

APPENDIX 1 CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

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Project Number: STAGE1 21921 & STAGE 2 22024

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1 SSD COMPLIANCE MATRIXES

1.1 CONDITION C12 – CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN COMPLIANCE MATRIX

(i) hours of work;	Please see section 2.1.3 of this document
(ii) 24-hour contact details of site manager;	Please see section 2.1.6 of this document
(iii) management of dust and odour to protect the amenity of the neighbourhood;	Please see Section 2.7 of this appendix and; Appendix 5 – Stormwater, sediment & erosion control section 31.4.
(iv) stormwater control and discharge;	Please see Appendix 5 – Stormwater, sediment & erosion control section 31.4 as well as all other sediment & erosion control plans – contained in stormwater management plan as well as plans. All the information contained within these documents is relevant to the control & discharge of Stormwater.
(v) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site;	Please see Section 2.7 of this appendix and; Appendix 5 – Stormwater Management plan, section 31.4, 31.5. C101.05 also details shaker grid
(vi) groundwater management plan including measures to prevent groundwater contamination;	Please see section 2.14 of this plan regarding procedures to prevent groundwater contamination. Please see Appendix 5a – Stormwater, sediment & erosion control, Acid Sulphate management plan – Section 12.1.
(vii) external lighting in compliance with CASA Manual of Standards (MOS-139) Aerodromes with the objectives of minimising light spill;	Please see section 2.20 of this Plan.
(viii) community consultation and complaints handling;	Undertaken by the Client. Please see Appendix 14 – Communication and consultation management page 11.
(b) Construction Traffic and Pedestrian Management Sub-Plan (see condition C13);	Please see Appendix 2 - Construction Traffic & Pedestrian Management Sub-Plan. (Associated matrix included in relevant section)
(c) Construction Noise and Vibration Management Sub-Plan (see condition C14);	Please see Appendix 3 - Noise & Vibration Management. (Associated matrix included in relevant section)
(d) Construction Waste Management Sub-Plan (see condition C15);	See Appendix 4 – Waste Management plan, which includes the Construction Waste Management plan. (Associated matrix included in relevant section)
(e) Construction Soil and Water Management Sub-Plan (see condition C16);	Please see Appendix 5 - Construction Soil & Water Management. (Associated matrix included in relevant section)
(f) Aboriginal Cultural Heritage Management Sub-Plan (see condition C17);	Please see Appendix 6 - Aboriginal Cultural Heritage Management. (Associated matrix included in relevant section)
(g) Biodiversity Management Sub-Plan (see condition C18);	Please see Appendix 7 - Biodiversity Management Sub Plan. (Associated matrix included in relevant section)
(h) Bush Fire and Flood Emergency Response Sub-Plan (see condition C19);	Please see Appendix 8 - Bush Fire Emergency response Sub-plan & Appendix 8a - Flood Management & Response (Associated matrix included in relevant section)
(i) Koala Management Sub-Plan (see condition C20);	Please see Appendix 9 - Koala Management Sub plan & relevant email approving fencing type (Associated matrix included in relevant section)
(j) Findings of the Arboricultural impact assessment report;	Please see Appendix 15 - Findings from Aboriginal Cultural Heritage Impact Assessment
(k) Asbestos Management Plan;	No Asbestos present on site as per the contamination assessments undertaken by RCA (see Appendix 14 contamination assessment section 9.1). See Section 2.11 of this document for procedures should asbestos be encountered.
(l) an unexpected finds protocol for contamination and associated communications procedure;	Please see section 2.11 of this appendix. This will form part of the induction process.
(m) an unexpected finds protocol for Aboriginal and non-Aboriginal heritage and associated communications procedure; and	Please see section 2.9 of this appendix. This will form part of the induction process.
(n) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in	Please see Appendix 13 – RCA Contamination Assessment section 9.2. & Appendix 13A – Remediation Action Plan (Entire plan)

these areas of the site.	
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Management Plan Requirements – C10 Compliance Matrix for above plan

Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:

(a) detailed baseline data;	Baseline data included in relevant sub plans – not applicable to overarching CEMP document
(b) details of:	
(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);	This requirement is addressed in almost all plans and sub plans, for this section, see specifically section 2.23 <i>Relevant Legislation</i>
(ii) any relevant limits or performance measures and criteria; and	Performance measures for all sub plans are identified within the relevant sub plans, but can also be considered subjective within the auditing process identified in section 2.18, as to whether implemented measures are in place and performing the task that they are established for.
(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	Relevant to sub plans – Overarching CEMP not relevant.
(c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	Entire report details the measures to be implemented to
(d) a program to monitor and report on the:	
(i) impacts and environmental performance of the development;	These items appear to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;	As per section 2.18 of this Document, NCB carry out weekly site inspections which include the monitoring of Environmental measures. Independent Auditing has been engaged by the client (Catholic Diocese of Maitland-Newcastle). The programme for this auditing can be found in Appendix 16 – Audit Programme
(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Relevant to some sub plans – Overarching CEMP not relevant.
(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	This item appears to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(g) a protocol for managing and reporting any:	
(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);	Please see section 2.17 of this document
(ii) complaint;	See Appendix 14 – Communication & Consultation management – Page 11 – Complaints dedicated phone number & email
(iii) failure to comply with statutory requirements; and	Please see section 2.17 of this document
(h) a protocol for periodic review/update of the plan and as updates in response to incidents or matters of non-compliance.	Please see Section 2.18 – Auditing section 2.18.1 (internal systems) In addition to the above, Independent compliance auditing will be undertaken in accordance with the Audit Programme identified in Appendix 16 – Audit Programme.

1.2

1.3 CONDITION C13 – CONSTRUCTION TRAFFIC MANAGEMENT SUB-PLAN COMPLIANCE MATRIX

(a) be prepared by a suitably qualified and experienced person(s);	SECA Traffic Solutions – Suitably qualified
(b) be prepared in consultation with Council and TfNSW (RMS);	North Construction & Building Pty Ltd have discussed this plan with Port Stephens Council and submitted the S138 application to their satisfaction. RMS are also satisfied with the plan. See consultation Matrix and evidence.
(c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction in consideration of potential impacts on general traffic, cyclists and pedestrians and bus services;	Please see appendix 2 – CTMP, section 2.6 – Traffic Impacts. Entire report also covers the requirements of this clause.
(d) detail heavy vehicle routes, access and parking arrangements;	Please see appendix 2 – CTMP, section 2.6 – Traffic Impacts. Please also see page 16 <i>Transport Route</i> , which graphically identifies this. Entire report also covers the requirements of this clause.
(e) include a Driver Code of Conduct to:	
(i) minimise the impacts of earthworks and construction on the local and regional road network;	Please see appendix 2 – CTMP, section 10 – Drivers code of conduct. All of the requirements listed in this code of conduct are listed to minimise the impacts to the road network.
(ii) minimise conflicts with other road users;	Please see appendix 2 – CTMP, section 10 – Drivers code of conduct. All of the requirements listed in this code of conduct are listed to minimise the impacts to the road network.
(iii) minimise road traffic noise; and	Please see appendix 2 – CTMP, section 10 – Drivers code of conduct <i>Times</i> . All of the requirements listed in this code of conduct are listed to minimise the impacts to the road network.
(iv) ensure truck drivers use specified routes;	Please see appendix 2 – CTMP, section 10 – Drivers code of conduct <i>Transport Route</i> . All of the requirements listed in this code of conduct are listed to minimise the impacts to the road network.
(f) include a program to monitor the effectiveness of these measures; and	See section 10 of attached appendix 2 – CTMP section 6. Please also note that review of CTMP effectiveness is included in the NCB weekly site safety walk.
(g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.	See section 6 of attached appendix 2 – CTMP section 2.8 & 3.7.

