Permit[1]

Environmental Protection Act 1994

Environmental authority EPPR00745013

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

Permit[1] number: EPPR00745013

Environmental authority takes effect: 23 January 2015

The anniversary of this environmental authority is 7 February.

Environmental authority holder(s)

Name	Registered address
Adani Mining Pty Ltd	Level 25, AMP Place 10 Eagle Street Brisbane Qld 4000

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
Environmental Protection Regulation 2008, Schedule 2A: ERA 9 – a mining activity involving drilling, costeaning, pitting or carrying out geological surveys causing significant disturbance *Environmental Protection Regulation 2008, Schedule 2:* ERA 8 Chemical storage – Threshold 1 storing a total of 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 in containers of at least 10m^3. ERA 63 Sewage treatment – Threshold 1 operating sewage treatment works, other than no-release works, with a total daily peak design capacity of – (b) more than 100 but not more than 1500EP – (i) if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme.	EPC1690

[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

Additional information for applicants

Environmentally relevant activities

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

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

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

Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.

Signature	Date
	23 January 2015

Justin Cagney
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Business Centre (Coal)
Department of Environment and Heritage Protection
PO Box 3028
EMERALD QLD 4720
Phone: (07) 4987 9320
Email: CRMining@ehp.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); and
- Offence to place contaminant where environmental harm or nuisance may be caused (section 443).

Conditions of environmental authority

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**
A1	Provide a financial assurance in the amount and form required by the administering authority within **three (3)** months of the granting of this environmental authority.
A2	The financial assurance is to remain in force until the administering authority is satisfied that no claim on the assurance is likely. *NOTE: Where progressive rehabilitation is completed and acceptable to the administering authority, progressive reductions to the amount of financial assurance will be applicable where rehabilitation has been completed in accordance with the acceptance criteria defined within this environmental authority.*
A3	The conditions of this environmental authority are in force until a surrender of the authority is accepted pursuant to the *Environmental Protection Act 1994*. The conditions apply unless an amendment is approved pursuant to the *Environmental Protection Act 1994*.
A4	The environmental authority holder must develop and implement during the continuation of this authority, a program to ensure that all employees and contractors on site are aware of and comply with the relevant requirements of this authority.
A5	If there is any inconsistency between a standard environmental condition referred to in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586) and an additional condition in this environmental authority, the additional condition prevails to the extent of any inconsistency.

A6	Words and phrases used throughout this environmental authority are defined in the Definitions section of this authority. Where a definition for a term used in this environmental authority is sought and the term is not defined within this environmental authority, the definitions in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586) and the definitions in the *Environmental Protection Act 1994,* its regulations and policies must be used.
A7	Contaminants must not be released to the receiving environment unless they are in accordance with the contaminant limits authorised by this environmental authority.
A8	This environmental authority does not authorise environmental harm unless a condition contained within the authority explicitly authorises that harm. Where there is no condition or the authority is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.
A9	Mining activities undertaken must be consistent with the *"Adani Mining Pty Ltd Environmental Management Plan Exploration Permit for Coal (EPC) 1690, September 2013"* (Adani EMP) unless otherwise stated by a condition of this environmental authority.
A10	The environmental authority holder must: a) Install all measures, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and b) Maintain such measures, plant and equipment in a proper condition; and c) Operate such measures, plant and equipment in a proper manner.
A11	The environmental authority holder must comply with each of the 'Monitoring, Reporting and Emergency Response Procedures' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
A12	All reasonable actions are to be taken to minimise environmental harm, or potential environmental harm, resulting from any emergency, incident or circumstances not in accordance with the conditions of this environmental authority.
A13	The holder must notify the administering authority by written notification as soon as practicable but within **twenty-four (24) hours** after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance, with the conditions of this environmental authority.

A14	The notification in **Condition A13** must include, but not be limited to, the following: a) The environmental authority number and name of the holder; b) The name and telephone number of the designated contact person; c) The location of the emergency or incident; d) The date and time of the emergency or incident; e) The time the holder of the environmental authority became aware of the emergency or incident; f) Where known: i) The estimated quantity and type of substances involved in the emergency or incident; ii) The actual or potential cause of the emergency or incident; iii) A description of the nature and effects of the emergency or incident including environmental risks, and any risks to public health or livestock; g) Any sampling conducted or proposed, relevant to the emergency or incident; h) Immediate actions taken to prevent or mitigate any further environmental harm caused by the emergency or incident; and i) What notification of stakeholders who may be affected by the emergency or incident has occurred or is being undertaken.
A15	As soon as practicable, but not more than **six (6) weeks** following the initial notification of an emergency, incident or information about circumstances which result or may result in environmental harm, environmental monitoring must be performed and written advice must be provided of the results of any such monitoring performed to the administering authority.
A16	The holder must notify, in writing, the occupiers or registered owners of affected land and any other potentially impacted stakeholder as soon as reasonably practicable after becoming aware of any emergency or incident that has the potential to impact on environmental values or breaches any condition of this environmental authority concerning releases of contaminants to the environment.
A17	The notification in **Condition A16** must include the following: a) The location of the emergency or incident; b) The date and time of the emergency or incident; c) The estimated quantity and type of any substances involved in the emergency or incident; d) The potential impacts to environmental values caused by the emergency or incident; and e) Where there is potential impact on livestock or human health, precautionary measures that should be taken.

A18	Record, compile and keep for a minimum of **five (5) years** all monitoring results required by this environmental authority and make available for inspection all or any of these records upon request by the administering authority.
A19	Where monitoring is a requirement of this environmental authority, ensure that a competent person(s) conduct all monitoring.

Agency interest: Air	
Condition number	**Condition**
B1	The environmental authority holder must comply with the 'Air Quality' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
B2	Subject to **Conditions B3** and **B4** of this environmental authority, the release of dust or particulate matter or both resulting from the mining activity must not cause an environmental nuisance, at any sensitive or commercial place.
B3	When requested by the administering authority, dust and particulate monitoring must be undertaken within a reasonable and practicable timeframe nominated by the administering authority to investigate any complaint (which is neither frivolous nor vexatious nor based on mistaken belief in the opinion of the authorised officer) of environmental nuisance at any sensitive or commercial place, and the results must be notified within **fourteen (14) days** to the administering authority following completion of monitoring.

B4	If the environmental authority holder can provide evidence through monitoring that the following limits are not being exceeded then the holder is not in breach of **Condition B1**: a) Dust deposition of 120 milligrams per square metre per day, averaged over one month, when monitored in accordance with AS 3580.10.1 *Methods for sampling and analysis of ambient air - Determination of particulates - Deposited matter - Gravimetric method* of 2003 (or more recent editions); or b) A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM_{10}) suspended in the atmosphere of 50 micrograms per cubic metre over a twenty-four (24) hour averaging time, at a sensitive or commercial place downwind of the operational land, when monitored in accordance with: i. Particulate matter - determination of suspended particulate PM_{10} high-volume sampler with size-selective inlet - Gravimetric method, when monitored in accordance with AS 3580.9.6 *Methods for sampling and analysis of ambient air - Determination of suspended particulate matter - PM (sub) 10 high volume sampler with size-selective inlet - Gravimetric method* of 2003 (or more recent editions); and ii. Any alternative method of sampling PM_{10}, which may be permitted by the *Air Quality Sampling Manual* as published from time to time by the administering authority.
B5	If monitoring indicates exceedence of the relevant limits in **Condition B4**, then the environmental authority holder must: a) Address the complaint including the use of appropriate dispute resolution if required, and b) Immediately implement dust abatement measures so that emissions of dust from the activity do not result in further environmental nuisance.
B6	The release of noxious or offensive odour(s) or any other noxious or offensive airborne contaminant(s) resulting from the mining activity must not cause an environmental nuisance at any nuisance sensitive or commercial place.
B7	When requested by the administering authority odour monitoring must be undertaken within a reasonable and practicable timeframe nominated by the administering authority to investigate any complaint (which is neither frivolous nor vexatious nor based on mistaken belief in the opinion of the authorised officer) of environmental nuisance at any sensitive or commercial place and the results must be notified within **fourteen (14) days** to the administering authority following completion of monitoring.
B8	If the administering authority determines the odour released to constitute an environmental nuisance the environmental authority holder must: a) Address the complaint including the use of appropriate dispute resolution if required; and b) Immediately implement odour abatement measures so that emissions of odour from the activity do not result in further environmental nuisance.

Agency interest: Water	
Condition number	**Condition**
C1	The environmental authority holder must comply with each of the 'Erosion and Sediment Control' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
C2	Contaminants must not be released from the site to any waters or the bed and banks of any waters.

Agency interest: Noise	
Condition number	**Condition**
D1	The environmental authority holder must comply with each of the 'Noise Emissions' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
D2	Subject to **Conditions D3** and **D4** of this environmental authority, noise from the mining activity must not cause an environmental nuisance, at any sensitive or commercial place.
D3	When requested by the administering authority, noise monitoring must be undertaken within a reasonable and practicable timeframe nominated by the administering authority to investigate any complaint (which is neither frivolous nor vexatious nor based on mistaken belief in the opinion of the authorised officer) of environmental nuisance at any sensitive or commercial place, and the results must be notified within **fourteen (14) days** to the administering authority following completion of monitoring.
D4	If the environmental authority holder can provide evidence through monitoring that the limits defined in **Table 1: Noise limits**, are not being exceeded then the holder is not in breach of **Condition D2**. Monitoring must include: a) $L_{A, max\ adj, T}$; b) Relevant background sound level; c) The level and frequency of occurrence of impulsive or tonal noise; d) Atmospheric conditions including wind speed and direction; and e) Location, date and time of recording.

