Permit

Environmental Protection Act 1994

Environmental authority EPPR00750513

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

Environmental authority number: EPPR00750513

Environmental authority takes effect on the date that it is signed by delegate.

The anniversary date of this environmental authority remains **22 November**.

The payment of the annual fee will be due each year on this day. An annual return will be due each year on 01 March.

Environmental authority holder

Name	Registered address
Barcaldine Regional Council	71 Ash Street BARCALDINE QLD 4725

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (a) 5,000t to 100,000t	Adelong Pit 1 Lot 5 Plan GH41 Adelong Pit 2 Lot 5 Plan GH41 Ballyneety Pit 1 Lot 8 Plan CP907493 Ballyneety Pit 2 Lot 8 Plan CP907493 Barcoorah Pit Lot 4 Plan PL67 Coorabah Pit Lot 10 Plan SP323953 Home Bush/The Lake Pit Lot 1 Plan GH50 Cherhill Pit Lot 1755 Plan SP223514 Crossmoor Pit Lot 19 Plan RY57 Eastmere Pit 1 Lot 3 Plan GH56 Eastmere Pit 2 Lot 3 Plan GH56 Fleetwood Pit 1 Lot 1 Plan GH54 Fleetwood Pit 2 Lot 1 Plan GH54

ABN 46 640 294 485

Environmentally relevant activities	Locations
	Fleetwood Pit 3 Lot 2 Plan GH54 Fortuna Pit Lot 1755 Plan SP223514 Gray Rock 18 Mile Pit Lot 1134 Plan CP910090 Chance/The Lake Pit Lot 4 Plan GH14 Loam Jericho Road Pit Lot 2 Plan CNA54 Mount Cornish Pit Lot 1 Plan PL73 Muttaburra Airport/Aeodrome Pit Lot 35 Plan CM82 North Crusoe/Potosi Pit Lot 1 Plan PL104 Rangers Valley Pit Road reserve adjacent to Lot 3 Plan SP190915 Ravenswood Pit Lot 3 Plan CNA54 & Lot 1 Plan CNA11 Stagmount Pit 1 Lot 6 Plan PL10 Stagmount Pit 2 Lot 6 Plan PL10 Stirling Pit Lot 4 Plan CNA56 The Lake 1 Pit Lot 1755 Plan SP223514 Tragowel Pit 1 Lot 3 Plan PL44 Tragowel Pit 2 Lot 3 Plan PL44 Wirralee Pit Lot 2 Plan DR16 Cavendish Lane 1 Pit Lot A Plan AP2414 Tarago Pit Lot 1 Plan SP159837 Skye Pit Lot 3 Plan DM38 Minti (Cheshire) Lot 1921 Plan SP209470 Alpha Station Pit Lot 7 Plan DM40 6 Mile Pit Lot 50 Plan MX96 Edwinstowe Pit Lot 7 Plan CNA66 16 Mile Lot 7 Plan CNA66 Locharnoch Pit Lot 1 Plan CP905062 Coleraine Pit Lot 2 Plan CNA16 Rosedale White Pit Road reserve adjacent to Lot 5 Plan SP332289 reserve) Rosedale Junction Pit Road reserve adjacent to Lot 5 Plan SP332289

Environmentally relevant activities	Locations
	Blairgowrie 1 Pit Lot 1 Plan CNA81 Blairgowrie 3 Pit Road reserve adjacent to Lot 1 Plan CNA81 Speculation Road reserve adjacent to Lot 2 Plan SP294285 Strasburg Creek Pit Road reserve adjacent to Lot 3 Plan CNA61 Dry Alice Pit Lot 1 Plan CNA72 Clare Pit Lot 6 Plan SP293511 and Road reserve (adjacent to 4 Plan SP293511) Hexham Pit Lot 4 Plan SP293511 Kismet Pit Lot 4 Plan SP293511, Road reserve (adjacent to Lot 4 Plan SP293511) and Lot 5 Plan SP293511 Wycheproof 1 Pit Lot 1 Plan BE18 Wycheproof 2 Pit Lot 11 Plan BE28 Beaufort Powerline Pit Lot 1 Plan BE18 Joycedale Pit Lot 14 Plan MX112 Cavendish Lane 2 Pit Lot 4 Plan SP314236 Widgeman Pit Lot 3814 Plan PH116 Clunie Vale Pit Lot 2 Plan GH12 Cronulla Pit Lot 9 Plan SP329831 Islay Plains Pit Lot 3 Plan BE57 Westwood 1 Pit Lot 10 Plan SP116048 Westwood 2 Pit Lot 10 Plan SP116048 Kerand 2 Pit Lot 1 Plan SP328165 West Kerand 2 Pit Lot 1 Plan SP328165 Trebarney West Pit Lot 5 Plan BE172 Forrester 1 (Well Creek) Pit Lot 1788 Plan PH886 Forrester 2 (Cudmore) A Pit Lot 1788 Plan PH886 Derwent Water Pit Lot 27 Plan BEL12416 Lennox Tower Pit Lot 4 Plan BF76 Clunie Vale Junction Pit Lot 1478 Plan SP259529

Environmentally relevant activities	Locations
	Dunrobin 1 Pit Lot 1478 Plan SP259529 Dunrobin 3 Pit Lot 1478 Plan SP259529 Tresillian Pit Lot 3 Plan CP860083 Kilcool Pit Lot 2 Plan RP602511 Armagh Pit Lot 1160 Plan PH286 Riverview Pit Lot 15 Plan BE39 Minnamoora Pit Lot 5 Plan CNA65 Dahlonega Pit Lot 4400 Plan PH739 Avoca Gully Pit Lot 1 Plan DM10 Geneva White Pit Lot 2 Plan DM2 Avoca Pit Lot 6 Plan DM17 Portwine JumpUp 2 Pit Lot 3 Plan BE92 Killarney Pit Lot 10 Plan SP340135 Cressbank (Killarney 2) Pit Lot 8 Plan SP340134 Montrose 2a Pit Lot 14 Plan BE108 Saltbush Pit Lot 7 Plan BF16 Springton 2 Pit Lot 12 Plan CNA90 Sedgeford (Star Downs JumpUp) Pit Lot 676 Plan PH12 Garden Gully 1 Pit Lot 2 Plan DM32 Garden Gully 3 Pit Lot 2 Plan DM32 Rocklea Pit Lot 14 Plan BE136 Maryvale North Pit Road reserve adjacent to Lot 35 Plan BE68 Maryvale South Pit Lot 35 Plan BE68 Garfield Pit Lot 11 Plan CNA95 Mendip Hills JumpUp Pit Lot 3 Plan MX63 Pretty Plains Pit Lot 3300 Plan PH169 Tumbar Jump Up Pit Lot 105 Plan SP255308 Rivington Pit Lot 4 Plan DM5 Texas Mill Pit Lot 2 Plan CNA92 Albion Vale Lot 1 Plan SP152755

Environmentally relevant activities	Locations
	Crewkerne Lot 6 Plan CM45 Kingsborough Lot 11 Plan PL6
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (a) 5,000t to 100,000t	Montrose Pit Lot D Plan AP11320
16-(1a) Dredging >1000t but <10000t yr	Greentree Creek Pit (formerly/also known as Sandy Creek Pit) Degulla Road - Lot 4994 Plan SP233100
ERA 57 - Regulated Waste Transport Transporting end-of-life tyres	Regulated Waste Transport State of Queensland
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-ii) more than 100 but not more than 1500EP otherwise	Muttaburra Sewage Treatment Plant Lot 37 Plan CM96
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-ii) more than 100 but not more than 1500EP otherwise	Aramac Sewage Treatment Plant Lot 4 Plan A1841
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (d) more than 4000 but not more than 10,000EP	Barcaldine Sewage Treatment Plant Lot 86 Plan RY77
ERA 60 - Waste disposal 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) (c) more than 5000t but not more than 10,000t	Barcaldine Landfill Lot 244 Plan RY201, Lot 8 Plan SP243965
ERA 60 - Waste disposal 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) (a) less than 2000t	Muttaburra Sword St Waste Disposal Facility Lot 55 Plan CM174

Environmentally relevant activities	Locations
ERA 60 - Waste disposal 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) (b) 2,000t to 5,000t	Jericho General Waste Disposal Lot 16 Plan MX55
ERA 60 - Waste disposal 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) (b) 2,000t to 5,000t	Alpha General Waste Disposal Lot 1 Plan SP110098
ERA 60 - Waste disposal 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) (c) more than 5000t but not more than 10,000t	Jericho Waste Disposal Facility Lot 1 Plan SP223511
ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) (a) less than 50,000t	Yellowjack Drive Landfill Lot 1 Plan SP223525
ERA 60 - Waste disposal 2: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b) (a) less than 2000t	Aramac Waste Disposal Facility Lot 42 Plan RY139
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (a) 5,000t to 100,000t	Busthinia Pit Lot 11 Plan EV110
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (a) 5,000t to 100,000t	Newark Pit Lot 12 Plan MX32
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t	Richmond Hills Lot 10 Plan EV18

Environmentally relevant activities	Locations
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t	Marengo Lot 2 Plan TL35
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t	Jabiru Lot 3 Plan PL87
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t	Tancred Lot 4 Plan TL34
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t	Caledonia Lot 1 Plan SP204906
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t	Rainsby Lot 4465 Plan SP276150
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t	Muttaburra Airport/Aerodrome Lot 35 Plan CM82
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t	Monklands Pit and Shadforth's Pit Lot 2 Plan SP136836
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (a) 5,000t to 100,000t	Hobartville 1 Pit and Hobartville 2 Pit Lot 649 Plan SP232649
ERA 16 Extractive (2)(a) extracting, other than by dredging, in a year, the following quantity of material—5,000t to 100,000t.	Burtle East/West Pit Lot 1 Plan BF58 and Lot 4994 Plan SP233100

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:1

- 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 land give written notice to the administering authority if they become aware of the following:

- the presence of, or happening of an event involving, a hazardous contaminant on the land that is causing, or is reasonably likely to cause, serious or material environmental harm (notice must be given within 24 hours); or
- if the land is contaminated land – a change in the condition of the land that is causing, or is reasonably likely to cause, serious or material environmental harm (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 land (notice must be given within 20 business days).

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. An annual return will be due each year on 01 April.

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

8 October 2025

Date

Calvin Quick
Department of the Environment, Tourism, Science and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Utilities and Government Organisations Assessment
Department of the Environment, Tourism, Science and Innovation
Phone: 1300 130 372
Email: palm@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 the Environment, Tourism, Science and Innovation to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Part 1: Standard Conditions

With the exception of any variations, the conditions of approval for this environmental authority include standard conditions contained within the attached document(s) entitled:

- Eligibility criteria and standard conditions for extracting material (ERA 16) – Version 2.
- Eligibility criteria and standard conditions for screening (5000 tonnes to 100,000 tonnes of material in a year) (ERA 16) – Version 2.

The environmentally relevant activities conducted at the locations as described in Table 1 must be conducted in accordance with the eligibility criteria and standard conditions contained within the above documents.