Management Plan Requirements – C10 Compliance Matrix for above plan

Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:

(a) detailed baseline data;	Please see appendix 2 – CTMP – Section 2.3 – Existing Conditions
(b) details of:	
(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);	Please see appendix 2 – CTMP – Section 1.9
(ii) any relevant limits or performance measures and criteria; and	Subjective measures based on visual inspection undertaken in NCB010 as per section 2.18 of this document.
(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	Included in this document, section 2.18. NCB010 form to review effectiveness of TMP as per Section 6 of Appendix 2. Review of measures is subjective, based on visual inspection & study of measures and effectiveness of management system.
(c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	All measures identified within appendix 2 – CTMP have been established to comply with relevant requirements. Prepared by licenced consultants, and reviewed by RMS & Council.
(d) a program to monitor and report on the:	
(i) impacts and environmental performance of the development;	These items appear to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;	As per section 2.18 of this Document, NCB carry out weekly site inspections which include the monitoring of Environmental measures. Independent Auditing has been engaged by the client (Catholic Diocese of Maitland-Newcastle). The programme for this auditing can be found in Appendix 16 – Audit Programme

(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Please see appendix 2 – CTMP – Section 6
(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	This item appears to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(g) a protocol for managing and reporting any:	
(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);	Please see section 2.17 of this document (CEMP requirement is applicable to all sub plans)
(ii) complaint;	See Appendix 14 – Communication & Consultation management – Page 11 – Complaints dedicated phone number & email
(iii) failure to comply with statutory requirements; and	Please see section 2.17 of this document
(h) a protocol for periodic review/update of the plan and as updates in response to incidents or matters of non-compliance.	Please see Section 2.18 – Auditing section 2.18.1 (internal systems) In addition to the above, Independent compliance auditing will be undertaken in accordance with the Audit Programme identified in Appendix 16 – Audit Programme.

1.4 CONDITION C14 – CONSTRUCTION NOISE & VIBRATION MANAGEMENT SUB PLAN COMPLIANCE MATRIX

(a) be prepared by a suitably qualified and experienced noise expert;	Prepared in consultation with Spectrum Acoustics & RAPT CNVMP
(b) describe procedures for achieving the noise management levels in EPA’s <i>Interim Construction Noise Guideline</i> (DECC, 2009);	See the following sections for these procedures & measures: Appendix 3 – Section 30.1 & 30.2 Section 4.7 of Spectrum Acoustics Report
(c) describe the measures to be implemented to manage high noise generating works such as piling, in close proximity to sensitive receivers;	See the following sections for these procedures & measures: Appendix 3 – Section 30.1 & 30.2 Section 4.7 of Spectrum Acoustics Report
(d) include strategies that have been developed with the community for managing high noise generating works;	See the following sections for these procedures & measures: Appendix 3 – 30.2 – Sub point 6.6 - Community consulted and decision made to not access through kingfisher Rd. Very few other close receivers. Section 4.7 of Spectrum Acoustics Report As well as the Community Consultation management strategy
(e) describe the community consultation undertaken to develop the strategies in condition C8; and	See Appendix 14 – Communication & Consultation management. Section 4.7 of Appendix 3 indicates that receivers shall not be “highly affected”.
(f) include a complaints management system that would be implemented for the duration of the construction.	See Appendix 14 – Communication & Consultation management page 11 – dedicated email & phone for complaints.

Management Plan Requirements – C10 Compliance Matrix for above plan

Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:

(a) detailed baseline data;	See Appendix 3 – Table 2 – Ambient Noise levels Table 13 – Theoretical SPL.
(b) details of:	
(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);	NA – Only relevant approvals are the DA/SSd conditions, to which this project is subject to. Hours of operation included in this section, as well as Appendix 3 Table 1 – Recommended Standard hours of construction work.
(ii) any relevant limits or performance measures and criteria; and	See Appendix 3 – Table 3 of section 3.4 (pg10) – Noise Criteria
(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	See Appendix 3 – Section 4.7 – Construction. This section notes that noise levels are not likely to exceed the maximums in place, however notification for loud works will be made in accordance with this plan. Performance indicators shall be based on a complaint/communication basis.
(c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	See Appendix 3 – Section 4.7 – Page 26, second last 2 paragraphs as well as following page.
(d) a program to monitor and report on the:	
(i) impacts and environmental performance of the development;	These items appear to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;	As per section 2.18 of this Document, NCB carry out weekly site inspections which include the monitoring of Environmental measures. Independent Auditing has been engaged by the client (Catholic Diocese of Maitland-Newcastle). The programme for this auditing can be found in Appendix 16 – Audit Programme
(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	See Appendix 3 – Section 4.7 – Page 26. Notification & communication & consultation to manage noise sensitive receivers.
(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	This item appears to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(g) a protocol for managing and reporting any:	

(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);	Please see section 2.17 of this document (CEMP requirement is applicable to all sub plans)
(ii) complaint;	See Appendix 14 – Communication & Consultation management – Page 11 – Complaints dedicated phone number & email
(iii) failure to comply with statutory requirements; and	Please see section 2.17 of this document
(h) a protocol for periodic review/update of the plan and as updates in response to incidents or matters of non-compliance.	Please see Section 2.18 – Auditing section 2.18.1 (internal systems) In addition to the above, Independent compliance auditing will be undertaken in accordance with the Audit Programme identified in Appendix 16 – Audit Programme.

1.5 CONDITION C15 – CONSTRUCTION WASTE MANAGEMENT REPORT - COMPLIANCE MATRIX

(a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations;	See Appendix 4 – Waste Management Plan, sections 3.1 & 4.1.
(b) removal of hazardous materials, particularly the method of containment and control of emission of fibres to the air, and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of any building works.	See appendix 13 & 13a for information on hazardous materials. Only hazardous materials identified are in soil material (not fibrous). Details of containment etc. included in the RAP in Appendix 3a, however these contaminants do not pose any airborne fibre risk. For asbestos & dust management, see Section 2.11 of this document for procedures should asbestos be encountered.

Management Plan Requirements – C10 Compliance Matrix for above plan

Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:

(a) detailed baseline data;	Baseline Data is forecast generation qty's included in tables 3.1 & 4.1.
(b) details of:	
(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);	Please see Appendix 4 – Waste Management Plan – section 2 – Council Requirements
(ii) any relevant limits or performance measures and criteria; and	Please see Appendix 4 – Waste Management Plan – section 3.1 & 4.1 – Waste generation – Estimates of waste produced/recycled.
(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	Please see Appendix 4 – Waste Management Plan – section 3.3 & 4.3 – Waste avoidance & reduction
(c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	Please see Appendix 4 – Waste Management Plan – section 3.1 & 4.1 – Waste generation. Plan implemented to comply with requirements noted in Section 2.
(d) a program to monitor and report on the:	
(i) impacts and environmental performance of the development;	These items appear to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;	As per section 2.18 of this Document, NCB carry out weekly site inspections which include the monitoring of Environmental measures. Independent Auditing has been engaged by the client (Catholic Diocese of Maitland-Newcastle). The programme for this auditing can be found in Appendix 16 – Audit Programme
(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	NA to waste management. Contamination cell as per attached mark up will be over-dug to allow for the disposal of additional material in accordance with RAP as required.
(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	This item appears to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(g) a protocol for managing and reporting any:	
(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);	Please see section 2.17 of this document (CEMP requirement is applicable to all sub plans)
(ii) complaint;	See Appendix 14 – Communication & Consultation management – Page 11 – Complaints dedicated phone number & email
(iii) failure to comply with statutory requirements; and	Please see section 2.17 of this document
(h) a protocol for periodic review/update of the plan and as updates in response to incidents or matters of non-compliance.	Please see Section 2.18 – Auditing section 2.18.1 (internal systems) In addition to the above, Independent compliance auditing will be undertaken in accordance with the Audit Programme identified in Appendix 16 – Audit Programme.