D5	If monitoring indicates exceedence of the limits in **Table 1: Noise limits**, then the environmental authority holder must: a) Address the complaint including the use of appropriate dispute resolution if required; and b) Immediately implement noise abatement measures so that emissions of noise from the activity do not result in further environmental nuisance.
D6	The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's *Noise Measurement Manual.*

Table 1: Noise limits

Noise level dB(A)	**Monday to Sunday (including public holidays)**		
	7am - 6pm	**6pm - 10pm**	**10pm - 7am**
	Noise measured at a 'sensitive or commercial place'		
$L_{A10, adj, 10 mins}$	Background + 5	Background + 5	Background + 3
$L_{A1, adj, 10 mins}$	Background + 10	Background + 10	Background + 5

NOTE: Where "Background" means background sound pressure level measured in accordance with the latest edition of the administering authority's Noise Measurement Manual. Table 1 does not purport to set operating hours for the mining activities.

Agency interest: Land	
Condition number	**Condition**
E1	A Biodiversity Offset Strategy must be developed by an appropriately qualified person prior to the commencement of works which will, or are likely to, cause disturbance to State Significant Biodiversity Values.
E2	The Biodiversity Offset Strategy must: a) Identify the area of land and the State Significant Biodiversity Values to be impacted; b) Include all the information requirements identified under the Queensland Biodiversity Offset Policy, other than an Offset Area Management Plan; c) Identify the proposed offset method in accordance with the Queensland Biodiversity Offset Policy; and d) Include an ecological equivalence assessment in accordance with the Queensland Biodiversity Offset Policy.
E3	The Biodiversity Offset Strategy must be submitted to the administering authority and approved in writing prior to the commencement of disturbance to State Significant Biodiversity Values.

E4	The holder of the environmental authority must provide an identification of the proposed offset area to be legally secured and an offset area management plan to the administering authority and approved in writing.
E5	The offset area management plan required under **Condition E4** must contain the following information: a) A map (preferably digital) that clearly identifies the proposed offset area with Global Positioning System (GPS) points, including any areas subject to specific management actions; b) The proposed clearing regional ecosystem/s and essential habitat, and those on the proposed offset area; c) The ecological equivalence assessment of the offset area and the date it was undertaken; d) The offset area management objectives and outcomes; e) Activities that will be undertaken to achieve the management objectives and outcomes; f) Restrictions imposed on the use of the offset area to achieve the management objectives and outcomes; g) An analysis of the risks to achieving the management objectives and outcomes, actions to minimise the risks and remedial action that will be undertaken if any of the risks occur; h) A yearly schedule of management actions, to ensure achievement of the management objectives and outcomes; i) A monitoring and reporting program; j) The estimated time until the offset management objectives and outcomes will be achieved; and k) Identification of all registered interests including mortgages, leases, subleases, covenants, profit, a prendre, easements and building management statements, that have been registered on title under the *Land Act 1994* or the *Land Title Act 1994*.
E6	Where the approved Biodiversity Offset Strategy proposes to offset impacts to State Significant Biodiversity Values through a legally secured offset, the holder of the environmental authority must provide evidence that a legally secured offset under relevant Queensland legislation for the land identified and approved by the administering authority under condition E4 in accordance with the Queensland Biodiversity Offset Policy by **(Date 12 months from grant of EA)** has been completed.
E7	Land legally secured under **Condition E6** must be managed in accordance with the approved Offset Area Management Plan.
E8	Where the approved Biodiversity Offset Strategy proposed to offset impacts to State Significant Biodiversity Values through an indirect offset, the holder of the environmental authority must provide the indirect offset in accordance with the Queensland Biodiversity Offset Policy by **(Date 12 months from grant of EA)**.

E9	The holder of the environmental authority must provide an offset payment in accordance with the Queensland Biodiversity Offset Policy and **Table 2: Offset Payments** by **(Date 4 months from grant of EA)**.

Table 2: Offset Payments

State Significant Biodiversity Value	Disturbance Amount	Required Offset Payment
Regional Ecosystem 10.7.4	0.9ha	$41,400

E10	Impacts to State Significant Biodiversity Values must only occur in accordance with the approved Biodiversity Offsets Strategy.
E11	The environmental authority holder must comply with each of the 'Land Disturbance' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586), except Condition 2, which is replaced by the conditions of this environmental authority.
E12	The operational area within the drill sites undertaken as part of the exploration drill program must be in accordance with the Adani EMP unless otherwise stated by a condition of this environmental authority.
E13	The environmental authority holder must not undertake mining activities within any Category A Environmentally Sensitive Areas.
E14	The environmental authority holder must not undertake mining activities within 1 kilometre of any Category A Environmentally Sensitive Area.
E15	The environmental authority holder is authorised to undertake the construction of rotary, core, LOX exploration drill holes and access tracks within Category B Environmentally Sensitive Areas and within 500m of Category B Environmentally Sensitive Areas as identified in **Table 3: Category B Disturbance Areas** and the Adani EMP.

Table 3: Category B Disturbance Areas

Activity	Limitation of Activity within Category B Environmentally Sensitive Area	Limitation of Activity within Category B Environmentally Sensitive Area 500m Buffer	Maximum Footprint of Disturbance Permitted for each Activity
Drill holes	3	13	2000m^2 per drill pad
Infrastructure test pits	1	2	150m^2 per hole
LOX holes	10	50	Existing 4.5m wide tracks only
Access tracks	0.43ha	2.79ha	4.5m wide tracks

E16	The construction of sumps and topsoil stripping in conjunction with exploration activities outlined in **Table 3: Category B Disturbance Areas** must be contained within the approved drill pad site and conducted in such a way as to cause minimal disturbance.
E17	The environmental authority holder is authorised to undertake rehabilitation work within Category B Environmentally Sensitive Areas and within 500m of any Category B Environmentally Sensitive Areas as per the rehabilitation requirements of this environmental authority.
E18	The environmental authority holder is authorised to undertake the construction of rotary, core, LOX exploration drill holes and access tracks within Category C Environmentally Sensitive Areas and within 1km of Category C Environmentally Sensitive Areas as identified in **Table 4: Category C Disturbance Areas** and the Adani EMP.

Table 4: Category C Disturbance Areas

Activity	**Limitation of Activity within Category C Environmentally Sensitive Area**	**Limitation of Activity within Category C Environmentally Sensitive Area 1km Buffer**	**Maximum Footprint of Disturbance Permitted**
Drill holes	16	11	2000m^2 per drill pad
LOX holes	13	9	Existing 4.5m wide tracks only
Access tracks	5.40ha	1.94ha	4.5m wide tracks

E19	The construction of sumps and topsoil stripping in conjunction with exploration activities outlined in **Table 4: Category C Disturbance Areas** must be contained within the approved drill pad site and conducted in such a way as to cause minimal disturbance.
E20	The environmental authority holder is authorised to undertake rehabilitation work within Category C Environmentally Sensitive Area, as per the rehabilitation requirements of this environmental authority.
E21	The environmental authority holder is <u>not</u> authorised to undertake 3D seismic survey tracks in, or within, 500m of Category A and within 1km of Category C Environmentally Sensitive Areas.
E22	The environmental authority holder is <u>not</u> authorised to undertake 3D seismic survey tracks in, or within, 500m buffer of Category B Environmentally Sensitive Areas.
E23	The environmental authority holder is authorised to undertake no more than a total of 416ha of disturbance within an overall 3D seismic survey area of 2304ha in accordance with **Attachment 3** of this environmental authority.
E24	The environmental authority holder is permitted to undertake the following activities outside of Category A, B and C Environmentally Sensitive Areas and associated buffer zones as per **Table 5: Category A, B and C Exclusion Disturbance Areas** and the Adani EMP.

Table 5: Category A, B and C Exclusion Disturbance Areas

Activity	Limitation of Activity	Maximum Footprint of Disturbance Permitted
Drill holes	177	2000m^2 per hole
Infrastructure test pits	16	150m^2 per test pit
LOX holes	250	Existing 4.5m wide tracks only
Access Tracks	45.74ha	4.5m wide tracks
Exploration camp site infrastructure	15ha	150,000m^2
Laydown and quarry areas	15ha	150,000m^2

E25	The construction of sumps and topsoil stripping in conjunction with exploration activities outlined in **Table 5: Category A, B and C Exclusion Disturbance Areas** must be contained within the approved drill pad site and conducted in such a way as to cause minimal disturbance.
E26	The environmental authority holder must comply with each of the 'Topsoil and Overburden Management' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
E27	The environmental authority holder must comply with each of the 'Hazardous Contaminants' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
E28	All flammable and combustible liquids must be contained within an on-site containment system and controlled in a manner that prevents environmental harm and maintained in accordance with the current edition of *AS 1940 – Storage and Handling of Flammable and Combustible Liquids*.
E29	Spillage of all flammable and combustible liquids must be controlled in a manner that prevents environmental harm.
E30	All chemicals must be contained within an on-site containment system and controlled in a manner that prevents environmental harm and maintained in accordance with the current version of the relevant Australian Standard.
E31	All explosives, corrosive substances, toxic substances, gases and dangerous goods must be controlled in a manner that prevents environmental harm.
E32	All explosives, corrosive substances, toxic substances, gases and dangerous goods must be stored and handled in accordance with the relevant Australian Standard.

