2011

Development Permit

Section 3.5.15 of *Integrated Planning Act 1997*

DERM Permit¹ number: IPCE02080310

DERM Permit¹ number:	IPCE02080310
Assessment Manager reference:	D9290/020-030-002890
Date application received by DERM:	28-APR-2010
Permit¹ Type:	Development Approval for a MCU involving an ERA
Date of Decision:	6-JUL-2011
Decision:	Approved with conditions
Relevant Laws and Policies:	<i>Environmental Protection Act 1994</i> and any subordinate legislation

Development Description

Property	Lot/Plan	Aspect of Development
Flinders Grove (formerly known as Undullah Station), Wild Pig Creek Road, Undullah Qld 4285	Lot 10 on SP133192, Lot 20 on SP133191 and Lot 30 on SP133190	ERA 16 Extractive and screening activities Threshold 2(b) - extracting, other than by dredging, in a year, 5000t to 100,000t of material.

Additional information for applicants

The standard currency periods stated in section 3.5.21 of the *Integrated Planning Act 1997* or the nominated currency period, apply to each aspect of development in this permit¹. For information on when this permit¹ takes effect and the relevant currency periods, please see point 3 in the Notice of Decision.

Contaminated Land

It is a requirement of the *Environmental Protection Act 1994* that if an owner or occupier of land becomes aware a Notifiable Activity (as defined by Schedule 2 of the *Environmental Protection Act 1994*) is being carried out on the land or that the land has been affected by a hazardous contaminant, they must, within 30 days after becoming so aware, give notice to the Department of Environment and Resource Management.

Environmentally Relevant Activities

The aforementioned description of any environmentally relevant activity (ERA) for which this permit is issued is simply a restatement of the ERA as prescribed in the legislation at the time of issuing this permit. Where there is any conflict between the abovementioned description of the ERA for which this permit is issued and the

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Department of Environment and Resource Management and the Queensland Parks and Wildlife Service

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conditions specified herein as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

This permit authorises the ERA. It does not authorise environmental harm unless a condition within this permit explicitly authorises that harm. Where there is no such condition, or the permit is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.

In addition to this permit, the person to carry out the ERA must be a registered operator under the *Environmental Protection Act 1994*. For the person to become a registered operator, they must apply for a registration certificate under section 73F of the *Environmental Protection Act 1994*.



Mike Thomas
Delegate

Department of Environment & Resource Management
6 JUL 2011

CONDITIONS

Agency Interest - General

Prevent and/or minimise likelihood of environmental harm.

- (G1) In carrying out the authorised activity to which this approval relates, all reasonable and practicable measures must be taken to prevent and/or to minimise the likelihood of environmental harm being caused.

Maintenance of Measures, Plant and Equipment

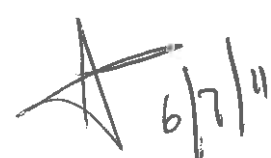
- (G2) The registered operator of the authorised activity to which this approval relates must:
- (a) install all measures, plant and equipment necessary to ensure compliance with the administering authority's conditions;
 - (b) maintain such measures, plant and equipment in a proper and efficient condition; and
 - (c) operate such measures, plant and equipment in a proper and efficient manner.

In this condition, "plant and equipment" includes:

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

Site Based Management Plan

- (G3) From commencement of the authorised activities to which this approval relates, a site based management plan (SBMP) must be implemented. The SBMP must identify, in relation to the activities, all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all authorised activities that are carried out.
- (G4) The SBMP must address the following matters:
- (a) environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals;
 - (b) identification of environmental issues and potential impacts;
 - (c) control measures for routine operations to minimise likelihood of environmental harm;
 - (d) contingency plans and emergency procedures for non-routine situations;
 - (e) organisational structure and responsibility;
 - (f) effective communication;
 - (g) monitoring of contaminant releases;
 - (h) conducting environmental impact assessments;
 - (i) staff training;
 - (j) record keeping; and
 - (k) periodic review of environmental performance and continual improvement.



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- (G5) The SBMP must not be implemented or amended in a way that contravenes any condition of this approval.

Records

- (G6) Any record or document required to be kept by any administering authority conditions, must be kept at the approved place and be available for examination by an authorised person under the *Environmental Protection Act 1994*.

Alterations

- (G7) No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by the administering authority's conditions. An example of a substantial increase in the risk of environmental harm is an increase of ten percent (10%) or more in the quantity of the contaminant to be released to the environment.

Notification

- (G8) The registered operator of the authorised activity to which this approval relates must telephone the administering authority's Pollution Hotline or otherwise contact the administering authority as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this development approval or any event where environmental harm has been caused or may be threatened.

Information about Spills

- (G9) A written notice detailing the following information must be provided to the administering authority within 14 days of any request provided pursuant to condition G8:
- (a) the name of the entity responsible for the works;
 - (b) the name and telephone number of a designated contact person;
 - (c) quantity and substance released;
 - (d) vehicle and registration details;
 - (e) person/s involved (driver and any others);
 - (f) the location and time of the release;
 - (g) the suspected cause of the release;
 - (h) a description of the effects of the release;
 - (i) the results of any sampling performed in relation to the release;
 - (j) actions taken to mitigate any environmental harm caused by the release; and
 - (k) proposed actions to prevent a recurrence of the release.

Trained / Experienced Operator(s)

- (G10) The registered operator of the authorised activity to which this approval relates, including but not limited to employees and contract staff must be trained in the procedures and practices necessary to comply with the conditions of this approval and prevent environmental harm during normal operation and emergencies.



Monitoring

- (G11) A suitably qualified and competent person(s) must conduct any monitoring required under this approval.

Reporting

- (G12) The registered operator of the authorised activity to which this approval relates must ensure the monitoring data gathered in accordance with conditions of this approval is analysed and interpreted, by an expert in the field of each monitoring program, to **assess** the nature and extent of any environmental impact.

Equipment Calibration

- (G13) All instruments and devices used for the measurement or monitoring of any parameter under any administering authority condition must be calibrated, and appropriately operated and maintained.

Spill Kit

- (G14) An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes and chemicals associated with the authorised activity to which this approval relates must be kept at the approved place.

Spill Kit Training

- (G15) Anyone operating under this approval must be trained in the use of the spill kit.

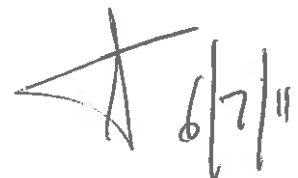
Complaint Response

- (G16) The registered operator of the authorised activity to which this approval relates must record the following details for all complaints received and provide this information to the administering authority on request:
- (a) time, date, name and contact details of the complainant;
 - (b) reasons for the complaint;
 - (c) any investigations undertaken;
 - (d) conclusions formed; and
 - (e) any actions taken.

Agency Interest: Air

Release of Contaminants to Air

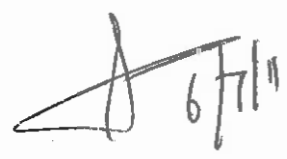
- (A1) The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the authorised activity to which this approval relates must not cause an environmental nuisance at any nuisance sensitive or commercial place.