Table 1: Sites Covered by the Standard Conditions

ERA	SITE NAME	LOCATIONS	
		ADDRESS	LOT/PLAN
ERA 16 Extractive (2)(a) extracting, other than by dredging, in a year, the following quantity of material— 5,000t to 100,000t. ERA 16 Screening (3)(a) screening, in a year, the following quantity of material— 5,000t to 100,000t.	Adelong Pit 1	Stagmount Road, GALILEE QLD 4726	Lot 5 Plan GH41
	Adelong Pit 2	Stagmount Road, GALILEE QLD 4726	Lot 5 Plan GH41
	Ballyneety Pit 1	Ballyneety Road, BARCALDINE QLD 4725	Lot 8 Plan CP907493
	Ballyneety Pit 2	Ballyneety Road, BARCALDINE QLD 4725	Lot 8 Plan CP907493
	Barcoorah Pit	Stagmount Road, BARCALDINE QLD 4725	Lot 4 Plan PL67
	Coorabah Pit	Stagmount Road, BARCALDINE QLD 4725 Lat: -22.582401, Long: 145.412537	Lot 10 Plan SP323953
	Home Bush/The Lake Pit	Ballyneety Road, BARCALDINE QLD 4725	Lot 1 Plan GH50
	Cherhill Pit	Eastmere Road, BARCALDINE QLD 4725	Lot 1755 Plan SP223514
	Crossmoor Pit	Jericho Road, BARCALDINE QLD 4725	Lot 19 Plan RY57
	Eastmere Pit 1	Eastmere Road, GALILEE QLD 4726	Lot 3 Plan GH56
	Eastmere Pit 2	Eastmere Road, GALILEE QLD 4726	Lot 3 Plan GH56
	Fleetwood Pit 1	Pentland Aramac Road, GALILEE QLD 4726 Lat: -22.278762, Long: 145.685938	Lot 1 Plan GH54
	Fleetwood Pit 2	Pentland Aramac Road, GALILEE QLD 4726 Lat: -22.329444, Long: 145.684386	Lot 1 Plan GH54

Fleetwood Pit 3	Pentland Aramac Road, GALILEE QLD 4726 Lat: -22.077371, Long: 145.850567	Lot 2 Plan GH54
Fortuna Pit	Eastmere Road, BARCALDINE QLD 4725	Lot 1755 Plan SP223514
Gray Rock Road 18 Mile Pit	Aramac Road, PELICAN CREEK QLD 4726	Lot 1134 Plan CP910090
Chance/The Lake Pit	Laglan Lou Lou Park Road, BARCALDINE QLD 4725	Lot 4 Plan GH14
Loam Jericho Road Pit	Aramac Road, PELICAN CREEK QLD 4726	Lot 2 Plan CNA54
Mount Cornish Pit	Potosi Road, BARCALDINE QLD 4725	Lot 1 Plan PL73
Muttaburra Airport/Aeodrome Pit	Muttaburra Airport, MUTTABURRA QLD 4732 Lat: -22.582700, Long: 144.530000	Lot 35 Plan CM82
North Crusoe/Potosi Pit	Potosi Road, BARCALDINE QLD 4725 Lat: -22.325664, Long: 144.761314	Lot 1 Plan PL104
Rangers Valley Pit	Aramac Road, PELICAN CREEK QLD 4726 Lat: -23.005241, Long: 145.712545	Road reserve adjacent to Lot 3 Plan SP190915
Ravenswood Pit	Aramac Road, PELICAN CREEK QLD 4726	Lot 3 Plan CNA54; Lot 1 Plan CNA11
Stagmount Pit 1	Stagmount Road, PELICAN CREEK QLD 4726	Lot 6 Plan PL10
Stagmount Pit 2	Stagmount Road, PELICAN CREEK QLD 4726	Lot 6 Plan PL10
Stirling Pit	Coreena Lane, BARCALDINE QLD 4725	Lot 4 Plan CNA56
The Lake 1 Pit	Eastmere Road, BARCALDINE QLD 4725	Lot 1755 Plan SP223514
Tragowel Pit 1	Muttaburra Road, TABLEDERRY QLD 4732	Lot 3 Plan PL44
Tragowel Pit 2	Muttaburra Road, TABLEDERRY QLD 4732	Lot 3 Plan PL44
Wirralee Pit	Aramac Torrens Creek Road, GALILEE QLD 4726	Lot 2 Plan DR16
Cavendish Lane 1 Pit	Cavendish Road JERICHO QLD 4728	Lot A Plan AP2414

	Lat -23.567497 Long: 146.181113	
Tarago Pit	Alpha- Tambo Road ALPHA QLD 4724 Lat: -23.964556 Long: 146.56713	Lot 1 Plan SP159837
Skye Pit	Alpha- Tambo Road ALPHA QLD 4724 Lat: -24.164428 Long: 146.629307	Lot 3 Plan DM38
Minti (Cheshire)	Alpha- Tambo Road ALPHA QLD 4724 Lat: -24.234029 Long: 146.483941	Lot 1921 Plan SP209470
Alpha Station Pit	Alpha- Tambo Road ALPHA QLD 4724 Lat: -24.088082 Long:146.623602	Lot 7 Plan DM40
6 Mile Pit	Aramac Road JERICHO QLD 4728 Lat: -23.515652 Long: 146.13193	Lot 50 Plan MX96
Edwinstowe Pit	Aramac Road JERICHO QLD 4728 Lat: -23.428009 Long: 146.035556	Lot 7 Plan CNA66
16 Mile	Aramac Road JERICHO QLD 4728 Lat: -23.399623 Long: 146.117167	Lot 7 Plan CNA66
Locharnoch Pit	Aramac Road JERICHO QLD 4728 Lat: -23.310875 Long: 146.11897	Lot 1 Plan CP905062
Coleraine Pit	Aramac Road JERICHO QLD 4728 Lat: -23.259226 Long: 146.084189	Lot 2 Plan CNA16
Rosedale White Pit	Aramac Road JERICHO QLD 4728 Lat: -23.218089 Long: 146.073105	Road reserve adjacent to Lot 5 Plan SP332289 reserve
Rosedale Junction Pit	Aramac Road JERICHO QLD 4728 Lat: -23.156616 Long: 146.091807	Road reserve adjacent to Lot 5 Plan SP332289
Blairgowrie 1 Pit	Aramac Road JERICHO QLD 4728 Lat: -23.129652 Long: 146.089938	Lot 1 Plan CNA81

Blairgowrie 3 Pit	Aramac Road JERICHO QLD 4728 Lat: -23.109977 Long: 146.105362	Road reserve adjacent to Lot 1 Plan CNA81
Speculation	Aramac Road JERICHO QLD 4728 Lat: -23.002048 Long: 146.126653	Road reserve adjacent to Lot 2 Plan SP294285
Strasburg Creek Pit	Aramac Road JERICHO QLD 4728 Lat: -23.012004 Long: 146.021946	Road reserve adjacent to Lot 3 Plan CNA61
Dry Alice Pit	Aramac Road JERICHO QLD 4728 Lat: -23.022032 Long: 145.877958	Lot 1 Plan CNA72
Clare Pit	Ballyneety Road ARAMAC QLD 4726 Lat: -22.809967 Long: 145.885149 and Lat: -22.810200, Long: 145.886700	Lot 6 Plan SP293511 and Road reserve (adjacent to 4 Plan SP293511)
Hexham Pit	Ballyneety Road ARAMAC QLD 4726 Lat: -22.861231 Long: 145.927948	Lot 4 Plan SP293511
Kismet Pit	Ballyneety Road ARAMAC QLD 4726 Lat: -22.729844 Long: 145.805750 Lat: -22.728550 Long: 145.805490	Lot 4 Plan SP293511, Road reserve (adjacent to Lot 4 Plan SP293511) and Lot 5 Plan SP293511
Wycheproof 1 Pit	Beaufort Road ALPHA QLD 4724 Lat: -23.593582 Long: 146.820716	Lot 1 Plan BE18
Wycheproof 2 Pit	Beaufort Road ALPHA QLD 4724 Lat: -23.591897 Long: 146.818565	Lot 11 Plan BE28
Beaufort Powerline Pit	Beaufort Road ALPHA QLD 4724 Lat: -23.612194, Long: 146.851343	Lot 1 Plan BE18
Joycedale Pit	Blackall- Jericho Road JERICHO QLD 4728 Lat: -23.816454 Long: 145.951979	Lot 14 Plan MX112
Cavendish Lane 2 Pit	Cavendish Road JERICHO QLD 4728 Lat: -23.564111, Long: 146.181312	Lot 4 Plan SP314236

Widgeman Pit	Clunivale Road JERICHO QLD 4728 Lat: -22.712454 Long:145.888083	Lot 3814 Plan PH116
Clunie Vale Pit	Clunivale Road JERICHO QLD 4728 Lat: -22.676815 Long: 146.013553	Lot 2 Plan GH12
Cronulla Pit	Craven Road ALPHA QLD 4724 Lat: -23.613258, Long: 146.744205	Lot 9 Plan SP329831
Islay Plains Pit	Islay Plains Road ALPHA QLD 4724 Lat: -23.193656 Long: 146.877285	Lot 3 Plan BE57
Westwood 1 Pit	Islay Plains Road ALPHA QLD 4724 Lat: -23.319196 Long: 146.834584	Lot 10 Plan SP116048
Westwood 2 Pit	Islay Plains Road ALPHA QLD 4724 Lat: -23.314119 Long: 146.840049	Lot 10 Plan SP116048
Kerand 2 Pit	Craven Road ALPHA QLD 4724 Lat: -23.485536 Long: 146.871572	Lot 1 Plan SP328165
West Kerand 2 Pit	Craven Road ALPHA QLD 4724 Lat: -23.480974 Long: 146.841688	Lot 1 Plan SP328165
Trebarney West Pit	Craven Road ALPHA QLD 4724 Lat: -23.293838 Long: 146.96640	Lot 5 Plan BE172
Forrester 1 (Well Creek) Pit	Degulla Road ALPHA QLD 4724 Lat: -23.029586 Long: 146.457140	Lot 1788 Plan PH886
Forrester 2 (Cudmore) A Pit	Forrester Road ALPHA QLD 4724 Lat: -22.975670 Long: 146.422260	Lot 1788 Plan PH886
Derwent Water Pit	Derwentwater Road (Access) ALPHA QLD 4724 Lat: -23.614220 Long: 146.686186	Lot 27 Plan BEL12416
Lennox Tower Pit	Dunrobin Road JERICHO QLD 4728	Lot 4 Plan BF76

	Lat: -22.823467 Long: 146.090700	
Clunie Vale Junction Pit	Dunrobin Road JERICHO QLD 4728 Lat: -22.668414 Long: 146.066710	Lot 1478 Plan SP259529
Dunrobin 1 Pit	Dunrobin Road JERICHO QLD 4728 Lat: -22.645118 Long: 146.071393	Lot 1478 Plan SP259529
Dunrobin 3 Pit	Dunrobin Road JERICHO QLD 4728 Lat: -22.557336 Long: 146.095508	Lot 1478 Plan SP259529
Tresillian Pit	Hobartville Road ALPHA QLD 4724 Lat: -23.342595 Long: 146.578013	Lot 3 Plan CP860083
Kilcool Pit	Kilcool Road ALPHA QLD 4724 Lat: -23.651884, Long: 147.121012	Lot 2 Plan RP602511
Armagh Pit	Mendip Hills Road JERICHO QLD 4728 Lat: -23.848581 Long: 146.194969	Lot 1160 Plan PH286
Riverview Pit	Meta Park Road ALPHA QLD 4724 Lat: -23.733034 Long: 146.896742	Lot 15 Plan BE39
Minnamoora Pit	Minnamoora Road JERICHO QLD 4728 Lat: -23.444503 Long: 145.882489	Lot 5 Plan CNA65
Dahlonega Pit	Narounyah Road ALPHA QLD 4724 Lat: -23.806846 Long: 146.948190	Lot 4400 Plan PH739
Avoca Gully Pit	Portwine Road ALPHA QLD 4724 Lat: -24.058134 Long: 146.869503	Lot 1 Plan DM10
Geneva White Pit	Portwine Road ALPHA QLD 4724 Lat: -24.061072 Long: 146.895321	Lot 2 Plan DM2
Avoca Pit	Portwine Road ALPHA QLD 4724	Lot 6 Plan DM17

	Lat: -23.930737 Long: 147.103218	
Portwine JumpUp 2 Pit	Portwine Road ALPHA QLD 4724 Lat: -23.807000, Long: 147.117296	Lot 3 Plan BE92
Killarney Pit	Portwine Road ALPHA QLD 4724 Lat: -23.707721 Long: 147.057583	Lot 10 Plan SP340135
Cressbank (Killarney 2) Pit	Portwine Road ALPHA QLD 4724 Lat: -23.70308 Long: 147.051568	Lot 8 Plan SP340134
Montrose 2a Pit	Narounyah Road ALPHA QLD 4724 Lat: -23.688432 Long: 146.913883	Lot 14 Plan BE108
Saltbush Pit	Saltbush Road ALPHA QLD 4724 Lat: -23.533173 Long: 146.523237	Lot 7 Plan BF16
Springton 2 Pit	Springton Road JERICHO QLD 4728 Lat: -23.250191 Long: 145.78262	Lot 12 Plan CNA90
Sedgeford (Star Downs JumpUp) Pit	Star Downs Road ALPHA QLD 4724 Lat: -23.884064 Long: 146.725448	Lot 676 Plan PH12
Garden Gully 1 Pit	Star Downs Road ALPHA QLD 4724 Lat: -24.049347 Long: 146.794602	Lot 2 Plan DM32
Garden Gully 3 Pit	Star Downs Road ALPHA QLD 4724 Lat: -24.070241 Long: 146.797788	Lot 2 Plan DM32
Rocklea Pit	Prior Park Road ALPHA QLD 4724 Lat: -23.612997 Long: 147.001323	Lot 14 Plan BE136
Maryvale North Pit	Pinehill Road ALPHA QLD 4724 Lat: -23.49679 Long: 147.000999	Road reserve adjacent to Lot 35 Plan BE68
Maryvale South Pit	Tango Road ALPHA QLD 4724 Lat: -23.505380 Long: 147.000676	Lot 35 Plan BE68