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E33	All chemicals and flammable or combustible liquids stored on site that have the potential to cause environmental harm must be stored in or serviced by an effective containment system that is impervious to the materials stored and managed to prevent the release of liquids to waters or land. Where no relevant Australian Standard is available, the following must be applied: a) Storage tanks must be bunded so that the capacity and construction of the bund is sufficient to contain at least 110% of a single storage tank or 100% of the largest storage tank plus 10% of the second largest storage tank in multiple storage areas, and b) Drum storages must be bunded so that the capacity and construction of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.
E34	Appropriate spill kits, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes, chemicals and flammable and combustible liquids associated with the activity must be kept and maintained at the site.
E35	Anyone operating with wastes, chemicals or flammable and combustible liquids under this approval must be trained in the use of the spill kits.
E36	The environmental authority holder must comply with each of the 'Service, Maintenance and Storage Areas' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*, except Condition 23 and Condition 24 which are replaced by conditions of this environmental authority.
E37	The environmental authority holder must comply with each of the 'Nature Conservation' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586), except Condition 13, which is replaced by conditions of this environmental authority.
E38	The environmental authority holder must maintain existing water troughs for *Poephila cincta* within the mining tenure and repair where necessary troughs, pipes and tanks to a standard that maintains a constant source of water.
E39	Removal of Habitat trees must be avoided and minimised unless no alternative is available.
E40	Trees or shrubs with nests of birds of prey (raptors) whether active or not, or visibly active non-raptor bird nests must be protected.
E41	Trees, shrubs or termite mounds with nests of *Poephila cincta*, whether active or not must be protected.
E42	No clearing of mature trees is authorised except with approval of the administering authority.
E43	Debris from clearing or felling of trees must not accumulate within two (2) metres of any retained tree.

E44	Burning of vegetation is permitted in accordance with a Fire Management Plan prepared by a suitably qualified person.
E45	The environmental authority holder must comply with each of the 'Other Level 2 Environmentally Relevant Activities' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
E46	The environmental authority holder must comply with each of the 'Roads and Tracks' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586), except where permitted under a condition of this environmental authority
E47	All new tracks and roads must be recorded with a Global Positioning System (GPS) and records kept of their location and made available to the administering authority upon request.
E48	Any existing access and fence line tracks must be used, unless otherwise permitted under this environmental authority.
E49	Any new tracks are to be constructed by linking naturally cleared or disturbed areas.
E50	The holder of the environmental authority is authorised to construct tracks and roads as per **Table 6: Tracks and Associated Activities** and as identified in **Attachments 3**, **4** and **5** of this environmental authority.

Table 6: Tracks and Associated Activities

Activity	Disturbance Size
3D Seismic Surveying	A maximum of 4.5m wide per track at 32m spacing intervals
Access Tracks	4.5m wide per track
LOX holes	6.5m wide per track

E51	Track construction involving blade clearing of established ground cover vegetation and/or clearing of mature trees is to be prevented or minimized.
E52	Spacing of tracks must not be less than 350m unless in accordance with the 3D seismic survey operation.
E53	Any new tracks within the Category C Environmentally Sensitive Area (Bygana West Nature Refuge) must only be constructed after written approval is provided by the background landholder. The written approval must be made available to the administering authority upon request.
E54	Roads or tracks are to be constructed, operated, maintained and rehabilitated in a manner that ensures erosion, sedimentation and scalding is minimised within the Category C Environmentally Sensitive Area (Bygana West Nature Refuge).

E55	The environmental authority holder must minimise disturbance within the Category C Environmentally Sensitive Area and avoid clearing of trees when constructing tracks.
E56	The environmental authority holder must minimise disturbance in Category B and within 500m of Category B Environmentally Sensitive Areas and avoid clearing of trees when constructing tracks.
E57	The environmental authority holder must comply with each of the 'Campsites' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
E58	The environmental authority holder must only accommodate up to 400 persons on the campsite as identified in the Adani EMP.
E59	The environmental authority holder must comply with each of the 'Drilling, Excavating and Sampling' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
E60	The environmental authority holder must comply with each of the 'Exploration drill holes' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586)
E61	The environmental authority holder must comply with each of the 'Gridlines and Geophysical Surveys' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
E62	The environmental authority holder is authorised to extract, quarry material from EPC1690.
E63	The only area permitted to be quarried at the approved place under this approval is the area identified in **Table 7: Authorised Quarry Area** and as identified in **Attachment 7**.

Table 7: Authorised Quarry Area

Point	Easting (GDA94)	Northing (GDA94)
1	432586	7561318
2	432611	7561414
3	432485	7561495
4	432464	7561400

E64	Where required the topsoil must be: a) Removed from the activity site prior to the commencement of extraction; b) Stockpiled uncompacted less than 1.5 metres high and in a manner that will preserve its soil profile, biological and chemical integrity; and c) Used for rehabilitation of the activity.

E65	Clearing of vegetation is to be kept to the minimum area necessary to carry out quarry material extraction.
E66	Clearing vegetation must not be undertaken: a) in, or within 100 metres of, the high bank of a watercourse; b) in, or within 100 metres of a wetland or spring; c) in a way that damages adjacent live vegetation; d) on slopes greater than 6o (~10%); or e) on dispersible soils or highly erodible soils.
E67	The environmental authority holder must comply with each of the 'Rehabilitation' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586).
E68	Rehabilitation of areas disturbed by mining activities within any Category B or C Environmentally Sensitive Area or within 500m for Category B or 1km for Category C Environmentally Sensitive Area, must be completed as soon as practicable, but no longer than 3 months after completion of the disturbance activity.
E69	The environmental authority holder must revegetate disturbed areas with native plant species endemic to the area that will promote the same vegetation type and density of cover to that of the surrounding undisturbed areas both in and within 500m for Category B or 1km for Category C Environmentally Sensitive Areas.
E70	The quarry area and campsites must be rehabilitated (including all disturbed areas such as slopes, borrow pits, stockpile and screening areas) in a manner such that: a) Suitable native species of vegetation are planted and established; and b) Potential for erosion of the site is minimised; and c) The quality of stormwater, water and seepage released from the site is such that releases of contaminants such as suspended solids, turbidity, total dissolved salts, pH, total iron, total aluminium and total manganese are not likely to cause environmental harm.
E71	All land subject to mining activities must be rehabilitated to a non-polluting, safe, stable and self-sustaining landform and in accordance with **Table 8: Rehabilitation Schedule**.

Table 8: Rehabilitation Schedule

	Disturbance type				
	Infrastructure and camp(s)	***Road(s) and track(s)***	***Areas within Category B Environmentally Sensitive Areas***	***Areas within 500 metres of any Category B Environmentally Sensitive Area***	***Areas within the Category C Environmentally Sensitive Area***
Tenure ID	EPC1690	EPC1690	EPC1690	EPC1690	EPC1690
Post mine land use	Light intensity grazing	Light intensity grazing	Light intensity grazing with Native Vegetation	Light intensity grazing with Native Vegetation	Native vegetation
Post mine land description	Flat revegetated land	Flat revegetated land	Flat revegetated land	Flat revegetated land	Flat revegetated land – Nature Refuge (Bygana West Nature Refuge)
Post mine land capability classification	VI	VI	VI	VI	VI
Projective cover range (%)	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover[1]	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover[1]	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover[1]	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover[1]	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover[1]
Species mix	Native and other pasture mixtures	Native and other pasture mixtures	Appropriate native vegetation	Appropriate native vegetation	Native vegetation

NOTE[1]. Weediness includes weeds that are declared plants as defined under the *Land Protection (Pest and Stock Route Management) Act 2002.*

E72	An annual report must be prepared each year and submitted with each annual return. The report must include details of exploration activities undertaken and details of progressive rehabilitation works completed to demonstrate compliance with the conditions of this environmental authority.

Agency interest: Waste	
Condition number	**Condition**
F1	The environmental authority holder must comply with each of the 'Waste Management' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* (EM586), except Condition 21, which is replaced by **Condition F2** of this environmental authority.
F2	General or regulated waste must not be disposed of within EPC1690.
F3	Scrap tyres stored awaiting disposal or transport for take-back and recycling, or waste-to-energy options must be stored in stable stacks and at least ten (10) metres from any other waste storage area, or combustible or flammable material, including vegetation.
F4	All reasonable and practicable fire prevention measures must be implemented, including removal of grass and other materials within a ten (10) metre radius of the scrap tyre storage area.
F5	A designated area or storage containers must be set aside for the laydown and segregation of wastes.
F6	All reasonable and practicable fire prevention measures must be implemented, including removal of grass and other materials within a 10m radius of all waste laydown areas.
F7	Waste must not be burned or allowed to be burned on EPC1690 unless by approval of the administering authority.
F8	Waste batteries must be stored: a) In a bunded and roofed area, or b) Palletised and plastic wrapped.
F9	Regulated waste may be temporarily stored on EPC1690 before being directed to a facility that can lawfully accept such waste.
F10	All regulated waste removed from the site must be removed by a person who holds a current approval to transport such waste under the provisions of the *Environmental Protection Act 1994*.

Agency interest: Sewage Treatment	
Condition number	**Condition**
G1	The operation of the sewage treatment plant and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the compliant operation of that treatment system and control equipment.
G2	Pipelines and fittings associated with the sewage treatment plant must be clearly identified. Lockable valves or removable handles must be fitted to all release pipelines situated in public access areas.
G3	Treated effluent from the sewage treatment plant must only be discharged in accordance with the Wastewater Management Plan or from the authorised discharge points, as specified in **Table 9: Effluent Discharge Locations** to the areas shown in **Table 10: Absorption trenches**.

