

Environmental Assessment Requirements

State Significant Development

Section 4.12(8A) of the *Environmental Planning and Assessment Act 1979*
Schedule 2 of the *Environmental Planning and Assessment Regulation 2000*

Application Number	SSD 9200
Proposal	<p>Owendale Scandium Project which includes:</p> <ul style="list-style-type: none">• developing an open cut mine, a processing site and associated infrastructure;• extracting and processing up to 90,000 tonnes of ore annually for up to 28 years;• transporting ore from the mine via road to the processing site; and• progressively rehabilitating the site.
Location	<p>The proposal is within the Lachlan local government area and includes:</p> <ul style="list-style-type: none">• a mine located approximately 13 km southwest of Tullamore; and• the processing site located approximately 5 km west of Condobolin.
Applicant	Platina Resources Limited
Date of Issue	10 April 2018
General Requirements	<p>The Environmental Impact Statement (EIS) for the development must comply with the requirements in Schedule 2 of the <i>Environmental Planning and Assessment Regulation 2000</i>.</p> <p>In particular, the EIS must include:</p> <ul style="list-style-type: none">• a stand-alone executive summary;• a full description of the development, including:<ul style="list-style-type: none">- the geological setting and resource to be extracted, demonstrating efficient resource recovery within environmental constraints;- the mine site and processing site layout and scheduling;- minerals processing;- surface infrastructure and facilities (including any infrastructure that would be required for the development, but the subject of a separate approvals process);- a waste (overburden, tailings, etc.) management strategy;- a water management strategy;- a rehabilitation strategy; and- the likely interactions between the development and any other existing, approved or proposed mining related development in the vicinity of the sites;• a strategic justification of the development focusing on site selection and the suitability of the proposed sites;• a list of any approvals that must be obtained before the development may commence;• an assessment of the likely impacts of the development on the environment, focusing on the specific issues identified below, including:<ul style="list-style-type: none">- a description of the existing environment likely to be affected by the development, using sufficient baseline data;- an assessment of the potential impacts of all stages of the development, including any cumulative impacts, taking into consideration relevant laws, environmental planning instruments, guidelines, policies, plans and industry codes of practice;- a description of the measures that would be implemented to avoid, mitigate and/or offset the impacts of the development, and an assessment of:

	<ul style="list-style-type: none"> ○ whether these measures are consistent with industry best practice, and represent the full range of reasonable and feasible mitigation measures that could be implemented; ○ the likely effectiveness of these measures; and ○ whether contingency plans would be necessary to manage any residual risks; and <ul style="list-style-type: none"> - a description of the measures that would be implemented to monitor and report on the environmental performance of the development; <ul style="list-style-type: none"> • a consolidated summary of all the proposed environmental management and monitoring measures, identifying all the commitments in the EIS; • consideration of the development against all relevant environmental planning instruments (including Part 3 of the <i>State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007</i>); and • the reasons why the development should be approved having regard to: <ul style="list-style-type: none"> - relevant matters for consideration under the <i>Environmental Planning and Assessment Act 1979</i>, including the objects of the Act and how the principles of ecologically sustainable development have been incorporated in the design, construction and ongoing operations of the development; - the biophysical, economic and social costs and benefits of the development; - the suitability of the sites with respect to potential land use conflicts with existing and future surrounding land uses; and - feasible alternatives to the development (and its key components), including the consequences of not carrying out the development. <p>While not exhaustive, Attachment 1 contains a list of some of the environmental planning instruments, guidelines, policies, and plans that may be relevant to the environmental assessment of this development.</p> <p>In addition to the matters set out in Schedule 1 of the <i>Environmental Planning and Assessment Regulation 2000</i>, the development application must be accompanied by a signed report from a suitably qualified person that includes an accurate estimate of the capital investment value of the development (as defined in Clause 3 of the <i>Environmental Planning and Assessment Regulation 2000</i>), including details of all the assumptions and components from which the capital investment value calculation is derived.</p>
Specific Issues	<p>The EIS must address the following specific issues:</p> <ul style="list-style-type: none"> • Land – including: <ul style="list-style-type: none"> - an assessment of the likely impacts of the development on the soils and land capability of the sites and surrounds; - an assessment of the likely agricultural impacts of the development; - an assessment of the likely impact of the development on landforms (topography), including the long term geotechnical stability of any new landforms on site; and - an assessment of the compatibility of the development with other land uses in the vicinity of the development in accordance with the requirements of Clause 12 of <i>State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007</i>, paying particular attention to the agricultural land use in the region; • Water – including: <ul style="list-style-type: none"> - an assessment of the likely impacts of the development on the quantity and quality of the region’s surface and groundwater resources, having regard to the <i>NSW Aquifer Interference Policy</i>; - an assessment of the likely impacts of the development on aquifers, watercourses, riparian land, water-related infrastructure, and other water users; - a detailed site water balance, including a description of site water demands, water disposal methods (inclusive of volume and frequency of any water discharges), water supply infrastructure and water storage structures; and

