

Registration certificate

Environmental Protection Act 1994

Certificate of Registration

No: ENRE00960609

This registration certificate is issued by the administering authority and takes effect from 4 August 2009

The anniversary day for the purposes of the Annual Return or remains 4 August

This registration certificate is a requirement of section of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activities listed below at the places subject to the conditions set out in a development approval attached to the premises, or the relevant code of environmental compliance.

Registered Operator:-

The Body Corporate for 'Allisee' CTS36891

323 Bayview Street

HOLLYWELL QLD 4216

Place:-

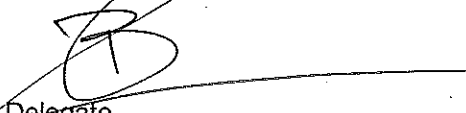
Lot 21 Plan RP809256

Located at:-

323 Bayview Street, HOLLYWELL QLD 4216

Registered Activity

ERA 16 Extractive and screening activities Threshold 1(a) - dredging, in a year, 1000t to 10000t of material



Delegate

Administering authority

Environmental Protection Act 1994

01-FEB-2010

DERM Permit¹ number:IPDE01425509

DERM Permit¹ number:	IPDE01425509
Assessment Manager reference:	as above
Date application received by	20-MAR-2009
DERM:	
Permit¹ Type:	Development Approval for a MCU involving an ERA
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
323 Bayview Street, HOLLYWELL QLD 4216	Lot 21 on RP809256 and within the Broadwater adjacent to Lot 21 on RP809256	ERA 16 Extractive and screening activities Threshold 1(a) - dredging, in a year, 1000t to 10,000t of material.

Area	Point	Easting	Northing
Dredge Area (as per approved plan in Appendix 3- Drawing No: Allisee-004)	H1	539449.7	6914191.5
	H2	539461.2	6915168.2
	H3	539420.1	6914144.5
	H4	539413.0	6914127.8
	H5	539405.0	6914519.7
	H6	539407.0	6914102.6
	H7	539736.2	6914088.5
	H8	539335.4	6914103.1
	H9	539172.9	6914128.9
	H10	539337.4	6914161.1
	H11	539365.5	6914172.6
	H12	539389.4	6914168.4
	H13	539406.7	6914166.7
	H14	539514.9	6914223.1
	H16	539522.5	6914200.9
	H16	539601.7	6914257.5
	H17	539593.7	6914267.9
Nourishment Area (as per approved plan in Appendix 3- Drawing No: Allisee-001 F)	Seaward of Mean High Water Spring on Lot 22 and Lot 23 on RP809256		

Additional comments or advice about the application

The ERA to which this development approval relates must be conducted in a manner by which marine plants are not disturbed.

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

This development approval authorises the dredging of the entrance channel and harbour of the Stockland Allisee Development, and the placement of dredge spoil seaward of Mean High Water Spring on Lot 22 and Lot 23 on RP809256 within the existing approved beach nourishment area.

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 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.



10/07/2009

Delegate

Department of Environment and Resource Management
Environmental Services
South East Region - Gold Coast

ERA 16 Extractive and screening activities, threshold 1(a) - dredging, in a year, 1000t to 10,000t of material.