Table 9: Effluent Discharge Locations

Authorised Discharge Points	Location	Latitude (GDA94)	Longitude (GDA94)
Effluent Discharge Point 1	Effluent Storage Tank	-21.9996	146.3753

Table 10: Absorption Trenches

Authorised Discharge Point	Effluent Irrigation Location	Latitude (GDA94)	Longitude (GDA94)
Effluent Discharge Point 1	Absorption Trench 1	-21.9996	146.3748
Effluent Discharge Point 1	Absorption Trench 2	-21.9998	146.3749
Effluent Discharge Point 1	Absorption Trench 3	-21.9996	146.3753
Effluent Discharge Point 1	Absorption Trench 4	-21.9998	146.3726
Effluent Discharge Point 1	Absorption Trench 5	-21.9993	146.3731

G4	Treated effluent must be treated to a minimum of **Class A** water quality and monitored at the frequency outlined in the departmental guideline *'Water Quality Guidelines for Recycled Water Schemes, November 2008'*.
G5	Treated effluent must not be released from the site to any waters or the bed and banks of any waters.
G6	Water or storm water contaminated by sewage treatment activities must not be released to any waters or the bed and banks of any waters.

G7	Notices must be prominently displayed in areas that store and use treated effluent, warning the public that the area is exposed to treated effluent and to not drink the effluent or use the effluent for purposes other than what is intended. These notices must be maintained in a visible and legible condition.
G8	The reuse on land of treated wastewater taken as from the edge of the wetted area, must not be carried out: a) Within twenty (20) m of any boundary of the mining tenure, public road or stormwater drain, except in the case of advanced disinfected effluent applied by either small drip irrigation, subsurface irrigation or small surface sprays with a spray plume not exceeding a diameter of 1.0 m or 0.3 m in height in which case the separation distance is reduced to 2 m; b) In a manner likely to cause effluent runoff or surface ponding; c) Within one-hundred (100) m of any water supply bore; d) In any manner or quantity that causes spray to drift beyond the boundaries of the mining tenure or any runoff of contaminants to any waters or stormwater drain; e) In any manner or quantity that adversely affects soil, vegetation or groundwater quality; f) In any manner likely to adversely affect public health; and g) Such as to cause any exceedence of the Environmental Investigation Thresholds listed in Appendix 9 of the *Guidelines for Assessment and Management of Contaminated Land in Queensland*.
G9	The environmental authority holder must develop and implement a Wastewater Management Plan by **5 May 2013** which addresses the following a) Treated wastewater characteristics and limits in accordance with departmental guideline *'Water Quality Guidelines for Recycled Water Schemes, November 2008'*; b) Efficiency of application; c) Control of sodicity in the soil; d) Minimisation of degradation of soil structure; e) Control of build ups of nutrients and heavy metals in the soil and subsoil from effluent and other sources; f) Preventing impacts on the groundwater resource through infiltration; g) Preventing subterranean flows of effluent to waters; h) Method of application; and i) Health and safety in relation to effluent handling and irrigation.

G10	The application of effluent must be carried out in accordance with the Wastewater Management Plan, such that: a) There is no surface ponding of effluent; b) Soil erosion and soil structure damage is avoided; c) Percolation of effluent beyond the plant root zone is minimised; d) The accumulation of nutrients and heavy metals in the soil and subsoil is minimised; and e) The quality of groundwater is not adversely affected.
G11	The daily volume of contaminants released to land must be determined or estimated by an appropriate method, (such as a flow meter), and records kept of such determinations and estimates.
G12	When conditions prevent the release of treated effluent to the designated absorption trenches or in accordance with the Wastewater Management Plan (such as during or following rain events), the contaminants must be directed to a wet weather storage or alternative measures must be taken to store/lawfully dispose of effluent (such as wet weather storage or tanking off site to another treatment plant or sewer). A record must be kept of any removal or storage off site, including destination, transporter, dates and volumes.
G13	A record of the removal of treated effluent or solids from site must be kept detailing the following information: a) Date of pickup of treated effluent or solids; b) Volume of treated effluent or solids removed from the site; c) Destination of the treated effluent or solids; and d) The transporter.
G14	If the responsibility of the treated effluent is given or transferred to another person: a) The responsibility of such effluent must only be given or transferred in accordance with a written agreement (the third party agreement); b) Include in the third party agreement a commitment from the person utilising the effluent to use effluent in such a way as to prevent environmental harm or public health incidences and specifically make the persons aware of the General Environmental Duty (GED) under section 319 of the *Environmental Protection Act 1994*, environmental sustainability of any effluent disposal and protection of environmental values of waters; and c) Upon being notified or otherwise becoming aware that the person's use of effluent is causing or threatens to cause environmental harm or is posing a human health risk, and if the person does not rectify the situation upon written request, the giving and transferring responsibility for such effluent must cease.

Agency interest: Water Storages	
Condition number	**Condition**
H1	The holder of this environmental authority must ensure that all dams listed in **Table 11: Location of Raw Water dams** must not contain mine affected water.
H2	The holder of this environmental authority is permitted to utilise and maintain for the purpose of exploration activities within EPC1690 dams described in **Table 11: Location of Raw Water dams** and the Adani EMP.

Table 11: Location of Raw Water dams

Dam Name	Easting GDA94 (z55)	Northing GDA94 (z55)
10 Mile Dam	431119	7568220
No 2 Dam	429117	7572108
Swamp Dam	437289	7556159
Four Mile Dam	436022	7560877
Bushy's Dam	439768	7553077
Matheson's Dam	435264	7563522

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.

"appropriately qualified person" means a person who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis on performance relative to the subject matter using the relevant protocols, standards, methods or literature.

"artesian bore" includes a shaft, well, gallery, spear or excavation, and any works constructed in connection with the shaft well, gallery, spear or excavation, that taps an aquifer and the water flows, or has flowed, naturally to the surface.

"authority" means environmental authority (mining activities) under the *Environmental Protection Act 1994*.

"borehole" means either an artesian bore or a subartesian bore.

"**bed and banks**" for a waters, river, creek, stream, lake, lagoon, pond, swamp, wetland or dam means land over which the water of the waters, lake, lagoon, pond, swamp, wetland or dam normally flows or that is normally covered by the water, whether permanently or intermittently; but does not include land adjoining or adjacent to the bed and banks that is from time to time covered by floodwater.

"campsite" The area encompassing any dwelling, amenities (e.g. toilet block, power generator), sewage or general waste disposal facility and includes the office area and vehicle parking areas associated with a temporary or permanent mining camp.

"**chemical**" means –

a) an agricultural chemical product or veterinary chemical product within the meaning of the *Agricultural and Veterinary Chemicals Code Act 1994* (Commonwealth); or
b) a dangerous good under the dangerous goods code; or
c) a lead hazardous substance within the meaning of the *Workplace Health and Safety Regulation 1997*; or
d) a drug or poison in the *Standard for the Uniform Scheduling of Drugs and Poisons* prepared by the Australian Health Ministers' Advisory Council and published by the Commonwealth; or
e) any substance used as, or intended for use as –
    i. a pesticide, insecticide, fungicide, herbicide, rodenticide, nematocide, miticide, fumigant or related product; or
    ii. a surface active agent, including, for example, soap or related detergent; or
    iii. a paint solvent, pigment, dye, printing ink, industrial polish, adhesive, sealant, food additive, bleach, sanitiser, disinfectant, or biocide; or
    iv. a fertiliser for agricultural, horticultural or garden use; or
f) a substance used for, or intended for use for –
    i. mineral processing or treatment of metal, pulp and paper, textile, timber, water or wastewater; or
    ii. manufacture of plastic or synthetic rubber.

"**competent person**" means a person with the demonstrated skill and knowledge required to carry out the task to a standard necessary for the reliance upon collected data or protection of the environment.

"costeaning" The digging of a trench or pit across the seam or ore body for exposing, sampling and mapping of the ore body.

"**contaminate**" means to render impure by contact or mixture.

"**contaminated**" means the substance has come into contact with a contaminant.

"**contaminant**" A contaminant can be –

a) a gas, liquid or solid; or
b) an odour; or
c) an organism (whether alive or dead), including a virus; or
d) energy, including noise, heat, radioactivity and electromagnetic radiation; or
e) a combination of contaminants.

"dam" means a land-based structure or a void that contains, diverts or controls flowable substances, and includes any substances that are thereby contained, diverted or controlled by that land-based structure or void and **associated works**. A dam does *not* mean a fabricated or manufactured tank or container, designed and constructed to an Australian Standard that deals with strength and structural integrity of that tank or container.

"density of cover" In reference to trees and/or shrubs, it means the number of trees or shrubs in a specified area (e.g. 50 trees per square kilometre). With reference to understorey plant species (e.g. grasses and forbs), it means the percentage of surface area covered by a particular species.

"disturbed" Any area that has had its natural state altered by the action or interference of carrying out an activity associated with the exploration project.

"**effluent**" treated waste water discharged from sewage treatment plants.

"endangered regional ecosystem" means a regional ecosystem identified as endangered in the database maintained by the administering authority called 'Regional ecosystem description database' containing regional ecosystem numbers and descriptions.

"environmental authority" means a licence or approval issued by the administrating authority under the *Environmental Protection Act 1994*.

"environmental authority holder" means the holder of this environmental authority.

