

 Planning Services

 Resource Assessments

 Contact:
 Sarah Fabian

 Phone:
 92746252

 Email:
 sarah fabian@planning.nsw.gov.au

Bob Lander Director Tattersall Lander Pty Ltd PO Box 580 Raymond Terrace NSW 2324

Dear Mr Lander

State Significant Development - Revised Secretary's Requirements Bobs Farm Sand Project (SSD6395)

I have enclosed the revised Secretary's requirements for the preparation of an Environmental Impact Statement (EIS) for the Bob Farm Sand Project.

These requirements are based on the information you have provided to date, and have been prepared in consultation with the relevant government agencies. The agencies' comments are attached for your information (see Attachment 2). You must have regard to these comments in the preparation of the EIS.

Please note that the Department may alter these requirements at any time, and that you must consult further with the Department if you do not lodge a development application and EIS for the project within the next two years.

You should establish whether the proposal requires a separate approval under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) as soon as possible. If such an approval is required, please notify the Department immediately, as the Commonwealth approval process is likely to be integrated with the NSW approval process (under the bilateral agreement), and supplementary requirements will need to be issued.

Please contact the Department at least two weeks before you plan to submit the development application and EIS for the project. This will enable the Department to:

- confirm the applicable fee (see Division 1AA, Part 15 of the *Environmental Planning and Assessment Regulation 2000*); and
- determine the required number of copies of the EIS (hard copy and digital).

It is important for you to recognise that the Department will review the EIS for the project carefully before putting it on public exhibition. If it fails to adequately address these requirements, then you will be required to submit an amended EIS.

If you have any enquiries about these requirements, please contact Sarah Fabian on the details listed above.

Yours sincerely

Howard Reed

Howard Reed 12.4 Director Resource Assessments As nominee of the Secretary

Secretary's Environmental Assessment Requirements

State Significant Development

Section 78A(8A) of the Environmental Planning and Assessment Act 1979

Application Number SSD 6395			
Proposal	 The Bobs Farm Sand Project, which involves: establishing a quarry to extract and process sand at a rate of 750,000 tonnes per annum, from a total resource of 10 million tonnes; constructing extractive materials processing and transport infrastructure; transporting extractive material off-site via public road; and rehabilitating the site. 		
Location	Adjacent to Nelson Bay Road, Bobs Farm, approximately 15 kilometres southwest of Nelson Bay (Lots 10 & 11 DP1071458)		
Applicant	Ammos Resource Management Pty Ltd		
Date of Issue	12 April 2017		
General Requirements	The Environmental Impact Statement (EIS) for the development must comply with the requirements in Clauses 6 and 7 of Schedule 2 of the <i>Environmental Planning and Assessment Regulation 2000.</i>		
	 In particular, the EIS must include: a full description of the development, including: the need for the development; the resource to be extracted, including the amount, type and composition; the site layout and extraction plan, including cross-sectional plans; the production process and processing activities, including the in-flow and out-flow of materials and points of discharge to the environment; 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, rejects, tailings etc) management strategy; a water management strategy; a rehabilitation strategy to apply during, and after completion of, extraction operations, and proposed final use of site; and the likely interactions between the development and any existing, approved or proposed development in the vicinity of the site; 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, focussing on the key issues identified below, including: a assessment of the likely impacts of all stages of the development, including any cumulative impacts, taking into consideration any relevant laws, environmental planning instruments, guidelines, policies, plans and industry codes of practice; a description of the measures that would be implemented to avoid, minimise, mitigate and/or offset the likely impacts of the development, and an assessment of: whether these measures are consistent with industry best practice, and represent the full range of reasonable and feasible mitigation measures that could be implemented; 		

 whether contingency measures would be necessary to manage any residual risks; and a description of the measures that would be implemented to monitor and report on the environmental performance of the development if it is approved; 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 State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007); a conclusion justifying why the development should be approved, taking into consideration:		
report on the environmental performance of the development if it is approved: • 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 State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007; • a conclusion justifying why the development should be approved, taking into consideration: • alternatives; • the suitability of the site; • a signed declaration from the author of the EIS, certifying that the information contained within the document is neither false nor misleading. 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 for divelopment application must be accompanied by a signed report from a suitably qualified expert that includes an accurate estimate of the: • capital investment value (as defined in Clause 3 of the Environmental Planning and Assessment Regulation 2000 of the development. Consultation During the preparation of the EIS, you must co		
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Key Issues The EIS must address the following key issues:		 describe the consultation process used and demonstrate that effective consultation has occurred; describe the issues raised by public authorities, service providers, community groups and landowners; identify where the design of the development has been amended in response to issues raised; and otherwise demonstrate that issues raised have been appropriately addressed in
	Key Issues	The EIS must address the following key issues:

	Water including
•	 Water – including: a detailed site water balance and an assessment of any volumetric water
	licensing requirements, 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;
	- identification of any licensing requirements or other approvals under the
	Water Act 1912 and/or Water Management Act 2000;
	 demonstration that water for the construction and operation of the development can be obtained from an appropriately authorised and
	reliable supply in accordance with the operating rules of any relevant
	Water Sharing Plan (WSP);
	- a description of the measures proposed to ensure the development can
	operate in accordance with the requirements of any relevant WSP or
	 water source embargo; an assessment of any likely flooding impacts of the development;
	- a detailed consideration of maintenance of an adequate buffer between all
	excavations at the highest predicted regional groundwater table;
	- an assessment of potential impacts on the quality and quantity of existing
	surface and ground water resources, including a detailed assessment of proposed water discharge quantities and quality against receiving water
	quality and flow objectives; and
	- a detailed description of the proposed water management system
	(including sewage), water monitoring program and other measures to
	mitigate surface and groundwater impacts; Noise – including a quantitative assessment of potential:
	- construction, operational and off-site transport noise impacts in
	accordance with the Interim Construction Noise Guideline, NSW Industrial
	Noise Policy and the NSW Road Noise Policy respectively;
	 reasonable and feasible mitigation measures to minimise noise emissions; and
	- monitoring and management measures, in particular real-time and
	attended noise monitoring;
•	Air Quality – including a quantitative assessment of potential:
	 construction and operational impacts, in accordance with the Approved Methods for the Modelling and Assessment of Air Pollutants in NSW, and
	with a particular focus on dust emissions including $PM_{2.5}$ and PM_{10} ;
	- dust and other emissions generated from blasting, processing, operational
	activities and transportation of quarry products; - reasonable and feasible mitigation measures to minimise dust and
	emissions; and
	- monitoring and management measures, in particular, real-time air quality
	monitoring;
•	 Biodiversity – including: accurate predictions of any vegetation clearing on site;
	- a detailed assessment of the potential biodiversity impacts, paying
	particular attention to threatened species, populations and ecological
	communities and groundwater dependent ecosystems and having regard
	 to the relevant policies and guidelines listed in Attachment 1; and an offset strategy (depending on the outcomes of the assessment of
	biodiversity impacts) to ensure the development maintains or improves
	the biodiversity values of the region in the medium to long term, including
	evidence that the appropriate type and quantum of offsets will be
	available; Heritage – including:
•	 an assessment of the potential impacts on Aboriginal heritage (cultural
	and archaeological), including evidence of appropriate consultation with
	relevant Aboriginal communities/parties and documentation of the views
	of these stakeholders regarding the likely impact of the development on their cultural heritage; and
	 identification of Historic heritage in the vicinity of the development and an
	assessment of the likelihood and significance of impacts on heritage
	items, having regard to the relevant policies and guidelines listed in
	Attachment 1;