Dust and Particulate Emissions

- (A2) The release of dust and/or particulate matter resulting from the authorised activity to which this approval relates must not cause an environmental nuisance at any nuisance sensitive or commercial place.
- (A3) An environmental nuisance caused by dust and/or particulate matter includes a release to a nuisance sensitive place that exceeds either of the following limits at that place:
- (a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with *Australian Standard AS 3580.10-1991*; or
 - (b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM_{10}) suspended in the atmosphere of 150 micrograms per cubic metre over a 24-hour averaging time, at a nuisance sensitive place downwind of the approved place, when monitored in accordance with:
 - (i) *Australian Standard AS 3580.9.6 Ambient air - Particulate matter - Determination of suspended particulate PM_{10} high-volume sampler with size-selective inlet - Gravimetric method*; or
 - (ii) any alternative method of monitoring PM_{10} which may be permitted by the *Air Quality Sampling Manual* as published from time to time by the administering authority.

Dust Control

- (A4) Stockpiled material must be maintained in a manner that minimises the generation of windblown particles. Control measures may include, but not be limited to:
- (a) minimising the size of stockpile areas;
 - (b) provisions for windbreaks and sediment fences; and
 - (c) water truck or sprays to dampen product stockpiles when necessary.
- (A5) The registered operator of the authorised activity to which this approval relates must take all reasonable and practicable measures necessary to prevent spillage and/or loss of particulate matter and windblown dust from trucks used for transporting aggregates from the approved place. Reasonable and practicable measures may include but are not limited to:
- (a) wetting down the load prior to transport;
 - (b) having the entire load covered with a tarpaulin or similar material for the duration of transport; and
 - (c) clearing of spillage from side rails, tail gates and draw bars of trucks prior to departure from the approved place and prior to departure from the premises to which the load has been delivered.
- (A6) Unsealed trafficable areas must be maintained using all reasonable and practicable measures to minimise the release of windblown or traffic-generated dust to the atmosphere. Reasonable and practicable measures may include but are not limited to:
- (a) sealing with bitumen or other suitable material;
 - (b) keeping surface clean;
 - (c) use of water sprays;
 - (d) adoption and adherence to speed limits; and
 - (e) use of dust suppressants and windbreaks.
- (A7) Waste oils or effluent resulting from washing trucks, plant or equipment must not be used for dust suppression purposes.
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Dust Monitoring

- (A8) When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include:
- (a) for a complaint alleging dust nuisance, dust deposition; and
 - (b) for a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM_{10}) suspended in the atmosphere over a 24 hr averaging time.
- (A9) The method of measurement and reporting of dust and/or particulate matter levels must comply with the latest edition of the administering authority's *Air Quality Sampling Manual*.

Vibration Nuisance

- (A10) Vibration emitted from the authorised activity to which this approval relates must not cause an environmental nuisance at any nuisance sensitive place or commercial place.

Vibration Monitoring

- (A11) When requested by the administering authority, vibration monitoring and recording must be undertaken to investigate any complaint of vibration nuisance, and the results notified within 14 days to the administering authority following the completion of monitoring. Monitoring must include:
- (a) peak particle velocity (mm/s);
 - (b) location of the blast/s within the site (including which bench level);
 - (c) atmospheric conditions including temperature, relative humidity and wind speed and direction;
 - (d) the level and frequency of occurrence of impulsive or tonal noise;
 - (e) effects due to extraneous factors; and
 - (f) location, date and time of recording.

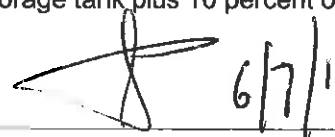
Agency Interest: Land**Release of Contaminants to Land**

- (L1) Contaminants must not be released to land.
- (L2) Spillage of all chemicals and fuels, must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.

Note: All petroleum product storages must be designed, constructed and maintained in accordance with *Australian Standard 1940 - Storage and Handling of Flammable and Combustible Liquids*.

Bunding

- (L3) All above ground chemical and fuel tank storages must be bunded so that the capacity of the bund is sufficient to contain at least 100 percent of the largest storage tank plus 10 percent of the second largest tank within the bund.



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- (L4) All chemical and fuel drum storages must be bunded so that the capacity of the bund is sufficient to contain at least 25 percent of the maximum design storage volume within the bund.
- (L5) All bunding must be constructed of materials, which are impervious to the materials stored.
- (L6) All bunding must be roofed where practicable.
- (L7) Where it is impractical to completely roof a bunded area the registered operator of the authorised activity to which this approval relates must ensure that any stormwater captured within the bund is free from contaminants or wastes prior to any release.
- (L8) All empty drums must be stored on a concrete hardstand area with their closures in place.

High Level Alarms

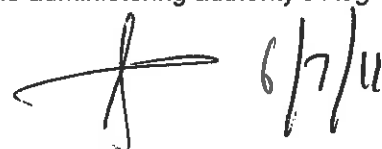
- (L9) The registered operator of the authorised activity to which this approval relates must ensure that effective and appropriate measures are used to prevent the overfilling of vessels or containers containing petroleum products and prevent the spillage of material during material transfer operations. Effective and appropriate measures may include but are not limited to the use of high level alarms and operator diligence.
- (L10) A tank overfill protection system is to be installed with a mechanical shut off valve and visual/audible alarm for all petroleum product storages greater than 500 L.

Tank Dewatering

- (L11) Contaminants arising from tank dewatering operations must not be released within any tank bund.
- (L12) Contaminants arising from tank dewatering operations must not be released to land.
- (L13) Contaminants arising from tank dewatering operations must not be released to waters except in accordance with the conditions of this approval.

Extent of Operations

- (L14) Extraction must only be undertaken in the areas marked as 'Zone 1a', 'Zone 1b', 'Zone 2' and 'Zone 3' as shown on drawing number 3601-SMSRRC-P30A, amendment F, entitled 'Sand Mining Development Proposal Plan Overall', prepared by Mortons Urban Solutions for Pacific International Development Corporation Pty Ltd, dated 17 March 2011.
- (L15) The total quantity of material extracted from the approved place (not including vegetation) must not exceed 60,000 m³ (90,000 tonnes) per year.
- (L16) The total quantity of material extracted from the approved place (not including vegetation) must not exceed 663,876 m³ over the life of the operation.
- (L17) Notwithstanding any other condition, no extraction or clearing is to occur within 10 metres of remnant and high value regrowth vegetation, unless permitted by the administering authority's *Regrowth Vegetation Code*.



Note: the 10 metres buffer is to be measured from the outside of the remnant and high value regrowth areas.

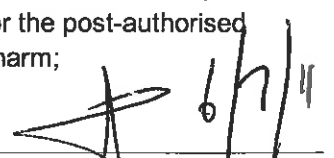
- (L18) Notwithstanding any other condition, no extraction or clearing is to occur within any watercourse or within 10 metres of Stream Order 1 and 2, 25 metres of Stream Order 3 and 4, and 50 metres of Stream Order 5 as part of this development approval, DERM Permit Number IPCE02080310.

Note: the buffer distances for watercourses are to be measured from the centre-point of the watercourse.

- (L19) No infrastructure is to be located within any areas of remnant and high value regrowth vegetation or within any watercourse.
- (L20) No infrastructure other than erosion and sediment control devices and tree protection fences are to be located within the 10 metre buffer zones from remnant and high value regrowth vegetation and within 10 metres of Stream Order 1 and 2, 25 metres of Stream Order 3 and 4, and 50 metres of Stream Order 5 watercourses.