Agency Interest: General

- (G1) **Prevent and/or minimise likelihood of environmental harm.**
In carrying out an Environmentally Relevant Activity (ERA) to which this approval relates, all reasonable and practicable measures must be taken to prevent and/or minimise the likelihood of environmental harm being caused.
- (G2) **Maintenance of Measures, Plant and Equipment.**
The registered operator of an ERA to which this approval relates must:
a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval;
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.
- (G3) **Alterations**
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 for by this approval.
- (G4) **Limit of dredging approval**
The dredging activity which constitutes the ERA 16 (1(a)) hereby approved is limited to the Allisee Stockland Development marina entrance channel and marina basin as shown in Appendix 3- Drawing No: *Allisee -001F dated 03/04/2009* and Drawing No: *Allisee - 004 dated 11/05/2009* to an approved depth of -4.0m AHD.
- (G5) The dredging activity which constitutes the ERA 16(1(a)) hereby approved is limited to the extraction of 2,800m³ of material per annum within the approved dredge area as outlined in condition G4.
- (G6) No activities associated with the conduct of the ERA approved by this development approval are permitted to be conducted outside the hours of 6:30am and 6:30pm Monday to Saturday.
- (G7) **Site Based Management Plan (SBMP)**
From the commencement of an ERA to which this approval relates, the Site Based Management Plan (SBMP) submitted to DERM via email dated 9th July 2009 titled – *Site Based Management Plan (Dredging) for Gold Coast City Council and Stockland Development Pty Ltd, prepared by International Coastal Management, Revision C dated 08/07/2009* – or more recent versions, must be implemented.
- (G8) The SBMP must not be implemented or amended in a way that contravenes any condition of this approval.
- (G9) Any amendments made to the SBMP listed in condition G7 must be provided to the Department of Environment and Resource Management (DERM) within 5 business days of the completion of the amendment.
- (G10) A copy of the SBMP and any amendment of the SBMP must be kept in a location readily accessible to personnel carrying out the activity.
- (G11) **Equipment Calibration**
All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained.
- (G12) **Monitoring**
All monitoring, assessments and reports required by this approval must be conducted by a person(s) with appropriate experience and/or qualification.

- (G13) **Records**
Record, compile and keep all monitoring results (for a minimum of 5 years) required by this approval and present this information to the administering authority when requested.
- (G14) **Spill Kit**
An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes and chemicals associated with the ERA must be kept at the site and in each vessel used in the conduct of this activity.
- (G15) **Spill Kit Training**
Anyone operating under this approval must be trained in the use of the spill kit.
- (G16) **Trained / Experienced Operator(s)**
The daily operation of the ERA(s) to which this approval relates must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of the approved activities.
- (G17) **Notification**
Telephone DERM's Pollution Hotline (1300 130 372) or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval or an event where environmental harm has been caused or may be threatened.
- (G18) Written advice detailing the following information must be provided to the administering authority within fourteen (14) business days following any notification in accordance with condition (G17):
- a) the name of the registered operator, including the development approval number;
 - b) the name and telephone number of a designated contact person;
 - c) the location of the release / event;
 - d) the time of the release / event;
 - e) the time you became aware of the release / event;
 - f) the suspected cause of the release / event;
 - g) a description of the resulting effects of the release / event;
 - h) the results of any sampling performed in relation to the release / event;
 - i) actions taken to mitigate any environmental harm and or environmental nuisance caused by the release / event; and
 - j) proposed actions to prevent a recurrence of the release / event.
- (G19) Written notification of the date when dredging will commence must be provided to the administering authority at least seven business days prior to starting the approved activity.

Agency Interest: Air

- (A1) **Nuisance**
The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from any ERA to which this approval relates must not cause an environmental nuisance at any nuisance sensitive place.
- (A2) **Dust Nuisance**
The release of dust and/or particulate matter resulting from any ERA to which this approval relates must not cause an environmental nuisance at any nuisance sensitive place.
- (A3) All material and agricultural lime stockpiles must be maintained to minimise wind-blown emissions to the atmosphere.