	Garfield Pit	Texas Road JERICHO QLD 4728 Lat: -23.340657 Long: 146.028817	Lot 11 Plan CNA95
	Mendip Hills JumpUp Pit	Tumbar Road JERICHO QLD 4728 Lat: -23.972247 Long: 146.264369	Lot 3 Plan MX63
	Pretty Plains Pit	Tumbar Road JERICHO QLD 4728 Lat: -23.914418 Long: 146.294775	Lot 3300 Plan PH169
	Tumbar Jump Up Pit	Tumbar Road JERICHO QLD 4728 Lat: -23.975103 Long: 146.262044	Lot 105 Plan SP255308
	Rivington Pit	Alpha – Tambo Road ALPHA QLD 4724 Lat: -23.956907 Long: 146.527388	Lot 4 Plan DM5
	Texas Mill Pit	Jericho Road ARAMAC QLD 4726 Lat: -23.008120 Long: 145.788211	Lot 2 Plan CNA92
	Albion Vale	-22.358803, 145.432784	Lot 1 Plan SP152755
	Crewkerne	-22.347364, 144.388165	Lot 6 Plan CM45
	Kingsborough	-22.726656, 145.118674	Lot 11 Plan PL6

The environmentally relevant activities conducted at the locations as described in **Table 2** must be conducted in accordance with the standard conditions outlined in the document entitled: Eligibility criteria and standard conditions for extracting material (ERA 16) – Version 2.

Table 2: Sites covered by standard conditions for extracting material (ERA 16) – Version 2.

ERA	SITE NAME	LOCATIONS	
		ADDRESS	LOT/PLAN
ERA 16 Extractive (2)(a) extracting, other than by dredging, in a year, the following quantity of material— 5,000t to 100,000t.	Burtle East/West Pit	Degulla Road, ALPHA QLD 4724.	Lot 1 Plan BF58 and Lot 4994 Plan SP233100 **Coordinate 1:** 23°12'20.43"S 146°33'30.55"E **Coordinate 2:** 23°12'31.24"S 146°33'29.75"E **Coordinate 3:** 23°12'19.68"S 146°33'18.03"E **Coordinate 4:** 23°12'30.43"S 146°33'17.22"E

Part 2: Codes of Environmental Compliance

The conditions of approval for this environmental authority include Codes of Environmental Compliance contained within the attached documents entitled:

- Code of environmental compliance for certain aspects* of regulated waste transport (ERA 57) – Version 4.
- Code of environmental compliance ERA 16 – Extractive and screening activities. Superseded code of environmental compliance for certain aspects* of extractive and screening activities (ERA 16) – Version 6.

The environmentally relevant activities conducted at the locations as described in **Table 3** must be conducted in accordance with the code of environmental compliance contained within the above document entitled: Code of environmental compliance ERA 16 – Version 6.

Table 3: Sites covered by the code of environmental compliance ERA 16 – Version 6.

ERA	SITE NAME	ERA LOCATION	
		ADDRESS	LOT/PLAN
ERA 16 Extractive (2)(a) extracting, other than by dredging, in a year, the following quantity of material— 5,000t to 100,000t. ERA 16 Screening (3)(a) screening, in a year, the following quantity of material— 5,000t to 100,000t.	Montrose Pit	Capricorn Highway PORT WINE QLD 4724	Lot D Plan AP11320

Part 2A: Site Specific Conditions – Dredging

Environmentally relevant activity	Location
16-(1a) Dredging >1000t but <10000t yr	Greentree Creek Pit (formerly/also known as Sandy Creek Pit) Degulla Road - Lot 4994 Plan SP233100

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

Agency interest: General	
Condition number	**Condition**
G1	Activities conducted under this environmental authority must not be conducted contrary to any of the following limitations: **Schedule 1—Approved plans** a) Table 1: List of pit boundary Points (Decimal Degrees) and other location details. b) Greentree Creek Pit (formerly/also known as Sandy Creek Pit) Site detail map.

G2	All reasonable and practicable **measures** must be taken to minimise the likelihood of environmental harm being caused.
G3	Any breach of a condition of this environmental authority, must be reported to the **administering authority** as soon as practicable, or at most, within 24 hours of **you** becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
G4	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G5	All information and records that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. Environmental monitoring results must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the **administering authority** upon request.
G6	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a complaint that is not considered by the **administering authority** to be frivolous or vexatious, of environmental nuisance arising from the **activity**. The monitoring results must be provided to the **administering authority** upon request.
G7	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* *6.* ensure that reviews of environmental performance are undertaken at least annually.
G8	With the exception of floating equipment, all machinery and ancillary equipment for the **activity** must be stored outside the high banks of any water course.
G9	Provide to the **administering authority** written notification of the date when **dredging** will commence at least five (5) business days prior to establishing a new **dredging activity**.
Agency interest: Air	
Condition number	**Condition**
A1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place.**

Agency interest: Water	
Condition number	**Condition**
W1	Contaminants must not be released to waters either directly or indirectly.
Agency interest: Noise	
Condition number	**Condition**
N1	Noise generated by the activity must not cause environmental nuisance to any sensitive place or **commercial place**.
N2	No drilling or blasting is permitted at the approved site.
Agency interest: Land	
Condition number	**Condition**
L1	Contaminants must not be released to land.
L2	Treatment and management of acid sulfate soils must comply with the current edition of the *Queensland Acid Sulfate Soil Technical Manual.*
L3	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable native species of vegetation for the location are established and sustained for earthen surfaces. 2. potential for erosion is minimised. 3. the quality of water, including seepage, released from the site does not cause environmental harm. 4. potential for environmental nuisance caused by dust is minimised. 5. the water quality of any residual water body does not have potential to cause environmental harm. 6. the final landform is stable and protects public safety.
Agency interest: Waste	
Condition number	**Condition**
WT1	All waste generated in carrying out the **activity** must be reused, recycled or removed to a facility that can lawfully accept the waste.

Definitions

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

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

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

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.

Dredging includes extraction of mud, sand, coral, ballast, shingle, gravel, clay, earth and other material from the bed of Queensland tidal and non-tidal **waters**. Dredging does not include the banks of a waterway.

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

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

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

Release of a contaminant into the environment means to:
- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

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

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.

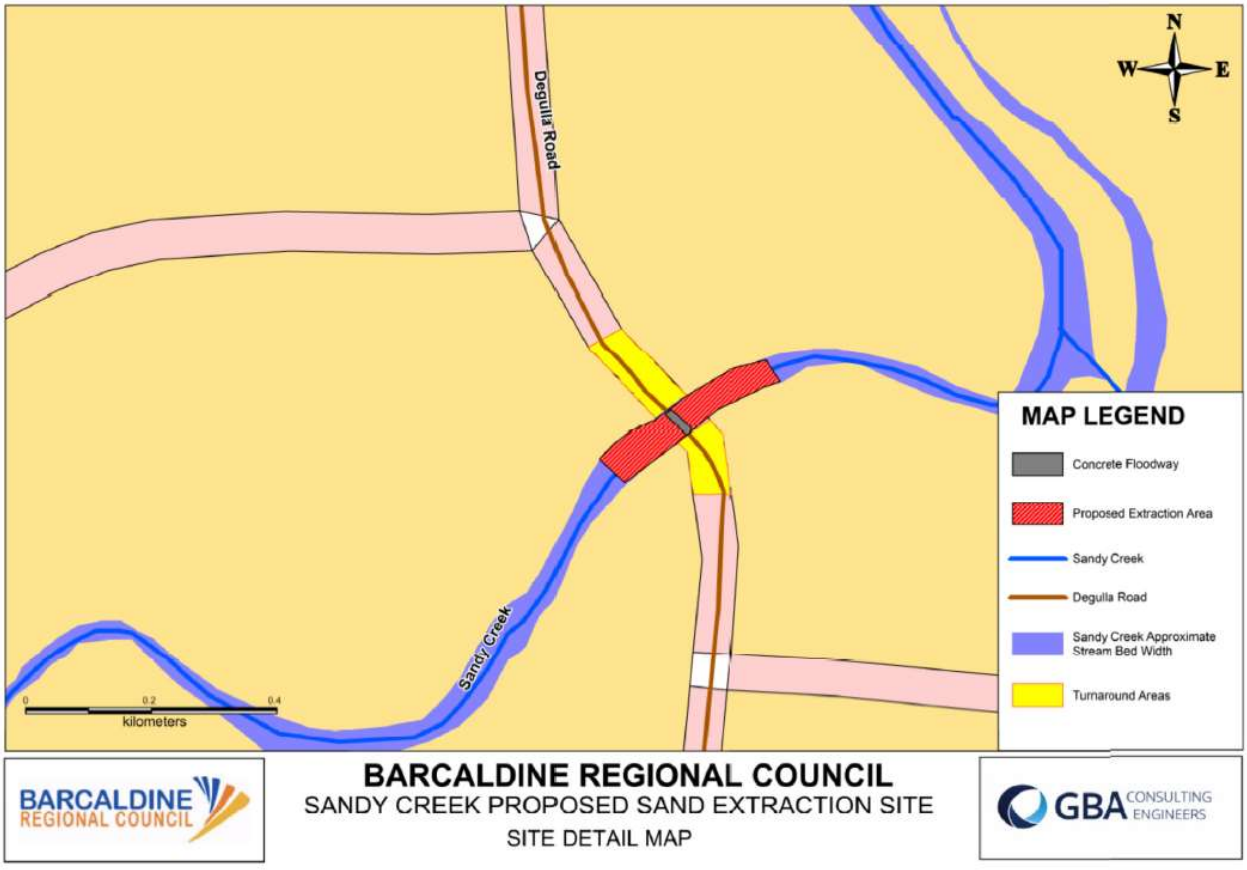
Attachment 1

Approved plans

Table 1: List of pit boundary Points (Decimal Degrees, Datum: GDA94) and other location details.

