Permit

Environmental Protection Act 1994

Environmental authority P-EA-100482159

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

Environmental authority number: P-EA-100482159

Environmental authority takes effect on 27 March 2024**.**

The anniversary date of this environmental authority is 27 March 2024 each year.

Environmental authority holder(s)

Name(s)	Registered address
Johnstone Concrete and Quarries	35 Drive In Road MOREE NSW 2400

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 16 - Extraction and Screening - 1(a) - Dredging, in a year, the following quantity of material - 1000t to 10,000t	Adjacent To Lot Plan 97/MH38
ERA 16 - Extraction and Screening - 3(b) - Screening, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	1/SP333373 3/SP303943 64/B34409 65/B34409 89/B34409 91/B34409 ASP139687
ERA 16 - Extraction and Screening - 2(b) - Extracting, other than by dredging, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	1/SP333373 3/SP303943 64/B34409 65/B34409 89/B34409 91/B34409 ASP139687

Queensland Government

Additional information for applicants

Environmentally relevant activities

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

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

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

Mobile and temporary activities

If you operate a mobile and temporary environmentally relevant activity (ERA), other than regulated waste transport, you are required to maintain a work diary. You must:

- use the approved form for a work diary (ESR/2015/1696);
- keep the work diary records for 2 years after the last entry;
- inform the administering authority within 7 days of the work diary being lost or stolen;
- record the information required in the work diary for each location within 1 day of leaving the location.

Contaminated land

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

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term ‘duty to notify’.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority - on the nominated day; or

b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or

c) otherwise - on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State*

Development and Public Works Organisation Act 1971), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

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

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Signature

27 March 2024

Date

Helena Braye
Department of Environment, Science and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Energy and Extractive Resources
Department of Environment, Science and Innovation
GPO Box 2454, Brisbane QLD 4001
Phone (07) 3330 5715
Email: energyandextractive@des.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

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

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

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access State controlled roads), the Department of Resources (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

Obligations under the *Mining and Quarrying Safety and Health Act 1999*

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at www.resources.qld.gov.au, or phone 13 QGOV (13 74 68) or your local Mines Inspectorate Office.

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Part 1 – Conditions relevant to the following activities and locations

Environmentally relevant activity/activities	Location(s)
ERA 16 - Extraction and Screening - 2(b) - Extracting, other than by dredging, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	1/SP333373 3/SP303943 A/SP139687 (Easement) 64/B34409 65/B34409 89/B34409 91/B34409
ERA 16 - Extraction and Screening - 3(b) - Screening, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	1/SP333373 3/SP303943 A/SP139687 (Easement) 64/B34409 65/B34409 89/B34409 91/B34409

The environmentally relevant activity(ies) conducted at the locations described above for this part must be conducted in accordance with the following conditions.

Agency interest: General	
Condition number	**Condition**
G1	Activities under this environmental authority must be conducted in accordance with the following limitations: 1. Activities must only occur within the Extraction Footprint in *Appendix 1 – Site Layout Plan* and associated GPS Co-ordinates specified in *Appendix 2 - GPS Co-ordinates*; 2. The amount of material extracted must not exceed 500,000 tonnes per annum; 3. The amount of material screened must not exceed 500,000 tonnes per annum; 4. The depth of extraction must not exceed 330m AHD; and 5. Extraction must not intercept groundwater.
G2	All reasonable and practicable measures must be taken to prevent or minimise environmental harm caused by the activities.
G3	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
G4	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
G5	Environmental monitoring results must be kept until surrender of this environmental authority. All other information and records that are required by the conditions of this environmental authority