- (A4) Trafficable areas within the approved premises must be maintained using all reasonable and practicable measures necessary to minimise the release of wind blown dust or traffic generated dust to the atmosphere. Reasonable and practicable measures must include but are not limited to:
- (i) using water sprays and/or a water truck;
 - (ii) adopting and adhering to speed limits; and
 - (iii) using dust suppressants and wind breaks.
- (A5) If material is deposited on any public road by vehicles leaving the approved premises, the clean-up of such material is to occur immediately.
- (A6) Dust and particulate matter must not exceed the following levels when measured at any nuisance sensitive place:
- (a) Dust deposition of 90 micrograms per cubic metre per year, when monitored in accordance with Australian Standard AS 3580.10.1 of 2003 (or more recent editions); OR
 - (b) A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM10) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, at a nuisance sensitive or commercial place downwind of the site, when monitored in accordance with:
 - Australian Standard AS 3580.9.6 of 2003 (or more recent editions) 'Ambient air - Particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet -Gravimetric method'; or
 - any alternative method of monitoring PM10 which may be permitted by the 'Air Quality Sampling Manual' as published from time to time by the administering authority.
- (A7) When requested by the administering authority, odour, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by odour, 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 nuisance sensitive place and at upwind control sites and must include:
- (a) for a complaint alleging odour, 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) (PM10) suspended in the atmosphere over a 24 hours averaging time.
- (A8) If the administering authority requests monitoring to determine contaminant releases to the atmosphere, all monitoring must be performed by an independent person or body possessing appropriate experience and qualifications to perform the required measurements.
- (A9) If monitoring indicates that environmental nuisance is caused or threatened by the release of odour, dust and/or particulate emissions from the approved activities, then the registered operator must:
- (a) advise the administering authority of planned abatement measures; and
 - (b) as soon as practicable implement the advised abatement measures such that the release of odour, dust and/or particulate emissions from the activity will not result in further environmental nuisance.

Agency Interest: Water

- (W1) **Release of Contaminants to Waters**
Contaminants must not be directly or indirectly released from the approved place to any waters or the bed and banks of any waters unless otherwise authorised by a condition of this approval.
- (W2) **Monitoring**
Monitoring must be undertaken at the points and at the frequency shown in Appendix 2- Table 2- Water Quality Limits. Records must be kept of all water monitoring results for the parameters in Table 2. All determinations of the quality characteristics must be:

- made in accordance with methods prescribed in the latest edition of the Environmental Protection Agency Water Quality Sampling Manual; and
 - carried out on samples that are representative of the area being monitored.
- (W3) All water quality parameters must not exceed the release limits specified in Appendix 2- Table 2- Water Quality Limits.
- (W4) Where the water quality impacted on by the activity is found to be in non-compliance with the release limits specified in Appendix 2- Table 2, the activity must cease immediately.
- (W5) **Disposal of dredge spoil**
The only areas permitted to receive dredge spoil under this approval are those described for beach nourishment as shown in Appendix 3- *Drawing No. Allisee – 001F, dated 03/04/09* and described as seaward of Mean High Water Spring on Lot 22 on RP809256 and Lot 23 on RP809256.
- (W6) Dredge spoil disposed of to the approved nourishment area as defined by condition W5 must be clean material.
- (W7) **Acid Sulfate Soil Management**
The latest edition of the Queensland Environmental Protection Agency's INSTRUCTIONS FOR THE TREATMENT AND MANAGMENT OF ACID SULFATE SOILS, 2001, (the instructions) must be complied with when treating and managing acid sulfate soils (ASS).
- (W8) Contaminated soils including spoil and ASS must be managed such that contaminants are not directly or indirectly released to any waters or to the bed or banks of any waters.
- (W9) All ASS must be disposed of or managed within the approved place.
- (W10) Potential ASS including potential ASS fine sediments extracted from within the Allisee Harbour as defined in condition G4 must be either:
- a) re-interred in the extraction pond within the Allisee Harbour in a manner to ensure that future exposure to oxidising conditions is prevented; or
 - b) treated with a hydrated lime slurry through the dredge pipeline at an application rate of 16kg/m³ of material dredged, with the treated material being tested every 250m³ of material upon disposal to the foreshore of Lot 22 and Lot 23 on RP809256.
- (W11) **ASS – Verification Testing**
Verification testing for the presence of existing and potential acidity of extracted sand product from the within the Allisee Harbour must be done in accordance with the report titled, "Soil Surveys, Project No. 209-8993, June 2009, Stockland Development Pty Limited, Acid Sulfate Soil Investigation, Revision 2, Allisee Marina, Bayview Street, Runaway Bay contained in the response to information request dated 15/06/09. For this development approval, this condition replaces Module E Condition 5.6 of the instructions: Samples must be taken to test compliance with condition 5.5 of the Instructions and must be analysed to determine the soil pH and % oxidisable sulphur content of soil samples taken at a frequency of not less than:
- 1 sample per 500m³ (comprising 6 composite samples) for material extracted under this developed approval from within the Allisee Harbour as depicted in Appendix 3- *Drawing No. Allisee – 004, dated 11/05/09.*

Agency Interest: Land

- (L1) **Preventing contaminant release to land**
Contaminants must not be released to land.
- (L2) Access to the beach with earth moving equipment to level the dredge spoil must be within areas which contain no dunal vegetation.