Pit name	Lot and Plan No.	Latitude	Longitude
Greentree Creek Pit (formerly/also known as Sandy Creek Pit)	Lot 4994 Plan SP233100	-23.115833	146.504722
		-23.118261	146.501831

Barcaldine Regional Council Greentree Creek Pit (formerly/also known as Sandy Creek Pit) Site detail map



Sandy Creek Pit Site detail map

map

Part 3: Site Specific General Conditons

Environmentally relevant activities	Locations
ERA 63 Sewage treatment (1)(b)(ii) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 100 but not more than 1,500EP— otherwise - no IT or IR	Muttaburra Sewage Treatment Plant - Cornish Street, MUTTABURRA QLD 4726 – Lot 37 Plan CM96. Aramac Sewage Treatment Plant - Muttaburra Road, ARAMAC QLD 4726 – Lot 4 Plan A1841.
ERA Sewage treatment 63 (1)(d) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 4,000 but not more than 10,000EP	Barcaldine Sewage Treatment Plant – Bauhinia Street, BARCALDINE QLD 4725 - Lot 86 Plan RY77.
ERA 60 Waste disposal (2)(a) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— less than 2,000t	Aramac Waste Disposal Facility – Muttaburra Road, ARAMAC QLD 4726 - Lot 42 Plan RY139. Muttaburra Sword St Waste Disposal Facility - Sword Street, MUTTABURRA QLD 4726 – Lot 55 Plan CM174 (Council Reserve) GPS Coodinates: 22°36'6.69"S, 144°31'45.21"E
ERA 60 Waste disposal (2)(b) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— 2,000t to 5,000t	Jericho General Waste Disposal - Furbers Road, JERICHO QLD 4728 – Lot 16 Plan MX55 (Council Reserve); Alpha General Waste Disposal – McKellar Street, ALPHA QLD 4724 – Lot 1 Plan SP110098.
ERA 60 Waste disposal (2)(c) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— more than 5,000t but not more than 10,000t	Jericho Waste Disposal Facility - Jericho, Aramac Road, JERICHO QLD 4724 – Lot 1 Plan SP223511. Barcaldine Landfill, Off Landsborough Highway BARCALDINE QLD 4725 – Lot 8 Plan SP243965 and Lot 244 Plan RY201 (Council Reserve) GPS Coodinates: 23°35'24.13"S 144°16'43.02"E.
ERA 16 Extractive (2)(a) extracting, other than by dredging, in a year, the following quantity of material— 5,000t to 100,000t.	Marengo, Aramac – Torrens Creek Road, Upper Cornish Creek, ARAMAC QLD 4726 – Lot 2 Plan TL35; "Jabiru," Aramac – Torrens Creek Road, Upper Cornish Creek, ARAMAC QLD 4726 – Lot 3 Plan PL87; "Tancred," Aramac – Torrens Creek Road, Upper Cornish Creek, ARAMAC QLD 4726 – Lot 4 Plan TL34; "Caledonia," Aramac-Torrens Creek Road, Upper Cornish Creek, ARAMAC QLD 4726 – Lot 1 Plan SP204906;

	"Rainsby," Aramac – Torrens Creek Road, Upper Cornish Creek, ARAMAC QLD 4726 – Lot 4465 Plan SP276150; "Muttaburra Airport/Aerodrome" MUTTABURRA QLD – Lot 35 Plan CM82; Lat: -22.582700, Long: 144.530000 Hobartville 1 Pit and Hobartville 2 Pit, Off Hobartville Road, approximately 50km North Northwest of Alpha – Lot 649 Plan SP232649; Monklands Pit and Shadforth's Pit, Off Hobartville Road, approximately 40km North Northwest of Alpha – Lot 2 Plan SP136836; Richmond Hills Unnamed Road, Off Capricorn Highway, BARCALDINE QLD 4725 – Lot 10 Plan EV18.
ERA 16 Extractive (2)(a) extracting, other than by dredging, in a year, the following quantity of material— 5,000t to 100,000t. ERA 16 Screening (3)(a) screening, in a year, the following quantity of material— 5,000t to 100,000t.	Busthinia Pit, Off Capricorn Highway, BARCALDINE QLD 4725 – Lot 11 Plan EV110 Lat: -23.563590, Long: 145.717585 Newark Pit, Blackall Jericho Road MEXICO – Lot 12 Plan MX32.

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following general conditions.

Agency interest: General	
Condition number	**Condition**
G1-3	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the activities.
G2-3	The **activity** must be undertaken in accordance with written procedures that: (a) identify potential risks to the environment from the **activity** during routine operations and emergencies; and (b) establish and maintain control **measures** that minimise the potential for environmental harm; and (c) ensure plant, equipment and **measures** are maintained in a proper and effective condition; and (d) ensure plant, equipment and **measures** are operated in a proper and effective manner; and (e) ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994*; and (f) ensure that reviews of environmental performance are undertaken at least annually.

G3-3	All **records** must be kept for a period of at least five years and provided to the **administering authority** upon request.
G4-3	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. *Note: This condition does not apply to exception reporting outlined in conditions G5-3 and G6-3.*
G5-3	**Exception Reporting** The holder of this environmental authority must notify the administering authority in writing of any monitoring result which indicates an exceedance of any licence limit within 28 days of completion of analysis.
G6-3	The written notification required by condition number G5-3 above must include: (a) The full analysis results, and (b) Details of investigation or corrective actions taken, and (c) Any subsequent analysis.
G7-3	**You** must record the following details for all environmental **complaints** received: (a) date and time complaint was received (b) name and contact details of the complainant (c) nature of the complaint (d) investigations undertaken (e) conclusions formed (f) actions taken.
G8-3	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.
Agency interest: Air	
Condition number	**Condition**
A1-3	Odours or airborne contaminants must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
Agency interest: Water	
Condition number	**Condition**
WT1-3	Other than as permitted within this environmental authority, contaminants must not be released to any **waters**.
Agency interest: Noise	
Condition number	**Condition**
N1-3	Other than as permitted within this environmental authority, noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive place** or **commercial place.**

Emission of Noise

In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activities must not result in levels greater than those specified in *Table 1 - Noise Limits* until the circumstances which gave rise to the complaint are resolved.

Table 1 - Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level L (Amax adj,T)	**Period**
Background noise level plus 5 dB(A)	7 am - 10 pm
Background noise level plus 3 dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level L (Amax adj, T)	**Period**
Background noise level plus 10 dB(A)	7 am - 10 pm
Background noise level plus 8 dB(A)	10 pm - 7 am

Agency interest: Land

Condition number	**Condition**
L1-3	Other than as permitted within this environmental authority, contaminants must not be released to **land**.

Agency interest: Waste

Condition number	**Condition**
W1-3	All waste generated in carrying out the **activity** must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
W2-3	Excepting combustion of landfill gas, waste must not be burnt.

Part 3.1: Site Specific Conditions - Sewage Treatment Activities

Part 3.1.1: Muttaburra and Aramac Sewage Treatment Plants

Environmentally relevant activities	Locations
ERA 63 Sewage treatment (1)(b)(ii) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 100 but not more than 1,500EP— otherwise - no IT or IR	**Muttaburra Sewage Treatment Plant** - Cornish Street, MUTTABURRA QLD 4726 – Lot 37 Plan CM96. **Aramac Sewage Treatment Plant** - Muttaburra Road, ARAMAC QLD 4726 – Lot 4 Plan A1841.

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions.

Agency interest: Water

Condition number	Condition
WT1 - 3.1.1	The only contaminants to be released to surface waters are from release points W1 and W2 associated with the Aramac and Muttaburra Sewage Treatment Plants and in accordance with *Table 1 - Release Quality Characteristic Limits* and the associated requirements. *Release point W1* - Aramac Sewage Treatment Plant - Aramac Creek prior to discharge to the Thomson River. *Sampling point S1* – Aramac Sewage Treatment Plant – discharge point from number 3 settling pond. *Release point W2* - Muttaburra Sewage Treatment Plant - Landsborough River *Sampling point S2* – Muttaburra Sewage Treatment Plant – discharge point from settling pond.

Table 1 - Release Quality Characteristic Limits

QUALITY CHARACTERISTICS	SAMPLING POINT	RELEASE LIMIT	LIMIT TYPE	FREQUENCY
5-day Biochemical Oxygen Demand. (mg/l)	S1 and S2	40	maximum	Quarterly
5-day Biochemical Oxygen Demand. (mg/l)	S1 and S2	20	long term 80 percentile compliance	Quarterly
Suspended Solids. (mg/l)	S1 and S2	60	maximum	Quarterly
Suspended Solids. (mg/l)	S1 and S2	30	long term 80 percentile compliance	Quarterly
pH (pH Units)	S1 and S2	6.5-9.0	range	Quarterly
Dissolved Oxygen (mg/L)	S1 and S2	2	minimum	Quarterly
Faecal Coliforms (organisms/100ml)	1000 organisms per 100 mL as a median value			Quarterly

Associated requirements

	1. Each release point should be identified with a position on the map in the plan and by latitude and longitude accurate to four decimal places. Separate tables are required if each release point has different limits. 2. **COD** may be monitored as an alternative to **BOD5** once a reliable correlation has been determined through analysis of a minimum number of 24 wastewater samples over a minimum period of 12 months and with the agreement of the **administering authority**. 3. Enterococci counts are the recommended pathogen indicator for assessing potential risks to recreational water. Limits should be set based on the level of recreational use of receiving waters – either primary or secondary recreation. E.coli counts may be more relevant for small plants where recreational use in receiving waters is unlikely. 4. Sampling must be in accordance with the Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.
WT2 - 3.1.1	**Quantity of Contaminants Released** The total quantity of contaminants released from release point W1 and W2 during any dry weather day must not exceed 525 cubic metres and during a wet weather day must not exceed 2,700 cubic metres.
WT3 - 3.1.1	For the purposes of determining compliance with the Suspended Solids (SS) concentration of samples collected, the concentration will be deemed to be determined using the following equation: SS(a) (mg/L) = SS(b) mg/L minus one tenth of the chlorophyll a (micrograms per litre (µg/L) where: SS(a) = SS concentration calculated for compliance. SS(b) = Measured concentration of SS including algae. Chlorophyll “a” analysis shall be carried out on a subsample of the sample collected for the determination of the measured SS. The sample shall be well mixed when subsampling.

Part 3.1.2: Barcaldine Sewage Treatment Plant

Environmentally relevant activities	Locations
ERA Sewage treatment 63 (1)(d) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 4,000 but not more than 10,000EP	**Barcaldine Sewage Treatment Plant** – Bauhinia Street, BARCALDINE QLD 4725 - Lot 86 Plan RY77.

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions.

Agency interest: Water

Condition number	Condition
W1 - 3.1.2	The only contaminants to be released to surface waters are from release point W1 associated with the Barcaldine Sewage Treatment Plant and in accordance with *Table 1 - Release Quality Characteristic Limits* and the associated requirements. Release point W1 - Lagoon Creek prior to discharge to the Alice River. Sampling point S1 – Barcaldine Sewage Treatment Plant – discharge canal from the settling ponds.

Table 1 - Release Quality Characteristic Limits

QUALITY CHARACTERISTICS	SAMPLING POINT	RELEASE LIMIT	LIMIT TYPE	FREQUENCY
5-day Biochemical Oxygen Demand. (mg/l)	W1/S1	40	maximum	Quarterly
5-day Biochemical Oxygen Demand. (mg/l)	W1/S1	20	long term 80 percentile compliance	Quarterly
Suspended Solids. (mg/l)	W1/S1	60	maximum	Quarterly
Suspended Solids. (mg/l)	W1/S1	30	long term 80 percentile compliance	Quarterly
pH (pH Units)	W1/S1	6.5-9.0	range	Quarterly
Dissolved Oxygen (mg/L)	W1/S1	2	minimum	Quarterly
Faecal Coliforms (organisms/100ml)	1000 organisms per 100 mL as a median value (minimum of 5 samples taken at not less than half-hourly intervals in any one day, with 4 out of 5 samples containing less than 4000 organisms per 100 mL)			Quarterly

Associated requirements

1. Each release point should be identified with a position on the map in the plan and by latitude and longitude accurate to four decimal places. Separate tables are required if each release point has different limits.
2. **COD** may be monitored as an alternative to **BOD5** once a reliable correlation has been determined through analysis of a minimum number of 24 wastewater samples over a minimum period of 12 months and with the agreement of the **administering authority**.
3. Enterococci counts are the recommended pathogen indicator for assessing potential risks to recreational water. Limits should be set based on the level of recreational use of receiving **waters** – either primary or

	secondary recreation. E.coli counts may be more relevant for small plants where recreational use in receiving waters is unlikely. 4. Sampling must be in accordance with the Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.
WT2 - 3.1.2	**Quantity of Contaminants Released** The total quantity of contaminants released from release point W1 during any dry weather day must not exceed 2 500 cubic metres and during a wet weather day must not exceed 12 600 cubic metres.
WT3 - 3.1.2	**Pump Stations** The only pump station permitted to release contaminants to any waters are those listed below at the corresponding overflow locations:

Pump Station Number/Description	Overflow Location
Pump Station No 3, Cypress Street, Barcaldine	Lagoon Creek

Part 3.2: Site Specific Conditions - Waste Disposal Activities

Part 3.2.1: General Conditions

Environmentally relevant activities	Locations
ERA 60 Waste disposal (2)(c) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— more than 5,000t but not more than 10,000t	**Barcaldine Landfill**, Off Landsborough Highway BARCALDINE QLD 4725 – Lot 8 Plan SP243965 and Lot 244 Plan RY201 (Council Reserve) GPS Coordinates: 23°35'24.13"S 144°16'43.02"E.
ERA 60 Waste disposal (2)(a) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— less than 2,000t	**Muttaburra Sword St Waste Disposal Facility** - Sword Street, MUTTABURRA QLD 4726 – Lot 55 Plan CM174 (Council Reserve) GPS coordinates: 22°36'6.69"S, 144°31'45.21"E
ERA 60 Waste disposal (2)(b) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— 2,000t to 5,000t	**Jericho General Waste Disposal** - Furbers Road, JERICHO QLD 4728 – Lot 16 Plan MX55 (Council Reserve); **Alpha General Waste Disposal** – McKellar Street, ALPHA QLD 4724 – Lot 1 SP110098.
ERA 60 Waste disposal (2)(c) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— more than 5,000t but not more than 10,000t	**Jericho Waste Disposal Facility** - Aramac Road, JERICHO QLD 4724 – Lot 1 Plan SP223511.