Land Rehabilitation

- (L21) Topsoil must be removed and stockpiled prior to commencing the authorised activity.
- (L22) Rehabilitation of areas disturbed by the authorised activity, apart from those areas currently being utilised for the authorised activity, must take place progressively and must commence within three months of cessation of the authorised activity in that area.
- (L23) Native species endemic to the approved place must be used for revegetation. If none are available, appropriate species must be propagated from seeds collected from the approved place.
- (L24) Rehabilitation of the approved place must be conducted in such a way that the objectives and performance criteria outlined in the *Site Rehabilitation Plan – Undullah Sand Mine*, prepared by James Warren & Associates for Mortons Urban Solutions, and dated May 2011, are met.
- (L25) Excavations that are to remain after cessation of the authorised activity at the approved place must be made safe and accessible to native animals.
- (L26) The water quality of any residual water bodies must comply with the water quality guidelines for livestock drinking water stated in the *Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000*.
- (L27) The approved place (including all disturbed areas such as slopes, sedimentation dam(s) and stockpile areas) must be rehabilitated in a manner such that:
- suitable endemic species of vegetation are planted and established;
 - effective erosion control measures are implemented;
 - the quality of stormwater, other water and seepage released from the approved place is such that releases of contaminants such as suspended solids, turbidity, total dissolved salts, pH, total iron, total aluminium and total manganese are not likely to cause environmental harm;
 - the likelihood of environmental nuisance being caused by release of dust is minimised;
 - the water quality of any residual water body meets relevant criteria for the post-authorised activity use and does not have the potential to cause environmental harm;
 - the final land form is stable and not subject to slumping; and



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- (g) any actual and potential acid sulfate soils in or at the approved place are either not disturbed, are submerged, or are treated so as to be unlikely to cause environmental harm.
- (L28) At least six (6) months prior to ceasing the authorised activity at the approved place, the registered operator must submit a Draft Site Rehabilitation and Decommissioning Report to the administering authority addressing the matters prescribed in condition L28.
- (L29) At least three (3) months prior to ceasing the authorised activity at the approved place, the registered operator must submit a Final Site Rehabilitation and Decommissioning Report to administering authority. The Final Site Rehabilitation and Decommissioning Report must include any amendments made to the Draft Site Rehabilitation Report arising from consultation with the administering authority.
- (L30) The Site Rehabilitation and Decommissioning Report must address at least the following matters:
- (a) description of what land use is ultimately proposed for the site;
 - (b) appropriate revegetation of the site, including ground preparation, species used, methods, density, irrigation, weed control, use of native species endemic to the area, staging and timing of revegetation works;
 - (c) the proposed landform design to be implemented, including design profile and batter slopes;
 - (d) nature of materials utilised and techniques to be employed for any proposed backfilling of extracted areas such as filling, compaction, topsoiling, overburden return and any other soil amelioration leading to vegetation establishment;
 - (e) stability of the final landform, including assessment of any changes to the flood gradient, assessment of the stability of slopes and susceptibility to soils slumping;
 - (f) stability of the final land surface (i.e. erosion control) including assessment of susceptibility of soils to erosion and anticipated erosion control measures;
 - (g) provision and protection of riparian and wildlife corridor widths and any appropriate linkages to other habitat areas;
 - (h) identification of any habitat areas that have been formed either directly or indirectly as a result of the extractive works or associated activities that may be adversely affected by decommissioning works, for example, any habitat pools upstream and downstream of a weir or causeway, and measures to protect these areas;
 - (i) potential long term impacts on environmental values and measures proposed to address these, for example, restoration of desired environmental values;
 - (j) expected short term and long term water quality within any lakes or ponds, with reference to likely uses of the waters, environmental values, appropriate water quality criteria, proposed remedial measures in the event that criteria are not met, and who will be responsible for maintenance of the water bodies in the long term;
 - (k) a proposed maintenance program, including maintenance of erosion control measures, vegetation being established (e.g. watering, weed control, fencing, site security) and water quality of any lakes or ponds;
 - (l) in the event that actual or potential acid sulfate soils are present, appropriate management measures for the soils including avoidance, submergence and treatment;
 - (m) prevention or minimisation of windblown dust from overburden stockpiles, remnant raw material stockpiles and rehabilitation earthworks;
 - (n) prevention or treatment of the release of contaminated stormwater runoff from remnant material stockpiles, disturbed areas and any lakes or ponds created to the bed or banks of any watercourse;
 - (o) a proposed monitoring program, for example, plant growth, plant health, stormwater quality, water body water quality, erosion protection measures and stability;
 - (p) records to be kept and reporting of outcomes, including the monitoring program results and rehabilitation outcomes achieved;

- (q) the staging and timing of the expected work;
- (r) any bonds kept for rehabilitation, for example, by the local authority; and
- (s) submission of written advice to the administering authority within fourteen (14) days of completion of site rehabilitation and decommissioning works.

(L31) The registered operator of the authorised activity to which this approval relates must provide a written report to the administering authority at the completion of site rehabilitation and decommissioning works within thirty days of completing the works.

Rehabilitation - Fill Material

- (L32) The only material to be used for the filling of voids must be clean rock, clay, gravel, sand or soil (excluding any contaminated rock, clay, gravel, sand or soil):
- (a) obtained from the approved place; or
 - (b) another uncontaminated source.

Agency Interest: Biodiversity

- (B1) The registered operator for the authorised activity to which this approval relates must prevent the spread of declared plants by ensuring that all vehicles and machinery are adequately cleaned before taking the vehicles and machinery out of a declared plant area.
- (B2) All reasonable and practicable measures must be taken to prevent and/or to minimise the likelihood of harm being caused to native wildlife. These measures may include, but not be limited to:
- (a) adherence to a 40km/hr speed limit at the site and along the associated access road;
 - (b) not operating vehicles during the hours of darkness, with the exception of security vehicles;
 - (c) not allowing domesticated animals access to the site;
 - (d) thoroughly washing all plant and earthmoving or quarrying equipment prior to arrival and departure to prevent the import and export of weeds; and
 - (e) actively removing all weed infestations observed on site during the period of operations.
- (B3) A qualified fauna spotter is to be engaged to work ahead of the site clearing works.
- (B4) In the event that native fauna is present, clearing works are to cease until such time as the fauna spotter is able to safely relocate the native fauna.

Note: For this condition, 'native fauna' does not include koalas. If the fauna spotter finds that a koala is present in the clearing area, the fauna spotter must not remove the koala; the koala must be left to move out of the clearing area of its own volition.

Agency Interest: Water

Release of Contaminants to Waters

- (WA1) Contaminants that may cause environmental harm must not be directly or indirectly released from the approved place to any waters or the bed and banks of any waters other than:
- (a) as specifically permitted under this development approval; or
 - (b) to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government.



- (WA2) Any chemical/s and/or flocculant/s used to treat turbid water must not directly or indirectly cause environmental harm either during the operation of the authorised activity or post-operation.

Groundwater

- (WA3) The authorised activity (including activities necessarily associated with the authorised activity) must not have a detrimental impact on groundwater quality or levels.