1.6 CONDITION C16 – CONSTRUCTION SOIL & WATER MANAGEMENT SUB PLAN - COMPLIANCE MATRIX

(a) be prepared by a suitably qualified expert, in consultation with Council;	MPC Civil Engineers – Full report in consultation with council, incl NorBE etc. See consultation matrix for further details of consultation.
(b) describe all erosion and sediment controls to be implemented during construction;	Please see sediment & erosion control plans in Appendix 5. Numerous plans relating to this item.
(c) include an Acid Sulfate Soils Management Plan, if required, including measures for the management, handling, treatment and disposal of acid sulfate soils, including monitoring of water quality at acid sulfate soils treatment areas.	Please see Appendix 5a – Acid Sulphate Management Plan. Section 4.2 & 5 provides the treatment, handling, monitoring requirements as required by this clause.
(d) provide a plan of how all construction works will be managed in a wet-weather events (i.e. storage of equipment, stabilisation of the Site);	Please see sediment & erosion control plans in Appendix 5 below as well as notes from MPC stormwater plan included in this appendix. Site will always be established as per these plans which are developed based on the assumption that weather will be wet.
(e) detail all off-Site flows from the Site; and	Please see sediment & erosion control plans in Appendix 5 below as well as notes from MPC stormwater plan included in this appendix. Flow identified on plans C101.00-C101.08
(f) describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 1-year ARI, 1 in 5-year ARI and 1 in 100-year ARI).	Please see sediment & erosion control plans in Appendix 5 below as well as notes from MPC stormwater plan included in this appendix. Plans prepared on the basis of a 1% AEP guide. Measures to be installed as per Civil design documentation included in the appendix.

Management Plan Requirements – C10 Compliance Matrix for above plan

Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:

(a) detailed baseline data;	See Appendix 5 – Construction Soil & Water Management – Section 4.7 – Table identifies baseline data.
(b) details of:	
(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);	See Appendix 5 – Construction Soil & Water Management – Section 3. Details requirements from Port Stephens Council Development Control Plan
(ii) any relevant limits or performance measures and criteria; and	See Appendix 5 – Construction Soil & Water Management – Section 3
(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	See Appendix 5 – Construction Soil & Water Management – Section 3 – NorBE. See details on results of these in section 4.7 – Water quality.
(c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	See Appendix 5 – Construction Soil & Water Management – Section 5 – Construction, as well as plans included as appendix D to this plan.
(d) a program to monitor and report on the:	
(i) impacts and environmental performance of the development;	These items appear to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;	As per section 2.18 of this Document, NCB carry out weekly site inspections which include the monitoring of Environmental measures. Independent Auditing has been engaged by the client (Catholic Diocese of Maitland-Newcastle). The programme for this auditing can be found in Appendix 16 – Audit Programme
(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	See Appendix 5 – Construction Soil & Water Management – Section 3. DCP & NorBE requirements govern that systems are designed with in built contingency (i.e. blocked pipes, 1 in 100 year ARI etc.)
(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	This item appears to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(g) a protocol for managing and reporting any:	
(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);	Please see section 2.17 of this document (CEMP requirement is applicable to all sub plans)

(ii) complaint;	See Appendix 14 – Communication & Consultation management – Page 11 – Complaints dedicated phone number & email
(iii) failure to comply with statutory requirements; and	Please see section 2.17 of this document
(h) a protocol for periodic review/update of the plan and as updates in response to incidents or matters of non-compliance.	Please see Section 2.18 – Auditing section 2.18.1 (internal systems) In addition to the above, Independent compliance auditing will be undertaken in accordance with the Audit Programme identified in Appendix 16 – Audit Programme.

1.7 CONDITION C17 – ABORIGINAL CULTURAL HERITAGE MANAGEMENT SUB-PLAN - COMPLIANCE MATRIX

(a) be prepared by a suitably qualified and experienced expert, in consultation with the Registered Aboriginal Parties;	Biosis Aboriginal Heritage Management Plan included in Appendix 6, note acknowledgements and contributions on page i.
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Management Plan Requirements – C10 Compliance Matrix for above plan

Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:

(a) detailed baseline data;	NA – No baseline data for this. Details of site etc. included, however no “baseline data” Baseline data could be considered information contained in table 2 of the impact assessment, which details the impacts expected.
(b) details of:	
(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);	See appendix 6 – Aboriginal Cultural Heritage Management, section 1.3 – Planning Approvals.
(ii) any relevant limits or performance measures and criteria; and	See appendix 6 – Aboriginal Cultural Heritage Management, section 5.1 – Assessment process & criteria.
(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	See appendix 6 – Aboriginal Cultural Heritage Management, section 6.2.2 – Summary of impacts – as impact is total, management measures will be completed as per the plan at the project commencement.
(c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	See appendix 6 – Aboriginal Cultural Heritage Management, section 6.3 – Mitigation measures
(d) a program to monitor and report on the:	
(i) impacts and environmental performance of the development;	These items appear to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;	As per section 2.18 of this Document, NCB carry out weekly site inspections which include the monitoring of Environmental measures. Independent Auditing has been engaged by the client (Catholic Diocese of Maitland-Newcastle). The programme for this auditing can be found in Appendix 16 – Audit Programme
(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	See appendix 6 – Aboriginal Cultural Heritage Management, section 6.3.4 – Fencing – this ensures the investigation area is completed protected, to ensure the success of the salvage.
(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	This item appears to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(g) a protocol for managing and reporting any:	
(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);	Please see section 2.17 of this document (CEMP requirement is applicable to all sub plans)
(ii) complaint;	See Appendix 14 – Communication & Consultation management – Page 11 – Complaints dedicated phone number & email
(iii) failure to comply with statutory requirements; and	Please see section 2.17 of this document
(h) a protocol for periodic review/update of the plan and as updates in response to incidents or matters of non-compliance.	Please see Section 2.18 – Auditing section 2.18.1 (internal systems) In addition to the above, Independent compliance auditing will be undertaken in accordance with the Audit Programme identified in Appendix 16 – Audit Programme.

1.8 CONDITION C18 – BIODIVERSITY MANAGEMENT SUB-PLAN - COMPLIANCE MATRIX

(a) the BMSP must be prepared by a suitably qualified person and submitted to the Planning Secretary for approval prior to the commencement of construction works on site.	Prepared by Biosis, Environmental Consultants
(b) include all recommendations to mitigate the direct, indirect and prescribed impacts for works contained in the endorsed BDAR and the management and mitigation measures in EIS and Response to Submissions;	See of Appendix 7 – Biodiversity Management Sub plan - Section 4 text & table 5-7
(c) include details of measures to protect the vegetation on the south western part of the Site, specifically the coastal wetlands mapped under the Coastal management.	See Section 3.5 of Appendix 7 – Biodiversity Management Sub plan Also Addressed in VMSP – Appendix 11
(d) Include a Vegetation Management Sub-Plan (VMP) for the Site during the construction works;	Included as Appendix 11 – Vegetation Management Sub Plan
(e) include measures to communicate to the construction workforce the biodiversity values that are to be retained and protected.	See Appendix 7 – S3.2 Appendix 11 – Vegetation Management Sub plan - Section 6.1.1 Appendix 12 – Fauna Management Sub Plan – Section 5 Appendix 9 - Koala Management Sub plan – Section 5
(f) any hollows removed be salvaged and replaced into trees within the vegetated areas to be retained or they be replaced with nest boxes in consultation with Council suitable to native fauna likely to use the site;	Included in Appendix 11 – Vegetation Management Sub Plan Section 6.1.5
(g) include a Fauna Management Plan for the site including details of impacts and proposed mitigation measures due to impact on movement, construction traffic, proposed construction hours, details of any fencing, restricting developments in identified areas, light spill, construction noise and on-site crane movements; and	See Appendix 12 – Fauna Management Sub Plan – Details throughout this report.
(h) include details to install and maintain exclusion fencing along the riparian corridor and around any native vegetation not being removed as part of this development.	See Appendix 7 – Biodiversity Management Sub plan - Section 3.3

Management Plan Requirements – C10 Compliance Matrix for above plan

Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:

(a) detailed baseline data;	See Appendix 7 – Biodiversity Management Sub Plan – Section 2 page 4 See also VMSP – Section 4 page 10 See also KMSP – Section 3 – Page 6
(b) details of:	
(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);	See Appendix 7 – Biodiversity Management Sub Plan – Table 1 , page 27
(ii) any relevant limits or performance measures and criteria; and	See Appendix 7 – Biodiversity Management Sub Plan – Table 3 – Monitoring Program -
(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	See Appendix 7 – Biodiversity Management Sub Plan – Section 5 – Page 18
(c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	See Appendix 7 – Biodiversity Management Sub Plan – Section 3 & 4, pgs 6&10
(d) a program to monitor and report on the:	These items appear to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(i) impacts and environmental performance of the development;	

<p>(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;</p>	<p>As per section 2.18 of this Document, NCB carry out weekly site inspections which include the monitoring of Environmental measures. Independent Auditing has been engaged by the client (Catholic Diocese of Maitland-Newcastle). The programme for this auditing can be found in Appendix 16 – Audit Programme</p>
<p>(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;</p>	<p>See Appendix 7 – Biodiversity Management Sub Plan – Section 6 – Contingency Actions</p>
<p>(f) a program to investigate and implement ways to improve the environmental performance of the development over time;</p>	<p>This item appears to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.</p>
<p>(g) a protocol for managing and reporting any:</p>	
<p>(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);</p>	<p>Please see section 2.17 of this document (CEMP requirement is applicable to all sub plans)</p>
<p>(ii) complaint;</p>	<p>See Appendix 14 – Communication & Consultation management – Page 11 – Complaints dedicated phone number & email</p>
<p>(iii) failure to comply with statutory requirements; and</p>	<p>Please see section 2.17 of this document</p>
<p>(h) a protocol for periodic review/update of the plan and as updates in response to incidents or matters of non-compliance.</p>	<p>Please see Section 2.18 – Auditing section 2.18.1 (internal systems) In addition to the above, Independent compliance auditing will be undertaken in accordance with the Audit Programme identified in Appendix 16 – Audit Programme.</p>

1.9 CONDITION C19 – BUSH FIRE & BOMB THREAT EMERGENCY RESPONSE - COMPLIANCE MATRIX

(a) be prepared by a suitably qualified and experienced person(s);	Bushfire Sub plan prepared by Phillip Couch – Graduate diploma for Design for Bushfire prone Areas & FPAA BPAD – Level 3 accredited. Flood report prepared by NCB Safety Manager
(b) address the Planning for Bushfire Protection 2006;	As per Appendix 8 - Bush Fire Emergency response Sub-plan – Introduction.
(c) address the provisions of the <i>Floodplain Risk Management Guideline</i> (OEH, 2007);	See Appendix 8a – Flood Management & Response section 37.
(d) include details of:	
(i) the bush fire and flood emergency responses for both construction and operation phases of the development;	Please see Appendix 8 - Bush Fire Emergency response Sub-plan – Page 2. See Appendix 8a – 37.2 Operational Phase excluded as not part of construction Scope.
(ii) predicted flood levels;	Please see Appendix 8a - Flood Management & Response – Page 5 BMT map
(iii) flood warning time and flood notification;	See Appendix 8a – Flood Management & Response section 37.1 – No warning time given, but considered by BMT to be substantial.
(iv) assembly points and evacuation routes;	See Appendix 8a – Flood Management & Response section 37.5. This mimics evacuation procedure included in site inductions.
(v) evacuation and refuge protocols; and	See Appendix 8a – Flood Management & Response section 37.2
(vi) awareness training for employees and contractors, and students.	Requirements of Sub plans included within site Induction Booklet. This condition appears to be an operational requirement, which is excluded from the Construction plans.
(vii) the bush fire and flood emergency responses for both construction and operation phases of the development;	Operation phases not applicable to Construction – OC Requirement.

Management Plan Requirements – C10 Compliance Matrix for above plan

Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:

(a) detailed baseline data;	See Appendix 8a – Flood Planning levels. No baseline data on Bushfire plans
(b) details of:	
(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);	See Appendix 8 – Introduction See appendix 8a - Page 6 of BMT report – details of compliance authorities, however no lease or license conditions.
(ii) any relevant limits or performance measures and criteria; and	As these are response procedures, no performance measures are available.
(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	As these are response procedures, no performance indicators are available. Section 4.3 of Appendix 8 identifies evacuation drills, which would be used to assess the performance of the measures included.
(c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	Please see Appendix 8 – Bush fire response plan, Evacuation process – Fire warden to ensure compliance. Entire plan developed in order to comply with requirements. Flood – See Appendix 8a – Measures included in section 37.2 relating to the evacuation procedure. Response measures only. Prevention measures not required given the low risk nature.
(d) a program to monitor and report on the:	
(i) impacts and environmental performance of the development;	These items appear to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;	As per section 2.18 of this Document, NCB carry out weekly site inspections which include the monitoring of Environmental measures. Independent Auditing has been engaged by the client (Catholic Diocese of Maitland-Newcastle). The programme for this auditing can be found in Appendix 16 – Audit Programme
(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that	Both plans are entirely contingency plans, being evacuation procedures. Environmental impacts are not assessable.

ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	
(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	This item appears to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(g) a protocol for managing and reporting any:	
(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);	Please see section 2.17 of this document (CEMP requirement is applicable to all sub plans)
(ii) complaint;	See Appendix 14 – Communication & Consultation management – Page 11 – Complaints dedicated phone number & email
(iii) failure to comply with statutory requirements; and	Please see section 2.17 of this document
(h) a protocol for periodic review/update of the plan and as updates in response to incidents or matters of non-compliance.	Please see Section 2.18 – Auditing section 2.18.1 (internal systems) In addition to the above, Independent compliance auditing will be undertaken in accordance with the Audit Programme identified in Appendix 16 – Audit Programme.

1.10 CONDITION C20 – KOALA MANAGEMENT SUB PLAN - COMPLIANCE MATRIX

(a) the KMSPP must be prepared by a suitably qualified person and submitted to the Planning Secretary for approval prior to the commencement of construction works on site;	Prepared by Biosis Environmental Consultants
(b) Identify habitat corridors, of adequate dimensions to provide an adequate Koala habitat corridor supported by a Koala specialist;	See Appendix 9 – Koala Management Sub Plan – Section 3.3
(c) include details of structures to eliminate barriers to movement (presented by fences, roads, drainage culverts or pits and the like) for koalas and other native fauna likely to use the site or habitat corridor;	See Appendix 9 – Koala Management Sub Plan – Section 4.1
(d) include details of Koala feed tree offsets in accordance with the Port Stephens Tree Technical Specification 2014.	See Appendix 9 – Koala Management Sub Plan – Section 6
(e) include all recommendations to mitigate impacts for works contained in the EIS and the endorsed BDAR and the management and mitigation measures in EIS and Response to Submissions;	See Appendix 9 – Koala Management Sub Plan – Section 5
(f) include details monitoring, management and maintenance procedures for Koala habitat corridors;	See Appendix 9 – Koala Management Sub Plan – Section 7
(g) include measures to communicate to the construction workforce the presence of Koala habitat and that are to be retained and protected; and	See Appendix 9 – Koala Management Sub Plan – Section 5 Also included in Site induction Booklet
(h) include other measures to minimise the risk of harm to koalas.	See Appendix 9 – Koala Management Sub Plan – Section 5 & 8

Management Plan Requirements – C10 Compliance Matrix for above plan

Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:

(a) detailed baseline data;	See Appendix 9 – Koala Management Sub Plan – Section 1.1
(b) details of:	
(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);	See Appendix 9 – Koala Management Sub Plan –Section 3 & 7.1
(ii) any relevant limits or performance measures and criteria; and	See Appendix 9 – Koala Management Sub Plan – Section 7
(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	See Appendix 9 – Koala Management Sub Plan – Table 2 – section 5
(c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	See Appendix 9 – Koala Management Sub Plan – Section 5
(d) a program to monitor and report on the:	See Appendix 9 – Koala Management Sub Plan – Section 6
(i) impacts and environmental performance of the development;	These items appear to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;	As per section 2.18 of this Document, NCB carry out weekly site inspections which include the monitoring of Environmental measures. Independent Auditing has been engaged by the client (Catholic Diocese of Maitland-Newcastle). The programme for this auditing can be found in Appendix 16 – Audit Programme
(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	See Appendix 9 – Koala Management Sub Plan – Section 7.2

(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	This item appears to be relating to ongoing operational monitoring, which is excluded from the Construction Environmental Management Plan.
(g) a protocol for managing and reporting any:	
(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);	Please see section 2.17 of this document (CEMP requirement is applicable to all sub plans) See Appendix 12 – Fauna Management Plan – Section 6.1, 6.2 & 6.3
(ii) complaint;	See Appendix 14 – Communication & Consultation Strategy – Page 11 - Complaints
(iii) failure to comply with statutory requirements; and	See this document, section 2.6.5
(h) a protocol for periodic review/update of the plan and as updates in response to incidents or matters of non-compliance.	See Appendix 12 – Fauna Management Plan – Section 7.1 Please see Section 2.18 – Auditing section 2.18.1 (internal systems) In addition to the above, Independent compliance auditing will be undertaken in accordance with the Audit Programme identified in Appendix 16 – Audit Programme.

2 DEMOLITION & CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

2.1 PROJECT DETAILS

Catherine McAuley Catholic College is a new school located in Medowie, at 507 Medowie Rd. The first stage of the schools construction involves the majority of the civil and earthworks on the site, as well as the construction of the first 3 school buildings, being Blocks A, B & Q, these buildings are currently under construction & due for completion in December 2020. Stage 2 consists of 2 new school buildings Block C & D

Construction over the site is predominantly concrete slabs on ground founded on screw piles. Construction of the 5 blocks differ slightly, as detailed below:

Block A: Block A is a 2 storey building, detailed to include a post tensioned suspended slab for level 1, structural steel framing, with an Aramax Freespan Roof.

Block Q: Block Q is a conventional build with a combination of Structural steel and steel frames and trussed as the predominant structure, with façade finishes including cladding & brickwork.

Block B: Block B is the school & community chapel and will be constructed of Precast Panels and structural steel. Hydronic heating will be the predominant means of heating for the building.

Block C: Is a new single storey Science Department and will be constructed of Precast Concrete Panels, light weight metal cladding and Metal Roof Sheets

Block D: Is a new single storey TAS Department and will be constructed of Precast Concrete Panels, light weight metal cladding and Metal Roof Sheets

Covered walkway between Block A & Block C, constructed in structural steel with Metal Roof sheeting.

A large amount of landscaping around the site is also included as part of the Stage 1 & 2 works.

2.1.1 Site Location



2.1.2 Programme Details

The works are estimated to commence in August 2019, with Stage 1 due for completion in December 2020 & Stage 2 May 2021.

2.1.3 Working Hours

The site will be in operation during the working hours of:

- between 7am and 6pm, Mondays to Fridays inclusive; and
- between 8am and 1pm, Saturdays.

2.1.4 Client

Catholic Diocese of Maitland Newcastle (ABN 91 605 046 457)

Address: 984 Hunter Street Newcastle West 2302

Phone: 02 4979 1111

2.1.5 Head Contractor

North Construction & Building Pty Ltd (ABN 15 147 507 702)

Address: Level 5, Suite 501, 1 Bryant Drive, Tuggerah NSW 2259

Phone: 02 4323 2633

2.1.6 24 Hour Site Contact

Jonathan Horton: 0411 223 354

2.2 OBJECTIVES OF THE SITE SPECIFIC PROJECT ENVIRONMENTAL MANAGEMENT PLAN

- Ensure environmental safeguards are implemented correctly;

- Ensure compliance with the requirements of all relevant environmental legislation, conditions of any applicable Licence, approval and permit;
- Ensure that works are managed to reduce adverse impacts on the environment; and
- Ensure all requirements of SSD 8989 are achieved

2.3 CONTENT OF THE SITE SPECIFIC PROJECT ENVIRONMENTAL MANAGEMENT PLAN

- This section is the site specific management plan for this project
- assignment of responsibility for planning, approving, implementing, maintaining, assessing and monitoring of environmental controls
- details of the potential environmental effects and the operational control measures which are to be implemented to comply with statutory requirements and provide environmental protection in accordance with the requirements of the Contract
- details of how environmental protection will be maintained for each subcontractor's activities, including full details in accordance with above
- environmental monitoring program and report forms for recording all monitoring activities, including periodic inspections and inspections essential for monitoring high risk events, of the adequacy of operational controls together with measurements for aspects where compliance limits have been specified
- locations of environmental controls and environmentally sensitive areas, with particular reference to how the effectiveness of such controls will be ensured in any environmentally sensitive areas
- how actions will be taken to ensure compliance and improvement issues are controlled and managed
- communication procedures
- emergency response procedures for containing environmental damage and procedures for planning restoration activities
- environmental training and induction program
- details of how the changes to environmental management documentation and data are to be identified and communicated to relevant project personnel
- mechanism for regular evaluation of environmental performance
- Environmental auditing program

2.4 RECORDS OF ENVIRONMENTAL ACTIVITIES

Refer to the procedures set out in the [PRO023 Control of Records](#).

2.5 TRAINING

The Project Manager and Site Foreman have compiled this document and will be responsible for its implementation. This document will continue to be developed as the project progresses and evolves. Prior to subcontractors starting onsite the Site Foreman will ensure that they have an understanding of their requirements of this plan and will, if required, implement environmental controls into their SWMS. Once the subcontractors enter the site, the site foreman will induct workers to ensure that they are made aware of their requirements under this Plan. The site foreman will monitor compliance with this plan through work inspections, and HSE walks which include SWMS compliance to ensure that the subcontractor's obligations are met.

2.6 ENVIRONMENTAL PLAN IMPLEMENTATION

2.6.1 Site Induction & Internal Communication with Workers

Prior to working on site, all personnel and subcontractors will undertake an environmental site induction. This induction will form part of the site specific induction. The induction addresses a range of issues including, but not limited to:

- Legal requirements including due diligence and duty of care.
- Environmental responsibilities.
- Conditions of any licences, permits and approvals.
- The North Environmental Policy.
- Significant environmental issues and sensitive environmental areas of the site.
- Environmental Incident management and reporting process.
- Emergency Response Plans.
- Protection and maintenance of environmental controls.
- Storage location of hazardous materials and SDS Register.
- Finding heritage (Indigenous / Non-Indigenous) items on site.
- Mitigating dust during construction works.
- Environmental control installation must be in place before construction works begins.

2.6.2 Training Records

Records of all training would be kept and maintained on site in accordance with [PRO023 Control of Records](#) and should include:

- Who was trained
- When the person was trained
- The name of the trainer
- A general description of the training content

2.6.3 Training

- The Project Manager and Site Foreman will be familiar with the environmental issues raised in the Site Specific Project Environmental Management Plan.
- Relevant environmental issues will be passed onto the subcontractors prior to entering the site and during the site induction;
- If required, regular tool box talks will be scheduled to remind site workers of the environmental issues and their required compliance;
- If there is a change to the Site Specific Project Environmental Management Plan (Section 27 of this document) or environmental requirement, the Contracts Administrator will alert the subcontractors in writing and ensure SWMS are adjusted to suit. Where necessary the Site Supervisor will call a site meeting / tool box talk and alert all relevant site personnel.
- Site induction records of environmental issues will be kept along with minutes from tool box talks / site meetings.