The environmentally relevant activities conducted at the location as described above must be conducted in accordance with the following general conditions of approval.

Agency interest: General	
Condition number	**Condition**
G1 - 3.2.1	Leachate must not be permitted to discharge beyond the boundaries of the licensed place.
G2 - 3.2.1	Stormwater runoff polluted by waste or leachate must not be permitted to discharge beyond the boundaries of the licensed place.
Agency interest: General	
Condition number	**Condition**
L1 - 3.2.1	**Site Rehabilitation** At cessation of waste disposal operations of a stage of the licensed place, a final cover consisting of at least 500 millimetres depth of compacted clean earth must be placed over the competed area.
Agency interest: Wate	
Condition number	**Condition**
W1 - 3.2.1	Deposited waste must be covered as soon as practicable to limit stormwater infiltration, prevent exposure of waste and prevent issues arising from vectors and pest species.
W2 - 3.2.1	Putrescible wastes or domestic wastes must be deposited at least 2.0 metres above the highest regional water table or as otherwise approved based on the liner design and groundwater monitoring network.
W3 - 3.2.1	All reasonable and practicable **measures** must be taken to contain litter within the **waste operations area**, and retrieve litter released.
W4 - 3.2.1	Untreated clinical waste may be disposed to landfill under supervised burial conditions.
W5 - 3.2.1	All reasonable and practicable **measures** must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. nuisance to occupiers of neighbouring premises 2. any danger or risk to the health of any persons.

Part 3.2.2: Yellowjack Drive Landfill

Environmentally relevant activities	Locations
ERA 60 Waste disposal (1)(a) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a)— less than 50,000t	100 Yellowjack Drive, Barcaldine; Lot 1 Plan SP223525

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

Agency interest: General	
Condition number	**Condition**
G1 - 3.2.2	Activities conducted under this environmental authority must not be conducted contrary to any of the following limitations: 1. Cells receiving tyres and asbestos only for disposal are permitted to be unlined. 2. Cells receiving **general waste** and dewatered septic waste for disposal must be **clay lined** or **double lined**. 3. Activities on site, including the location of landfill cells and waste transfer station, are to be conducted generally in accordance with *Appendix 2 Site plan*.
G2 - 3.2.2	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the activities.
G3 - 3.2.2	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 - 3.2.2	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G5 - 3.2.2	All information and **records** required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority. All information and **records** required by the conditions of this environmental authority must be provided to the **administering authority** upon request and in the format requested.
G6 - 3.2.2	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 - 3.2.2	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.
G8 - 3.2.2	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 - 3.2.2	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 in and aware of their obligations under the *Environmental Protection Act 1994* 6. ensure that reviews of environmental performance are undertaken at least annually.
G10 - 3.2.2	All reasonable and practicable **measures** must be taken to contain litter within the **waste operations area**, and retrieve litter released.
G11 - 3.2.2	A **leachate** collection system must be designed by an **appropriately qualified person** and installed and maintained to: 1. collect **leachate** generated in the **landfill unit**; 2. convey the collected **leachate** out of the **landfill unit** to an appropriate **leachate** storage facility; and 3. restrict the height of the **leachate** above the liner system to a maximum level of 300mm.
G12 - 3.2.2	**Leachate** and stormwater runoff which has been in contact with waste materials in the **landfill unit**, must be collected in the **leachate** storage facility and be: 1. treated in the **leachate** treatment plant and discharged to sewer in accordance with the requirements of the relevant water utility; or 2. recirculated through waste disposed in the **landfill unit**; or 3. treated by alternative technologies agreed by the **administering authority** for offsite disposal, discharge, or on-site reuse; or 4. Disposed of at a facility that is approved to receive such waste.
G13 - 3.2.2	All reasonable and practicable **measures** must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. **environmental nuisance** to occupiers of neighbouring premises 2. any danger or risk to the health of any persons.
G14 - 3.2.2	Only the following waste streams can be received at the site: 1. For disposal to unlined landfill cells: tyres and asbestos. 2. For disposal to **clay lined** or **double lined** cells: **general waste** and dewatered septic waste. 3. For storage within the waste transfer station: waste other than: a. putrescible waste, or b. liquid waste, except where the **liquid** waste is received an appropriate container, stored in the container in a bunded area, and removed from the site for lawful reuse, treatment or disposal.
G15 - 3.2.2	In addition to condition G14, the following waste streams must not be permitted to be placed at the **landfill facility** at any time: 1. **liquid** or semiliquid waste, other than: a. **liquid** or semi-liquid waste which has been produced in the carrying out of the **activity**;

	b. **liquid** or semi-liquid waste that is incidental to, and commingled with, the permitted waste streams. 2. hot ash; 3. material that is smouldering or aflame; **4.** material containing a substance which is ignitable, corrosive, reactive or **toxic material** (other than materials containing a toxic substance from domestic premises) unless this material is to be deposited into a dedicated monocell with a written approval of the **administering authority**; 5. all radioactive wastes, unless otherwise approved under *the Radiation Safety Act 1999* or approved contaminated soil; 6. an explosive; 7. ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction.
G16 - 3.2.2	Deposited waste must be covered as soon as practicable to limit stormwater infiltration, prevent exposure of waste and prevent issues arising from vectors and pest species.
G17 - 3.2.2	Excepting combustion of landfill gas, waste must not be burnt.
G18 - 3.2.2	Waste and any contaminated soil disposed of at the premises to which this environmental authority relates: 1. must be accepted subject to effectively implementing risk assessment practices and procedures for contaminant testing that ensure that the material accepted complies with the maximum contaminant levels and the allowable leaching contaminant levels prescribed in *Table 1 - Maximum contaminant levels in soils* (in Appendix 1) and *Table 2 – Allowable leaching contaminant levels* (in Appendix 1) respectively; and 2. if the contaminated soil is used as coverage material, contaminant levels must not exceed the maximum concentration limits in *Table 3 - Maximum total contaminant levels in soils used as cover material* (in Appendix 1), must not cause contaminated stormwater release and must not include any soil that is contaminated due to the concentration of monocyclic aromatic hydrocarbons, polycyclic aromatic hydrocarbons, chlorinated hydrocarbons, pesticides, or petroleum hydrocarbons.
Agency interest: Air	
Condition number	**Condition**
A1 - 3.2.2	Other than as permitted within this environmental authority, odours or airborne contaminants must not cause **environmental nuisance** at a **sensitive place** or **commercial place**.
A2 - 3.2.2	Dust and particulate matter emissions must not exceed the following concentrations at any **sensitive place** or **commercial place**: (a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions), or

	(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, when monitored in accordance with Australian Standard AS 3580.9.6 (or more recent editions) or any other method approved by the administering authority.
A3 - 3.2.2	The following materials must not be used for dust suppression purposes: 1. **leachate** or landfill gas condensate 2. 2. waste oil or other hydrocarbons.
A4 - 3.2.2	Landfill gas must not exceed the following limits: 1. 500 parts per million at a height of 50mm above the final and intermediate cover surface including the batter slopes of the **landfill unit** 2. 25% of the lower explosive limit of the landfill site **boundary** when measured in facility structures (but excluding facility structures used for landfill gas control and recovery, and **leachate** collection system components) 3. the lower explosive limit in subsurface geology at or beyond the landfill site **boundary** 4. 25% of the lower explosive limit within service pits, service trenches, stormwater drains or other structures beyond the landfill site **boundary**.
A5 - 3.2.2	Landfill gas collected must be reused or efficiently flared in a manner that avoids environmental harm.
A6 - 3.2.2	A landfill gas monitoring network must be installed for each **landfill unit** to measure methane levels in facility structures and at the landfill site **boundary**, as prescribed by condition A4. The network must consist of gas monitoring devices, such as monitoring bores and be developed by an **appropriately qualified person** in the fields of hydrogeology and landfill gas monitoring program design to be able to competently make recommendations about these matters.
A7 - 3.2.2	If methane gas levels exceeding methane standards referred to in condition A4 are detected, all necessary steps must immediately be taken to ensure protection of human health.
Agency interest: Water	
Condition number	**Condition**
WT1 - 3.2.2	The only contaminants to be released to surface **waters** are settled treated stormwater runoff waters from areas of the site not likely to be contaminated with waste materials, released offsite in accordance with *Table 1 - Surface Water Release Limits* and the associated monitoring requirements.

Table 1 - Surface Water Release Limits

Release Point	Contaminant	Limit	Monitoring Frequency
Outlet of sediment basin	pH	6-8 pH units	Prior to release
	Dissolved oxygen	6.5 mg/L minimum	
	Suspended solids	50 mg/L maximum	
	Electrical conductivity	1000 µS/cm	

Associated requirements

1. The release point - outlet of the sediment basin - is as depicted on *Appendix 2 Site plan*.
2. Monitoring must be undertaken prior to a release.

	3. Water quality monitoring must be in accordance with the methods prescribed in the current edition of the **administering authority's** Monitoring and Sampling Manual. 4. Samples must be representative of the release. 5. All monitoring devices must be correctly calibrated and maintained.
WT2 - 3.2.2	In addition to WT1, the release to **waters** must not: 1. have any other properties at a concentration that is capable of causing environmental harm 2. produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.
WT3 - 3.2.2	The stormwater runoff from **disturbed** areas, generated by a storm event up to and including a **24 hour storm event with an average recurrence interval of 1 in 10 years** must be retained on site or managed to remove **contaminants** before released offsite.
WT4 - 3.2.2	The controlled release of treated/settled stormwater must be conducted in a way and at a rate that does not cause: 1. re-suspension of particles; or 2. erosion of bed or banks of receiving **waters**; or 3. landscape damage; or 4. ponding of the water; or 5. vegetation damage.
WT5 - 3.2.2	A **groundwater monitoring system** must: (a) be designed and installed by an **appropriately qualified person(s)** with experience and qualifications in hydrology and **groundwater** monitoring; and (b) include a sufficient number of bores installed at locations and depths which would yield representative **groundwater** samples from at least the uppermost aquifer should **groundwater** be located at any time within a depth of 5m from the base of any **landfill unit**, and be capable of: i. detecting any seepage of contaminants to **groundwater** from the site; and ii. establishing the quality of any **groundwater** within a depth of 5m from the base of any **landfill unit**; and (c) include bores to enable monitoring of background **groundwater** quality where background **groundwater** is above a height of 5m below the depth of the **landfill unit**. Where possible, this must include both hydraulically **up-gradient bore(s)** or **background bore(s)** that have not been affected by any release of **contaminants** to **groundwater** from the **activity**, and hydraulically **down gradient bore(s)** of the **activity**.
WT6 - 3.2.2	A groundwater monitoring program must: (a) be designed by an **appropriately qualified person(s)** with experience and qualifications in hydrology and implementing **groundwater monitoring systems**; and (b) utilise best practice methodology; and (c) be undertaken by **appropriately qualified person(s)**; and (d) include inspection of groundwater bores quarterly and following rainfall events equal to and in excess of a **24 hour storm event with an average recurrence interval of 1 in 5 years**; and (e) include a record of results where **groundwater** is not present in any of the bores during inspection; and (f) where **groundwater** is present in any of the bores:

	i. adopt appropriate monitoring indicators to detect contamination of **groundwater** aquifers by leachate, considerate of site specific hydrogeological factors and relevant legislative requirements; and ii. identify trigger concentration levels that are suitable for early detection of contaminant releases at the site. The trigger concentrations levels must be derived using the latest version of the Department's guideline *Using Monitoring Data to Assess Groundwater Quality and Potential Environmental Impacts*; and iii. conduct monitoring of appropriate monitoring indicators in accordance with the current edition of the **administering authority's** Monitoring and Sampling Manual; and iv. determine whether **leachate** has impacted **groundwater** based on the results obtained compared to the adopted trigger limits and any historical monitoring results, and if relevant, the extent to which any environmental values have been impacted; and **v.** determine whether further investigation is required to determine the extent of impacts on environmental values and whether any changes to the **groundwater** monitoring program are required for future investigations; and vi. vi. implement any changes to **leachate** control measures required to prevent or minimise impacts on environmental values.
WT7 - 3.2.2	(a) Conduct a review annually of any new registered **groundwater** bores within a 2km radius of the site using the DNRME registered groundwater bore card reports, to identify the presence of any previously undetected shallow **groundwater** aquifers; and (b) Annually assess the suitability of the **groundwater monitoring system** to detect contaminants as a result of site **activities**; and (c) Provide a report demonstrating compliance with the requirements of conditions WT5, WT6 and WT7 to the **administering authority** annually.
WT8 - 3.2.2	All batteries, **liquid** chemicals, fuels, and other **liquid** substances with potential to cause environmental harm must be stored within a **secondary containment system** that is impervious to the materials stored within it, and must be managed to prevent the release of **contaminants** to **waters** or **land**.
WT9 - 3.2.2	For cells receiving **general waste** and septic waste, a liner system must be installed and maintained to: 1. prevent release of contaminants, including **leachate**, to **land** and **waters**; and 2. prevent subsurface migration of landfill gas from the **landfill unit**.
Agency interest: Land	
Condition number	**Condition**
L1 - 3.2.2	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.