"environmentally Sensitive Areas" refers to locations, however large or small, that have environmental values that contribute to maintaining biological diversity and integrity, have intrinsic or attributed scientific, historical or cultural heritage value, or are important in providing amenity, harmony or sense of community. Refer to Appendix A of Code of Environmental Compliance for Exploration and Mineral Development Projects.

"financial assurance" means a security deposit, either cash or a bank guarantee, that is held by the administrating authority to cover the potential:

a) costs to rehabilitate areas disturbed by mining activities; and
b) costs to restore property improvements disturbed by mining activities; and
c) failure of the tenure holder to pay rents and royalties.

"general waste" Schedule 9 of the *Environmental Protection Regulation 1998* defines general waste as "means waste other than regulated waste". Waste rock, overburden and the contents of tailings dams are not included in the definition of general waste for the purposes of these conditions.

"holder" means:

a) where this document is an environmental authority, any person who is the holder of, or is acting under, that environmental authority; or
b) where this document is a development approval, any person who is the registered operator for that development approval.

"**infrastructure**" means water storage dams, roads and tracks, buildings and other structures built for the purpose of mining activities but does not include other facilities required for the long term management of mining impacts or the protection of potential resources. Such other facilities include dams, waste rock dumps, voids, or ore stockpiles and buildings as well as other structures whose ownership can be transferred and which have a residual beneficial use for the next owner of the operational land or the background land owner.

"$L_{A\ 10,\ adj,\ 10\ mins}$" means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10-minute measurement period, using Fast response.

"$L_{A\ 1,\ adj,\ 10\ mins}$" means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10-minute measurement period, using Fast response.

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

"mature tree" means a tree with a trunk diameter greater than 300mm at chest height.

"**mg/L**" means milligrams per litre.

"mine affected water"—the following types of water:

i) pit water, tailings dam water, processing plant water;
ii) water contaminated by a mining activity which would have been an environmentally relevant activity under Schedule 2A of the *Environmental Protection Regulation 2008* if it had not formed part of the mining activity;
iii) rainfall runoff which has been in contact with any areas disturbed by mining activities which have not yet been rehabilitated, excluding rainfall runoff discharging through release points associated with erosion and sediment control structures that have been installed in accordance with the standards and requirements of an Erosion and Sediment Control Plan to manage runoff containing sediment only, provided that this water has not been mixed with pit water, tailings dam water, processing plant water or workshop water;
iv) groundwater which has been in contact with any areas disturbed by mining activities which have not yet been rehabilitated;
v) groundwater from the mine's dewatering activities;
vi) a mix of mine affected water (under any of paragraphs i)-v)) and other water.

"native vegetation" Vegetation that occurs naturally in a certain area.

"**progressive rehabilitation**" means rehabilitation (defined below) undertaken progressively or a staged approach to rehabilitation as mining operations are ongoing.

"**recycled water**" means appropriately treated effluent and urban stormwater suitable for further use.

"rehabilitation processes" The measures and actions taken to achieve rehabilitation outcomes, including any or all of the following:

- removing all unwanted infrastructure;
- backfilling mine excavations (e.g. pits) and capping drill holes;
- reshaping the land surface to a stable landform similar to that of surrounding
- undisturbed areas;
- spreading of topsoil;
- spreading seed or planting seedlings to promote revegetation;
- benching ridge cuts and removing any overhanging material.

"significantly disturbed land" Land is significantly disturbed if –
(a) it is contaminated land; or
(b) it has been disturbed and human intervention is needed to rehabilitate it.
Significantly disturbed land includes:

- areas where soil has been compacted, removed, covered, exposed or stockpiled;
- areas where vegetation has been removed or destroyed to an extent where the land has been made susceptible to erosion; (vegetation & topsoil)
- areas where land use suitability or capability has been diminished;
- areas within a watercourse, waterway, wetland or lake where mining project activities occur;
- areas submerged by tailings or hazardous contaminant storage and dam walls in all cases;
- areas under temporary infrastructure. Temporary infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dams, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc) which is to be removed after mining has ceased; or
- areas where land has been contaminated.

However, the following areas are not included:

- areas off lease (e.g. roads or tracks which provide access to the mining lease);
- areas previously significantly disturbed which have achieved the rehabilitation outcomes;
- by agreement with the EPA, areas previously significantly disturbed which have not achieved the rehabilitation objectives due to circumstances beyond the control of the mine operator (such as climatic conditions);
- areas under permanent infrastructure. Permanent infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dams, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc) which is to be left by agreement with the landowner. The agreement to leave permanent infrastructure must be
- recorded in the Landowner Agreement and lodged with the EPA;
- disturbances that pre-existed the grant of the tenure unless those areas are disturbed during the term of the tenure.

"**stable**" in relation to land, means land form dimensions are or will be stable within tolerable limits now and in the foreseeable future. Stability includes consideration of geotechnical stability, settlement and consolidation allowances, bearing capacity (trafficability), erosion resistance and geochemical stability with respect to seepage, leachate and related contaminant generation.

"standard environmental conditions" For an environmental authority, means the standard environmental conditions approved for the authority under section 549 of the *Environmental Protection Act 1994*.

"subartesian bore" includes a shaft, well, gallery, spear or excavation, and any works constructed in connection with the shaft, well, gallery or excavation, that taps an aquifer and the water does not flow and never has flowed naturally to the surface.

"**waste water**" means used water from the activity, process water or contaminated storm water.

"**water**" means –

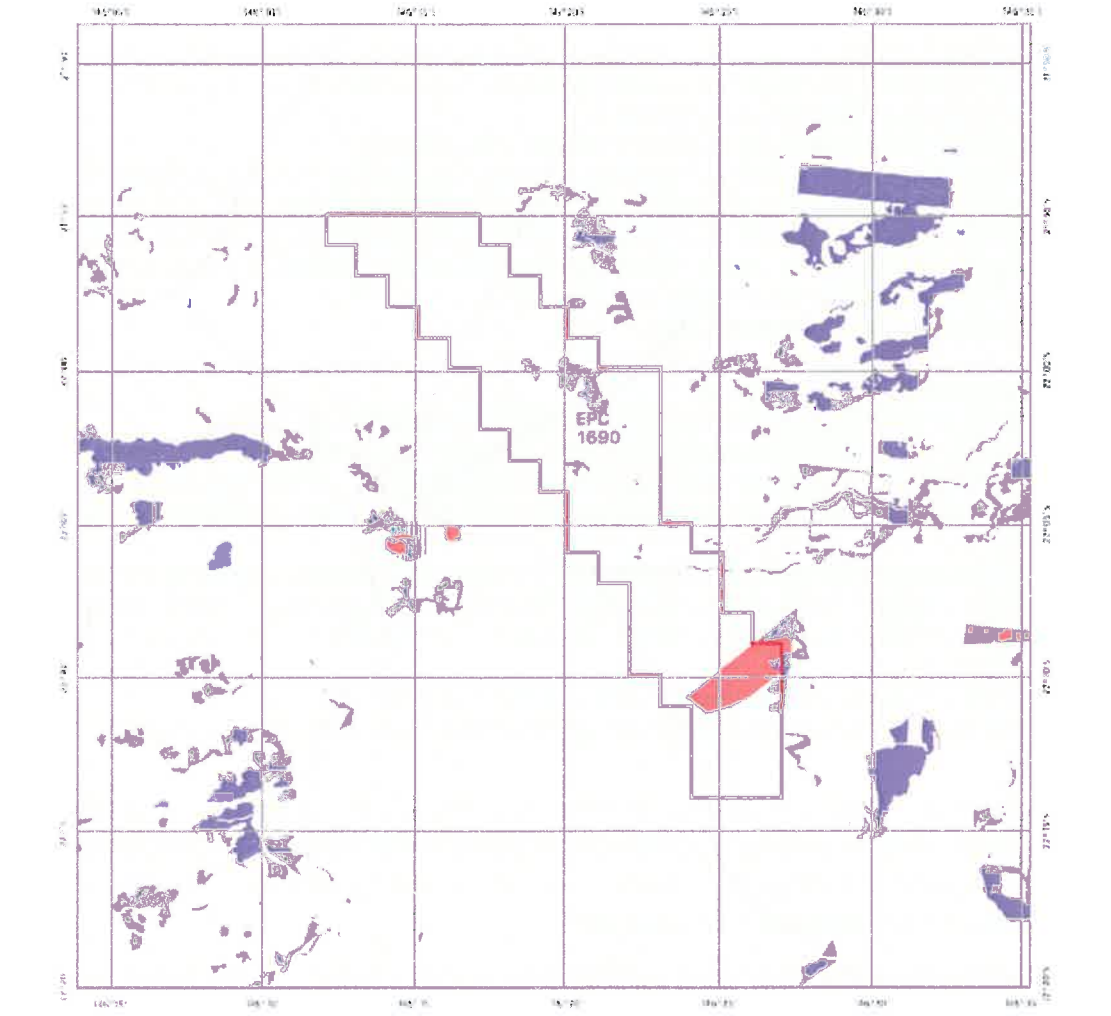
a) water in waters or spring;
b) underground water;
c) overland flow water; or
d) water that has been collected in a dam.

"watercourse" has the same meaning given in the *Water Act 2000*.

"**water quality**" means the chemical, physical and biological condition of water.