2.6.4 Compliance and Improvement Issues

North Construction will apply non-conformance control and corrective and preventive action procedures in accordance with the quality system to address any environmental management deficiencies. As part of this the detected non-conformance will be reviewed and developed to enable corrective action to eliminate the cause of non-conformities. This would include both the determination of immediate action to prevent recurrence, as well as long term corrective action.

2.6.5 Consequences of non-compliance

Consequences may include contractual recourse, fines or legislative recourse, programme and cost impacts, if North Construction fails to comply with its environmental obligations under the Contract. Failure includes:

- Comply with, and to ensure compliance by subcontractors with, any requirements of the Specification involving environmental control or rehabilitation; or
- Act promptly when environmental controls are observed not to be effective by the Contractor, Client, or by any Statutory Authority having jurisdiction over the Works.

Notification to governing bodies to be made immediately if any non-compliances are identified.

2.7 AIR QUALITY & DUST CONTROL

2.7.1 During Construction

- Review Sediment & Erosion control measures in Appendix 5 in addition to the below requirements.
- North Constructions will ensure that all its construction facilities erected on the site are operated to minimise the emission of odours, smoke, dust, cement dust and other substances into the atmosphere.
- Construction methods will be employed as required that will keep air pollution to a minimum, to ensure that airborne pollutants from activities onsite do not cause undue disruption or inconvenience.
- Where appropriate and/or required by the client, removal of mud from the wheels and bodies of haulage equipment before they enter public roads or other sealed pavements by means of facilities such as truck wash downs and wheel washes.
- NCB will cease dust generating activities which cannot be adequately controlled by water or other means;
- Where applicable;
 - plant and equipment not be left idling when not in use.
 - Stabilise unsealed construction access routes through use of coarse aggregates;
 - Progressively rehabilitate and revegetate areas of disturbance including, where necessary undertaking short-term stabilisation of temporary stockpiles and disturbed areas.
 - Limiting areas of vegetation and soil disturbance through delineating work areas to minimise the potential for erosion.
 - Delivery of raw materials (gravel and sand) in load covered trucks.
- Trucks not to be overfilled so that excavated material drops onto the roadways. All loads carried on public roads or in areas that could affect private property, to be covered.
- Any excessive materials dropped onto externally sealed roads to be cleaned up as soon as possible.
- Truck tailgates to be securely closed before leaving the site.
- All vehicles and machinery must comply with the Office of Environment & Heritage requirements and be fitted with properly maintained emission controls relevant to their date of manufacture.
- The area of construction disturbance to be minimised wherever possible.
- The burning of timber and other combustible materials shall not be permitted.

2.8 EXTERNAL & COMMUNITY COMMUNICATION

Community Liaison Works will be under the control of the Catholic Diocese of Maitland & Newcastle for this project. NCB will coordinate with the Principal to assist with any construction related announcements. Construction relation communication will adhere to the below requirements.

2.8.1 Prior to Construction

- A dilapidation Report of adjacent roads and properties will be undertaken prior to construction.
- All community relevant announcements and safety documentation is to be sent to the Principal for their upload to the Public website for the project. This includes:
 - Traffic Management details
 - Commencement of Construction Notices
- All personnel performing works on Site (including subcontractors) are to be made fully aware during their site inductions that complaints received from the general public must be courteously directed to the North Construction & Building site supervisor.

2.8.2 During Construction

- The community should be kept informed of any disruptions which may affect the community via submissions to the Principal for their inclusion on the Project Website.
- A contact number / email address will be provided for the community to call to lodge any concerns on site notices.
- Monthly construction update reports will be submitted to the Principal for their inclusion on the Project Website.
- The local community shall be kept informed of any construction activities outside normal working hours which may generate noise via submissions to the Principal for their inclusion on the Project Website.
- Signage will be erected in a prominent position on any work site on which work is being carried out stating that "unauthorised entry to the work site is prohibited"
- The North Construction site signage will include contact telephone number(s) for the person in charge of the work site for all hours.

2.9 ABORIGINAL HERITAGE

2.9.1 Prior to Construction

- The Aboriginal Cultural Investigation works are to be undertaken in accordance with the recommendations identified in reports prepared by Biosis.
- Areas are to be flagged off and identifiable by others to ensure that no works can occur within this zone until the cultural survey works are completed.

2.9.2 During Construction

- Should any unidentified objects potentially being of Aboriginal heritage be discovered on site, works in the area are to cease, and contact is to be made to Biosis (The Aboriginal Cultural experts engaged on this project).
- Works are not to commence until such time that the unidentified object has been investigated, catalogued and clearance provided by Biosis.
- Please review *Appendix 6 - Aboriginal Cultural Heritage Management* for further details

2.10 EUROPEAN HERITAGE

- From a review of currently available documentation and reports available, there are no known items likely to be present on site. Should any item be encountered which is suspected to be a relic of heritage value, all construction work will cease that might affect the item and protect the item from damage or disturbance. The Clients representative will be notified by North Construction immediately, who will then arrange for an officer of the Office of Environment & Heritage to be consulted.
- Any heritage relics or sites discovered during construction shall be reported to the NSW Heritage Office and the immediate area made secure. If disturbance to any suspected relics or site is proposed, an excavation permit (s140 Heritage Act) if required, shall be sought from the Heritage Council.

2.11 CONTAMINATION

2.11.1 Prior to Construction

- If there is any evidence of contamination not previously identified in the contamination assessment (Asbestos, heavy metals, etc.), Works in the area shall cease and further testing should be carried out by an appropriately trained contractor to identify the level of contamination and determine the appropriate procedure for works to continue.
- Remediation works are to occur in accordance with the Remediation Action Plan prepared by RCA.

2.11.2 During Construction

- In the event that construction personnel unearth potentially contaminated soils (due to suspicious odour or appearance) works must cease and the North Construction Environmental Manager contacted;
- NCB and its subcontractors will comply with the Contaminated Land Management Act 1997 in relation to disturbance or treatment of potentially contaminated ground.
- Further testing should be carried out by a qualified consultant.
- Soil which is required to be disposed of offsite will be classified against the guideline values presented in the Office of Environment & Heritage NSW (1999) Environmental Guidelines, Assessment, Classification and Management of Liquid and Non-Liquid Wastes before being transported and disposed of to a suitably licensed waste treatment facility.
- Any unexpected suspicious material will be stockpiled, tested and then disposed of to an Office of Environment & Heritage approved landfill or facility according to the results of the testing.

2.12 PLANT AND EQUIPMENT

2.12.1 During Construction

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- All plant/equipment operators and employees shall be instructed to confine operations to within the clearly marked area of site operations.
- Vehicles or equipment hauling material over public roads shall be fitted with tight tailgates, dust covers and be free of soil.
- All exhausts from plant/equipment shall be visually monitored to ensure they are kept to a minimum acceptable level.
- All plant/equipment shall be inspected daily to avoid leakage of fuel, oil or hydraulic fluid. Machinery found to be leaking shall be repaired or replaced.
- Mufflers shall be fitted to all construction plant and equipment to meet Environment Protection Authority requirements.
- Cleaning out of batched concrete mixing plant at approved areas within the site for drying out and recycling.
- Operators of plant/equipment shall be instructed to carry out re-fuelling and maintenance within a bunted area. No vehicle maintenance permitted outside the construction compounds.
- All machinery shall be secured against vandalism outside working hours.
- All plant/equipment shall be washed out in an appropriately protected and bunted area to prevent erosion and pollution the permanent drainage system.
- Utilisation of appropriately sized plant and machinery for each application in order to minimise the production of waste and to minimise consumption of resources.

2.12.2 Post Construction

- All false work, formwork or piles used during construction and not forming part of the permanent works, shall be completely removed from the site.
- All work sites shall be restored in a satisfactory manner and where necessary in accordance with the appropriate regulations.