Stormwater Management

- (WA4) Except as otherwise provided by the conditions of this approval, the authorised activities must be carried out by such practicable means necessary to prevent and/or minimise the release or likelihood of release of contaminated runoff from the approved place to any stormwater drain or waters or the bed or banks of any such waters. "Contaminated runoff" for the purposes of this condition means stormwater and/or stormwater runoff that contains contaminants that may cause environmental harm.

Stormwater Management Plan

- (WA5) From commencement of the authorised activity to which this approval relates, the registered operator of the authorised activity to which this approval relates must implement an effective Stormwater Management Plan which details how the registered operator will manage the actual and potential impacts resulting from the contamination of stormwater at the approved place.
- (WA6) The Stormwater Management Plan must address at least the following matters:
- (a) prevention of stormwater and stormwater runoff from contacting contaminants and minimising runoff from the extraction area during overburden removal;
 - (b) minimisation of the amount of soil disturbed by staging works;
 - (c) details of sediment control measures;
 - (d) separation of clean and contaminated storm waters;
 - (e) measures for continuous improvement; and
 - (f) measures for periodic reporting and implementation of continuous improvement measures.
- (WA7) A copy of the Stormwater Management Plan and any amendment of the Stormwater Management Plan must be kept at the approved place and be available for examination by an authorised person under the *Environmental Protection Act 1994*, on request.
- (WA8) The registered operator of the authorised activity to which this approval relates must not implement or amend the Stormwater Management Plan where such implementation or amendment would result in a contravention of any condition of this approval.

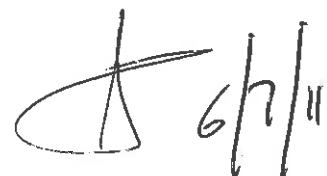
Maintenance and Clean Up

- (WA9) All maintenance and clean up of vehicles and other equipment or plant must be carried out in areas which minimise the risk of contaminants being released into any waters, roadside gutter or stormwater drainage system.
- (WA10) Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillages must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutters or waters.

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Sediment and Erosion Control

- (WA11) Effective erosion and sediment control structures must be designed, installed and maintained wherever necessary to prevent the erosion of disturbed areas and the release of sediment to waters.
- (WA12) Erosion control and sediment control structures must be maintained at all times during operation and checked, repaired or replaced as required after each rain event.

A handwritten signature, possibly reading 'A. G. P.', followed by the date '6/7/11'.

Sedimentation basins

- (WA13) The total storage volume of any sedimentation basin for the approved place must be of sufficient capacity to accommodate all water likely to enter the sedimentation basin catchments during a Q100 rainfall event, in addition to the processing waters, with a minimum of 500mm freeboard.
- (WA14) Sediment must be removed from the sedimentation basins when accumulated sediment reaches 33% of the total volume of that sediment basin. A depth indicator for 33% must be set into the internal banks of the sedimentation basins.
- (WA15) All sedimentation basins must be designed by a suitably qualified and experienced engineer.
- (WA16) Stockpile areas must be bunded to direct runoff from such areas to the sedimentation basins.
- (WA17) Clear and uncontaminated stormwater must be diverted away from disturbed areas, and not be allowed to enter the sedimentation ponds.
- (WA18) Any releases of water from the sedimentation basins must meet the water quality objectives detailed within the SEQWater Guideline *Water Quality Management in Drinking Water Catchments 2008*, and not exceed 40 NTU.

Oil Separators

- (WA19) Collected waste oil and sludge removed from each separator must be disposed of in a manner which does not cause contamination of any waters or land.
- (WA20) A record must be maintained of the time and date of the desludging and maintenance of each oil interceptor.
- (WA21) Collected waste oil and sludge is to be removed from approved place by a licensed waste contractor in accordance with condition W7.
- (WA22) Detergents or other emulsifying agents must be prevented as far as practicable from entering the separator.

Agency Interest: Noise**Noise Nuisance**

- (N1) All noise from the authorised activity to which this approval relates must not exceed the levels specified in Table 1 at any noise sensitive or commercial place.

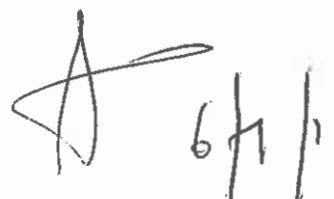


Table 1 - Noise limits

Noise level dB(A) measured as	Monday to Saturday			Sundays and public holidays		
	7am - 6pm	6pm - 10pm	10pm - 7am	9am - 6pm	6pm - 10pm	10pm - 9am
	Noise measured at a 'Noise sensitive place'					
L _A , max adj, 10mins	Bkg + 5	Bkg + 3	Bkg + 0	Bkg + 0	Bkg + 0	Bkg + 0
	Noise measured at a 'Commercial place'					
L _A , max adj, 10mins	Bkg + 10	Bkg + 5	Bkg + 0	Bkg + 0	Bkg + 0	Bkg + 0

*Bkg – background sound pressure level, L_{A90}, 15 min

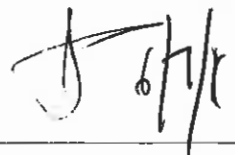
- (N2) Notwithstanding condition N1, the authorised activity to which this approval relates must not cause environmental nuisance at any noise sensitive or commercial place.
- (N3) Notwithstanding Table 1, the operation of rock breaking, rock hammering, crushing or screening equipment which result in impulsive or tonal noise shall not be carried out:
- outside the hours of 8.00 am to 4.00 pm Mondays to Fridays;
 - outside the hours of 9.00 am to 4.00 pm Saturdays;
 - on Sundays; and
 - on public holidays.

Noise Control

- (N4) All mobile and stationary plant and equipment must be operated and maintained in a manner which minimises noise emissions.

Noise Monitoring

- (N5) When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must include:
- air blast overpressure [dB (Lin) Peak] (for blast monitoring only);
 - peak particle velocity (for ground vibration monitoring only);
 - L_A, max adj, 10mins;
 - L_{A90}, 15min;
 - the level and frequency of occurrence of impulsive or tonal noise;
 - atmospheric conditions including wind speed and direction;
 - effects due to extraneous factors such as traffic noise;
 - location, date and time of recording; and
 - details of measurement instrumentation and measurement procedure.
- (N6) Should noise levels be exceeded and monitoring results indicate environmental nuisance, the registered operator of the authorised activity to which this approval relates must:
- address the complaint including the use of appropriate dispute resolution if required; or
 - immediately implement noise abatement measures so that emissions of noise from the authorised activity do not result in further environmental nuisance.



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- (N7) The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's *Noise Measurement Manual*.

Explosive blasting nuisance

- (N8) No blasting is to occur at the approved place.

Agency Interest: Waste Management

General

- (W1) Procedures must be implemented to ensure that wastes are minimised, recycled, stored, handled and transferred in a proper and efficient manner and that any disposal of waste (except any release of waste provided for by the administering authority's conditions) is to a facility appropriate to accept such waste.