 Traffic & Transport – including: accurate predictions of the road traffic generated by the construction and operation of the development, including a description of the types of vehicles likely to be used for transportation of quarry products; a detailed assessment of potential traffic impacts on the capacity, condition, safety and efficiency of the local and State road network (as identified above), including a road safety audit; and a detailed description of the measures or works (including concept plans) that would be used and/or implemented to upgrade, maintain and improve the capacity, efficiency and safety of the road network over the life of the development; Land Resources – including a detailed assessment of: potential impacts on soils and land capability (including potential erosion and land contamination) and the proposed mitigation, management and remedial measures (as appropriate); potential impacts on landforms (topography), paying particular attention to the long term geotechnical stability of any new landforms (such as overburden dumps, bunds etc);
 potential impacts on areas of regionally significant farmland and associated industries including a biosecurity risk assessment and subsequent response and contingency plans; and the compatibility of the development with other land uses in the vicinity of the development in accordance with the requirements in Clause 12 of <i>State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007</i>; Waste – including estimates of the quantity and nature of the waste streams that would be generated or received by the development and any measures that would be implemented to minimise, manage or dispose of these waste
 streams; Hazards – including an assessment of the likely risks to public safety, paying particular attention to potential bushfire risks and the transport, handling and use of any hazardous or dangerous goods; 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, including with respect to any new landforms; Social & Economic – including: a detailed assessment of the likely social impacts of the development on the local and regional community; and a detailed assessment of the likely economic impacts of the development, paying particular attention to: the significance of the resource; the costs and benefits of the project; identifying whether the
 a the costs and benefits of the project, identifying whether the development as a whole would result in a net benefit to NSW, including consideration of fluctuation in commodity markets and exchange rates; and the demand for the provision of local infrastructure and services; and Rehabilitation – including the proposed rehabilitation strategy for the site having regard to the key principles in the <i>Strategic Framework for Mine Closure</i>, including: rehabilitation objectives, methodology, monitoring programs, performance standards and proposed completion criteria; nominated final land use, having regard to any relevant strategic land use planning or resource management plans or policies; and the potential for integrating this strategy with any other rehabilitation and/or offset strategies in the region.

ATTACHMENT 1

Environmental Planning Instruments, Policies, Guidelines & Plans

••	
Air	
	Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (EPA)
	Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (EPA)
	Generic Guidance and Optimum Model Settings for the CALPUFF Modelling System for Inclusion into the 'Approved Methods for the Modelling and Assessments of Air Pollutants in NSW, Australia'
	National Greenhouse Accounts Factors (Commonwealth)
Noise	
	NSW Industrial Noise Policy and associated Application Notes (EPA)
	Interim Construction Noise Guideline (DECC 2009)
	NSW Road Noise Policy (EPA)
Water	
	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)
	Office of Water Guidelines for Controlled Activities (2012)
Groundwater	Groundwater Monitoring and Modelling Plans – Information for prospective mining and
	petroleum exploration activities (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)
	NSW Government Water Quality and River Flow Objectives (EPA)
	Using the ANZECC Guideline and Water Quality Objectives in NSW (EPA)
	National Water Quality Management Strategy: Australian Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems – Effluent Management (ARMCANZ/ANZECC)
	NSW Water Conservation Strategy (2000)
	State Water Management Outcomes Plan
Surface Water	NSW State Rivers and Estuary Policy (1993)
	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (EPA)
	Managing Urban Stormwater: Soils & Construction (Landcom) and associated Volume 2E: Mines and Quarries (EPA)
	Managing Urban Stormwater: Treatment Techniques (EPA)
	Managing Urban Stormwater: Source Control (EPA)
	Technical Guidelines: Bunding & Spill Management (EPA)
	Environmental Guidelines: Use of Effluent by Irrigation (EPA)
	A Rehabilitation Manual for Australian Streams (LWRRDC and CRCCH)
	NSW Guidelines for Controlled Activities on Waterfront Land (NOW)
Land	
	Soil and Landscape Issues in Environmental Impact Assessment (NOW)
	Agfact AC25: Agricultural Land Classification (NSW Agriculture)
	Agricultural Impact Statement Technical Notes
	Land Use Conflict Risk Assessment Guide

	Agricultural Issues for Extractive Industries (NSW Trade and Investment)		
	State Environmental Planning Policy No. 55 – Remediation of Land		
	Australian and New Zealand Guidelines for the Assessment and Management of		
	Contaminated Sites (ANZECC)		
Traffic			
	Guide to Traffic Generating Development (RMS)		
	Road Design Guide (RMS) & relevant Austroads Standards		
Biodiversity			
	Framework for Biodiversity Assessment (OEH)		
	NSW Biodiversity Offsets Policy for Major Projects (OEH)		
	Guidelines for Threatened Species Assessment (DP&E)		
	NSW State Groundwater Dependent Ecosystem Policy (NOW)		
	Risk Assessment Guidelines for Groundwater Dependent Ecosystems (NOW)		
	State Environmental Planning Policy No. 44 – Koala Habitat Protection		
Heritage			
	The Burra Charter (The Australia ICOMOS charter for places of cultural significance)		
	Draft Guidelines for Aboriginal Cultural Heritage Assessment and Community Consultation		
	(DP&E)		
	Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH)		
	NSW Heritage Manual (OEH)		
	Statements of Heritage Impact (OEH)		
	Port Stephens LEP 2013		
Public Safety			
	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		
Waste			
	Waste Classification Guidelines (EPA)		
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)		
Environmental	Planning Instruments - General		
	State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007		
	State Environmental Planning Policy (State and Regional Development) 2011		
	State Environmental Planning Policy (Infrastructure) 2007		

ATTACHMENT 2

Agency Correspondence

Sarah Fabian

From:	n: Brett Gardiner <brett.gardiner@portstephens.nsw.gov.au></brett.gardiner@portstephens.nsw.gov.au>		
Sent:	Thursday, 6 April 2017 4:11 PM		
То:	Sarah Fabian		
Subject:	FW: Request for Secretary's Environmental Assessment Requirements - Bob Farm		
	Sands Project (SSD 6395)		
Attachments:	PEA.pdf; 21400005 - Local Context Plan.pdf; 21400004 - Regional Context Plan.pdf;		
	Bobs Farm Sand Project - DGRs.pdf; Port Stephens.pdf		

Hi Sarah,

I apologise for the late response from Council. For some reason I had it in my head that this was not due until the end of this week.