2.13 SITE COMPOUND AND WORKING AREA

2.13.1 Prior to Construction

- A construction compound shall be appropriately secured and shall be made safe to the public.
- The site compound shall include a site office, meal and wash sheds, toilet facilities, storage for fuel, oil, chemical and other materials, waste/rubbish facilities and shall display emergency procedure signs.
- The site working area for construction shall be located within the designated area as identified on the site plan.
- Designate appropriate area for parking that will minimise any impact upon the environment.
- Designate appropriate areas for plant maintenance and repairs; fuel and chemical storage; stockpiles; storage; that will minimise any impact upon the environment.

2.14 FUEL AND CHEMICALS

2.14.1 Prior to Construction

- The use and storage of all chemicals will be in accordance with [HRPRO011 Hazardous Chemicals](#).
- The spillage of a chemical, fuel or lubricant must be rectified and contained immediately to prevent drainage to any nearby water way or groundwater.
- A secure, lockable storage area shall be provided for storage of fuel, oil and other chemicals within the site compound/storage shed.
- Products and processes that are non-toxic or less hazardous to the environment are to be encouraged at the procurement stage.

2.14.2 During Construction

- Chemical, fuel and lubricant storage areas must be suitably located and protected to minimise the impact of any spillage or contamination on or around the site.
- If any contaminant material (for example leachate, waste oil, drums of chemicals and asbestos) is encountered during excavation and piling, then all work shall cease at that site until the

nature and extent of the material has been established and an appropriate disposal strategy has been developed.

- Subcontractors are strongly encouraged to purchase non-toxic or less hazardous products that will not (or have less impact) harm the wellbeing of people and the surrounding environment. They will also be required to provide SDS for all products used on the site.
- Contaminated materials collected after an accidental spill shall be handled and disposed of in accordance with SDS and Statutory requirements.

2.14.3 Post Construction

- Any contaminated material (empty drums, rags, contaminated soils etc) shall be removed immediately from the site and disposed of in accordance with the appropriate regulations.

2.15 FLORA AND FAUNA

- Please review Appendix 12 for Fauna & Fauna Management Sub-Plan

2.16 HERBICIDES AND OTHER CONTAMINANTS

- For this project it is not expected that Herbicides will be used on site
- If Herbicides or other contaminants are required on site, then a risk assessment will be conducted to determine the potential impacts and appropriate controls that will be put in place (based of the HoC) prior to them the chemical being used on site.

2.17 ENVIRONMENTAL/POLLUTION INCIDENT RESPONSE MANAGEMENT

2.17.1 Environmental Issue/ Community Complaint/Incident reporting

All workers on site are required to report incident immediately to the site supervisor/foreman. North will report and investigate the incident in accordance with [PRO022 Incident Reporting and Investigation](#).

Monitoring and close out of corrective actions will be conducted in accordance with [PRO021 Corrective & Preventative Action](#).

North Construction will, within one (1) working day of receiving a complaint about any environmental issue, arising from the work under the Contract, supply a written report to the Client detailing the complaint and immediate action taken to alleviate the problem. A final report with proposed measures to prevent the occurrence of a similar incident must be submitted to the Client within five (5) (insert actual reporting timeframe) working days using the Standard Form [NCB016 Incident Report](#) & the "Incident Investigation & Report" form [NCB017](#).

A complaints register will be kept on site as part as part of the incident reporting and investigation records file, which is within the North's Site Folder.

2.17.2 Liaison with Authorities

NCB will notify the appropriate authority of pollution incidents on or around the site which have occurred in the course of the project activities in the following circumstances:

- if the actual or potential harm to the health or safety of human beings or ecosystems is not trivial,
- If actual or potential loss or property damage (including clean-up costs) associated with a pollution incident exceeds \$10,000.

In the event of a pollution incident NCB will notify each relevant authority (identified below) when material harm to the environment is caused or threatened. The following information and procedures may assist those responsible for reporting a pollution incident.

- Firstly, call 000 if the incident presents an immediate threat to human health or property. Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, as they are responsible for controlling and containing incidents.
- If the incident does not require an initial combat agency, or once the 000 call has been made, notify the relevant authorities in the following order. The 24-hour hotline for each authority is given when available:
- the appropriate regulatory authority for the activity under the POEO Act (usually the EPA or local authority – the local authority is a local council of an area under the Local Government Act 1993),
- the EPA, phone Environment Line on 131 555
- the Safework Authority – phone 13 10 50

North Construction will notify the Client in writing within 24 hours of any pollution incidents which involve the Office of Environment & Heritage. North Construction will prepare a report, using standard form [NCB017](#) on each occasion when the site is visited by the Office of Environment & Heritage, notifying the Client (where appropriate) of the purpose and outcome of the Office of Environment & Heritage visit and of all actions being taken by the Contractor in response to the Office of Environment & Heritage visit. *This report should be submitted to the Client within 5 working days of the Office of Environment & Heritage site visit*

2.18 ENVIRONMENTAL ACTIONS MONITORING

Daily monitoring along with weekly site inspections (NCB010) will be conducted to check that the environmental control measures are being employed. This will be adjusted and addressed to suit the stage of the project at the time of inspection.

2.18.1 Auditing

Weekly inspections (NCB010) will be kept onsite along with the [quarterly audit \(NCB011\)](#) that is completed by the Project Manager / Site Foreman. The quarterly audit will include aspects of the Site Specific Project Environmental Management Plan (section 27) to verify targets and requirements are being met.

Should an environmental incident or non-compliance occur, an out of sequence Quarterly Audit (NCB011) is to be undertaken, and all plans reviewed for effectiveness. Updates are to be made to ensure issues do not recur.

2.19 HERBICIDES AND OTHER CONTAMINANTS

- For this project it is not expected that Herbicides will be used on site
- If Herbicides or other contaminants are required on site, then a risk assessment will be conducted to determine the potential impacts and appropriate controls that will be put in place (based of the HoC) prior to them the chemical being used on site.

2.20 LIGHT SPILL

Given the proximity of the Newcastle Airport and RAAF base, consideration will be made with regards to light spill, particularly at night. Site Manager shall be responsible for ensuring all lights are turned off at the end of the day to ensure no light spill at night. Any security lights are to be aimed at the ground, not upwards, in compliance with CASA Manual of Standards (MOS-139) Aerodromes with the objectives of minimising light spill.

2.21 ROLES AND RESPONSIBILITIES

Refer to Project roles & Responsibilities

<p>Environmental Manager</p>	<ul style="list-style-type: none"> North Construction & Building Safety Manager (John Melvin) is the Company’s Senior Management representative for Environment. The Safety Manger has a general overview of the project and provides reports to the Managing Director North Construction.
<p>Project Manager</p>	<ul style="list-style-type: none"> Development of project specific environmental management plans & communicating adequately to site supervisors Ensuring compliance with Environmental Protection Authority legislation, regulations, standards and codes for each project. Developing emergency procedures for site, and implementing same. Ensuring site personnel complete risk assessments Determining procedures for managing environmentally sensitive areas Determining procedures for managing hazardous products including its removal from site Reviewing the Development Consent for the Project and ensuring the appropriate controls are included in this Plan Reporting of environmental incidents to the relevant Authorities and to the Client if required. Assessing subcontractors and suppliers abilities to comply with Environmental Management System requirements. reviewing and authorising the Project Environmental Management Plan and other project plans; assigning Environment responsibilities to all project personnel; ensuring all project personnel are suitably trained, and possess the necessary skills, to undertake their designated Environment responsibilities; continually monitoring of Environment performance to ensure compatibility and continued effectiveness with the policy and objectives; communicating Environment performance to the Senior Project Manager; providing sufficient resources to ensure the Site Specific Project Environmental Management Plan practices are implemented; participating in the review of the project Environment system and other relevant Environment meetings and programs; ensuring appropriate training in Environment is provided to all project personnel. ensuring the Site Specific Project Environmental Management Plan is correctly implemented to meet the requirements of the project; liaising with project staff in the monitoring of environmental controls; ensuring nonconforming environmental controls and practices are reported; reviewing environmental monitoring & inspection reports and ensuring any actions required are initiated; ensuring subcontractors fulfill their environment obligations; attending meetings called to discuss environment issues; identifying and documenting environment system problems; assisting with the updating of the Site Specific Project Environmental Management Plan; reviewing environmental activities in Inspection and Test Plans, Project Forms/Checklists; registering and investigating environmental complaints liaising with the Environment assurance representative from the client, stakeholders and Interested Parties