	must be kept for a minimum of five (5) years. All information and records required by the conditions of this environmental authority must be provided to the administering authority, or nominated delegate upon request, within the required timeframe and in the specified format.
G6	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G7	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (NATA) certification, or an equivalent certification, for such analyses. The only exception to this condition is the in-situ monitoring of turbidity, pH, electrical conductivity and dissolved oxygen.
G8	When required by the administering authority, monitoring must be undertaken in the manner prescribed by the administering authority, to investigate a complaint of environmental nuisance arising from the activity. The monitoring results must be provided within 10 business days to the administering authority upon its request.
G9	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency; 2. establish and maintain control measures that minimise the potential for environmental harm; 3. ensure plant, equipment and measures are maintained in a proper and effective condition; 4. ensure plant, equipment and measures are operated in a proper and effective manner; 5. ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994*; and 6. ensure that reviews of environmental performance are undertaken at least annually.
G10	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system.
G11	Within 5 business days of the activity commencing, written notification must be provided to the administering authority that the activity has commenced.
Agency interest: Waste	
Condition number	**Condition**
W1	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
Agency interest: Air	
Condition number	**Condition**
A1	Dust and particulate matter emissions from the activity must not exceed the following concentrations at any sensitive place or commercial place: 1. dust deposition of 120 milligrams per square metre per day, averaged over 30 days, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions); or

	2. 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, when monitored in accordance with the current edition of the relevant Australian Standards.
A2	All monitoring of ambient air quality (including dust) emissions from the activity must be undertaken in accordance with the most recent version of: 1. the relevant Australian Standards; or 2. if monitoring requirements are not described in the Australian Standards, monitoring protocols must be in accordance with a method approved by any other Australian, European or North American jurisdiction/EPAs.
Agency interest: Land	
Condition number	**Condition**
L1	Erosion and sediment control measures must be implemented and maintained at all times that: 1. minimise erosion and the release of sediment within areas disturbed by the activity; and 2. prevent releases from the activity causing erosion outside of areas disturbed by the activity; and 3. prevent the release of sediment from areas disturbed by the activity to land or waters.
L2	Disturbance to areas as a result of carrying out activities conducted under this environmental authority must be rehabilitated in a manner that: 1. The potential for erosion and sedimentation is minimised; and 2. The potential for environmental nuisance caused by dust is minimised; and 3. Land and water do not contain contaminants capable of causing environmental harm; and 4. The landform is in a stable condition; and 5. The land is re-profiled to a level consistent with surrounding soils or to original contours and established drainage lines; and 6. The land is vegetated with groundcover that is established, actively growing, self-sustaining and is not a declared pest species. 7. Suitable species of vegetation for the location are established and sustained for earthen surfaces.
L3	A rehabilitation plan must: 1. be developed: I. by an appropriately qualified person; II. to ensure compliance with conditions L2 and L4; 2. include final land use plans, as well as plans for any planned stages; 3. plan for topsoil that is extracted as part of the activity to be preserved and reused during rehabilitation; 4. include all areas disturbed by the activity; and 5. be implemented at all times.

L4

Rehabilitation of disturbed areas required under condition L2, must commence within 12 months of the area becoming no longer required for the activities conducted under this environmental authority.

L5

Contaminants generated by the activity must not be released to land unless the contaminants being released:

1. are only released from the release points specified in *Table - Release points and release limits*, and as depicted in *Appendix 1 – Site Layout Plan*;
2. comply with the release limits for each quality characteristic specified in *Table - Release points and release limits*;
3. are monitored at the minimum monitoring frequency for each quality characteristic specified in *Table - Release points and release limits*; and
4. are monitored at the following monitoring locations:
   - The release points and release point descriptions identified in *Table - Release points and release limits.*

Table - Release points and release limits

Release and monitoring Point(s) Description (GDA2020)			**Quality characteristic** (units)	**Limit**	**Limit Type**	**Minimum Monitoring Frequency**
ID	**Latitude**	**Longitude**				
MP-1	S28° 23' 47.66"	E151° 11' 44.16"	pH (pH Units)	6.5 to 8.0	range	Prior to any discharge and weekly during any discharge
			Turbidity (NTU)	50	Maximum	
MP-2	S28° 23' 37.51"	E151° 11' 45.70"	Suspended solids (mg/L)	50	Maximum	
			Conductivity (µS/cm)	356	maximum	

Associated **monitoring requirements**

1. Monitoring location and release points must be situated and maintained in accordance with plan *Appendix 1 – Site Layout Plan* and associated GPS Co-ordinates in *Appendix 2 - GPS Co-ordinates*.
2. Water and sediment samples must be representative of the general condition of the water body or sediments.
3. All determinations must employ analytical practical quantification limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic.
4. Monitoring must be undertaken during a release and at the frequency stated.
5. All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.