Council has reviewed the proposal and provides the following additional input to the preparation of revised SEARs:

- 1. Council considers that the proposal could have a negative impact on local biodiversity and that a Biodiversity Assessment Report should be prepared to inform the assessment process. The biodiversity report should include:
 - A detailed assessment of measures to avoid and minimise impacts to flora and fauna.
 - A detailed assessment of proposed mitigation measures and biodiversity offsets proposed for residual impacts. A legally binding mechanism is required to secure biodiversity offsets in perpetuity. Details are required as to the funding mechanism proposed to fund management of the biodiversity offset in perpetuity.
 - Accurate mapping and estimates of native vegetation clearance. Based on Council's review, it appears Swamp Sclerophyll Forest and River-flat Eucalypt Forest, both endangered ecological communities listed on the NSW TSC Act, occur at the site. (Note: River-flat Eucalypt Forest is uncommon in Port Stephens Local Government Area).
 - Accurate mapping and estimates of hollow-bearing trees at the site, including number and size class of hollows present.
 - An assessment of impacts to corridors and fauna movement through the site pre and post development. An assessment of location and width of retained native vegetation corridors for fauna movement post development. Retained native vegetation should include the areas of Swamp Sclerophyll Forest and River-flat Eucalypt Forest endangered ecological communities.
 - The site is mapped as supplementary koala habitat in the Port Stephens Comprehensive Koala Plan of Management. An assessment of the application under the Port Stephens Comprehensive Koala Plan of Management is required, including the performance criteria for development applications.
 - A detailed assessment of impacts to threatened species, communities and their habitats listed on the TSC Act and/or EPBC Act.
 - A detailed assessment of impacts to groundwater dependant ecosystems at the site.
 - Targeted surveys for threatened orchids during the peak flowering period for *Cryptostylis hunteriana, Diuris arenaria, Diuris praecox, Genoplesium bauera, Phaius australis* and *Rhizanthella slateri*. Targeted surveys for other threatened flora where suitable habitat occurs.
 - Surveys for threatened fauna in accordance with Threatened Biodiversity Survey and Assessment: Guidelines for Development and Activities (DEC 2004), including

targeted surveys for koala, squirrel glider, brush-tailed phascogale, wallum froglet, New Holland mouse, threatened owls and microbats.

- Development of a progressive Rehabilitation Strategy including staging of works, stockpiling of cleared native vegetation and staged rehabilitation to maintain viability of the stockpiled material.
- Undertake an assessment to determine an appropriate buffer width to neighbouring properties so that they don't experience wind-blown sand.
- 2. The proposal is likely to have social impacts and as a result, a Social Impact Assessment should be provided with the application.

I would like to confirm that the above items are in addition to the matters provided in the previous input to the preparation of SEARS.

Please let me know if you have any questions and I will be happy to help.

Regards,



From: <u>Sarah.Fabian@planning.nsw.gov.au</u> [mailto:Sarah.Fabian@planning.nsw.gov.au] Sent: Thursday, 23 March 2017 10:38 AM To: SwitchPC

Cc: genevieve.seed@planning.nsw.gov.au

Subject: Request for Secretary's Environmental Assessment Requirements - Bob Farm Sands Project (SSD 6395)

Good Morning

Bob Farm Sands Project (SSD 6395)

Tattersall Lander Pty Ltd on behalf of Ammos Resource Management Pty Ltd is currently preparing an Environmental Impact Statement for the Bobs Farm Sands Project in Port Stephens local government. Director-Generals Requirements were issued in March 2014 for this project. However as two years has passed, the Department is preparing revised SEARs for the project.

The Department requests your input on the revised SEARs for the project.

I have attached documents from the DGRs for your reference, including:

- previous Port Stephen Council comments;
- the Preliminary Environmental Assessment;
- local and regional plans; and
- the Director General Requirements issued March 2014.

It would be greatly appreciated if we could receive your revised advice by **Tuesday 4 April 2017.**

If you have any queries, please contact me on the details below.

Kind Regards

Sarah

Sarah Fabian Student Planner Resource Assessments Level 22, 320 Pitt Street | GPO Box 39 | Sydney NSW 2001 T 02 9274 6252





We've You can find us at our new office moved Level 22, 320 Pitt St, Sydney, 2000

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4 April 2017

Sarah Fabian Student Planner – Resource Assessments Department of Planning & Environment GPO Box 39 SYDNEY NSW 2001

Emailed: Sarah.Fabian@planning.nsw.gov.au

Your Reference: SSD 6395 Our Reference: OUT17/13772

Dear Ms Fabian,

Re: Request for revised Secretary's Environmental Assessment Requirements Proposal – Bobs Farm Sands Project (SSD 6395)

Thank you for the opportunity to provide advice for the revised Secretary's Environmental Assessment Requirements for Bobs Farm Sand Project (SSD 6395) by Tattersall Lander Pty Ltd on behalf of Ammos Resource Management Pty Ltd (the proponent). This is a response from New South Wales Department of Planning & Environment – Division of Resources & Mining – Geological Survey of New South Wales (GSNSW).

The building and construction industries in NSW require ongoing replacement of supplies as sources are exhausted. The development of new quarries, subject to environmental assessment, helps to ensure a continued supply of material for a range of building and construction uses in NSW.

It is in the best interests of both the proponent and the community to fully assess the resources which are to be extracted. This means that a thorough geological assessment should be undertaken to determine the nature, quality and extent of the resource. Failure to undertake such an assessment could lead to operational problems and possibly even failure of the proposal.

Background

The project area is located 28km north east of Newcastle and 17 km south west of Port Stephens within the Port Stephens LGA. The proponent proposes to extract 750,000 tonnes per annum of sand for construction purposes with the potential to provide fracking sand for coal seam methane extraction and an export resource for glass manufacturing.

The subject site overlies Pleistocene marine sands and is located in the central east portion of Exploration Licence (EL) 8254 (held by the proponent for exploration of Group 10 Minerals). Past exploration in the area has confirmed that these units host variable amounts of heavy minerals including rutile, zircon, ilmenite and leucoxene which *are* prescribed minerals under the *Mining Act 1992*. The proposed extractive operation has the potential to produce by-product heavy

NSW Department of Planning & Environment RESOURCES & MINING DIVISION PO Box 344 Hunter Region Mail Centre NSW 2310 Tel: 02 4931 6666 Fax: 02 4931 6726 ABN 51 734 124 190 www.industry.nsw.gov.au mineral sands. Production of these minerals **would** require a Mining Lease under the *Mining Act 1992*.

Construction sand is **not** a prescribed mineral under the *Mining Act 1992*. Therefore, the Department has no statutory role in authorising or regulating the extraction of this commodity, apart from its role under the *Work Health and Safety Act 2011* and associated regulations and the *Work Health and Safety (Mine and Petroleum Sites) Act 2013* and associated regulations, for ensuring the safe operation of mines and quarries. However, the Department is the principal government authority responsible for assessing the State's resources of construction materials and for advising State and local government on their planning and management.

All environmental reports, (EIS or similar) accompanying a Development Applications for extractive industry lodged under the *Environmental Planning & Assessment Act* should include a resource assessment **(as detailed in Attachment A)**. Specifically, the Environmental Assessment should:

- Document the size, and quality of the resource and demonstrate that both have been adequately assessed; and
- Document the methods used to assess the resource and its suitability for the intended applications (eg. grainsize, components for construction sand, fracking sand, heavy minerals); and
- Should include resource estimates for construction materials, industrial uses and for heavy mineral sands
- Provide representative cross-sections through the deposit showing the key geological units and the water table.

If heavy minerals are *not* to be extracted, then the possibility of their sterilisation should be addressed. The proposed handling/stockpiling and any end uses for sand known to contain heavy minerals should be detailed.

If heavy minerals *are* to be extracted the proposed mineral separation methods, including flow charts should be provided. The treatment and handling of monazite should be described in detail to address any radiation concerns.