<p>Site Foreman/ Site Supervisors</p>	<ul style="list-style-type: none"> • assisting in the auditing/assessment of suppliers/subcontractors; • Ensuring compliance with EPA legislation, regulations, standards and codes at a site based level. • Developing and implementing emergency procedures for site. • Ensuring site personnel complete environmental risk assessments • Ensuring the workplace is protected & safe • Determining procedures for managing unsafe materials, plant and equipment • Verifying, by way of inspections and tests, that work areas, work methods, materials, plant and equipment comply with EPA legislation, regulations, standards and codes. • Implementing corrective actions to prevent recurrences of work site incidents and illness/injury. • Undertaking environmental hazard identification and risk assessment and implementing appropriate risk controls. • Initial reporting of environmental incidents to the Project Manager • ensuring environmental controls are established prior to commencement of construction activities; • ensure environmental aspects are included in the preparation of ITP's and Safe Work Method Statements; • performing Environment inspections as required by the system; • identifying and reporting environmental nonconformance and notifying the PM of the suspected nonconformance; • ensuring and verifying that corrective action is taken when required for nonconforming work. • ensuring procedures in the Site Specific Project Environmental Management Plan are followed; • perform surveillance and monitoring of environmental controls to ensure that they are established and maintained with requirements; • ensuring that environmental protection requirements are communicated to all personnel and subcontractors; • carrying out the agreed rectification works after identification of nonconformance.
<p>Workers</p>	<ul style="list-style-type: none"> • Are charged with complying with and participating in the active management of the Site Specific Project Environmental Management Plan, including implementation of agreed policy and procedures, review of the procedures and the use of personal common sense. • Preparation of trade specific Safe Work Method Statements & environmental risk assessments. • Details of the activities each subcontractor will be performing and the environmental implications; • The environmental controls the subcontractor will plan, implement and monitor regarding environmental protection measures and how environmental records will be kept; • How environmental protection measures on subcontracted work interface with adjacent work areas

2.22 SUBCONTRACTORS

North Construction will monitor the subcontractor’s environmental compliance and the effectiveness of the subcontractor’s environmental protection measures through the following methods.

SUB-CONTRACTOR ENVIRONMENTAL COMPLIANCE			
Sub-contractor	Activity	Proposed Environmental Controls	Monitoring of Environmental Compliance by Principal Contractor
Earthworks	Excavate & Fill to site, compaction of material	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.
Concrete	Detail Excavation, formwork, concrete	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.
Structural Steel	Installation of structural steel	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.
Masonry	Laying of Blocks, Bricks	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.
Roofing and Cladding	Installation of cladding and roofing products	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.
Linings	Installation of Plasterboard and Linings	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.
Tiling	Installation of Floor and Wall Tiles	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.

Painting	Applications of paint to various surfaces	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.
Floor Finishes	Application of epoxy paints and floor toppings	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.
Electrical Services	Installation of all electrical services	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.
Hydraulic Services	Installation of all Hydraulic Services	Will follow all the relevant environmental safeguards of within Section 27 of this document	<ul style="list-style-type: none"> • Inspection of work practices on a daily basis • Site H.S.E. Inspection Checklist (NCB010) to be completed weekly.

2.23 RELEVANT LEGISLATION

North Construction will comply with the relevant local, state & federal environmental legislations were appropriate. Please see the following acts environmental legislation which may apply: (Note: Copies of all legislation are available online)

Environmental Planning Legislation

Environmental Planning and Assessment Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/epaaa1979389/

Local Government Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/lga1993182/

Roads Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/ra199373/

Soil Conservation Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/sca1938215/

National Parks and Wildlife Conservation Act, (Cwlth) http://www.austlii.edu.au/au/legis/cth/num_act/npawca1975390/

Conservation and Heritage Legislation

Native Vegetation Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/nva2003194/

National Parks and Wildlife Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/npawa1974247/

Threatened Species Conservation Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/tsca1995323/

Environment Protection and Biodiversity Conservation Act, (Cwlth)

http://www.austlii.edu.au/au/legis/cth/consol_act/epabca1999588/

Noxious Weeds Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/nwa1993182/

Water Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/wa191283/

Water Management Act (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/wma2000166/

Heritage Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/ha197786/

Australian Heritage Commission Act, (Cwlth) http://www.austlii.edu.au/au/legis/cth/num_act/ahca1975311/

Aboriginal and Torres Strait Islander Heritage Protection Act, (Cwlth)

http://www.austlii.edu.au/au/legis/cth/consol_act/aatsihpa1984549/

Pollution and Waste Management Legislation

Protection of the Environment Operations Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/poteoa1997455/

Waste Avoidance and Recovery Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/waarra2001364/

Contaminated Land Legislation

Contaminated Land Management Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/clma1997238/

Fire Control

Rural Fires Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/rfa1997138/

Hazardous Substances

Environmentally Hazardous Chemicals Act, (NSW) http://www.austlii.edu.au/au/legis/nsw/consol_act/ehca1985373/

Tasks will be reviewed prior to commencing and the site team will assess if these tasks fall within the requirements of the development application or legislative acts. If this is the case, an application will be made to the relevant legislative body.

**3 APPENDIX 1 – SUB PLAN - CONSTRUCTION ENVIRONMENTAL
MANAGEMENT PLAN (CONDITION C11/C12)**

4 APPENDIX 2 – SUB PLAN - CONSTRUCTION TRAFFIC AND PEDESTRIAN MANAGEMENT (CONDITION C13)

**5 APPENDIX 3 – SUB PLAN - CONSTRUCTION NOISE AND VIBRATION
MANAGEMENT (CONDITION C14)**

**6 APPENDIX 4 – SUB PLAN - CONSTRUCTION WASTE MANAGEMENT
(CONDITION C15)**

7 APPENDIX 5 – SUB PLAN - CONSTRUCTION SOIL AND WATER MANAGEMENT PLAN (CONDITION C16)

**8 APPENDIX 5A – SUB PLAN – ACID SUPHATE SOILS MANAGEMENT
(CONDITION C16)**

**9 APPENDIX 6 – SUB PLAN - ABORIGINAL CULTURAL HERITAGE MANAGEMENT
(CONDITION C17)**

10 APPENDIX 7 – SUB PLAN - BIODIVERSITY MANAGEMENT (CONDITION C18)

11 APPENDIX 8 – SUB PLAN - BUSH FIRE & BOMB THREAT EMERGENCY RESPONSE (CONDITION C19)

12 APPENDIX 8A – SUB PLAN - FLOOD EMERGENCY RESPONSE (CONDITION C19)

13 APPENDIX 9 – SUB PLAN - KOALA MANAGEMENT (CONDITION C20)

14 APPENDIX 10 – SUB PLAN – WORKCOVER – WORK NEAR OVERHEAD POWERLINES

15 APPENDIX 10A – SUB PLAN – AUSGRID – WORK NEAR OVERHEAD POWERLINES

16 APPENDIX 11 – SUB PLAN – VEGETATION MANAGEMENT PLAN (CONDITION C18 & E32)

17 APPENDIX 12 – FAUNA MANAGEMENT SUB PLAN – (CONDITION C18)

18 APPENDIX 13 – CONTAMINATION ASSESSMENT - WASTE CLASSIFICATION OF CONTAMINATED MATERIAL

19 APPENDIX 13A – REMEDIATION ACTION PLAN

20 APPENDIX 14 – CDMN COMMUNICATION AND CONSULTATION MANAGEMENT

21 APPENDIX 15 – FINDINGS FROM ABORIGINAL CULTURAL HERITAGE IMPACT ASSESSMENT