Agency interest: Acoustic

<table>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>N1</td><td>Noise from the activity must not include substantial low frequency noise components and must not exceed the levels identified in Table – Noise limits at any sensitive place or commercial place.
Table - Noise limits
<table>
<tr><td></td><td colspan="2">Monday to Saturday</td><td colspan="2">Sunday and Public Holidays</td></tr>
<tr><td></td><td>6am–6pm</td><td>6pm-6am</td><td>8am–6pm</td><td>6pm–8am</td></tr>
<tr><td></td><td colspan="4">Noise measured at the sensitive place</td></tr>
<tr><td>$L_{Aeq, adj, T}$</td><td>45</td><td>30</td><td>Not audible</td><td>Not audible</td></tr>
<tr><td>$Max_{LpA\ T}$</td><td>-</td><td>49</td><td>-</td><td>Not audible</td></tr>
<tr><td></td><td colspan="4">Noise measured at the commercial place</td></tr>
<tr><td>$L_{Aeq, adj, T}$</td><td>55</td><td>55</td><td>Not audible</td><td>Not audible</td></tr>
</table>
* Any residential dwelling located within the lot on plans to which this authority applies are not considered to be a sensitive place, so long as a contractual arrangement exists between you and the owner of the dwelling</td></tr>
<tr><td>N2</td><td>All monitoring of noise emissions from the activity must be undertaken when the activity is in operation.</td></tr>
<tr><td>N3</td><td>The following must be recorded when undertaking monitoring of noise emissions from the activity:
1. All equipment in operation at the time of the noise measurement; and
2. The mode of operation at the time of the noise measurement.</td></tr>
<tr><td>N4</td><td>Noise measurements must be taken using a class 1 sound level meter as classified under AS IEC 61672.</td></tr>
<tr><td>N5</td><td>All monitoring of noise emissions from the activity must be undertaken in accordance with the most recent version of Queensland Government's 'Noise Measurement Manual' (ESR/2016/2195), the relevant Australian Standard and the Environmental Protection Regulation 2019 (Chapter 5, Part 4).</td></tr>
<tr><td>N6</td><td>Blasting must not exceed the limits for peak particle velocity and air blast overpressure in Table – Blasting noise limits when measured at any sensitive place or commercial place.
Table - Blasting noise limits
<table>
<tr><th>Blasting criteria</th><th>Blasting limits</th></tr>
<tr><td>Airblast overpressure</td><td>115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.</td></tr>
<tr><td>Ground vibration peak particle velocity</td><td>5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.</td></tr>
</table></td></tr>
</table>

N7	Blasting must be carried out in accordance with the current edition of Queensland Government's 'Noise and Vibration from Blasting Guideline' (ESR/2016/2169) and with *Australian Standard 2187*.
N8	Blasting is: 1. only permitted during the hours of 9am to 3pm Monday to Friday, and from 9am to 1pm on Saturdays. 2. not permitted at any time on Sundays or public holidays.
N9	When required by the administering authority, a blast monitoring program must be developed and implemented to monitor compliance with *Table – Blasting noise limits* at any sensitive place or commercial place.
N10	All monitoring of airblast overpressure and ground vibration peak particle velocity must be undertaken in accordance with the Queensland Government's 'Noise and Vibration from Blasting Guideline' (ESR/2016/2169).
Agency interest: Water	
Condition number	**Condition**
WA1	Other than as permitted within this environmental authority, contaminants must not be released to any waters.
WA2	Stormwater must be managed to: 1. prevent stormwater from being contaminated by the activity; or 2. direct stormwater that is contaminated by the activity to stormwater treatment and retention measures.
WA3	Stormwater runoff from disturbed areas of the site, generating by (up to an including) a 24 hour storm event with an Annual Exceedance Probability (AEP) of 20% must be retained on site or managed to remove contaminants prior to release.
WA4	The capacity of stormwater treatment and retention measures in condition WA3 must be reinstated as soon as practicable and otherwise within 5 days of a rainfall event.
WA5	Freeboard markers must be installed in all stormwater treatment and retention measures to indicate the freeboard level required to maintain compliance with WA3.
WA6	All ponds, dams or similar stormwater treatment and retention measures must be fitted with a bypass mechanism that diverts stormwater from entering into the measure once the capacity of the measure has been reached.
WA7	Groundwater depth must be monitored at the location and at the minimum frequency identified in *Table - Groundwater monitoring*.