(L3) Earth moving equipment used in the conduct of the ERA to which this approval relates must not be refuelled over the water, in the tidal zone or on the beach.

(L4) Spillage of all chemicals and fuels must be contained within an on-site containment system impermeable to the materials stored and controlled in a manner that prevents environmental harm.

NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 – Storage and Handling of Flammable and Combustible Liquids.

(L5) Effective procedures must be implemented to ensure that wastes generated on the site are minimised, recycled, sorted, handled and transferred in a proper and efficient manner. Disposal of such waste must be at a facility lawfully able to accept such waste.

(L6) Any regulated waste removed from the site must be removed by a person who holds a current approval to transport such waste under the provisions of the *Environmental Protection Act 1994*.

(L7) Waste records

Where regulated waste is removed from the site (other than by a release as permitted under another condition of this development approval), the registered operator of the ERA(s) must monitor and keep records of the following:

- (a) the date, quantity and type of waste removed; and
- (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: Trackable wastes as listed in Schedule 1 of the Environmental Protection (Waste Management) Regulation 2000 are not covered by this condition. Trackable wastes have similar recording requirements to this condition in accordance with a waste tracking system established under the above Regulation.

(L8) Notification of Improper Disposal of Regulated Waste

If a person removes regulated waste associated with activities at the approved place and disposes of such waste in a manner which is not authorised or is improper or unlawful then, the registered operator must, as soon as practicable, notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal.

Agency Interest: Noise

(N1) Noise Nuisance

Noise from any ERA to which this approval relates must not cause an environmental nuisance at any noise sensitive place or commercial place.

(N2) Notwithstanding condition N1, noise from the ERA must not exceed the levels specified in Appendix 1- *Table 1 – Noise limits*.

(N3) Noise Monitoring

When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance (which in the opinion of an authorised person is not frivolous, vexatious nor based on mistaken belief), and the results notified within 14 days to the administering authority.

For the purpose of this condition, noise monitoring must be conducted by a person(s) with appropriate experience and/or qualifications in accordance with the latest edition of the Environmental Protection Agency's Noise Measurement Manual, and include:

- $L_{Aeq, adj, 1hr}$
- $L_{A_{bg}, T}$ or $L_{A90, T}$
- $L_{A10, adj, 1 hour}$
- $L_{A1, adj, 1 hour}$

- 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; and
- location, date and time of recording.

- (N4) If monitoring indicates or if it is determined by an authorised officer of the Department of Environment and Resource Management that environmental nuisance is caused or threatened by the release of noise from the approved activities, then the registered operator must:
- a. advise the administering authority of planned abatement measures; and
 - b. as soon as practicable implement the advised abatement measures such that the release of noise emissions from the activity will not result in further environmental nuisance.

Agency Interest: Social

(S1) **Complaint Response**

The registered operator of the ERA(s) must record the following details for all complaints received and provide this information to the administering authority on request. A record of following information must be kept for a period of three (3) years:

- (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.

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.

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

"approval" means 'notice of development application decision' or 'notice of concurrence agency response' under the *Integrated Planning Act 1997*.

"approved place" means the place approved under this development approval for the carrying out of the specified environmentally relevant activities.

"clean material" means material from locations distant from appreciable pollution sources (i.e. in pristine locations) as well as material composed largely (>95 per cent) of gravel, sand or rock, but only where this material is found in areas of high current or wave energy, where the seabed consists of shifting gravel and sandbars.

"contaminant" means a gas, liquid or solid, an odour, an organism (whether alive or dead), including a virus, energy, including noise, heat, radioactivity and electromagnetic radiation, or a combination of contaminants as defined by section 11 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 house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina.