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

Attachment 1 – Environmentally Sensitive Areas



Legend

ENVIRONMENTALLY SENSITIVE AREAS - Mining Activities

Requested By REBECCA BLADES [redacted]
Date: 7 Apr 11 Time: 14:34:35

Current on: January
(no date)

Queensland
Government

SUITABILITY DIAGRAM

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NOTE TO USER: Themes presented in this map are indicative only. Field surveys may be required to verify the boundaries and significance of environmentally sensitive areas presented in this map. A user should refer to the particular circumstances relevant to their situation to assess the appropriateness of these products.

The user should note that some boundaries and features values are ambient and may change over time (e.g. wetland ecosystem boundaries and conservation status, watercourse mapping etc).

The user should be aware that due to multiple overlapping themes from a product, some themes/layers may be obscured by others. Grouping in the Legend does not accurately reflect the order by which themes/layers are displayed.

Projected Datum: Geocentric Datum of Australia 1994 (GDA94)
This product is large scale and is not suitable for viewing at screen

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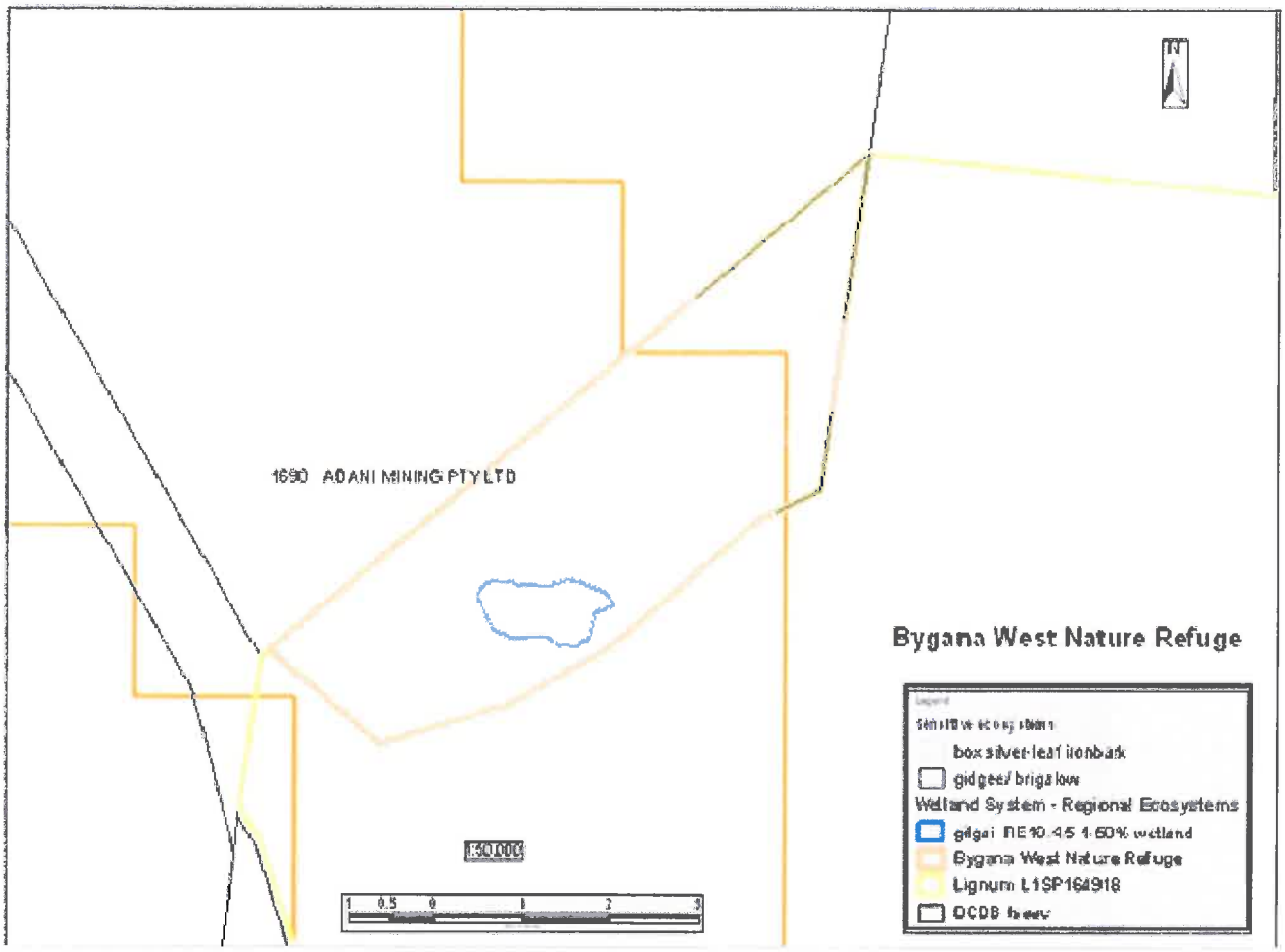
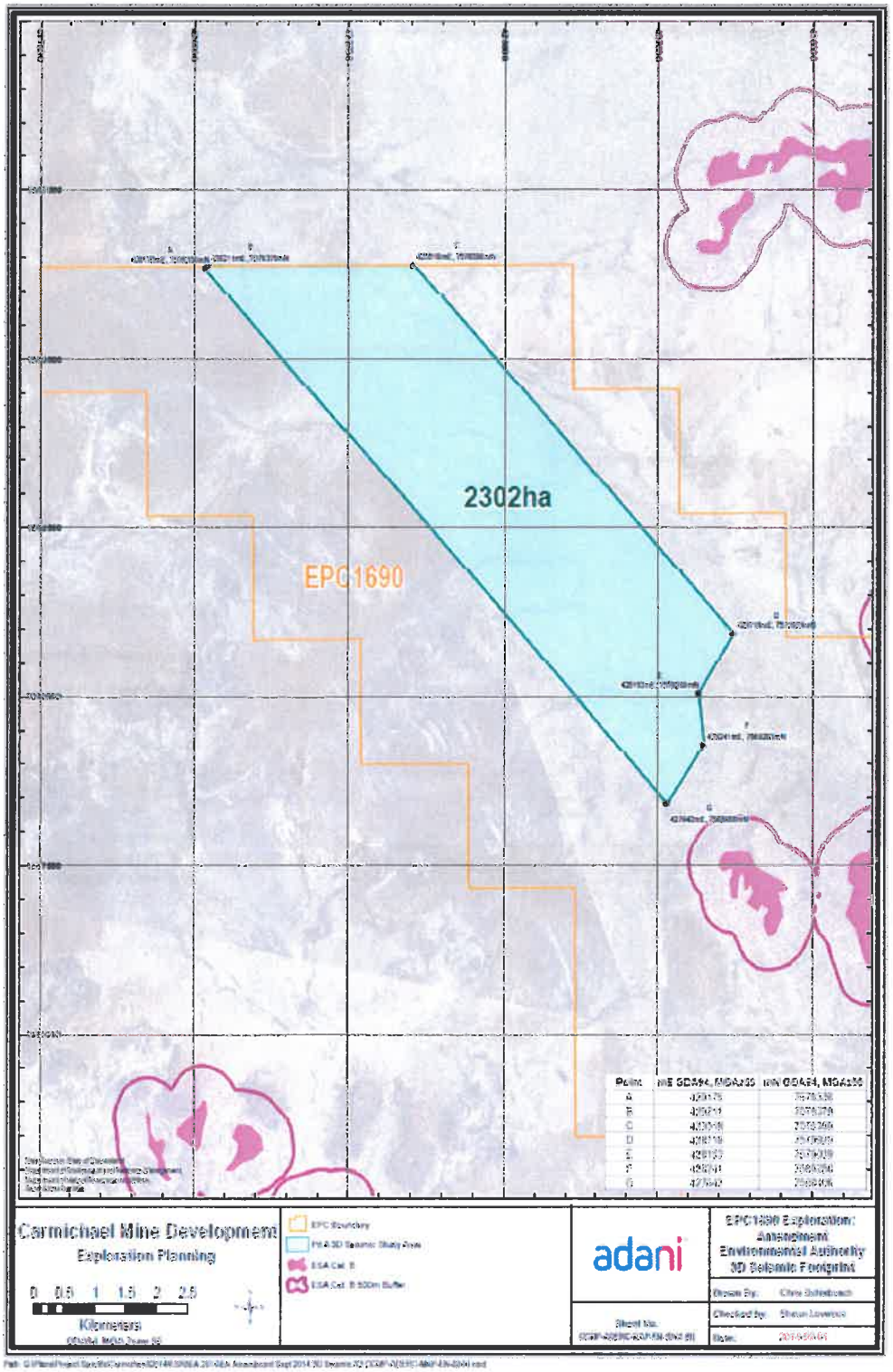
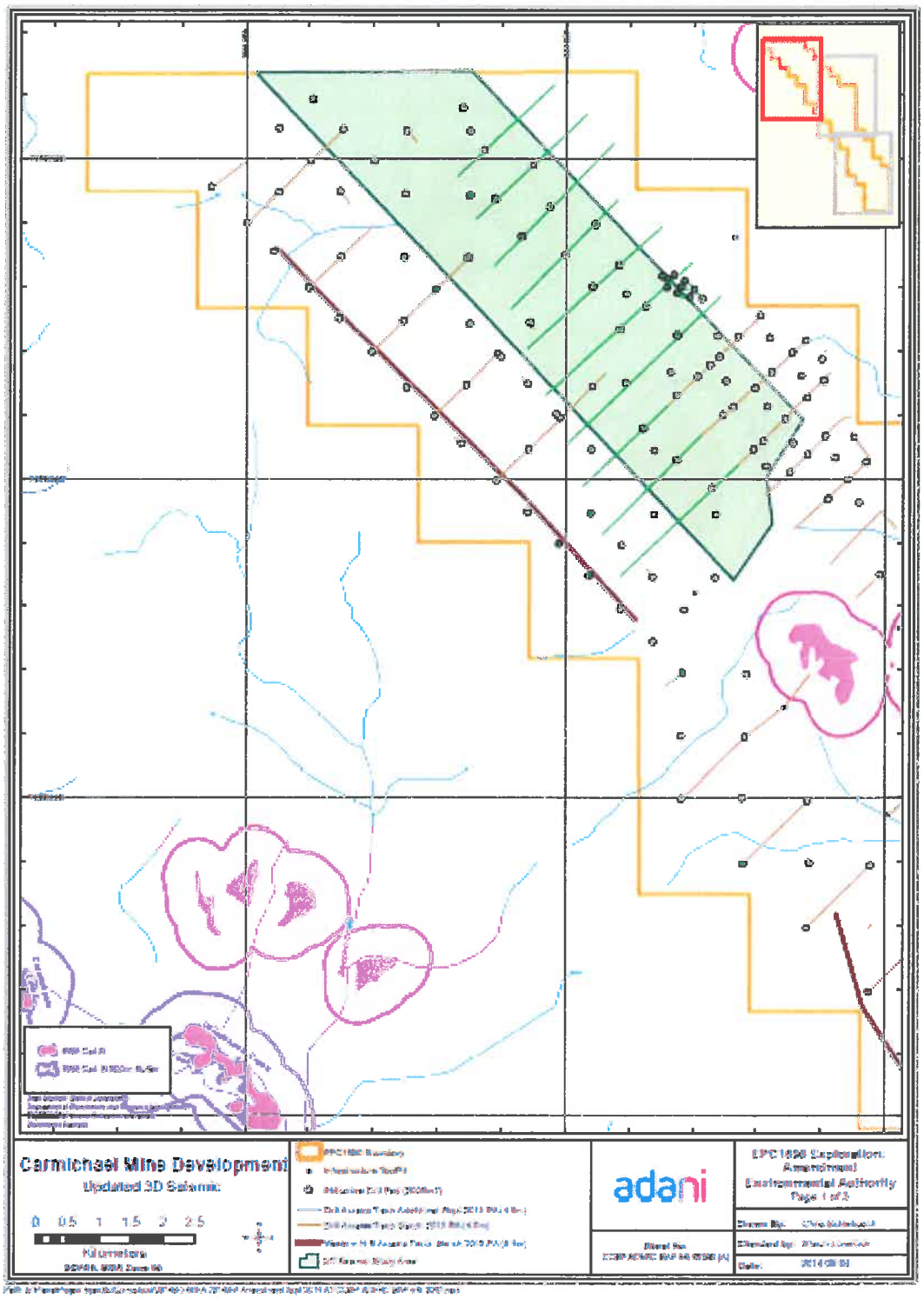
Attachment 2 – Gilgai Wetlands