Table - Groundwater monitoring

ID	Latitude	Longitude	Quality characteristic (units)	Minimum Monitoring Frequency
Bore RN77594	S28° 23'36"	E15°1 11' 31"	Groundwater depth (mAHD)	Annually

	Note: The purpose of this condition is to demonstrate compliance with condition G1(5) & (6).
WA8	The following information must be recorded in relation to all water monitoring required under the conditions of this environmental authority: 1. the date on which the sample was taken; and 2. the time at which the sample was taken; and 3. the monitoring point at which the sample was taken; and 4. the measured or estimated daily quantity of water released from each release points; and 5. the release flow rate at the time of sampling for each release point; and 6. the results of all monitoring and details of any exceedances of the conditions of this environmental authority.
WA9	Water (including groundwater) monitoring and sampling must be carried out in accordance with the requirements of the most current published edition or version of the Queensland Government's 'Monitoring and Sampling Manual 2018 – Environmental Protection (Water) Policy 2009' unless otherwise approved by the administering authority.

Definitions applicable to Part 1

Where a word or phrase in this document is defined in this Schedule, it has its corresponding meaning. Where a word or phrase in this document is not defined in this Schedule, it has the meaning given to it in (in order of priority):

- the *Environmental Protection Act 1994* (EP Act), its regulations or its environmental protection policies;
- the *Acts Interpretation Act 1954*;
- the Macquarie Dictionary (taking account of the context in which the word or phrase is used in this document).

For example, environmental value, environmental harm, environmental nuisance, material environmental harm, serious environmental harm and relevant act are defined in the EP Act and groundwater is defined in the Environmental Protection Regulation 2019.

Defined words or phrases in the singular include the plural and vice versa.

24-hour rainfall event with an Annual Exceedance Probability of 10% means the maximum design rainfall depth from a 24-hour duration precipitation event with an annual exceedance probability of 10%.

The Design Rainfall Depth (mm) for an AEP probability of 10% over a 24-hour duration can be calculated for your location using the Intensity–Frequency–Duration (IFD) Design Rainfall Data System on the Bureau of Meteorology website.

Airblast overpressure as defined in the *Guideline: Noise and vibration from blasting* (ESR/2016/2169) available on the DES website.

Annual exceedance probability (AEP) means the probability that a given rainfall total accumulated over a given duration will be exceeded in any one year.

Blasting is the use of explosives to fracture:

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

Certified professional in erosion and sediment control (CPESC) is a person who is currently a Certified Professional in Erosion and Sediment Control with the International Erosion Control Association (IECA) Australasia.

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

Disturbed areas means areas disturbed by the carrying out of the activity including areas:

- that are susceptible to erosion;
- that are contaminated by the activity; and/or
- upon which stockpiles of soil or other materials are located.

GDA means Geocentric Datum of Australia.

$L_{Aeq\ adj,\ 1\ hr}$ 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.

$L_{Amax,\ 1\ hr}$ means the maximum A-weighted sound pressure level over the 1-hour measurement period.

$L_{A1,\ 1\ hr}$ means the A-weighted sound pressure level that is exceeded for 1% of a 1-hour period when measured using time-weighting ‘F’.

$L_{A10,\ 1\ hr}$ means the A-weighted sound pressure level that is exceeded for 10% of a 1-hour period when measured using time-weighting 'F'.

Land has the meaning in the meaning in the Macquarie Dictionary and does not include air or waters.

Prescribed environmental matters has the meaning in section 10 of the *Environmental Offsets Act 2014*, limited to the matters of State environmental significant listed in schedule 2 of the *Environmental Offsets Regulation 2014*.

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

a) a dwelling, residential allotment, 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 under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or

f) a public park or garden; or

g) for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2019.