"environmental nuisance" means an unreasonable interference or likely interference with an environmental value caused by-

- Aerosols, fumes, light, noise, odour, particles or smoke; or
- An unhealthy, offensive or unsightly condition because of contamination; or
- Another way prescribed by regulation.

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

" $L_{A1, \text{adj}, 1 \text{ hour}}$ " means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) that is exceeded for 1% of any 1 hour measurement period, using time-weighting 'Fast'.

" $L_{A10, \text{adj}, 1 \text{ hour}}$ " means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) that is exceeded for 10% of any 1 hour measurement period, using time-weighting 'Fast'.

" L_{A90T} or L_{A90T} " means the A-weighted sound pressure level, obtained using time-weighting 'Fast' that is exceeded for 90% of the measuring period (T) (not less than 15 minutes).

" $L_{Aeq, \text{adj}, 1 \text{ hr}}$ " means an A-weighted sound pressure level of a continuous steady sound, adjusted for tonal character that within a 1 hour period has the same mean square sound pressure of a sound that varies with time.

"land" in the "land schedule" of this document means land excluding waters and the atmosphere.

"mg/L" means milligrams per litre.

"maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

"minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

"noise sensitive place" means any of the following places –

- a dwelling;

- a library, childcare centre, kindergarten, school, university or other educational institution;
- a hospital, surgery or other medical institution;
- a protected area, or an area identified under a conservation plan as a critical habitat or an area of major interest, under the *Nature Conservation Act 1992*;
- a marine park under the *Marine Parks Act 1992*;
- a park or garden that is open to the public (whether or not on payment of money) for use other than for sport or organised entertainment.

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

"NTU" means nephelometric turbidity units.

"nuisance sensitive place" includes –

- 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
- 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.

"protected area" means –

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

"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.

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

"tidal water" means the sea and any part of a harbour or watercourse ordinarily within the ebb and flow of the tide at spring tides.

"vessel" means a boat, barge or water craft used in the conduct of the dredging operations approved by this development approval.

"watercourse" means a river, creek or stream 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.

"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 registered operator of the ERA(s) to which this approval relates or owner / occupier of the land which is the subject of this development approval.

END OF CONDITIONS

APPENDIX 1-**Table 1 - Noise limits**

Noise level dB(A) measured as	Monday to Saturday		Sundays and public holidays
	6:30am- 6:30pm	6:30pm – 6:30am	At any time
	Noise measured at a 'Noise sensitive place'		
L _{Aeq} adj, 1hour	Bkg + 5	Bkg + 0	No audible noise
L _{A1} , adj, 1 hour	Bkg + 10	Bkg + 5	
	Noise measured at a 'Commercial place'		
L _{Aeq} , adj, 1 hour	Bkg + 10	Bkg + 5	No audible noise
L _{A1} , adj, 1 hour	Bkg + 15	Bkg + 10	

APPENDIX 2**Table 2- Water quality limits**

Release/ Monitoring point	Quality characteristics	Release Limit		Monitoring frequency
		Minimum	Maximum	
Background* – measured at an up current sampling and in situ monitoring point in the receiving waters not affected by releases from the works area	pH			Daily during dredging and spoil disposal
	Dissolved Oxygen (mg/L)	-	-	
	Suspended Solids (mg/L)	-	-	
	Turbidity (NTU)	-	-	
Down current Waters within 50m of the works area	pH	6.5	8.5	Daily during dredging
	Dissolved Oxygen (mg/L)	6 or equal to the background level, whichever is the least	-	
	Oil, grease, floating scum or litter	-	None visible	
	Suspended Solids (mg/L)	-	10% above background*	Weekly during dredging (unless visual indication of plume then daily)
	Turbidity (NTU)	-	10% above background*	
Within the waters directly adjacent to the spoil disposal area on Lot 22 and Lot 23 on RP 809256	pH	6.5	8.5	Daily during the disposal of spoil to Lot 22 and Lot 23 on RP 809256 following treatment with hydrated lime

* Background- is the monitoring results obtained from sampling measured at an up current sampling location and in situ monitoring point in the receiving waters not affected by releases from the works area conducted on a daily basis during the dredging works.

Department of Environment and Resource Management.