L2 - 3.2.2	**Land** that has been **disturbed** for **activities** conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of water, including seepage, released from the site does not cause environmental harm 4. potential for **environmental nuisance** caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the *'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'*
L3 - 3.2.2	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other **contaminants** that may cause environmental harm is likely.
L4 - 3.2.2	The program of post-closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused. The program must include **measures** to: 1. maintain the structural integrity and effectiveness of the final capping system; 2. maintain and operate the **leachate** collection system; 3. maintain the **groundwater monitoring system** and monitor quality of **groundwater** at a frequency sufficient to detect any release of contaminants to **groundwater**; 4. maintain and operate the landfill gas monitoring system; and 5. maintain and operate the landfill gas collection system.
L5 - 3.2.2	A site management plan pursuant to Chapter 7, Part 8, Division 5 of the *Environmental Protection Act 1994* must be developed and provided to the **administering authority** at least 12 months before the expected final receipt of waste in the **landfill unit**. The site management plan must include, but is not to be limited to, the future land use and actions intended to taken for compliance with the closure and post-closure care requirements of this approval.
Agency interest: Noise	
Condition number	**Condition**
N1 - 3.2.2	Other than as permitted within this environmental authority, noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.

Part 4.1: Definitions Applicable Yellowjack Drive

The following definitions are the only applicable to the environmentally relevant activities conducted at the location as described above.

24 hour storm event with an average recurrence interval of 1 in 10 years or **1 in 5 years** means the maximum rainfall depth from a 24 hour duration precipitation event with an average recurrence interval of once in 10 years or 1 in 5 years, respectively. *For example, an Intensity-Frequency-Duration table for a 24 hour duration event with an average recurrence interval of 1 in 10 years, identifies a rainfall intensity of 8.2mm/hour. The rainfall depth for this event is therefore 24 hour x 8.2mm/hour = 196.8mm.*

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

Background bore means **groundwater** monitoring bore, constructed in accordance with the relevant standard, and used to sample **groundwater** from an aquifer the water quality of which may be potentially affected by the **activity**. This may be an **up-gradient bore**, **down-gradient bore** or bore in the same aquifer in a nearby location unaffected by the **activity**.

Clay lined means a landfill lined with compacted clay at least 600 mm thick achieving a maximum permeability of 1 nanometre per second or alternate such as an engineered geosynthetic agreed in writing as equivalent in performance by the **administering authority**.

Double lined means a landfill lined with compacted clay at least 600mm thick achieving a maximum permeability of 1 nanometre per second overlain with 1.5mm **HDPE** synthetic liner or alternate double liner system agreed in writing as equivalent in performance by the **administering authority**.

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

HDPE means high density polyethylene

Landfill facility means land and structures at the site approved used for the disposal of solid waste.

Liquid means any substance that:

1. has an angle of repose of less than five degrees; or
2. becomes free flowing at or below 60 degrees Celsius or when it is transported; or
3. is not generally capable of being picked up by a spade or shovel.

NATA means National Association of Testing Authorities.

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

Release of a contaminant into the environment means to:

(a) deposit, discharge, emit or disturb the **contaminant**
(b) cause or allow the **contaminant** to be deposited, discharged, emitted or disturbed
(c) fail to prevent the **contaminant** from being deposited, discharged emitted or disturbed
(d) allow the **contaminant** to escape
(e) fail to prevent the **contaminant** from escaping.

TCLP means a toxicity characteristic leaching procedure.

Toxic material means:

1. cytotoxic wastes;

2. drugs and poisons as cited in the Standards for Uniform Scheduling of Drugs and Poisons (Schedules 8
3. and 9 drugs as per the Poisons (Health and Drugs) Regulation 1996); and
4. any other material that:
   (a) has contaminant concentrations in the waste exceeding the allowable levels in Table 4 Table - Maximum contaminant levels in soils (in Appendix PA001) and; or
   (b) has leaching contaminant levels in the waste when measured in accordance with toxicity characteristic leaching procedure (**TCLP**), exceeding the concentrations prescribed in Table – Allowable leaching contaminant levels (in Appendix PA002).

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

Waste operations area means the following areas:

1. waste receiving
2. sorting
3. treating
4. recycling
5. disposal.

Part 3.2.3: Barcaldine Landfill

Environmentally relevant activities	Locations
ERA 60 Waste disposal (2)(c) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— more than 5,000t but not more than 10,000t	**Barcaldine Landfill**, Off Landsborough Highway BARCALDINE QLD 4725 – Lot 8 Plan SP243965 and Lot 244 Plan RY201 (Council Reserve) GPS Coordinates: 23°35'24.13"S 144°16'43.02"E.

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

Agency interest: Water	
Condition number	**Condition**
WT1 - 3.2.3	The stormwater runoff from disturbed areas, generated by (up to and including) a **24 hour storm event with an average recurrence interval of 1 in 10 years** must be retained on site or managed to remove contaminants before release.
Agency interest: Land	
Condition number	**Condition**
L1 - 3.2.3	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
L2 - 3.2.3	The program of post-closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused. The program must include measures to: 1. maintain the structural integrity and effectiveness of the final capping system; 2. maintain and operate the **leachate** collection system; 3. maintain the **groundwater monitoring system** and monitor quality of groundwater at a frequency sufficient to detect any release of contaminants to groundwater; 4. maintain and operate the landfill gas monitoring system; and 5. maintain and operate the landfill gas collection system. The program of post-closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused.
L3 - 3.2.3	The holder of this environmental authority must begin closure activities of any landfill unit no later than 28 days after the date on which landfill unit receives the final recorded receipt of wastes.

Part 3.2.4: Muttaburra Sword St Waste Disposal Facility

Environmentally relevant activities	Locations
ERA 60 Waste disposal (2)(a) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— less than 2,000t	**Muttaburra Sword St Waste Disposal Facility** - Sword Street, MUTTABURRA QLD 4726 **–** Lot 55 Plan CM174 (Council Reserve) GPS coordinates: 22°36'6.69"S, 144°31'45.21"E

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

Agency interest: General	
Condition number	**Condition**
G1 - 3.2.4	**Report Submission** Results of all monitoring performed in accordance with this environmental authority must be submitted with the Annual Return.
G2 - 3.2.4	**Design and Operating Criteria** The waste accepted at the landfill facility must be in accordance with the Aramac Shire Council's Waste Acceptance Criteria.
G3 - 3.2.4	**Regulated Waste Acceptance** Regulated waste that can be accepted at the places to which this environmental authority relates is limited to: (a) Asbestos (b) Bacterial sludge (septic tank and sewage) (c) Tyres (d) Batteries (e) Infectious substances (sharps) *NB: Regulated waste should be disposed of correctly or recycled if a recycling option is available.*
Agency interest: Water	
Condition number	**Condition**
WT1 - 3.2.4	**Sediment and Erosion Control** A system of suitable diversion drains or embankments must be constructed and maintained to divert surface waters away from any area of the places to which this environmental authority relates where contact with wastes or contaminants may occur, including but not limited to: active disposal trenches; and areas used for the storage of wastes; and areas previously used for waste disposal.

Agency interest: Land	
Condition number	**Condition**
L1 - 3.2.4	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
L2 - 3.2.4	The program of post-closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused. The program must include measures to: 1. maintain the structural integrity and effectiveness of the final capping system; 2. maintain and operate the **leachate** collection system.
L3 - 3.2.4	The holder of this environmental authority must begin closure activities of any landfill unit no later than 28 days after the date on which landfill unit receives the final recorded receipt of wastes.

Part 3.2.5: Aramac Waste Disposal Facility

Environmentally relevant activities	**Locations**
ERA 60 Waste disposal (2)(a) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— less than 2,000t.	**Aramac Waste Disposal Facility –** Muttaburra Road, ARAMAC QLD 4726 - Lot 42 Plan RY139.

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

Agency interest: Waste	
Condition number	**Condition**
W1 - 3.2.5	**Regulated Waste Acceptance** Regulated waste that can be accepted at the Waste Disposal Facility is limited to: (a) Asbestos (b) Bacterial sludge (septic tank and sewage) (c) Tyres (d) Batteries (e) Infectious substances (sharps) *NB: Regulated waste should be disposed of correctly or recycled if a recycling option is available.*

Part 3.2.6: Jericho General Waste Disposal, Jericho Waste Disposal Facility and Alpha General Waste Disposal

Environmentally relevant activities	Locations
ERA 60 Waste disposal (2)(b) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— 2,000t to 5,000t	Jericho General Waste **Disposal** - Furbers Road, JERICHO QLD 4728 – Lot 16 Plan MX55 (Council Reserve); **Alpha General Waste Disposal** – McKellar Street, ALPHA QLD 4724 – Lot 1 Plan SP110098.
ERA 60 Waste disposal (2)(c) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)— more than 5,000t but not more than 10,000t	Jericho Waste Disposal Facility - Aramac Road, JERICHO QLD 4724 – Lot 1 Plan SP223511.

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

Agency interest: Waste	
Condition number	**Condition**
WT1 - 3.2.6	A **groundwater monitoring system** must: (a) be designed and installed by an **appropriately qualified person(s)** with experience and qualifications in hydrology and **groundwater** monitoring; and (b) include a sufficient number of bores installed at locations and depths which yield representative **groundwater** samples from at least the uppermost aquifer so as to: i. detect any seepage of contaminants to **groundwater** from the site; and ii. establish the quality of **groundwater** affected by any seepage of contaminants; and (c) include monitoring of background **groundwater** quality, with both hydraulically **up-gradient bore(s)** or **background bore(s)** that have not been affected by any release of contaminants to **groundwater** from the **activity and** hydraulically **down gradient bore(s)** of the **activity.**
WT2 - 3.2.6	Locations referred to in condition WT1 - 11 for groundwater monitoring facilities must be given with reference to horizontal co-ordinates of such facilities accurate to 1.0 meter.
WT3 - 3.2.6	The point(s) of compliance referred to in condition WT1 - 11 for the groundwater monitoring system(s) must be situated not more than 150 meters from any landfill unit or the boundary of the landfill facility, whichever is closest.

Agency interest: Waste	
Condition number	**Condition**
L1 - 3.2.6	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
L2 - 3.2.6	The holder of the environmental authority must conduct post closure care of any landfill unit for 30 years or until it can be demonstrated to the administering authority that the site is geotechnically stable and will not release contaminants to the environment. Such care would comprise: (a) maintaining the integrity and effectiveness of any final cover; (b) maintaining and operating the leachate collection system; (c) monitoring ground water quality; (d) maintaining and operating the landfill gas monitoring system.
L3 - 3.2.6	The holder of this environmental authority must begin closure activities of any landfill unit no later than 28 days after the date on which landfill unit receives the final recorded receipt of wastes.
Agency interest: Waste	
Condition number	**Condition**
W1 - 3.2.6	**Design and Operating Criteria** The waste accepted at the landfill facility must be general waste or **limited regulated waste** only.
W2 - 3.2.6	Notwithstanding condition number W1 - 11, the following wastes shall not be deposited at the site: (a) soluble chemical wastes; (b) hazardous wastes; (c) regulated wastes.