Waste Management Plan

- (W2) From commencement of the authorised activity to which this approval relates, a Waste Management Plan must be developed and implemented.
- (W3) The Waste Management Plan must address at least the following matters:
- (a) the types and amount of waste generated by the activity;
 - (b) how the waste will be dealt with, including a description of the types and amounts of waste that will be dealt with under each of the waste management practices mentioned in the waste management hierarchy (section 10 of the *Environmental Protection (Waste Management) Policy 2000*);
 - (c) procedures for identifying and implementing opportunities to improve the waste management practices employed e.g. opportunities for beneficial reuse of biosolids;
 - (d) procedures for dealing with accidents, spills and other incidents that may impact on the waste management;
 - (e) details of any accredited management system employed, or planned to be employed, to deal with the waste;
 - (f) how often the performance of the waste management practices will be assessed (at least annually); and
 - (g) the indicators or other criteria on which the performance of the waste management practices will be assessed.
- (W4) A copy of the Waste Management Plan and any amendment of the Waste Management Plan must be kept at the approved place and be available for examination by an authorised person under the *Environmental Protection Act 1994*, on request.
- (W5) The registered operator of the authorised activity to which this approval relates must not implement or amend the Waste Management Plan where such implementation or amendment would result in a contravention of any condition of this approval.

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Waste Handling and Off Site Movement of Regulated Waste

- (W6) All regulated waste removal from the approved place must be removed by a person who holds a current approval to transport such waste under the provisions of the *Environmental Protection Act 1994*.
- (W7) Where regulated waste is removed from approved place (other than by a release permitted in this approval), the registered operator of the authorised activity to which this approval relates must monitor and keep records of the following:
- (a) the date, quantity and type of waste removed;
 - (b) name of the waste transporter and/ or disposal operator that removed the waste; and
 - (c) the intended treatment/disposal destination of the waste.

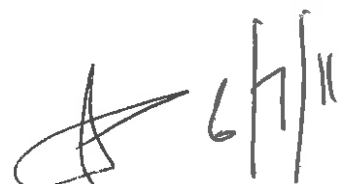
Note: Records of documents maintained in compliance with a waste tracking system established under the *Environmental Protection Act 1994* or any other law for regulated waste will be deemed to satisfy this condition.

Notification of Improper Disposal of Regulated Waste

- (W8) If a person removes regulated waste associated with activities at the approved place and disposes of such waste in a manner which is unlawful, the registered operator must notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal as soon as practicable.

Cleared Vegetative Material

- (W9) Vegetation including trees, shrubs and under growth should be recycled where possible, including selling any millable timber and mulching of suitable vegetation (non-weed) for rehabilitation and erosion control at the approved place.



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DEFINITIONS

Words and phrases used throughout this permit¹ are defined below. Where a definition for a term used in this permit¹ is sought and the term is not defined within this permit¹ the definitions provided in the relevant legislation shall be used.

"authorised activity" means the environmentally relevant activity (ERA), or aspect of the ERA (including activities necessarily associated with the ERA) to which this approval relates.

"anniversary day", for a registration certificate is defined in Schedule 3 of the *Environmental Protection Act 1994*.

"asbestos-containing material" means any material, object, product or debris that contains asbestos.

"asbestos waste" means all removed asbestos-containing materials and disposable items used during the asbestos removal work, such as plastic sheeting used for an enclosure or to cover surfaces in the asbestos work area, disposable coveralls, disposable respirators and rags used for cleaning etc.

"administering authority" means the Department of Environment and Resource Management or its successor.

"annual return" means the return required by the annual notice (under section 316 of the *Environmental Protection Act 1994*) for the section 73F registration certificate that applies to the development approval.

"approval" means 'notice of development application decision' or 'notice of concurrence agency response' under the *Sustainable Planning Act 2009*.

"approved plans" means the plans and documents listed in the approved plans section in the notice attached to this development approval.

"authorised place" means the place authorised under this development approval for the carrying out of the specified ERAs.

"Code of environmental compliance" means a code of environmental compliance approved or made under a regulation of the *Environmental Protection Act 1994*.

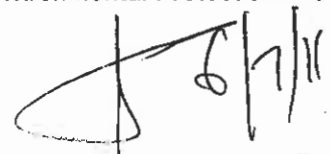
"commercial place" means a place used as an office or for business or commercial purposes.

"dredge spoil" means material taken from the bed or banks of waters by using dredging equipment or other equipment designed for use in extraction of earthen material.

"dwelling" means any of the following structures or vehicles that is principally used as a residence –

- (a) a house, unit, motel, nursing home or other building or part of a building;
- (b) a caravan, mobile home or other vehicle or structure on land; or
- (c) a water craft in a marina.

"Department of Environment and Resource Management" means the department or agency (whatever called) administering the *Coastal Protection and Management Act 1995* or the *Environmental Protection Act 1994*.



"incompatible wastes" means wastes that are likely to interact and increase the risk to human health and/or the environment when mixed or brought into contact.

"intrusive noise" means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration –

- is clearly audible to, or can be felt by, an individual;
- annoys the individual; and
- In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to *Australian Standard 1055.2 – 1997 Acoustics – Description and Measurement of Environmental Noise Part 2 – Application to Specific Situations*.

" $L_{A, 90, 15 \text{ mins}}$ " means the A-weighted sound pressure level exceeded for 90% of any 10 minute measurement period, obtained using Fast response.

" $L_{A, \text{max adj, T}}$ " means the arithmetic average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

"land" in the Land section of this approval means land excluding waters and the atmosphere.

"Liquescent waste" means waste tending toward a liquid state; waste that is not spadeable.

"mg/L" means milligrams per litre.

"noise sensitive place" includes –

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises;
- a motel, hotel or hostel;
- a kindergarten, school, university or other educational institution;
- a medical centre or hospital;
- 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.

"noxious" means harmful or injurious to health or physical well being.

"nuisance sensitive place" includes –

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises;
- a motel, hotel or hostel;
- a kindergarten, school, university or other educational institution;
- a medical centre or hospital;
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area;
- a public thoroughfare, park or gardens; or
- 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.

"offensive" means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.

"Packaged regulated waste" means regulated waste in a container with:

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- a capacity of not more than 450 litres; and
- a net mass of not more than 400 kilograms.

"protected area" means –

- a protected area under the *Nature Conservation Act 1992*;
- a marine park under the *Marine Parks Act 1992*; or
- a World Heritage Area.

"quarry material" means material extracted from the land includes for example stone, gravel, sand, rock, clay, mud, silt and soil, unless it is removed from a culvert, stormwater drain or other drainage infrastructure as waste material.

"registered operator" mean a entity (usually a person) holding a registration certificate given under section 73F of the *Environmental Protection Act 1994*.

"Registration Certificate" means a registration certificate given under section 73F of the *Environmental Protection Act 1994* to the operator of an ERA.

"regulated waste" means non-domestic waste mentioned in Schedule 7 of the *Environmental Protection Regulation 1998* (whether or not it has been treated or immobilised), and includes –

- for an element - any chemical compound containing the element; and
- anything that has contained the waste.

"Regulatory agency" means the agency of a State or Territory that **has** responsibility for regulating the transport of regulated wastes in that State or Territory.

"release" of a contaminant into the environment, includes:

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

"rigid vehicle" means a vehicle the load carrying area of which is fixed to the vehicle's chassis or frame (as defined in the ADG Code).

"risk phrase" means a phrase stated in the National Occupational Health and Safety Commission's (NOHSC's) document entitled *National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]*, or more recent versions, that gives information about the substance's hazards.