Significant residual impact as defined in section 8 of the *Environmental Offsets Act 2014.*

Stormwater treatment and retention measures includes stormwater dams/ponds and sediment dams/ponds.

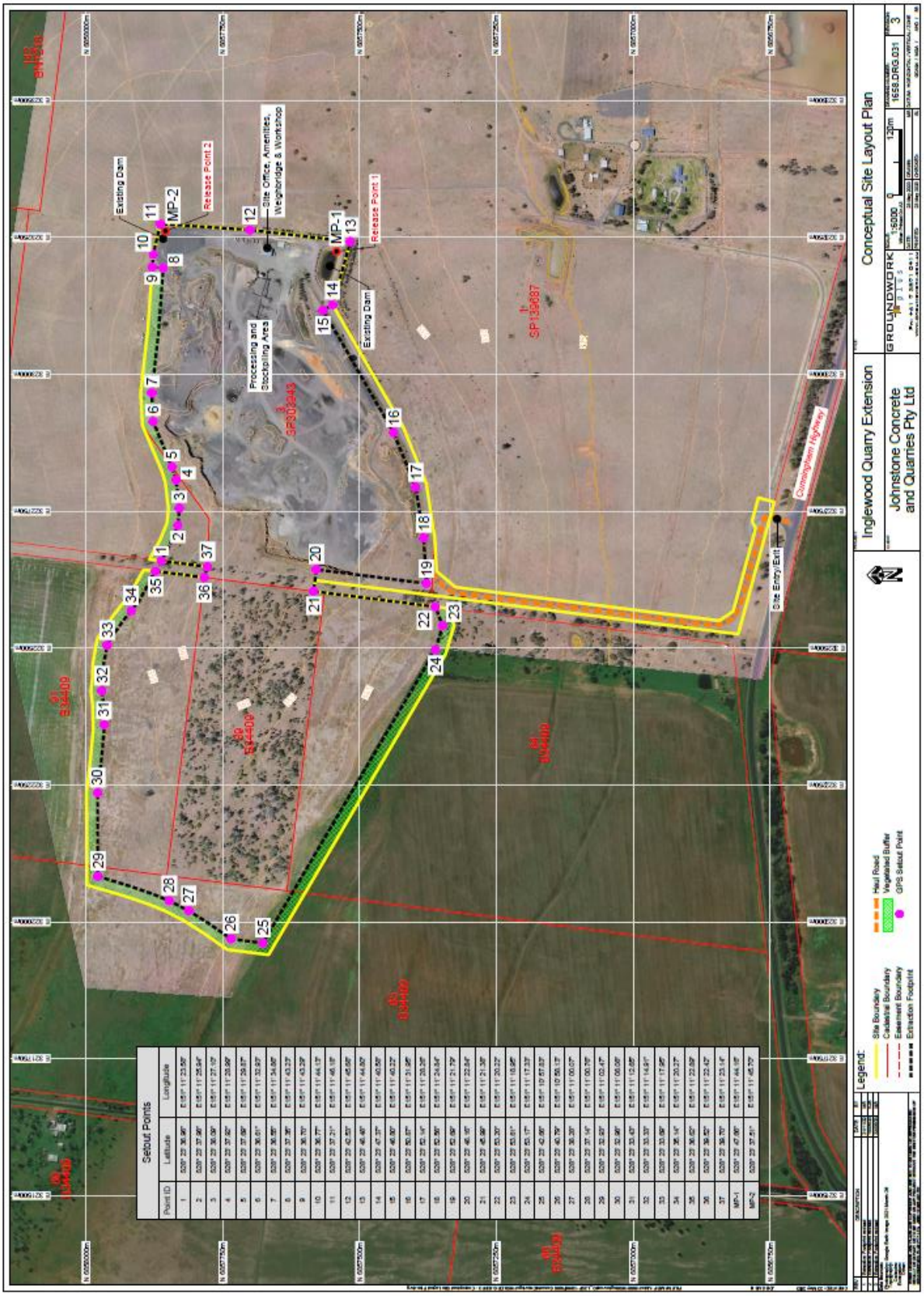
Substantial low frequency noise means a noise emission that has an unbalanced frequency spectrum shown in a one-third octave band measurements, with a predominant component within the frequency range 10 to 200 Hz. It includes any noise emission likely to cause an overall sound pressure level at a noise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

Vibration is the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium position.