- a detailed description of the proposed water management system (including sewage), water monitoring program and other measures to mitigate surface and groundwater impacts;
- **Transport** – including:
 - an assessment of the likely transport impacts of the development on the capacity, condition, safety and efficiency of the road network (including Fifield Road, Kiacatoo Road, Henry Parkes Way, Dennison Street, Molong Street and Melrose Street), and cumulative impacts (considering other mining developments in the locality); and
 - a description of the measures that would be implemented to mitigate any impacts, including any proposed upgrades developed in consultation with the relevant road authorities (if required);
- **Biodiversity** – including:
 - an assessment of the biodiversity values and the likely biodiversity impacts of the development (including the Western Grey Box – Poplar Box – White Cypress Pine tall woodland and Yellow Box woodland endangered ecological communities), and cumulative biodiversity impacts (considering other mining developments in the locality);
 - a detailed description of the proposed regime for minimising, managing and reporting on the biodiversity impacts of the development over time; and
 - a strategy to offset any residual impacts of the development in accordance with the *Biodiversity Conservation Act 2016* (NSW);
- **Heritage** – including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including adequate consultation with the local Aboriginal community;
- **Noise and Vibration** – including:
 - an assessment of the likely operational noise impacts of the development (including construction noise), and cumulative noise impacts (considering other mining developments in the locality), in accordance with the *Noise Policy for Industry NSW*, and the *Voluntary Land Acquisition and Mitigation Policy*;
 - if a claim is made for specific construction noise criteria for certain activities, then this claim must be justified and accompanied by an assessment of the likely construction noise impacts of these activities in accordance with the *Interim Construction Noise Guideline*; and
 - an assessment of the likely road noise impacts of the development in accordance with the *NSW Road Noise Policy*;
- **Air Quality** – including:
 - an assessment of the likely air quality impacts of the development, and cumulative impacts (considering other mining developments in the locality), in accordance with the *Approved Methods and Guidance for the Modelling and Assessment of Air Pollutants in NSW*, and having regard to the NSW Government's *Voluntary Land Acquisition and Mitigation Policy*; and
 - an assessment of the likely greenhouse gas impacts of the development;
- **Hazards** - including an assessment of the likely risks to public safety, paying particular attention to potential bushfire risks, and the handling, transport and use of any dangerous goods, and in accordance with *State Environmental Planning Policy No. 33 – Hazardous and Offensive Development*;
- **Visual** – including an assessment of the likely visual impacts of the development on private landowners in the vicinity of the development and key vantage points in the public domain, paying particular attention to any temporary and permanent modification of the landscape (overburden dumps, bunds, etc.), cumulative impacts (considering other mining developments in the locality), and to minimising the lighting impacts of the development; and
- **Socio-Economic** – including:
 - an assessment of the social impacts of the project, prepared in accordance with the *Social Impact Assessment Guideline for State Significant Mining, Petroleum Production and Extractive Industry Development (2017)*, including the likely impacts of the development on the local community, cumulative impacts (considering other mining

	<p>developments in the locality), and consideration of workforce accommodation; and</p> <ul style="list-style-type: none"> - an assessment of the likely economic impacts of the development, paying particular attention to: <ul style="list-style-type: none"> o the significance of the resource; o economic benefits of the project for the State and region; and o the demand for the provision of local infrastructure and services.
Consultation	<p>During the preparation of the EIS, you should consult with relevant local, State or Commonwealth Government authorities, infrastructure and service providers, community groups, affected landowners, exploration licence holders, quarry operators and mineral title holders.</p> <p>The EIS must describe the consultation that was carried out, identify the issues raised during this consultation, and explain how these issues have been addressed in the EIS.</p>
Further consultation after 2 years	<p>If you do not lodge a development application and EIS for the development within 2 years of the issue date of these requirements, you must consult further with the Secretary in relation to the preparation of the EIS.</p>