The above information should be summarised in the EIS, with full documentation appended. If deemed commercial-in-confidence, the resource assessment summary included in the EIS should commit to providing the Department with full resource assessment documentation separately. Applications to modify, expand, extend or intensify an existing consent that has already been adequately reported using the above protocol in publicly available documents, may restrict detailed documentation to the additional resources to be used, if accompanied by a summary of past resource assessments and of past production.

The Department collects data on the quantity of construction materials produced annually throughout the State. Forms are sent to all operating quarries at the end of each financial year for this purpose. The statistical data collected is of great value to Government and industry in planning and resource management, particularly as a basis for analysing trends in production and for estimating future demand for particular commodities or in particular regions. Production data may be published in aggregated form, however production data for individual operations is kept strictly confidential.

In order to assist in the collection of construction material production data, the proponent should be required to provide annual production data for the subject site to the Department as a condition of any new or amended development consent.

Queries regarding the above information, and future requests for advice in relation to this matter, should be directed to the Division of Resources & Mining – Geological Survey of New South Wales Land Use team at <u>landuse.minerals@industry.nsw.gov.au.</u>

Yours sincerely

Joessich Cilmon

Cressida Gilmore Manager - Land Use

Encl. Attachments "A"



ATTACHMENT A

NSW Department of Planning & Environment RESOURCES & ENERGY DIVISION

ENVIRONMENTAL and WORK HEALTH & SAFETY ASSESSMENT REQUIREMENTS FOR CONSTRUCTION MATERIAL QUARRY PROPOSALS

It is in the best interests of both the proponent and the community to fully assess the resources which are to be extracted. This means that a thorough geological assessment should be undertaken to determine the nature, quality and extent of the resource. Failure to undertake such an assessment could lead to operational problems and possibly even failure of the proposal.

The following issues need to be addressed when preparing an environmental assessment (EA) or environmental impact statement (EIS) for a proposed construction materials (extractive materials) quarry:

Resource Assessment

- 1. A summary of the regional and local geology including information on the stratigraphic unit or units within which the resource is located.
- 2. The amount of material to be extracted and the method or methods used to determine the size of the resource (e.g. drilling, trenching, geophysical methods). Plans and cross-sections summarising this data, at a standard scale, showing location of drillholes and/or trenches, and the area proposed for extraction, should be included in the EA or EIS. Relevant supporting documentation such as drill logs should be included or appended. Major resource proposals should be subject to extensive drilling programs to identify the nature and extent of the resource.
- 3. Characteristics of the material or materials to be produced:
 - a) For structural clay/shale extraction proposals, ceramic properties such as plasticity, drying characteristics (e.g. dry green strength, linear drying shrinkage), and firing characteristics (e.g. shrinkage, water absorption, fired colour) should be described.
 - b) For sand extraction proposals, properties such as composition, grainsize, grading, clay content and contaminants should be indicated. The inclusion of indicative grading curves for all anticipated products as well as the overall deposit is recommended.
 - c) For hard rock aggregate proposals, information should be provided on properties such as grainsize and mineralogy, nature and extent of weathering or alteration, and amount and type of deleterious minerals, if any.
 - d) For other proposals, properties relevant to the range of intended uses for the particular material should be indicated.

Details of tests carried out to determine the characteristics of the material should be included or appended. Such tests should be undertaken by NATA registered testing laboratories.

- 4. An assessment of the quality of the material and its suitability for the anticipated range of applications should be given.
- 5. The amount of material anticipated to be produced annually should be indicated. If the proposal includes a staged extraction sequence, details of the staging sequence needs to be provided. The intended life of the operation should be indicated.
- 6. If the proposal is an extension to an existing operation, details of history and past production should be provided.
- 7. An assessment of alternative sources to the proposal and the availability of these sources. The impact of not proceeding with the proposal should be addressed.
- 8. Justification for the proposal in terms of the local and, if appropriate, the regional context.
- 9. Information on the location and size of markets to be supplied from the site.
- 10. Route(s) used to transport quarry products to market.
- 11. Disposal of waste products and the location and size of stockpiles.
- 12. Assessment of noise, vibration, dust and visual impacts, and proposed measures to minimise these impacts.
- 13. Proposed rehabilitation procedures during, and after completion of, extraction operations, and proposed final use of site.
- 14. Assessment of the ecological sustainability of the proposal.

Health and Safety Issues

In relation to the health and safety of mining and quarrying operations, the following must be addressed:

- 1. All mining operations are to comply with the following legislation:
 - a. Work Health and Safety Act 2011
 - b. Work Health and Safety Regulation 2011
 - c. Work Health and Safety (Mine and Petroleum Sites) Act 2013
 - d. Work Health and Safety (Mine and Petroleum Sites) Regulation 2014
 - e. Explosives Act 2003
 - f. Explosives Regulation 2013.
- 2. The mine holder must appoint a mine operator and notify the Department in writing as required by clause 7 of the *Work Health and Safety (Mines and Petroleum Sites) Regulation 2014* before commencing any mining operations.

3. Other duties and notification and reporting requirements exist under the WHS laws and duty holders must ensure they understand and comply with these requirements.

Mineral Ownership

The *Mining Act 1992* applies to those commodities prescribed by the regulations of the Act (Schedule 2, *Mining Regulation 2016*). Most construction materials are not prescribed minerals under the *Mining Act 1992*. In general terms, this means these materials are owned by the Crown where they occur on Crown land and by the landowner in the case of freehold land. A Mining Title is not required for their extraction although a Crown Lands licence is required where they occur on Crown land.

Construction materials such as sand (other than marine aggregate), loam, river gravel, and coarse aggregate materials such as basalt, sandstone, and granite are not prescribed minerals under the *Mining Act 1992*. Therefore, NSW Division of Resources & Mining has no statutory responsibility for authorising or regulating the extraction of these commodities, apart from its role under the WHS laws with respect to the safe operation of mines and quarries. However, the Department is the principal government authority responsible for assessing the State's resources of construction materials and for advising State and local government on their planning and management.

Some commodities, notably structural clay (ie clay for brick, tile and pipe manufacture), dimension stone (except for sandstone), quartzite, kaolin, limestone and marine aggregate are prescribed minerals under the *Mining Act 1992*. Minerals which are prescribed as minerals under the terms of the Mining Act may, in some cases belong either to the Crown or to an individual, depending on a number of factors including the date on which the mineral was proclaimed and the date of alienation of the land.

The proponent needs to determine whether the material is privately owned or Crown mineral (publicly owned). If it is privately owned, then either a mining lease or mining (mineral owner) lease would be required. If it is a Crown mineral, an application for a mining lease will have to be lodged.

If you are unsure whether a mining title is required for your proposal you should contact NSW Department of Planning & Environment, Resources & Mining Division.



OUT17/13820

Ms Sarah Fabian Resource Assessments NSW Department of Planning and Environment GPO Box 39 SYDNEY NSW 2001

Sarah.fabian@planning.nsw.gov.au

Dear Ms Fabian

Bobs Farm Sand Project (SSD 6395) Request for Secretary's Environmental Assessment Requirements (SEARs)

I refer to your email of 21 March 2017 to the Department of Primary Industries (DPI) in respect to the above matter. Comment has been sought from relevant divisions of DPI. Views were also sought from NSW Department of Industry - Lands that are now a division of the broader Department and no longer within NSW DPI. Any further referrals to DPI can be sent by email to landuse.enquiries@dpi.nsw.gov.au.