Part 3.3: Site Specific Conditions - Extractive and Screeing Activities

Part 3.3.1: General Conditions

Environmentally relevant activities	Locations
ERA 16 Extractive (2)(a) extracting, other than by dredging, in a year, the following quantity of material— 5,000t to 100,000t. ERA 16 Screening (3)(a) screening, in a year, the following quantity of material— 5,000t to 100,000t.	Busthinia Pit, Off Capricorn Highway, BARCALDINE QLD 4725 – Lot 11 Plan EV110
	Newark Pit, Blackall Jericho Road MEXICO – Lot 12 Plan MX32
ERA 16 Extractive (2)(a) extracting, other than by dredging, in a year, the following quantity of material— 5,000t to 100,000t.	Richmond Hills, Unnamed Road, Off Capricorn Highway, BARCALDINE QLD 4725 – Lot 10 Plan EV18
	Marengo, Aramac-Torrens Creek Road, Upper Cornish Creek, ARAMAC QLD 4726 – Lot 2 Plan TL35
	Jabiru, Aramac – Torrens Creek Road, Upper Cornish Creek, ARAMAC QLD 4726 – Lot 3 Plan PL87
	Tancred, Aramac – Torrens Creek Road, Upper Cornish Creek, ARAMAC QLD 4726 – Lot 4 Plan TL34
	Caledonia,"Aramac-Torrens Creek Road, Upper Cornish Creek, ARAMAC QLD 4726 – Lot 1 Plan SP204906
	Rainsby, Aramac – Torrens Creek Road, Upper Cornish Creek, ARAMAC QLD 4726 – Lot 4465 Plan SP276150
	Muttaburra Airport/Aerodrome, MUTTABURRA QLD – Lot 35 Plan CM82; Lat: -22.582700, Long: 144.530000
	Monklands Pit and Shadforth's Pit, Off Hobartville Road, approximately 40km North Northwest of Alpha – Lot 2 Plan SP136836
	Hobartville 1 Pit and Hobartville 2 Pit, Off Hobartville Road, approximately 50km North Northwest of Alpha – Lot 649 Plan SP232649

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

Agency interest: Water	
Condition number	**Condition**
WT1 - 3.3.1	Chemicals and fuels in containers of greater than 15 liters must be stored within a **secondary containment system.**
WT2 - 3.3.1	Stormwater runoff from disturbed areas of the site, generated by (up to and including) a **24 hour storm event with an average recurrence interval of 1 in 5 years** must be retained on site or managed to remove contaminants prior to release.
Agency interest: Land	
Condition number	**Condition**
L1 - 3.3.1	**Land** that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: (a) suitable native species of vegetation for the location are established and sustained for earthen surfaces; (b) potential for erosion is minimised; (c) the quality of water released from the site, including seepage, does not cause environmental harm; (d) potential for environmental nuisance caused by dust is minimised; (e) the water quality of any residual water body does not have potential to cause environmental harm; (f) the final landform is stable and protects public safety.
L2 - 3.3.1	Land areas used for stormwater settling pits must be restored with solid fill upon completion of the operations.
L3 - 3.3.1	Rehabilitation of disturbed areas required under condition L1 – 3.3.1, must take place progressively as works are staged and new extraction areas are commenced.
L4 - 3.3.1	Erosion and sediment control structures must be maintained at all times during the period of rehabilitation and checked, repaired or replaced as required after each rain event.

Part 3.3.2: Hobartville

Environmentally relevant activities	Locations
ERA 16 Extractive (2)(a) extracting, other than by dredging, in a year, the following quantity of material — 5,000t to 100,000t.	Hobartville 1 Pit and Hobartville 2 Pit, Off Hobartville Road, approximately 50km North Northwest of Alpha – Lot 649 Plan SP232649

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

Agency interest: General

Condition number	Condition
G1 - 3.3.2	Any **activity** operating under this environmental authority must not be conducted contrary to any of the following limitations:

Hobartville 2 Pit (Approved Quarry Area)

Pit Size	Approximately 66,000m^2	
Grid References	**Latitude**	**Longitude**
A	-23.31036	146.52749
B	-23.31034	146.52885
C	-23.31472	146.52875
D	-23.31470	146.52744

Hobartville 1 Pit (Approved Quarry Area)

Pit Size	Approximately 294,000m^2	
Grid References	**Latitude**	**Longitude**
A	-23.205909	146.503405
B	-23.206179	146.509220
C	-23.210398	146.509276
D	-23.210370	146.503317

G2 - 3.3.2	**General Operating times** Notwithstanding any other condition of this environmental authority, no operation in association with the approved activities involving the movement of equipment, loading of vehicles or movement of vehicles onto or off the approved place shall be carried out: (a) outside the hours of 6am to 6pm Mondays to Sundays inclusive; and (b) Public Holidays.
G3 - 3.3.2	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a **complaint** not considered by the **administering authority** to be frivolous or vexatious, of **environmental nuisance** arising from the **activity**. The monitoring results must be provided to the **administering authority** upon request.

Agency interest: Air	
Condition number	**Condition**
A1 - 3.3.2	Dust and particulate matter emissions must not exceed the following concentrations at any **sensitive place** or **commercial place**: (a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions), or (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, when monitored in accordance with Australian Standard AS 3580.9.6 (or more recent editions) or any other method approved by the administering authority.

Part 3.3.3: Monklands

Environmentally relevant activities	**Locations**
ERA 16 Extractive (2)(a) extracting, other than by dredging, in a year, the following quantity of material—5,000t to 100,000t.	Monklands Pit and Shadforth's Pit, Off Hobartville Road, approximately 40km North Northwest of Alpha - Lot 2 Plan SP136836

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

Agency interest: General	
Condition number	**Condition**
G1 - 3.3.3	Any **activity** operating under this environmental authority must not be conducted contrary to any of the following limitations: **Shadforth's Pit (Approved Quarry Area)**

Pit Size	**Approximately 135,700m^2**	
Grid References	**Latitude**	**Longitude**
A	-23.34629	146.54508
B	-23.34624	146.54929
C	-23.35037	146.54925
D	-23.35043	146.54771

Monklands Pit (Approved Quarry Area)

Pit Size	**Approximately 218,000m^2**	
Grid References	**Latitude**	**Longitude**
A	-23.35105	146.51515
B	-23.35262	146.51704
C	-23.35424	146.51709
D	-23.35421	146.52009

	E	-23.34818	146.52071
G2 - 3.3.3	**General Operating times** Notwithstanding any other condition of this environmental authority, no operation in association with the approved activities involving the movement of equipment, loading of vehicles or movement of vehicles onto or off the approved place shall be carried out: (a) outside the hours of 6am to 6pm Mondays to Sundays inclusive; and (b) Public Holidays.		
G3 - 3.3.3	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a **complaint** not considered by the **administering authority** to be frivolous or vexatious, of **environmental nuisance** arising from the **activity**. The monitoring results must be provided to the **administering authority** upon request.		
Agency interest: Air			
Condition number	**Condition**		
A1 - 3.3.3	Dust and particulate matter emissions must not exceed the following concentrations at any **sensitive place** or **commercial place**: (a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions), or (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, when monitored in accordance with Australian Standard AS 3580.9.6 (or more recent editions) or any other method approved by the administering authority.		

Part 4: Definitions

Part 4.1: Definitions Applicable to All Sites

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

Activity means an environmentally relevant activity or associated auxiliary activity to which this approval relates.

Administering authority means the Department of the Environment, Tourism, Science and Innovation or its successors or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills and experience relevant to the EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirement using the relevant protocols, standards, methods or literature.

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

Background bore means **groundwater** monitoring bore, constructed in accordance with the "Minimum *standards for the construction and reconditioning of water bores that intersect the sediments of artesian basins* in Queensland", and used to sample **groundwater** from an aquifer the water quality of which may be potentially affected by the **activity**. This may be an **up-gradient bore, down-gradient bore** or bore in the same aquifer in a nearby location unaffected by the **activity**.

Boundary means within 1m of the cadastral **boundary** of the approved place.

Clinical waste means as defined under the Waste Reduction and Recycling Regulation 2011 or any superseded version.

Commercial place means a place 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 includes areas:

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

General waste means waste other than regulated waste.

Environmental nuisance as defined in Chapter 1 of the *Environmental Protection Act 1994*.

Environmental value as defined in Chapter 1 of the *Environmental Protection Act 1994*.

Financial assurance as defined in Chapter 5 of the *Environmental Protection Act 1994*.

General waste means waste other than regulated waste.

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

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

Land does not include **waters**.

Landfill unit means a discrete area of land or an excavation that receives solid waste.

Leachate means a **liquid** that has passed through or emerged from, or is likely to have passed through or emerged from, a material stored, processed or disposed of at the site that contains soluble, suspended or miscible contaminants likely to have been derived from the said material.

Limited Regulated Waste means any of the following types of regulated waste—

a) animal effluent and residues, including abattoir effluent and poultry and fish processing waste;
b) asbestos;
c) food processing waste;
d) quarantine waste that has been rendered non-infectious;
e) sewage sludge or residue produced in carrying out an activity to which schedule 2, section 63 applies;
f) treated clinical waste;
g) tyres.

Liquid means any substance that:

a) has an angle of repose of less than five degrees; or
b) becomes free flowing at or below 60 degrees Celsius or when it is transported; or
c) is not generally capable of being picked up by a spade or shovel.

Measures have the broadest interpretation and includes plant, equipment, physical objects, monitoring, procedures, actions, directions and competency.

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

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

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, groundwater, or surface waters.

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

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public park or garden; or
7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 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 groundwater and any part thereof.

You means the holder of the environmental authority.

Part 4.2: Definitions Applicable to All Sites Except Yellowjack Drive

Environmentally relevant activities	Locations
ERA 60 Waste disposal (1)(a) operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a)— less than 50,000t	100 Yellowjack Drive, Barcaldine; Lot 1 Plan SP223525

The following definitions are applicable to all sites however are not applicable to the environmentally relevant activities conducted at the location as described above.

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

Incompatible waste means waste that may chemically react when:
1. placed in proximity to other wastes; and/or
2. mixed with other wastes.

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

Limited Regulated Waste means any of the following types of regulated waste—
a) animal effluent and residues, including abattoir effluent and poultry and fish processing waste;
b) asbestos;
c) food processing waste;
d) quarantine waste that has been rendered non-infectious;
e) sewage sludge or residue produced in carrying out an activity to which schedule 2, section 63 applies;
f) treated clinical waste;
g) tyres.

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

Median means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.

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 –
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 public park or gardens.

mg/l means milligrams per litre.

Long term 80- percentile compliance means that not more than one (4) of the measured values of the quality characteristic are to exceed the stated release limit for any four (12) consecutive samples where:
(i) the consecutive samples are taken over a one year period;
(ii) the consecutive samples are taken at approximately equal periods; and
(iii) the time interval between the taking of each consecutive sample is not less than 28 days.

Range means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated.

Regulated Waste is waste that—
a) is commercial or industrial waste, whether or not it has been immobilised or treated; and
b) is of a type, or contains a constituent of a type, mentioned in schedule 7, part 1 of the *Environmental a. Protection Act 1994*.
Waste prescribed as above includes—
a) for an element—any chemical compound containing the element; and
b) anything that contains residues of the waste.
However, waste is not ***regulated waste*** if it is mentioned in schedule 7, part 2 of the *Environmental Protection Act 1994*.

Waste operations area means the following areas:
1. waste receiving
2. sorting
3. treating
4. recycling
5. disposal.