ATTACHMENT 1

Environmental Planning Instruments, Policies, Guidelines & Plans

Land	
	Primefact 1063: Infrastructure proposals on rural land (DPI)
	Australian Soil and Land Survey Handbook (CSIRO)
	Guidelines for Surveying Soil and Land Resources (CSIRO)
	The land and soil capability assessment scheme: second approximation (OEH)
Water	
Water Sharing Plans	Water Sharing Plan for the Lachlan Regulated River Water Source 2016
	Water Sharing Plan for the Lachlan Unregulated and Alluvial Water Sources 2016
Groundwater	NSW State Groundwater Policy Framework Document (NOW)
	NSW State Groundwater Quality Protection Policy (NOW)
	NSW State Groundwater Quantity Management Policy (NOW)
	NSW Aquifer Interference Policy 2012 (NOW)
	Australian Groundwater Modelling Guidelines 2012 (Commonwealth)
	National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)
	Guidelines for the Assessment & Management of Groundwater Contamination (EPA)
Surface Water	NSW State Rivers and Estuary Policy (NOW)
	NSW Government Water Quality and River Flow Objectives (EPA)
	Using the ANZECC Guideline and Water Quality Objectives in NSW (EPA)
	ANZECC Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ)
	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (EPA)
	Managing Urban Stormwater: Soils & Construction (Landcom) and associated Volumes 2A to 2E (DECC)
	Managing Urban Stormwater: Treatment Techniques (EPA)
	Managing Urban Stormwater: Source Control (EPA)
	Technical Guidelines: Bunding & Spill Management (EPA)
	A Rehabilitation Manual for Australian Streams (LWRRDC and CRCCH)
NSW Guidelines for Controlled Activities (NOW)	
Flooding	Floodplain Development Manual (OEH)
	Floodplain Risk Management Guideline (OEH)
Biodiversity	
	Biodiversity Assessment Method (OEH)
	Threatened Species Assessment Guidelines - Assessment of Significance (OEH)
	<i>Biosecurity Act 2015</i>
	Why Do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (DPI)
	Policy and Guidelines for Fish Habitat Conservation and Management (DPI)
Heritage	
	Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH)
	Code of Practice for Archaeological Investigations of Objects in NSW (OEH)
	Guide to investigating, assessing and reporting on aboriginal cultural heritage in NSW (OEH).
	NSW Heritage Manual (OEH)
Noise	
	Voluntary Land Acquisition and Mitigation Policy: For State Significant Mining, Petroleum and Extractive Industry Developments (DPE 2014)

	NSW Noise Policy for Industry (EPA)
	Interim Construction Noise Guideline (EPA)
	NSW Road Noise Policy (EPA)
Air Quality	
	Voluntary Land Acquisition and Mitigation Policy: For State Significant Mining, Petroleum and Extractive Industry Developments (DPE 2014)
	Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC)
	Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (DEC)
	National Greenhouse Accounts Factors (Commonwealth)
Transport	
	Guide to Traffic Generating Developments (RTA)
	Road Design Guide (RMS) & relevant Austroads Standards
	Austroads Guide to Traffic Management Part 12: Traffic Impacts of Development
Hazards	
	State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
	Hazardous and Offensive Development Application Guidelines – Applying SEPP 33
	Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis
Socio- Economic	
	Social Impact Assessment Guideline: For State Significant Mining, Petroleum Production and Extractive Industry Development (DPE 2017)
Waste	
	Waste Classification Guidelines (EPA)
Resource	
	Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves 2012 (JORC)
Rehabilitation	
	Mine Rehabilitation – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth)
	Mine Closure and Completion – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth)
	Strategic Framework for Mine Closure (ANZMEC-MCA)
	Mine Rehabilitation – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth)
Environmental Planning Instruments	
	State Environmental Planning Policy (State and Regional Development) 2011
	State Environmental Planning Policy (Infrastructure) 2007
	State Environmental Planning Policy (Rural Lands) 2008
	State Environmental Planning Policy No. 44 – Koala Habitat Protection
	State Environmental Planning Policy No. 55 – Remediation of Land
	Lachlan Local Environmental Plan 2013