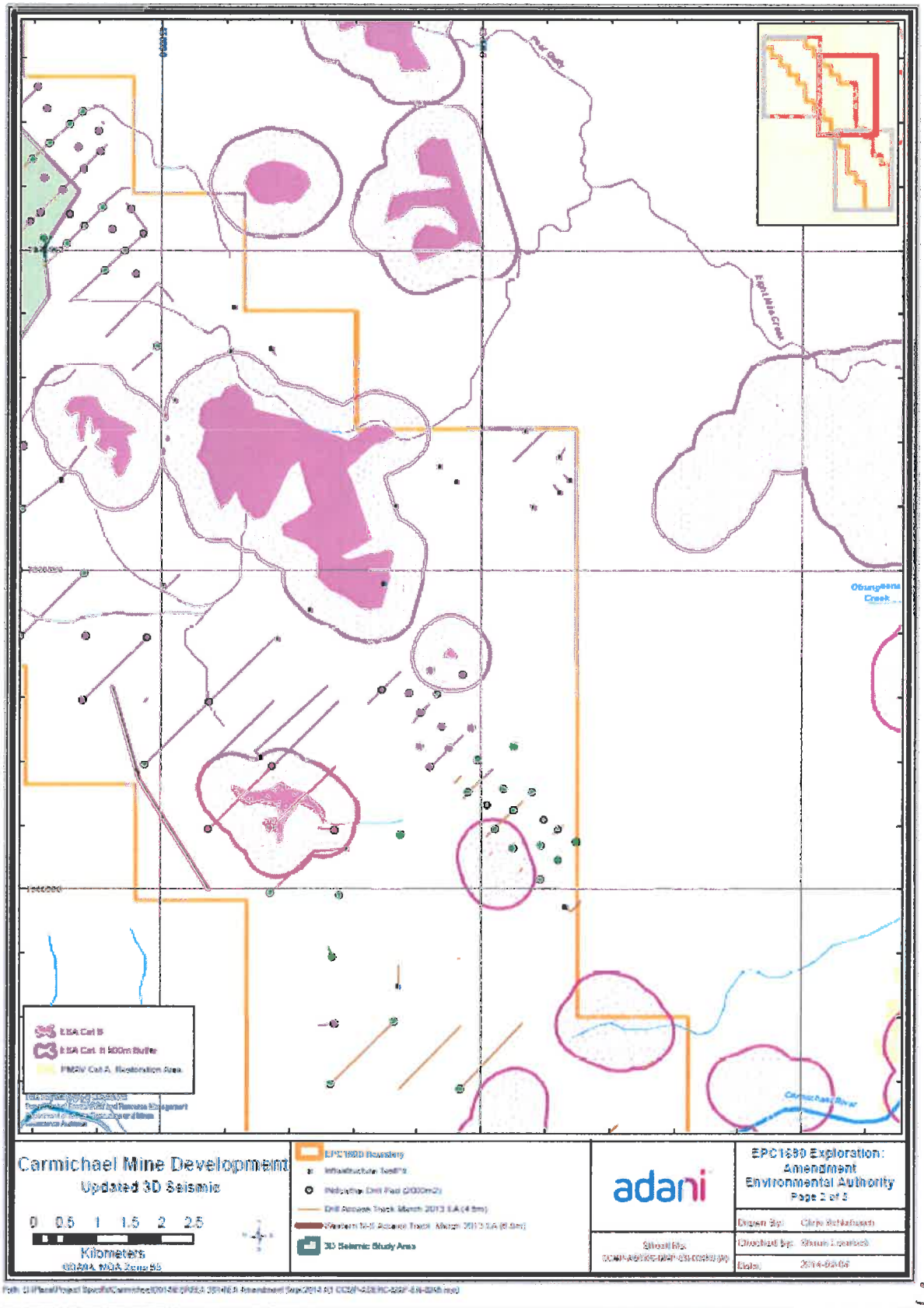
Attachment 3 - Total maximum extent of 3D seismic surveying permitted under this environmental authority.



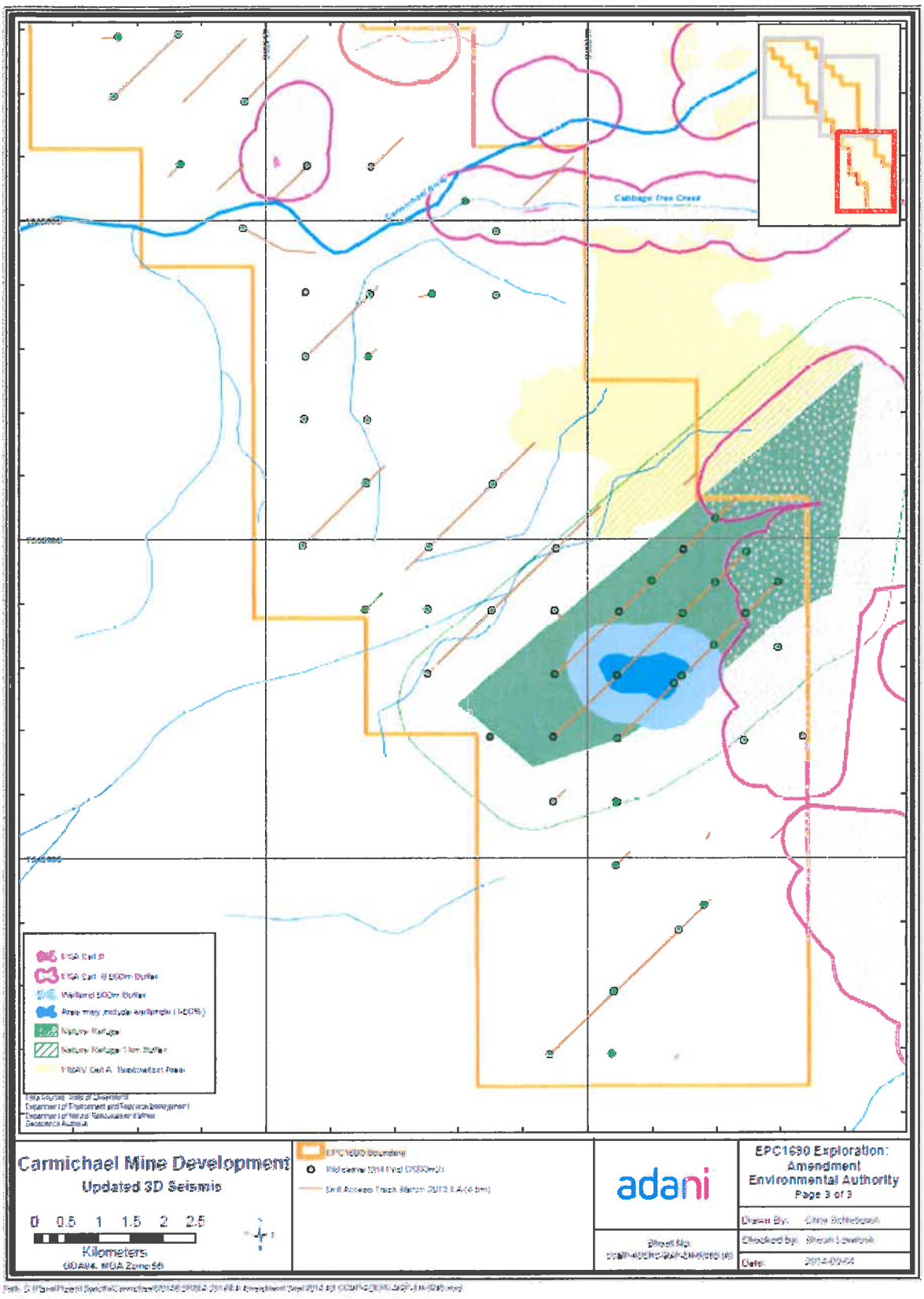
Attachment 4 – Exploration Drill Program, Tracks and 3D Seismic Survey Locations