DPI has reviewed the application and the original Director General's Environmental Assessment Requirements issued for the project and recommends that the revised SEARs should also require the Environmental Impact Statement to include the following:

Land Resources:

• A biosecurity risk assessment outlining the likely plant, animal and community risks as well as detailed biosecurity response and contingency plans including monitoring and mitigation measures for weed and pest management.

Water Resources:

- Detail on predicted generation and disposal methods of tailings and potential acid forming (PAF) material such as pyrite and whether oxidisation may pose a potential acid sulfate soils risk.
- Groundwater baseline information must be obtained for a minimum 2 years, as per AIP. This baseline information should consider water level and water quality analysis in line with any proposed water uses.

Policies, Guidelines & Plans:

- Reference to *Draft Agricultural Impact Assessment Guidelines 2011 (DP&I)* should be removed as this document has been superseded.
- The section Land Resources should include the following:
 - o Agricultural Impact Statement technical notes (2013)
 - o Land Use Conflict Risk Assessment Guide (2011)
 - o <u>Agricultural Issues for Extractive industry Development (2012)</u>

• The section Water Resources should include <u>NSW Aquifer Interference Policy (2012)</u>

Yours sincerely

Mitchell Isaacs Director, Planning Policy & Assessment Advice 4 April 2017

DPI appreciates your help to improve our advice to you. Please complete this three minute survey about the advice we have provided to you, here: https://goo.gl/o8TXWz



DOC17/204436, EF14/502

NSW Department of Planning and Environment GPO Box 39 SYDNEY NSW 2001

Attention: Ms Sara Fabian

Dear Ms Fabian

STATE SIGNIFICANT DEVELOPMENT 6395 - PROPOSED BOB'S FARM SANDS PROJECT NO AMMENDMENTS TO PREVIOUS ADVICE

Reference is made to your email and attachments dated 21 March 2017 seeking any revision of the Environment Protection Authority's (EPA) Director General's Requirements (DGR's) as provided for the above proposal on 20 February 2014.

The EPA note that no further information is provided regarding the proposal, accordingly the EPA rely on the previous DGR's provided to the Department of Planning and Environment for the proposal dated 20 February 2014.

If you require further information regarding this matter please contact Steve Clair on (02) 4908 6850.

Yours sincerely

STEVE CLAIR Regional Operations Officer - Hunter ENVIRONMENT PROTECTION AUTHORITY

Contact officer: STEVE CLAIR 02 4908 6850

Click here to enter text.

PO Box 488G Newcastle NSW 2300 117 Bull Street, Newcastle West NSW 2302 Tel: (02) 4908 6800 Fax: (02) 4908 6810 ABN 43 692 285 758 www.epa.nsw.gov.au



DOC17/178087-1 SSD 6395

> Ms Sarah Fabian Student Planner, Resource Assessments Department of Planning and Environment sarah.fabian@planning.nsw.gov.au

Dear Ms Fabian

Input into Secretary's Environmental Assessment Requirements for Bobs Farm Sand Project, Bobs Farm (SSD 6395)

I refer to your email dated 21 March 2017 inviting the Office of Environment and Heritage (OEH) to provide input into the Secretary's Environmental Assessment Requirements (SEARs) for the proposed Bobs Farm Sand Project. The project is located on Nelson Bay Road, at Bobs Farm within the Port Stephens local government area. OEH has previously issued Director General Requirements to the Department of Planning and Environment in correspondence dated 24 February 2014. However, rather than re-issue our previous response, OEH is of the view that the project should be compliant with current NSW Government guidelines and policies and as such we recommend that the new Standard SEARs be applied, which for biodiversity incorporate NSW Biodiversity Offsets Policy for Major Projects and the requirement to comply with the Framework for Biodiversity Assessment.

OEH understands that the proposal is State Significant Development under the *Environmental Planning and Assessment Act 1979*, and it includes:

- establishment of a quarry to extract and process sand at a rate of approximately 750,000 tonnes per annum, from a total sand resource of 10 million tonnes;
- construction of extractive materials processing and transport infrastructure;
- transportation of extractive materials off-site via roads; and
- rehabilitation of the site following post-quarrying.

OEH has reviewed the Preliminary Environmental Assessment Report prepared by Tattersall Lander Pty Ltd on behalf of Ammos Resource Management Pty Ltd (dated 13 February 2014) and has prepared Standard SEARs which are presented in **Attachment A**. OEH acknowledges that this information is generic and some sections may not be relevant to the proposal. There are Project Specific SEARs provided for this project for biodiversity matters as per **Attachment B**. **Attachment C** provides guidance material to assist with addressing the SEARs.

This project is to be assessed under the Framework for Biodiversity Assessment (FBA) and must be conducted by a person accredited in accordance with section 142B(1)(c) of the *Threatened Species Conservation Act 1995* (TSC Act). Please note, the FBA does not provide an exemption for removal of the Biodiversity Assessment Report (BAR) where a proponent deems the site (or parts thereof) to be

Locked Bag 1002 Dangar NSW 2309 Level 4/26 Honeysuckle Drive Newcastle NSW 2300 rog.hcc@environment.nsw.gov.au ABN 30 841 387 271 www.environment.nsw.gov.au disturbed, cleared and/or have no apparent ecological value due to current disturbance. Under the Major Project policy the proponent must conduct an assessment in accordance with the FBA and specifically provide a BAR (via an accredited assessor).

The proponent will need to ensure that the biodiversity assessment is fully consistent with requirements of the FBA. Guidance documents to assist with this process are provided in **Attachment C**. OEH notes that OEH's 'Atlas of NSW Wildlife' database indicates that the following threatened species (as per Schedules under the TSC Act) have been recorded within the development footprint (*: recorded on site / property) or near the study area (within 5 km radius): *Diuris arenaria, Diuris praecox, Eucalyptus parramattensis* subsp. *decadens, Grevillea parviflora* subsp. *parviflora, Syzygium paniculatum,* Australasian Bittern, Beach Stone-curlew, Black-necked Stork, Black-tailed Godwit, Brush-tailed Phascogale, Bush Stone-curlew, Dusky Woodswallow, Eastern False Pipistrelle, Eastern Bentwing-bat, Eastern Freetail-bat, Eastern Osprey, Glossy Black Cockatoo, Greater Broad-nosed Bat, Greyheaded Flying-fox, Koala, Little Bentwing-bat, Little Lorikeet, Pied Oystercatcher, Powerful Owl, Sanderling, Sooty Oystercatcher, Southern Myotis, Spotted-tailed Quoll, Squirrel Glider, Swift Parrot, Varied Sittella, Wallum Froglet, White-bellied Sea-eagle and White-fronted Chat. These species must be considered in your assessment (though the assessment should not be restricted to these species).

OEH also notes (based on vegetation mapping) that the following endangered ecological communities may be present on the development site: Swamp Oak Floodplain Forest of the New South Wales North Coast, Sydney Basin and South East Corner Bioregions, and/or Swamp Sclerophyll Forest on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and South East Corner Bioregions.

With respect to threatened biodiversity, OEH considers that under the Framework for Biodiversity Assessment any impacts to *Pterostylis chaetophora* (Tall Rustyhood) and Mahoney's Toadlet (*Uperoleia mahonyi*) are matters that require further consideration.