24 hour storm event with an average recurrence interval of 1 in 10 years means the maximum rainfall depth from a 24 hour duration precipitation event with an average recurrence interval of once in 10 years. *For example, an Intensity-Frequency-Duration table for a 24 hour duration event with an average recurrence interval of 1 in 10 years, identifies a rainfall intensity of 8.2mm/hour. The rainfall depth for this event is therefore 24 hour x8.2mm/hour = 196.8mm.*

Park 5: Appendices

Part 5.1 - Appendix 1

Table 1: Maximum contaminant levels in soils

Contaminant	Maximum contaminant level for **clay lined** landfills (mg/kg)	Maximum contaminant level for **double lined** landfills (mg/kg)
Monocyclic aromatic hydrocarbons (MAH)		
Benzene	10	20
Ethyl Benzene	500	1,000
Toluene	300	600
Xylene	250	500
Total MAH	500	1,000
Polycyclic aromatic hydrocarbons (PAH)		
Total PAH	500	1,000
Phenolic contaminants		
Non halogenated compounds:		
Phenol	100	250
m-cresol	250	500
o-cresol	250	500
p-cresol	250	500
Total non halogenated phenol	250	500
Halogenated phenol		
Chlorophenol	1	5
Pentachlorophenol	5	20
Trichlorophenol	5	20
Total halogenated phenol	5	20
Chlorinated Hydrocarbons		
Chlorinated aliphatic compounds:		
Carbon tetrachloride	5	10
1,2 Dichloroethane	10	20
1,1 Dichloroethene	1	1
Tetrachloroethene	10	20
Trichloroethene	25	25
Total chlorinated aliphatic compounds	50	50
Chlorinated aromatic compounds:		
Chlorobenzene	100	200
Hexachlorobenzene	1	1

Contaminant	Maximum contaminant level for **clay lined** landfills (mg/kg)	Maximum contaminant level for **double lined** landfills (mg/kg)
Total chlorinated aromatic compounds	100	200
Non scheduled solid polychlorinated biphenyls (PCBs)	2	50
Pesticides		
Total organochlorine	5	50
Total herbicides	25	50
Total carbamates	25	50
Total organophosphorus	10	50
Petroleum hydrocarbons		
Total petroleum hydrocarbons (C_6-C_9)	500	1,000
Total petroleum hydrocarbons (C_{10}-C_{14})	5,000	10,000
Total petroleum hydrocarbons (C_{15}-C_{28})	10,000	50,000
Total petroleum hydrocarbons (C_{29}-C_{36})	10,000	50,000

Table 2: Allowable leaching contaminant levels

Contaminant	Allowable leaching contaminant levels (**TCLP***) for **clay lined** landfills (mg/l)	Allowable leaching contaminant levels (**TCLP**) for **double lined** landfills (mg/l)
Non specific contaminants		
Biochemical oxygen demand	20,000	20,000
Total organic carbon	10,000	10,000
Petroleum hydrocarbons	25	50
Metals/non-metals		
Antimony	0.5	5
Arsenic	0.5	5
Barium	10	100
Cadmium	0.05	0.5
Chromium	0.5	5
Cobalt	0.5	5
Copper	10	100
Lead	0.5	5
Mercury	0.01	0.1
Molybdenum	0.1	5
Nickel	0.5	5

Contaminant	Allowable leaching contaminant levels (**TCLP***) for **clay lined** landfills (mg/l)	Allowable leaching contaminant levels (**TCLP**) for **double lined** landfills (mg/l)
Selenium	0.1	1
Silver	0.5	5
Thallium	0.1	1
Tin	0.3	3
Vanadium	0.5	5
Zinc	50	500
Inorganic anions		
Bromide	5	50
Chloride	6,000	6,000
Cyanide (total)	1	5
Fluoride	15	150
Nitrate	100	1,000
Sulphate	2,500	4,000
Monocyclic aromatic hydrocarbon (MAH)		
Benzene	0.1	1
Ethyl benzene	5	50
Toluene	3	30
Xylene	2	20
Total MAH	5	50
Polycyclic aromatic hydrocarbons (PAH)		
Anthracene	0.07	0.7
Benz (a) anthracene	0.005	0.05
Benz (c) phenanthrene	0.005	0.05
Benzo (a) pyrene	0.002	0.02
Benzo (b) fluoranthene	0.005	0.05
Benzo (k) fluoranthene	0.005	0.05
Chrysene	0.01	0.1
Dibenz (a,h) anthracene	0.002	0.02
Dibenz (a,h) pyrene	0.01	0.1
Dimethylbenz (a) anthracene	0.005	0.05
Fluoranthene	0.02	0.2
Indeno (1,2,3-cd) pyrene	0.01	0.1
Naphthalene	0.07	0.7

Contaminant	Allowable leaching contaminant levels (**TCLP***) for **clay lined** landfills (mg/l)	Allowable leaching contaminant levels (**TCLP**) for **double lined** landfills (mg/l)
Phenanthrene	0.01	0.1
Pyrene	0.07	0.7
Total PAH	0.1	1
Phenolic contaminants		
Non halogenated compounds:		
Phenol	1	10
m-cresol	2	20
o-cresol	2	20
p-cresol	2	20
Halogenated phenols		
Chlorophenol	0.01	0.1
Pentachlorophenol	0.1	1
Trichlorophenol	0.1	1
Chlorinated hydrocarbons		
Chlorinated aliphatic compounds		
Carbon tetrachloride	0.03	0.3
1,2 Dichloroethane	0.1	1
1,1 Dichloroethene	0.003	0.03
Tetrachloroethene	0.1	1
Trichloroethene	0.3	3
Chlorinated aromatic compounds		
Chlorobenzene (total)	1	10
Hexachlorobenzene	0.002	0.02
Pesticides		
Organochlorine		
Aldrin	0.001	0.01
Chlordane	0.006	0.06
Chlorpyrifos	0.01	0.03
Dieldrin	0.001	0.01
DDT	0.003	0.03
Endrin	0.001	0.01
Heptachlor	0.003	0.03
Lindane	0.1	1

Contaminant	Allowable leaching contaminant levels (**TCLP***) for **clay lined** landfills (mg/l)	Allowable leaching contaminant levels (**TCLP**) for **double lined** landfills (mg/l)
Methoxychlor	0.1	1
Toxaphene	0.005	0.05
Herbicides		
2,4-D	0.1	1
2,4-DB	0.2	2
2,4,5 -T	0.002	0.02
MCPA	0.2	2
Carbamates:		
Carbaryl	0.06	0.6
Carbofuran	0.03	0.3
Organophosphoru		
Diazinon	0.01	0.1
Methyl Parathion	0.006	0.06
Parathion	0.03	0.3
Triazines:		
Atrazine	0.01	0.03
Simazine	0.01	0.03
Fluorinated organic compounds		
Total fluorinated organic compounds (if leachate reused on or off-site)	0.0003	0.0003
Total fluorinated organic compounds (if leachate not reused on or off-site)	0.05	0.05
For any waste or soil contaminated by radioactive material, the gross alpha and gross beta activity concentration in the Toxicity Characteristic Leaching Procedure (**TCLP**) extracts from the material are no more than 100 times the concentrations for the screening of gross alpha and gross beta activity concentrations specified in the National Health and Medical Research Council (NHMRC) Australian Drinking Water Guidelines, 2011.		

*Allowable leaching levels to be determined using the **TCLP** procedure mentioned in United States Environmental Protection Agency (EPA), Washington DC (2008) "Test methods for evaluating solid waste, physical/chemical methods" Document number SW 846. 3rd Edition or more recent editions or supplement to that procedure as they become available.

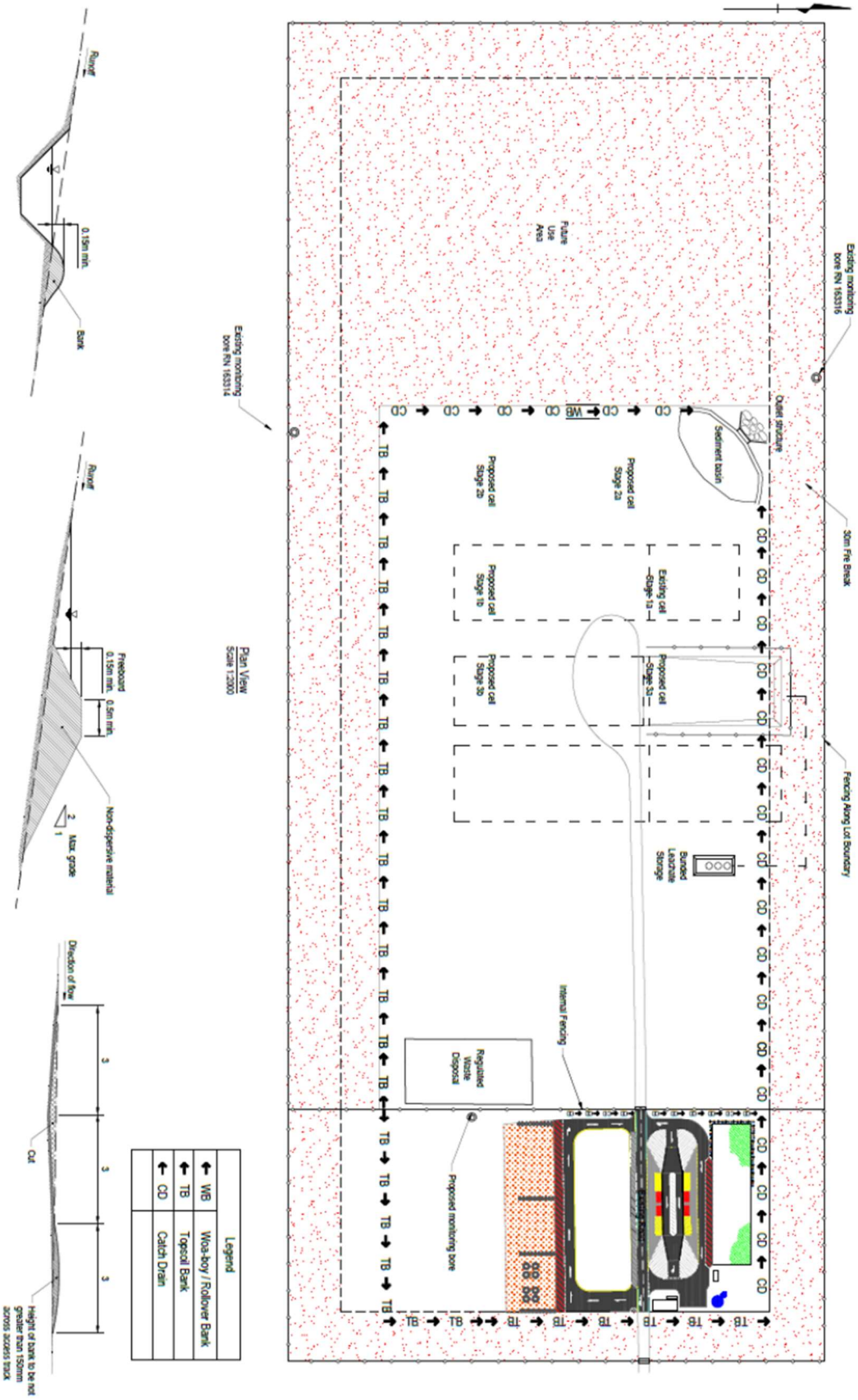
Table 3: Maximum total contaminant levels in soils used as cover material (note: this material is not suitable for final capping)

Contaminant	Maximum total contaminant levels in soils used as cover material (mg/kg)
Arsenic (total)	200
Beryllium	40
Cadmium	40

Chromium (iii)	240,000
Chromium (vi)	200
Copper	2,000
Lead	600
Manganese	3,000
Mercury (inorganic)	30
Methyl Mercury	20
Nickel	600
Zinc	14,000
PFOS (Perfluoro-octane sulfonate)	6
PFOA (Perfluoro-octanoic acid)	16
Total fluorinated organic compounds	10 (not including PFOS & PFOA)

Part 5.2 - Appendix 2

Site Plan



Attachments

- Eligibility criteria and standard conditions for extracting material (ERA 16) – Version 2.
- Eligibility criteria and standard conditions for screening (5000 tonnes to 100,000 tonnes of material in a year) (ERA 16) – Version 2.
- Code of environmental compliance ERA 16 – Extractive and screening activities. Superseded code of environmental compliance for certain aspects* of extractive and screening activities (ERA 16) – Version 6.
- Code of environmental compliance for certain aspects* of regulated waste transport (ERA 57) – Version 4.

END OF ENVIRONMENTAL AUTHORITY