"road tank vehicle" means a truck, trailer or semi-trailer or unit in a road train, incorporating a tank, or having a tank or tanks mounted thereon, either permanently or temporarily (as defined in AS 2809.1–1999 — *Road Tank Vehicles for Dangerous Goods*).

"safety phrase" means a phrase stated in National Occupational Health and Safety Commission's document entitled *National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]*, or more recent versions, that gives information about:

- the safe use of the substance; or
- the personal protective equipment for the substance.



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"standard environmental conditions" for a code of environmental compliance, means the standard environmental conditions approved for the ERA, or aspect of the ERA, under section 549 of the *Environmental Protection Act 1994*.

"site" means land or tidal waters on or in which it is proposed to carry out the activity approved under this development approval.

"ullage" means a vapour space which is left above the liquid surface after filling, to permit a degree of thermal expansion of the liquid without loss of cargo (as defined in AS 2809.1–1999— *Road Tank Vehicles for Dangerous Goods*)

"watercourse" means a river, creek, stream or drainage path in which water flows permanently or intermittently-

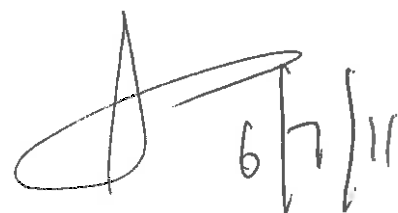
- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse; or
- in any drainage path which has a stream order number as identified on the administering authority's Regrowth Vegetation Map.

"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.

"works" or "operation" means the development approved under this development approval.

"you" means the holder of this development approval or owner / occupier of the land which is the subject of this development approval.

END OF CONDITIONS



Development Permit

EPA Permit¹ number:	IPDE00973308
Application (Converted Development Approval) No.	SR1341
Relevant Laws and Policies:	<i>Environmental Protection Act 1994</i> and any subordinate legislation

Development Description

Property/Location

Lot 1 Plan 46806, County of Stanley, Parish of Undullah, Title reference 11852094.
Lot 2 Plan 46806, County of Stanley, Parish of Undullah, Title reference 11852094.
Lot 2 Plan 102357, County of Stanley, Parish of Undullah, Title reference 11852094.

located at: Undullah Road (Near Mt Elliot Road)
UNDULLAH QLD 4285

Carrying out of Environmentally Relevant Activity (ERA)

19(b) - Dredging material - dredging material from the bed of any waters (other than dredging by a port authority of material for which a royalty or similar charge is not payable) using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

22(b) - Screening etc. materials - screening, washing, crushing, grinding, milling, sizing or separating material extracted from the earth (other than under a mining authority) or by dredging using plant or equipment having a design capacity of 5 000 tonnes or more, but less than 100 000 tonnes, per year.

Additional information for applicants

This approval pursuant to the *Environmental Protection Act 1994* does not remove the need to obtain any further approval for this development which might be required by other State and / or Commonwealth Legislation. Applicants are advised to check with all relevant statutory authorities. Applicants also should comply with all relevant legislation.

It is a requirement of the *Environmental Protection Act 1994* that if the owner or occupier of this site becomes aware a notifiable activity (as defined under schedule 2 of the *Environmental Protection Act 1994*) is being carried out on this land or that the land has been affected by a hazardous contaminant, they must, within thirty (30) days after becoming so aware, give notice to the Environmental Protection Agency.

Environmentally Relevant Activities

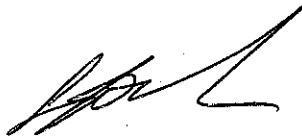
The aforementioned description of any environmentally relevant activity (ERA) for which this permit is issued is simply a restatement of the ERA as prescribed in the legislation at the time of issuing this permit. Where there is any conflict between the abovementioned description of the ERA for which this permit is issued and the conditions specified herein as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

¹ Permit includes development approvals, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Environmental Protection Agency and the Queensland Parks and Wildlife Service



This permit authorises the ERA. It does not authorise environmental harm unless a condition within this permit explicitly authorises that harm. Where there is no such condition, or the permit is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.

In addition to this permit, the person to carry out the ERA must be a registered operator under the *Environmental Protection Act 1994*. For the person to become a registered operator, they must apply for a registration certificate under section 73F of the *Environmental Protection Act 1994*.



Delegate of Administering Authority
Environmental Protection Act 1994

Date: 26 May 2008

Conditions of the Development Approval

This development approval consists of the following schedules of conditions relevant to various issues:

The aforementioned description of the environmentally relevant activity (ERA) for which this development approval is issued is simply a restatement of the activity as prescribed in the legislation at the time of issuing the approval. Where there is any conflict between the above description of the ERA for which this development approval is issued and the conditions as specified in this development approval as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

This development approval consists of the following schedules-

Schedule A - General Conditions

Schedule B - Air

Schedule C - Water

Schedule D - Stormwater Management

Schedule E - Land Application

Schedule F - Noise

Schedule G - Waste Management

Schedule H - Self Monitoring and Reporting

Schedule I - Definitions

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SCHEDULE A - GENERAL CONDITIONS**Prevent/Minimise Likelihood of Environmental Harm**

- (A1) In carrying out the environmentally relevant activities, the registered operator of this development approval must take all reasonable and practicable measures to prevent and/or to minimise the likelihood of environmental harm being caused. Any activities conducted in or on the premises, that, if carried out incompetently, may cause environmental harm, in a manner that could be prevented, shall be carried out in a proper manner by a competent person in accordance with the conditions of this authority.

Display of Development Approval

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

Records

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

Alterations

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

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

Calibration

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

Nuisance

- (A6) The operation of conditions A1, B1, B2, B3, B7 and D1 of this environmental authority does not authorise any release of contaminants that cause or are likely to cause an environmental nuisance beyond the boundaries of the approved place.

Integrated Environmental Management System (IEMS)

- (A7) The registered operator of this development approval must implement the Integrated Environmental Management System (IEMS) prepared by HLA - Envirosciences Pty Ltd dated February 1996 for the management of the actual and potential environmental impacts resulting from the carrying out of the environmentally relevant activities.
- (A8) The registered operator of this development approval must not implement an Integrated Environmental Management System or amend an Integrated Environmental Management System where such implementation or amendment would result in a contravention of any condition of this development approval.

¹ Permit includes development approvals, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Environmental Protection Agency and the Queensland Parks and Wildlife Service
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- (A9) The registered operator of this development approval must submit details of any amendment of the IEMS to the administering authority with the annual return which immediately follows the enactment of any such amendment.
- (A10) A copy of the IEMS must be kept at the approved place.

Dredging

- (A11) Dredging must only be carried out in the sections of Undallah Creek and Woollaman Creek as defined in Figure 3 entitled "Aerial Photography of Site and Surrounding Region" prepared by HLA - Envirosiences Pty Limited submitted with the application.

Other Requirements

- (A12) At all times the registered operator of this development approval must comply with all applicable lawful state and local government plans, standards, agreements and requirements.