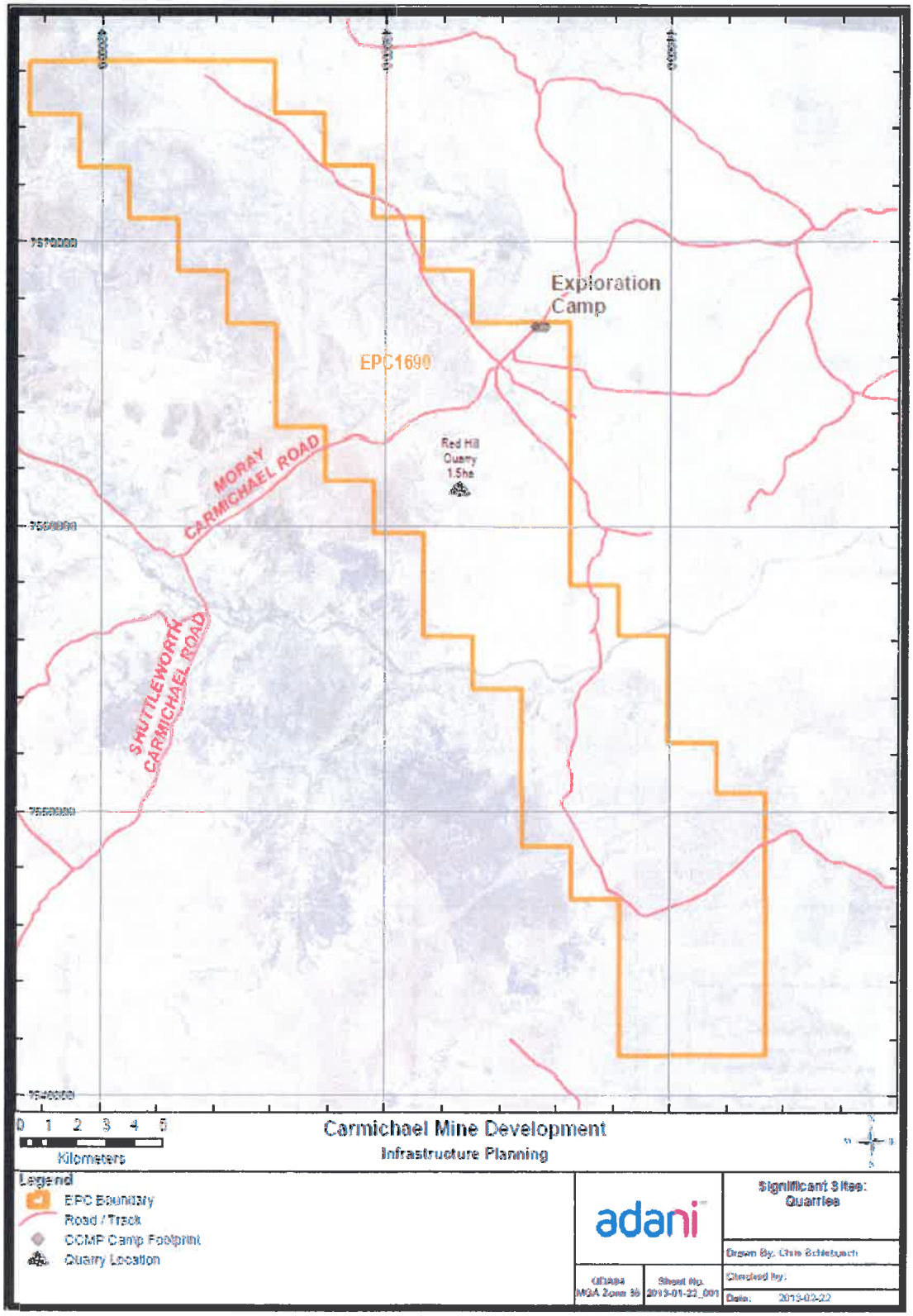
Attachment 5 – Exploration Drill Program, Tracks and Infrastructure Test Pits



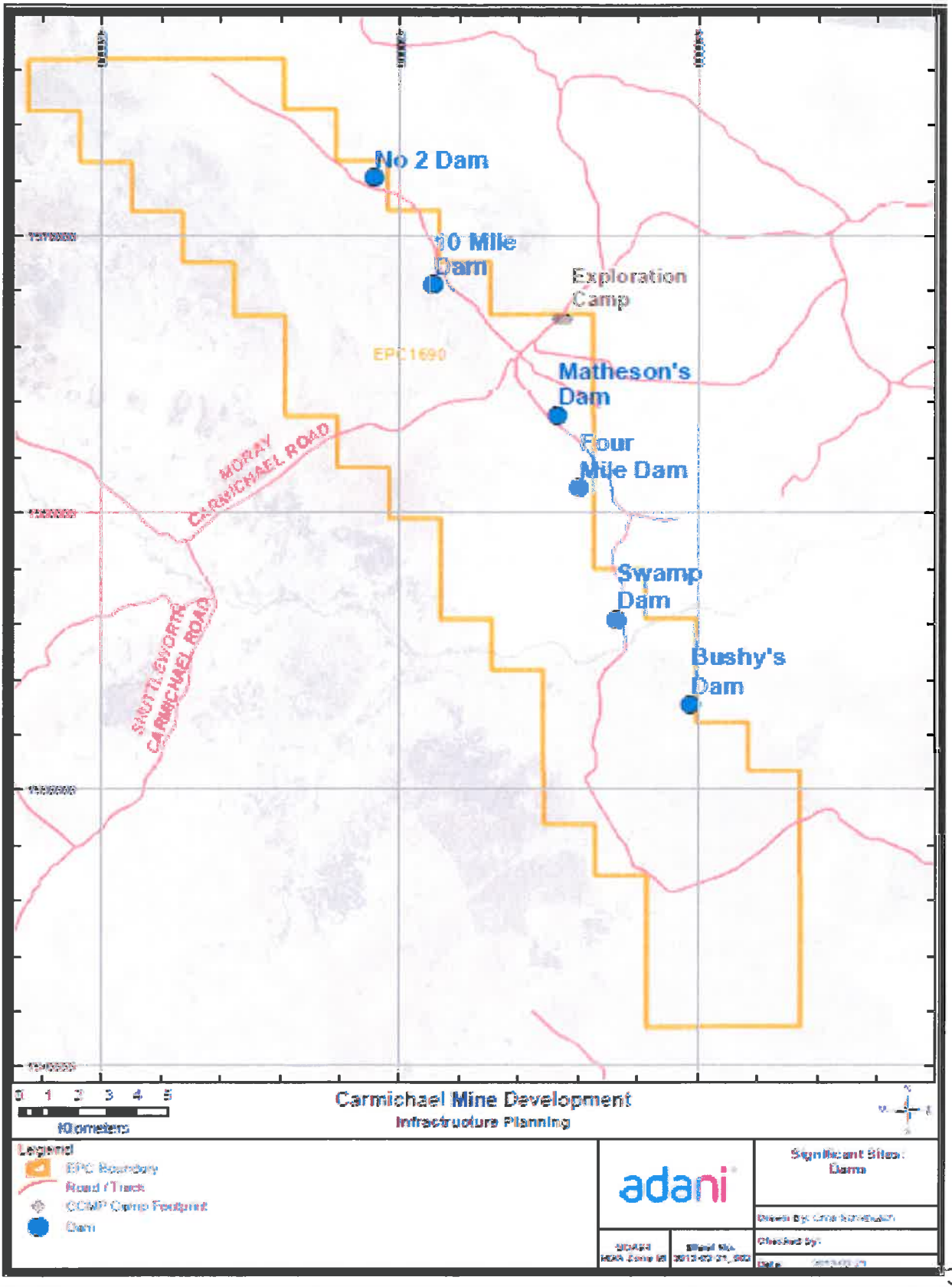
Attachment 6 – Exploration Drill Program, Tracks and Nature Refuge Locations



Attachment 7– Adani Quarry Location



Attachment 8 – Adani Water Storage Dams



END OF PERMIT