If you have any further questions in relation to this matter, please contact Steve Lewer, Regional Biodiversity Conservation Officer, on 4927 3158.

Yours sincerely

2017

SHARON MOLLOY ACTING DIRECTOR, HUNTER CENTRAL COAST BRANCH REGIONAL OPERATIONS DIVISION

Enclosure: Attachments A - C

Attachment A – Standard Environmental Assessment Requirements

- **Biodiversity** Biodiversity impacts related to the proposed development are to be assessed and documented in 1. accordance with the Framework for Biodiversity Assessment, unless otherwise agreed by OEH, by a person accredited in accordance with s142B(1)(c) of the Threatened Species Conservation Act 1995. Aboriginal cultural heritage The EIS must identify and describe Aboriginal cultural heritage values that exist across the whole 2. area that will be affected by the development and document these in the EIS. This may include the need for surface survey and test excavation. The identification of cultural heritage values should be guided by the Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (DECCW, 2011) and consultation with OEH regional officers. Where Aboriginal cultural heritage values are identified, consultation with Aboriginal people must 3. be undertaken and documented in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW). The significance of cultural heritage values for Aboriginal people who have a cultural association with the land must be documented in the EIS. Impacts on Aboriginal cultural heritage values are to be assessed and documented in the EIS. The 4. EIS must demonstrate attempts to avoid impact upon cultural heritage values and identify any conservation outcomes. Where impacts are unavoidable, the EIS must outline measures proposed to mitigate impacts. Any objects recorded as part of the assessment must be documented and notified to OEH. **Historic heritage** The EIS must provide a heritage assessment including but not limited to an assessment of impacts 5. to State and local heritage including conservation areas, natural heritage areas, places of Aboriginal heritage value, buildings, works, relics, gardens, landscapes, views, trees should be assessed. Where impacts to State or locally significant heritage items are identified, the assessment shall: a. outline the proposed mitigation and management measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the NSW Heritage Manual (1996), be undertaken by a suitably qualified heritage consultant(s) (note: where archaeological b. excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria), c. include a statement of heritage impact for all heritage items (including significance assessment), d. consider impacts including, but not limited to, vibration, demolition, archaeological disturbance, altered historical arrangements and access, landscape and vistas, and architectural noise treatment (as relevant), and e. where potential archaeological impacts have been identified develop an appropriate archaeological assessment methodology, including research design, to guide physical archaeological test excavations (terrestrial and maritime as relevant) and include the results of
 - these test excavations.

Wa		and soils		
6.	Th	e EIS must map the following features relevant to water and soils including:		
	a.	Acid sulfate soils (Class 1, 2, 3 or 4 on the Acid Sulfate Soil Planning Map).		
	b.	Rivers, streams, wetlands, estuaries (as described in Appendix 2 of the Framework for		
		Biodiversity Assessment.		
	C.	Groundwater.		
	d.	Groundwater dependent ecosystems.		
	e.	Proposed intake and discharge locations.		
7.	Th	The EIS must describe background conditions for any water resource likely to be affected by the		
	dev	velopment, including:		
	a.	Existing surface and groundwater.		
	b.	Hydrology, including volume, frequency and quality of discharges at proposed intake and		
		discharge locations.		
	C.	Water Quality Objectives (as endorsed by the NSW Government		
		www.environment.nsw.gov.au/ieo/index.htm) including groundwater as appropriate that		
		represent the community's uses and values for the receiving waters.		
	d.	Indicators and trigger values/criteria for the environmental values identified at (c) in accordance		
		with the ANZECC (2000) Guidelines for Fresh and Marine Water Quality and/or local		
		objectives, criteria or targets endorsed by the NSW Government.		
8.	The	e EIS must assess the impacts of the development on water quality, including:		
	a.	The nature and degree of impact on receiving waters for both surface and groundwater,		
		demonstrating how the development protects the Water Quality Objectives where they are		
		currently being achieved, and contributes towards achievement of the Water Quality		
		Objectives over time where they are currently not being achieved. This should include an		
		assessment of the mitigating effects of proposed stormwater and wastewater management		
		during and after construction.		
	b.	Identification of proposed monitoring of water quality.		
9.	The	e EIS must assess the impact of the development on hydrology, including:		
	a.	Water balance including quantity, quality and source.		
	b.	Effects to downstream rivers, wetlands, estuaries, marine waters and floodplain areas.		
	C.	Effects to downstream water-dependent fauna and flora including groundwater dependent		
		ecosystems.		
	d.	Impacts to natural processes and functions within rivers, wetlands, estuaries and floodplains		
		that affect river system and landscape health such as nutrient flow, aquatic connectivity and		
		access to habitat for spawning and refuge (e.g. river benches).		
	e.	Changes to environmental water availability, both regulated/licensed and unregulated/rules-		
		based sources of such water.		
	f.	Mitigating effects of proposed stormwater and wastewater management during and after		
		construction on hydrological attributes such as volumes, flow rates, management methods and		
		re-use options.		
	g.	Identification of proposed monitoring of hydrological attributes.		

Flo		ng and coastal erosion ne EIS must map the following features relevant to flooding as described in the Floodplain
10.		evelopment Manual 2005 (NSW Government 2005) including:
	a.	
	b.	Flood planning area, the area below the flood planning level.
	С.	Hydraulic categorisation (floodways and flood storage areas).
		nese should be mapped for both current conditions and for those applying with a projected sea
		vel rise equivalent to that adopted by the relevant council for the year 2100 or if the council has
14		t adopted a sea level rise planning level, for a sea level rise of 0.9 metre above the 1990 level.
11.		The EIS must describe flood assessment and modelling undertaken in determining the design flood
		vels for events, including a minimum of the 1 in 10 year, 1 in 100 year flood levels and the
	-	obable maximum flood, or an equivalent extreme event for current conditions and for the sea
		/el rise referred to in 10), above.
12.		e EIS must model the effect of the proposed development (including fill) on the flood behaviour
	un	der the following scenarios:
	а.	Current flood behaviour for a range of design events as identified above. The 1 in 200 and 1
		in 500 year flood events as proxies for assessing sensitivity to an increase in rainfall intensity
		of flood producing rainfall events due to climate change.
	b.	For a projected sea level rise as described in 10), above
13.	Мо	odelling in the EIS must consider and document:
	a.	The impact on existing flood behaviour for a full range of flood events including up to the
		probable maximum flood.
	b.	Impacts of the development on flood behaviour resulting in detrimental changes in potential
		flood affection of other developments or land. This may include redirection of flow, flow
		velocities, flood levels, hazards and hydraulic categories.
	C.	Relevant provisions of the NSW Floodplain Development Manual 2005.
14.	Th	e EIS must assess the impacts on the proposed development on flood behaviour, including:
	a.	Whether there will be detrimental increases in the potential flood affectation of other properties,
		assets and infrastructure.
	b.	Consistency with Council floodplain risk management plans.
	C.	Compatibility with the flood hazard of the land.
	d.	Compatibility with the hydraulic functions of flow conveyance in floodways and storage in flood
		storage areas of the land.
	e.	Whether there will be adverse effect to beneficial inundation of the floodplain environment, on,
		adjacent to or downstream of the site.
	f.	Whether, having regard to the existing and proposed topography of the land, assess the impact
		of the proposed development on the capacity for ecosystem migration for mean sea levels
		equivalent to council's sea level rise planning level for the year 2100 or if the council has not
		adopted a sea level rise planning level, for a sea level rise of 0.9 metre above the 1990 level.
	g.	Whether there will be direct or indirect increase in erosion, siltation, destruction of riparian
	5	vegetation or a reduction in the stability of river banks or watercourses.
	h.	Any impacts the development may have upon existing community emergency management
		arrangements for flooding. These matters are to be discussed with the SES and Council.