End of Conditions for Schedule A

SCHEDULE B - AIR**Non Specified Releases to the Atmosphere****Dust Control**

- (B1) Stockpiles must be maintained using all practicable measures to minimise the release of wind blown dust or particulate matter to the atmosphere. Reasonable and practicable means may include but are not limited to anemometer switching systems which trigger operation of effective waterspray systems during winds likely to generate such releases, use of dust suppressant shielding and storage in bunkers.
- (B2) Trafficable areas must be maintained using all reasonable and practicable measures to minimise the release of wind blown dust or traffic generated dust to the atmosphere. Reasonable and practicable measures may include but are not limited to keeping surfaces clean, use of water sprays, adoption and adherence to speed limits, use of dust suppressants and wind breaks.
- (B3) Raw material preparation plants and external transfer conveyors must be operated and maintained using all reasonable and practicable measures to minimise the release of wind blown dust or particulate matter to the atmosphere. Reasonable and practicable measures may include but are not limited to transfer of materials in a moist state, enclosure or shielding of conveyors and buildings, use of water sprays at transfer points, shielding and wind breaks.

Loss of Materials During Transit

- (B4) The tailgates of all trucks leaving the premises must be securely fixed prior to loading and immediately after unloading to prevent loss of materials.
- (B5) Trucks transporting material from the premises must be covered immediately after loading to prevent wind-blown releases and spillage. The covering must be maintained until immediately before unloading the trucks.

Site Rehabilitation

- (B6) Completed areas must be stabilised by landscaping or revegetating as soon as practicable.
- (B7) Rehabilitation must be carried out in such a manner as to minimise releases of wind-blown dust and erosion.
- (B8) Access to areas awaiting or being rehabilitated must be restricted by suitable barriers to prevent disturbance of these areas.

End of Conditions for Schedule B

¹ Permit includes development approvals, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Environmental Protection Agency and the Queensland Parks and Wildlife Service.
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SCHEDULE C - WATER

Release of Contaminants to Waters

- (C1) Contaminants that may cause environmental harm, must not be directly or indirectly released from the approved place to any waters or the bed and banks of any waters except:
- (i) as permitted under the water schedule; or
 - (ii) the stormwater management schedule.

Description of Release

- (C2) The only contaminants permitted to be released from the approved place in the carrying out of the environmentally relevant activities are sand washing plant effluents from the final settlement pond.

Release Points

- (C3) Contaminants that may cause environmental harm must not be directly or indirectly released from any source on the approved place to any waters at any location other than the contaminants and sources at the location listed below:
- (i) Release Point W - Sand Washing Plant effluent from the final settlement pond to waters described as Undullah Creek adjacent to the confluence of Undullah and Woollaman Creeks as shown on Figure 3 entitled "Aerial Photography of Site and Surrounding Region" prepared by HLA - Envirosciences Pty Limited.
 - (ii) Sediments necessarily disturbed during extraction of material in the dredge pond.

Quantity of Contaminants Released

- (C4) The total quantity of contaminants released to Undullah Creek from Release Point W1 during any day must not exceed 900 cubic metres.

Quality Characteristics of Contaminants Released to Waters from the Final Settlement Pond

- (C5) The quality of contaminants released to waters from Release Point W1 must comply, at the sampling points specified in Schedule H, with each of the limits specified below:
- (i) the pH value must be not less than 6.5 and not more than 9.0;
 - (ii) the concentration of Dissolved Oxygen must be not less than 4 milligrams per litre;
 - (iii) the concentration of suspended solids must not exceed 50 milligrams per litre; and
 - (iv) the Total Aluminium concentration must not exceed 0.1 milligrams per litre.

Quality Characteristics of Contaminants Released to Waters from the Dredging Activity

- (C6) The dredging of the identified areas of Undullah and Woollaman Creeks as shown on Figure 3 entitled "Aerial Photography of Site and Surrounding Region" prepared by HLA - Envirosciences Pty Limited must not, at any downstream point, cause any quality characteristic to exceed the corresponding limit for the quality characteristic specified in Schedule C Table 1:

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Schedule C - Table 1

QUALITY CHARACTERISTIC	LIMIT AT ANY DOWNSTREAM POINT
Suspended Solids (mg/L)	Must not exceed 10 mg/L above a background value where the background value is less than 100mg/L or ten percent (10%) greater than a background value where the background value is greater than 100 mg/L.
Turbidity (NTU)	Must not exceed 2 NTU above a background value where the background value is less than 20 NTU or ten percent (10%) greater than a background value where the background value is greater than 20 NTU.
pH	Not less than 6.5 or greater than 9.0

Provided that for the purposes of this condition:

A background value for a quality characteristic is the value of the quality characteristic measured at a background sampling point in the receiving waters situated approximately 100 metres upstream of the dredging activity in Undullah and Woollaman Creeks.

A downstream point for the purpose of this condition, is any sampling point, in the receiving waters situated not more than 40 metres from the down-current end of the dredge pond.

- (C7) Notwithstanding the quality characteristic limits specified in condition number C5 and C6, the release of contaminants to waters must comply with the following qualitative characteristics:
- (i) the release must not have any properties nor contain any organisms or other contaminants which, in the opinion of the administering authority, are capable of causing environmental harm or an environmental nuisance; and
 - (ii) the release must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter.

Dredging

- (C8) The registered operator of this development approval must take reasonable and practicable measures to prevent erosion of creek banks as a result of carrying out the dredging activity.

Release of Petroleum Products

- (C9) There must be no release of petroleum products from any dredging equipment or petroleum product storage facility to any waters or stormwater drains.

End of Conditions for Schedule C

SCHEDULE D - STORMWATER MANAGEMENT**Contamination of Rainfall and Stormwater Runoff**

- (D1) Except as otherwise provided by the conditions of the stormwater management schedule and the water schedule of this development approval, the environmentally relevant activity must be carried out by such practicable means necessary to prevent and/or minimise the release or likelihood of release of contaminated runoff from the approved place to any stormwater drain or waters or the bed or banks of any such waters. "Contaminated runoff" for the purposes of this condition means stormwater and/or stormwater runoff that contains contaminants that may cause environmental harm.

Stormwater Management Plan

- (D2) The registered operator of this development approval must implement an appropriate and effective stormwater management plan which details how the registered operator of the development approval will manage the actual and potential environmental impacts resulting from contamination of stormwater at the approved place.
- (D3) The stormwater management plan must address at least the following matters:

General:

- (i) diversion of upstream runoff away from areas containing wastes, contaminants, or product;
- (ii) minimisation of the size of contaminated areas;
- (iii) cleaning of contaminated areas without using water;
- (iv) provision of facilities such as oil separators, silt and/or rubbish traps and stormwater diversion systems.

For Earthworks:

- (i) minimisation of exposed surface area to that within the current areas of operation;
 - (ii) comprehensive rehabilitation of completed areas as soon as reasonable and practicable following completion of excavation or other earthworks;
 - (iii) minimisation of the amount of soil to be exposed or disturbed by staging works;
 - (iv) diversion of upstream runoff from exposed or disturbed areas;
 - (v) installation of sediment control measures such as settling basins; and
 - (vi) recycling of settling basin contents.
- (D4) A copy of the stormwater management plan and any subsequent amendment to the stormwater management plan must be kept at the approved place and be available for examination by an authorised person on request.