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.

You means the holder of the environmental authority

Appendix 1 – Site Layout Plan



Appendix 2 - GPS Co-ordinates

GPS Co-ordinates		
Point ID	**Latitude**	**Longitude**
1	S28° 23' 36.96"	E151° 11' 23.58"
2	S28° 23' 37.98"	E151° 11' 25.94"
3	S28° 23' 38.09"	E151° 11' 27.10"
4	S28° 23' 37.92"	E151° 11' 28.99"
5	S28° 23' 37.69"	E151° 11' 29.87"
6	S28° 23' 36.61"	E151° 11' 32.93"
7	S28° 23' 36.55"	E151° 11' 34.86"
8	S28° 23' 37.35"	E151° 11' 43.23"
9	S28° 23' 36.70"	E151° 11' 43.29"
10	S28° 23' 36.77"	E151° 11' 44.13"
11	S28° 23' 37.21"	E151° 11' 46.18"
12	S28° 23' 42.53"	E151° 11' 45.68"
13	S28° 23' 48.48"	E151° 11' 44.80"
14	S28° 23' 47.37"	E151° 11' 40.58"
15	S28° 23' 46.80"	E151° 11' 40.22"
16	S28° 23' 50.87"	E151° 11' 31.95"
17	S28° 23' 52.14"	E151° 11' 28.26"
18	S28° 23' 52.56"	E151° 11' 24.84"
19	S28° 23' 52.69"	E151° 11' 21.79"
20	S28° 23' 46.16"	E151° 11' 22.84"
21	S28° 23' 45.99"	E151° 11' 21.38"
22	S28° 23' 53.20"	E151° 11' 20.22"
23	S28° 23' 53.61"	E151° 11' 18.95"
24	S28° 23' 53.17"	E151° 11' 17.33"
25	S28° 23' 42.66"	E151° 10' 57.83"
26	S28° 23' 40.79"	E151° 10' 58.13"
27	S28° 23' 38.28"	E151° 11' 00.07"
28	S28° 23' 37.14"	E151° 11' 00.76"
29	S28° 23' 32.93"	E151° 11' 02.47"
30	S28° 23' 32.98"	E151° 11' 08.08"
31	S28° 23' 33.43"	E151° 11' 12.65"
32	S28° 23' 33.33"	E151° 11' 14.91"
33	S28° 23' 33.69"	E151° 11' 17.95"
34	S28° 23' 35.14"	E151° 11' 20.27"
35	S28° 23' 36.62"	E151° 11' 22.89"
36	S28° 23' 39.52"	E151° 11' 22.42"
37	S28° 23' 39.70"	E151° 11' 23.14"
MP-1	S28° 23' 47.66"	E151° 11' 44.16"
MP-2	S28° 23' 37.51"	E151° 11' 45.70"

Part 2 – Conditions relevant to the following activities and locations

Environmentally relevant activity/activities	Location(s)
ERA 16 – Extraction and Screening – 1(a) – Dredging, in a year, the following quantity of material, 1,000t to 10,000t	Adjacent to Lot 97/MH38

The environmentally relevant activity(ies) conducted at the locations described above for this part must be conducted in accordance with the following conditions.

Agency interest: General	
Condition number	**Condition**
A1	Notwithstanding any other requirements of this document, all reasonable and practicable measures must be taken to prevent and / or to minimise the likelihood of environmental harm being caused when carrying out the environmentally relevant activity.
A2	Notify the administering authority as soon as practicable when the release of contaminants is not in accordance with the conditions of this document or any event where environmental harm may be threatened.
A3	Written advice of the following information must be provided within fourteen (14) days following any event as identified in condition number A2: a) The location of the event; b) The time of the event; c) The time the holder of this document became aware of the event; d) The suspected cause of the event; e) A description of the resulting effects of the event; f) Actions taken to mitigate any environmental harm and or environmental nuisance caused by the event; and g) Proposed actions to prevent a recurrence of the event.
A4	Record, compile and keep all monitoring results required by this document and present this information to the administering authority when requested, in a specified format.
A5	a) Upon commencement of the activity, the holder of this environmental authority must develop and finalise implementation of an Integrated Environmental Management System (IEMS) which provides for the following functions: i. The monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and ii. Staff training and awareness of environmental issues; and iii. The conduct of environmental and energy audits; and iv. Waste prevention, treatment and disposal, and v. A program for continuous improvement; and vi. Reporting arrangements on the effectiveness of the environmental management of the activities; and