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- i. Whether the proposal incorporates specific measures to manage risk to life from flood. These matters are to be discussed with the SES and Council.
- j. Emergency management, evacuation and access, and contingency measures for the development considering the full range or flood risk (based upon the probable maximum flood or an equivalent extreme flood event). These matters are to be discussed with and have the support of Council and the SES.

k. Any impacts the development may have on the social and economic costs to the community as consequence of flooding.

Attachment B – Project Specific Requirements

1. Biodiversity

A. Impacts on the following species will require further consideration and provision of the information specified in s9.2 of the Framework for Biodiversity Assessment:

Pterostylis chaetophora (Tall Rustyhood) – This is a widespread, though rarely recorded, vulnerable orchid species, which has been recently listed. It is known from Taree to the Hunter Valley, including the Port Stephens local government area; where it is currently known from *c*. 18 scattered locations: in an area between Taree and Kurri Kurri, extending to the south-east towards Tea Gardens and west into the Upper Hunter, with additional records near Denman and Wingen. Specific details on its habitat and distribution are poorly known, though it is known from seasonally moist, dry sclerophyll forest with a grass and shrub understorey. The species has been recorded to the north-west of the proposal within the Grahamstown Dam catchment area; which represents the largest known population (*'hundreds of plants'*) and its current most easterly limit of the its geographic range in NSW. However, given that it has been poorly recorded there is the possibility it occurs elsewhere within its broad geographic range, such as Port Stephens. As such any potential loss could significantly reduce the viability and genetic diversity of this species, and therefore OEH specifically requires that this species is considered (in accordance Section 9 of the FBA).

Given its known habitat preferences and known occurrence within the local government area, OEH is of the opinion this species has the potential to occur on the proposed development site. As such OEH expects appropriately targeted sampling to be undertaken during its known flowering period (September to November [Bishop 2000]) and samples sent to the NSW Herbarium for identification and/or confirmation. OEH will provide assistance with details of the nearby location to assist with the targeted sampling.

Mahoney's Toadlet (Uperoleia mahonyi) - This species has recently (10 March 2017) listed as an endangered species on an emergency basis as set out in Part 2, Division 4 of the NSW Threatened Species Conservation Act 1995. Mahoney's Toadlet is a newly described species of Australian frog (as described in Clulow et al. 2016) which has the potential to occur on the subject site. This species was recently discovered at Oyster Cove and inhabits coastal sandplains of the mid-north NSW coast, from the Port Stephens area to the Central Coast. The species is known to from a number of locations in Port Stephens: Fingal Bay, Grahamstown, Oyster Cove (type location), Medowie, Nelson Bay (golf club) Tomago and Williamtown; including nearby sand mine developments. It is closely related to U. laevigata, which was widely recorded in the Port Stephens area and to which it is easily mistaken with. Clulow et al. (2016) describe this species as a "a habitat specialist, inhabiting coastal ephemeral and semi-permanent swamps and swales, and occasionally man made dams, in heath or wallum habitats almost exclusively on a substrate of white/leached sand". As such suitable habitat exists on the subject site. Given its recently listing and potential confusion with more commonly related taxa, coupled with suitable habitat on the subject site, OEH considers any potential loss of known habitat could significantly reduce the viability and genetic diversity of this species, and therefore OEH specifically requires that this species is considered (in accordance Section 9 of the FBA).

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Although, the potential habitat on the subject site (i.e. swamp forest) is likely to be retained, it has been recorded away from water (as detailed in Clulow *et al.* 2016), and there is community concern regarding the impacts on this species associated with sand mining (e.g. Cabbage Tree Road, to the west of this proposal). As such OEH recommends that targeted surveying be undertaken to determine absence or presence. Surveying should be carried out during its breeding season (i.e. spring: October to November [Clulow *et al.* 2106]), and following rain, over two consecutive nights, and for three hours duration (as per OEH 2009 guidelines). Furthermore, OEH recommends surveying should be conducted by a suitable qualified amphibian specialist who is familiar with the species, given that it is easily confused with closely allied taxa.

References:

Bishop, T. (2000) *Field Guide to the Orchids of New South Wales and Victoria*. Second Edition, University of New South Wales Press Ltd., UNSW, Sydney.

Clulow, S., Anstis, M., Scott Keogh, J. and Catullo, R.A. (2016) A new species of Australian frog (Myobatrachidae: *Uperoleia*) from the New South Wales mid-north coast sandplains. *Zootaxa*, **4184 (2)**: 285-315.

DECC (2009) *Threatened Species Survey and Assessment Guidelines: Field Survey Methods for Fauna – Amphibians*. April 2009. Department of Environment and Climate Change (NSW), Goulburn Street, Sydney.

Attachment C – Guidance material

Title	Web address
	Relevant Legislation
Coastal Protection Act 1979	www.legislation.nsw.gov.au/maintop/view/inforce/act+13+1979+cd +0+N
Commonwealth Environment Protection and Biodiversity Conservation Act 1999	www.austlii.edu.au/au/legis/cth/consol_act/epabca1999588/
Environmental Planning and Assessment Act 1979	www.legislation.nsw.gov.au/maintop/view/inforce/act+203+1979+c
Fisheries Management Act 1994	www.legislation.nsw.gov.au/maintop/view/inforce/act+38+1994+cd +0+N
Marine Parks Act 1997	www.legislation.nsw.gov.au/maintop/view/inforce/act+64+1997+cd +0+N
National Parks and Wildlife Act 1974	www.legislation.nsw.gov.au/maintop/view/inforce/act+80+1974+cd +0+N
Protection of the Environment Operations Act 1997	www.legislation.nsw.gov.au/maintop/view/inforce/act+156+1997+c
Threatened Species Conservation Act 1995	www.legislation.nsw.gov.au/maintop/view/inforce/act+101+1995+c d+0+N
Water Management Act 2000	www.legislation.nsw.gov.au/maintop/view/inforce/act+92+2000+cd +0+N
Wilderness Act 1987	www.legislation.nsw.gov.au/viewtop/inforce/act+196+1987+FIRST +0+N
and the state of t	Biodiversity
NSW Biodiversity Offsets Policy for Major Projects (OEH, 2013)	www.environment.nsw.gov.au/resources/biodiversity/140672biop olicy.pdf
Framework for Biodiversity Assessment (OEH, 2013)	www.environment.nsw.gov.au/resources/biodiversity/140675fba.p df
Fisheries NSW policies and guidelines	www.dpi.nsw.gov.au/fisheries/habitat/publications/policies,- guidelines-and-manuals/fish-habitat-conservation

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List of national parks	www.environment.nsw.gov.au/NationalParks/parksearchatoz.asp X
Revocation, re-categorisation and road adjustment policy (OEH, 2012)	www.environment.nsw.gov.au/policies/RevocationOfLandPolicy.ht m
Guidelines for developments adjoining land and water managed by OEH (DECCW, 2010)	www.environment.nsw.gov.au/resources/protectedareas/10509de vadjdeccw.pdf