Bunding

- (D5) All chemical and fuel tank storage must be bunded so that the capacity of the bund is sufficient to contain at least one hundred percent (100%) of the largest storage tank plus ten percent (10%) of the second largest tank within the bund.
- (D6) All chemical and fuel drum storage must be bunded so that the capacity of the bund is sufficient to contain at least twenty-five percent (25%) of the maximum design storage volume within the bund.
- (D7) All bunding must be constructed of materials which are impervious to the materials stored.
- (D8) The base and walls of all banded areas must be maintained free from gaps or cracks.
- (D9) All banded areas must be roofed where practicable.



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- (D10) Where it is not practicable to completely roof a bunded area the registered operator of this development approval must ensure that any stormwater captured within the bund is free from contaminants or wastes prior to release to waters or any stormwater drain.
- (D11) All empty drums must be stored with their closures in place.

End of Conditions for Schedule D

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

- (E1) There must be no release nor likelihood of release of any contaminants to land that may cause environmental harm or contribute to contamination of such land.

End of Conditions for Schedule E

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SCHEDULE F - NOISE**Emission of Noise**

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

SCHEDULE F TABLE 1

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

End of Conditions for Schedule F

SCHEDULE G - WASTE MANAGEMENT

General

- (G1) The registered operator of this development approval must not:
- (i) allow waste to burn or be burned at or on the approved place; nor
 - (ii) remove waste from the approved place and burn such waste elsewhere.
- (G2) Procedures must be implemented to ensure that wastes are minimised, recycled, stored, handled and transferred in a proper and efficient manner and that any disposal of waste (excepting any release of waste provided for by a condition of this development approval) is to an appropriate facility that accepts such waste.

Off Site Movement

- (G3) Where regulated waste is removed from the approved place (other than by a release as permitted under another schedule of this development approval), the registered operator of this development approval must monitor and record the following:
- (i) the date, quantity and type of waste removed;
 - (ii) name of the waste transporter and or disposal operator that removed the waste;
 - (iii) the intended treatment and/or disposal destination of the waste.

(Note: Records of documents maintained in compliance with a waste tracking system established under the *Environmental Protection Act 1994* or any other law for regulated waste will be deemed to satisfy this condition.)

- (G4) Regulated waste must not be sent for disposal at any facility without the written approval of the person operating that facility.

End of Conditions for Schedule G

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

- (H1) All complaints received by the registered operator of this development approval relating to operations at the approved place must be entered into a log book with the following details:
- (i) time, date and nature of complaint;
 - (ii) type of communication (telephone, letter, personal etc.);
 - (iii) name, contact address and contact telephone number of complainant. (Note: if the complainant does not wish to be identified then "Not Identified" is to be recorded);
 - (iv) response and investigation undertaken as a result of the complaint;
 - (v) name and signature of person responsible for complaint investigation confirming the record; and
 - (vi) action taken as a result of complaint investigation.
- (H2) The complaints record required by condition number H1 must be maintained for a period of not less than five (5) years.

Monitoring of Contaminant Releases to Waters from Release Point W1

- (H3) The registered operator of this development approval is responsible for making of determinations and keeping of records of the quality of contaminants released from the release points, quality characteristics and at the frequency specified in Schedule H Table 1:

Schedule H - Table 1

PARAMETER	UNITS	RELEASE POINT	FREQUENCY
pH	pH units	W1	Not less than quarterly.
Suspended Solids	mg/L	W1	Not less than quarterly.
Dissolved Oxygen	mg/L	W1	Not less than quarterly.
Turbidity	NTU	W1	Not less than quarterly.
Total Aluminium	mg/L	W1	Not less than quarterly.

Sampling Point Details for Release Point W1

- (H4) Determinations of the quality of the contaminants released to waters to check conformity with the release quality characteristics specified in the Water Schedule of this development approval must be undertaken at the sampling point described as:

Release Point W1 - The outlet of the final sand washing plant effluent pond.

Receiving Waters Monitoring Programme During Dredging

- (H5) The registered operator of this development approval is responsible for the making of determinations and the keeping of records of the quality characteristics of the receiving waters to check compliance with condition number C6 resulting from the contaminants released during dredging operations at the sampling point and frequency specified in Schedule H Table 2:

Schedule H - Table 2

QUALITY CHARACTERISTIC DETERMINATION	FREQUENCY
Suspended Solids (mg/L)	In the event of release to waters from the dredge pond.
pH	In the event of release to waters from the dredge pond.
Turbidity (NTU)	In the event of release to waters from the dredge pond.

Sampling Point Details for Monitoring Programme During Dredging

- (H6) Determinations of the quality of the contaminants released to waters to check conformity with the release quality characteristics specified in the Water Schedule of this development approval must be undertaken at the sampling points described as:
- (i) a background sampling point as defined in condition C6; and
 - (ii) a down-current sampling point as defined in condition C6.

General

- (H7) All determinations of water quality must be made in accordance with methods prescribed in the *Department of Environment and Heritage Water Quality Sampling Manual, 2nd Edition, February 1995*, or more recent additions or supplements to that document as such become available.
- (H8) All determinations of water quality must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.

Monitoring of Volume of Release

- (H9) The daily quantity of contaminants released must be determined by utilising an appropriate flow-measuring device or such other suitable method such as recording the dredge pump operating hours and subsequently calculating the daily release volume given the capacity of the pump.
- (H10) Records must be kept of the results of all determinations of the daily quantity of contaminants released to waters.

Noise Monitoring

- (H11) For the purposes of investigating any complaint of noise annoyance and for checking compliance with condition F1 of the noise schedule, monitoring and recording of the noise levels from the activity/activities must be undertaken for the following descriptions, characteristics and conditions:
- (i) $L_{Amax, adj T}$;
 - (ii) $L_{Aeq, T}$ or $L_{A90, T}$;
 - (iii) $L_{AN, t}$ (where N equals statistical levels of 1, 10, 50, 90 and 99);
 - (iv) $L_{pA, T}$;
 - (v) $L_{Aeq, T}$;
 - (vi) the level and frequency of occurrence of impulsive or tonal noise;
 - (vii) atmospheric conditions including temperature, relative humidity and wind speed and direction; and
 - (viii) effects due to extraneous factors such as traffic noise.
- (H12) In conjunction with the measurement and recording of the noise, the following parameters and conditions must be recorded:



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- location, date and time of recording.

- (H13) Noise monitoring must be undertaken to investigate any complaint of noise annoyance upon receipt of a written request from the administering authority to carry out such monitoring.
- (H14) The method of measurement and reporting of noise levels must comply with the *Department of Environment and Heritage Noise Measurement Manual, second edition, March 1995*, or more recent additions or supplements to that document as become available.
- (H15) The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.

Records

- (H16) Records must be kept of the results of all monitoring of noise levels and other information required to be recorded in conjunction with such monitoring for a period of at least five (5) years.

Exception Reporting

- (H17) The registered operator of this development approval must notify the administering authority in writing of any monitoring result which indicates an exceedance of any development approval limit within twenty-eight (28) days of completion of analysis.

Report Submission

- (H18) The registered operator of this development approval must ensure that the results of all monitoring performed in accordance with this development approval for the period covered by the return are submitted with the Annual Return.

End of Conditions for Schedule H

SCHEDULE I - DEFINITIONS

For the purposes of this development approval the following definitions apply:

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

End of Conditions for Schedule I



END OF CONDITIONS

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