	b) Upon commencement of the activity, submit a copy of the IEMS to the administering authority.
A6	A copy of the IEMS must be kept at the licensed place.
Agency interest: Air	
Condition number	**Condition**
B1	Prevent the release of odour, dust and/or particulate matter, spray-drift, smoke, aerosols, or fumes which cause or are likely to cause a nuisance. Nuisance includes the release of contaminants that are likely to be offensive to a person or a nuisance in the opinion of an authorised person.
B2	Dust is not considered to be a nuisance under condition B1 if monitoring shows that dust and / or particulate matter did or does NOT exceed the following limits at the boundary of any affected dust sensitive place: a) Dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10 of 1991; and b) A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (pm) (PM10) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time, at the boundary of any affected dust sensitive place downwind of the premises to which this development approval relates, when monitored in accordance with: i. Australian Standard AS 3580.9.6 "Ambient air - Particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet - Gravimetric method"; or ii. 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.
Agency interest: Water	
Condition number	**Condition**
C1	Prevent erosion that may result in the release of sediment to waters.
C2	Prevent the release of stormwater run-off that has been in contact with any contaminants at the site to any waters.
C3	Spillage of all chemicals and fuels must be captured within an on-site containment system.
C4	Water velocities through temporary watercourse diversions around works area must be maintained similar to pre-work velocities during such diversions, and must be re-instated once dredging works are completed.
C5	The holder of this environmental authority must: a) Develop and implement a stormwater management plan which provides for the following functions: i. Avoidance or minimisation of contaminated stormwater; and ii. Reuse, treatment and disposal of contaminated stormwater; and

<table>
<tr><td></td><td>b) The stormwater management plan must provide detail on the works to be implemented and the timetable proposed to address the following issues:
i. Site plans showing grades, location of control measures, discharge points including settling basins their design / size etc.; and
ii. Revegetation of exposed or disturbed areas; and
iii. Installation of sediment control measures such as settling basins; and
iv. Diversion of upstream runoff from exposed or disturbed areas.
c) By 1 July 2022, have completed and implemented the stormwater management plan.</td></tr>
<tr><td colspan="2">Agency interest: Land</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>E1</td><td>All disturbed areas (e.g. borrow pits, stockpile and screening areas) must be progressively reprofiled and stabilised to ensure that at the cessation of activities, erosion is minimised.</td></tr>
<tr><td colspan="2">Agency interest: Noise</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>F1</td><td>Prevent the emission of noise, which causes or that is likely to cause a nuisance at any noise affected premises. Nuisance includes noise that is or is likely to be annoying, intrusive or offensive to a person or a nuisance in the opinion of an authorised person.</td></tr>
<tr><td>F2</td><td>Noise is NOT considered to be a nuisance under condition F1 if monitoring shows that noise does NOT exceed the following levels in the time periods specified in Table 1 (Noise limits - 'Sensitive place') and Table 2 (Noise limits - 'Commercial place').
Table 1 (Noise limits – ‘Sensitive Place’)
<table>
<tr><th rowspan="3">Noise Level dB(A) measured as</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sunday and Public Holidays</th></tr>
<tr><th>7am–6pm</th><th>6pm-10pm</th><th>10pm-7am</th><th>9am–6pm</th><th>6pm–10pm</th><th>10pm-9am</th></tr>
<tr><th colspan="6">Noise measured at ‘Noise sensitive place’</th></tr>
<tr><td>$L_{A90,\ T}$</td><td>50</td><td>45</td><td>40</td><td>50</td><td>45</td><td>40</td></tr>
</table>
Table 2 (Noise limits – ‘Commercial Place’)
<table>
<tr><th rowspan="3">Noise Level dB(A) measured as</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sunday and Public Holidays</th></tr>
<tr><th>7am–6pm</th><th>6pm-10pm</th><th>10pm-7am</th><th>9am–6pm</th><th>6pm–10pm</th><th>10pm-9am</th></tr>
<tr><th colspan="6">Noise measured at ‘Noise sensitive place’</th></tr>
<tr><td>$L_{A90,\ T}$</td><td>55</td><td>50</td><td>45</td><td>55</td><td>50</td><td>45</td></tr>
</table></td></tr>
<tr><td>F3</td><td>When requested by the Administering Authority noise monitoring must be undertaken to investigate any complaint of noise annoyance. Monitoring must include:</td></tr>
</table>