Heritage		
The Burra Charter (The Australia ICOMOS charter for places of cultural significance)	http://australia.icomos.org/wp-content/uploads/The-Burra-Charter- 2013-Adopted-31.10.2013.pdf	
Statements of Heritage Impact 2002 (HO & DUAP)	www.environment.nsw.gov.au/resources/heritagebranch/heritage/ hmstatementsofhi.pdf	
NSW Heritage Manual (DUAP) 1996	www.environment.nsw.gov.au/Heritage/publications/index.htm#G-I	

Ab	ooriginal Cultural Heritage
Aboriginal Cultural Heritage Consultation Requirements for Proponents (DECCW, 2010)	www.environment.nsw.gov.au/resources/cultureheritage/commcon sultation/09781ACHconsultreq.pdf
Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010)	www.environment.nsw.gov.au/resources/cultureheritage/10783Fin alArchCoP.pdf
Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH 2011)	www.environment.nsw.gov.au/resources/cultureheritage/2011026 3ACHguide.pdf
Aboriginal Site Recording Form	www.environment.nsw.gov.au/resources/parks/SiteCardMainV1_1 .pdf
Aboriginal Site Impact Recording Form	www.environment.nsw.gov.au/resources/cultureheritage/120558as
Aboriginal Heritage Information Management System (AHIMS) Registrar	www.environment.nsw.gov.au/contact/AHIMSRegistrar.htm
Care Agreement Application form	www.environment.nsw.gov.au/resources/cultureheritage/2011091 4TransferObject.pdf
The Burra Charter and Indigenous Cultural Heritage Management Practice Notes available at:	http://australia.icomos.org/publications/burra-charter- practice-notes
and the second of the second	Water and Soils
Acid sulphate soils	The second s
Acid Sulfate Soils Planning Maps via 'The NSW Natural Resource Atlas'	www.nratlas.nsw.gov.au/
Acid Sulfate Soils Manual (Stone et al. 1998)	www.planning.nsw.gov.au/rdaguidelines/documents/NSW%20Acid %20Sulfate%20Soils%20Planning%20Guidelines.pdf
Acid Sulfate Soils Laboratory Methods Guidelines (Ahern et al. 2004)	http://www.advancedenvironmentalmanagement.com/Reports/Sav annah/Appendix%2015.pdf This replaces Chapter 4 of the Acid Sulfate Soils Manual above.
Flooding and Coastal Erosion	
Reforms to coastal erosion management	www.environment.nsw.gov.au/coasts/coastalerosionmgmt.htm
Floodplain development manual	www.environment.nsw.gov.au/floodplains/manual.htm
Guidelines for Preparing Coastal Zone Management Plans	Guidelines for Preparing Coastal Zone Management Plans www.environment.nsw.gov.au/resources/coasts/130224CZMPGui de.pdf
NSW Climate Impact Profile	NSW Climate Impact Profile
Climate Change Impacts and Risk Management	Climate Change Impacts and Risk Management: A Guide for Business and Government, AGIC Guidelines for Climate Change Adaptation
Water	
Water Quality Objectives	www.environment.nsw.gov.au/ieo/index.htm
ANZECC (2000) Guidelines for Fresh and Marine Water Quality	www.environment.gov.au/water/publications/quality/australian- and-new-zealand-guidelines-fresh-marine-water-quality-volume-1
Applying Goals for Ambient Water Quality Guidance for Operations Officers – Mixing Zones	http://deccnet/water/resources/AWQGuidance7.pdf

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Approved Methods for the Sampling and Analysis of Water Pollutant in NSW (2004)	www.environment.nsw.gov.au/resources/legislation/approvedmeth ods-water.pdf
(2001)	*

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6 April 2017

CR2017/001129 SF2014/001281 DC

Department of Planning & Environment Industry Assessments GPO Box 39 SYDNEY NSW 2001

Attention: Sarah Fabian

NELSON BAY ROAD (B63): PROPOSED SAND QUARRY – LOT 254 DP 753204, LOT 51 DP 1015671 & LOT 10 DP 1071458, NELSON BAY ROAD, BOBS FARM – DIRECTOR GENERAL'S ENVIRONMENTAL ASSESSMENT REQUIREMENTS (SSD 6395)

Reference is made to Department of Planning and Environment's email dated 21 February 2017, requesting Roads and Maritime Services' (Roads and Maritime) requirements under Schedule 2 of the *Environmental Planning and Assessment Regulation 2000* for the Environmental Impact Statement (EIS). It is understood that the Department is seeking updated requirements as the previous requirements issued in March 2014 have expired.

Transport for NSW and Roads and Maritime's primary interests are in the road network, traffic and broader transport issues. In particular, the efficiency and safety of the classified road network, the security of property assets and the integration of land use and transport.

Roads and Maritime has reviewed the preliminary information, prepared by Tattersalls and Landers dated February 2014, for the subject project and provide the following comments.

Roads and Maritime response & requirements

The EIS should refer to the following guidelines with regard to the traffic and transport impacts of the proposed development:

- Road and Related Facilities within the Department of Planning EIS Guidelines, and,
- Section 2 *Traffic Impact Studies* of Roads and Maritime's *Guide to Traffic Generating Developments 2002.*

Roads and Maritime Services

Furthermore, a traffic and transport study shall be prepared in accordance with the Roads and Maritime's *Guide to Traffic Generating Developments 2002* and is to include (but not be limited to) the following:

- Assessment of all relevant vehicular traffic routes and intersections for access to / from the subject properties.
- Current traffic counts for all of the traffic routes and intersections.
- The anticipated additional vehicular traffic generated from both the construction and operational stages of the project.
- The distribution on the road network of the trips generated by the proposed development. It is requested that the predicted traffic flows are shown diagrammatically to a level of detail sufficient for easy interpretation.
- Consideration of the traffic impacts on existing and proposed intersections, in particular, the intersection of the Nelson Bay Road and Marsh Road, and the capacity of the local and classified road network to safely and efficiently cater for the additional vehicular traffic generated by the proposed development during both the construction and operational stages. The traffic impact shall also include the cumulative traffic impact of other proposed developments in the area.
- Identification of the necessary road network infrastructure upgrades that are required to maintain existing levels of service on both the local and classified road network for the development (if required). In this regard, preliminary concept drawings shall be submitted with the EIS for any identified road infrastructure upgrades. However, it should be noted that any identified road infrastructure upgrades will need to be to the satisfaction of Roads and Maritime and Council.
- Traffic analysis of any major / relevant intersections, using SIDRA or similar traffic model, including:
 - Current traffic counts and 10 year traffic growth projections, allowing a 2% background growth on the classified road network
 - o With and without development scenarios considered
 - o 95th percentile back of queue lengths
 - o Delays and level of service on all legs for the relevant intersections
 - Use of SIDRA or similar traffic model
 - Electronic input/output data files for RMS review
- Any other impacts on the regional and state road network including consideration of pedestrian, cyclist and public transport facilities and provision for service vehicles.

Should you require further information please contact Hunter Land Use on 4908 7688 or by email at <u>development.hunter@rms.nsw.gov.au</u>

Yours sincerely

Peter Marler Manager Land Use Assessment Hunter Region