	a) $L_{A90, T}$ b) The level and frequency of occurrence of impulsive or tonal noise; c) Atmospheric conditions including wind speed and direction; d) Effects due to extraneous factors such as traffic noise; e) Location, date and time of recording; and f) The method of measurement and reporting of noise levels must comply with the Environmental Protection Agency's Noise Measurement Manual, Third Edition, 1 March 2000, or more recent editions or supplements to that document as they become available.
Agency interest: Waste	
Condition number	**Condition**
G1	The holder of this environmental authority must: a) Develop and implement a waste management plan which provides for the following functions: i. Prevention of waste; and ii. Treatment of waste; and iii. Disposal of waste; and b) Upon commencement of the activity, have completed and implemented the waste management plan.
Agency interest: Self-Monitoring and Reporting	
Condition number	**Condition**
H1	All complaints received must be recorded including investigations undertaken, conclusions formed and action taken. This information must be made available to the administering authority on request.
H2	In consultation with the administering authority, cooperate with and participate in any community environmental group or organisation established in respect of either the premises to which this development approval relates specifically, or the industrial estate where the premises to which this development approval relates is located.

Definitions applicable to Part 2

Words and phrases used throughout this licence are defined below:

Administering authority means the Department of Environment, Science and Innovation or its successor.

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

Dust sensitive place means

a) a dwelling, mobile home or caravan park, residential marina or other residential place;
b) a motel, hotel or hostel;
c) a kindergarten, school, university or other educational institution;
d) a medical centre or hospital;
e) a protected area;
f) a park or gardens; or
g) a place used as an office or for business or commercial purposes;
h) and includes the curtilage of any such place.

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;
c) A water craft in a marina.

Intrusive noise - means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration -

a) Is clearly audible to, or can be felt by, an individual; and
b) Annoys the individual.

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.*

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

LA 10, adj, 10 mins means the A-weighted sound pressure level, *(adjusted for tonal character and impulsiveness of the sound)* exceeded for 10% of any 10 minute measurement period, using Fast response.

LA 1, adj, 10 mins means the A-weighted sound pressure level, *(adjusted for tonal character and impulsiveness of the sound)* exceeded for 1% of any 10 minute measurement period, using Fast response

mg/L means milligrams per litre.

Noise affected premises means a "noise sensitive place" or a "commercial place"

Noise sensitive place means

a) a dwelling, mobile home or caravan park, residential marina or other residential place;
b) a motel, hotel or hostel;

c) a kindergarten, school, university or other educational institution;

d) a medical centre or hospital;

e) a protected area;

f) a park or gardens.

Noxious means harmful or injurious to health or physical wellbeing.

Odour sensitive place has the same meaning as a dust sensitive place.

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

Protected area means -

a) A protected area under the *Nature Conservation Act 1992*; or

b) A marine park under the *Marine Parks Act 1992*; or

c) A World Heritage Area.

Regulated waste has the meaning in section 42 of the Environmental Protection Regulation 2019.

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 any under groundwater, and any part thereof.

50th percentile means not more than five (5) of the measured values of the quality characteristic are to exceed the stated release limit for any ten (10) consecutive samples for a release-monitoring point at any time during the licensed works.

80th percentile means not more than two (2) of the measured values of the quality characteristic is to exceed the stated release limit for any ten (10) consecutive samples for a sampling point at any time during the licensed works.

END OF ENVIRONMENTAL AUTHORITY