

SEP Scope and Timeframe	
This SEP covers the wharf and describes key generic environmental management measures described in the relevant Operational Controls identified below, and particular site specific environmental management measures to be implemented in addition to those generic measures.	
All controls and monitoring systems must be in place before construction starts. Note: Compliance with the requirements of this SEP will be inspected and audited in accordance with the BBA CEMP.	
Key Potential Environmental Impacts	
<ul style="list-style-type: none"> Inadequate erosion controls during construction could lead to adverse impacts on the Tamar Estuary. Pile installation will generate underwater noise, which could disturb marine mammals and aquaculture facilities Onshore excavation work could uncover cultural heritage values. Work could disturb threatened species, communities or habitats. Noise and dust emissions from construction have the potential to impact on neighbours. 	
Relevant Operational Controls	
Erosion and Sediment Control	BBA-OCO-1000-1400-0001
Soil and Water Management	BBA-OCO-1000-1400-0002
Contaminated Soil Management	BBA-OCO-1000-1400-0003
Acid Sulphate Soil Management	BBA-OCO-1000-1400-0004
Site Preparation and Rehabilitation	BBA-OCO-1000-1400-0005
Fire Management	BBA-OCO-1000-1400-0006
Storage and Use of Hazardous Materials	BBA-OCO-1000-1400-0007
Air Quality Management	BBA-OCO-1000-1400-0008
Trenching and Pipeline Installation Management	BBA-OCO-1000-1400-0009
Noise and Vibration Control	BBA-OCO-1000-1400-0010
Flora and Fauna Management	BBA-OCO-1000-1400-0011
Weed and Pathogen Management	BBA-OCO-1000-1400-0012
Cultural Heritage Management	BBA-OCO-1000-1400-0013
Waste Management	BBA-OCO-1000-1400-0014
Light Escape Control	BBA-OCO-1000-1400-0015
Spill Management	BBA-OCO-1000-1400-0016
Erosion and Sediment Control & Soil and Water Management	
EP/OC Ref: 01 Erosion and Sediment Control (BBA-ENP/OCO-1000-1400-0001) and 02 Soil and Water Management (BBA-ENP/OCO-1000-1400-0002)	
Performance Criteria: <ul style="list-style-type: none"> Achieve the Urban Storm water: Best Practice Environmental Management Guidelines performance objective of a median suspended solid discharge concentration of not greater than 50 mg/L at the point of drainage discharge. Ensure that the environmental values of the Tamar Estuary are not compromised by wharf construction works. 	
Key Management Measures	Responsibility
Survey (SFM (October 2007) Geotechnical Risk Assessment Bell Bay Pulp Mill Site) found for land instability:	Superintendent
<ul style="list-style-type: none"> Likelihood of occurrence – not credible Property consequences – minor Risk to property – very low Risk implications – risk acceptable. No special measures required. Investigate is circumstances or site knowledge change.	
The area of disturbance is to be kept to a minimum.	Superintendent
The following erosion and sediment controls must be implemented:	Superintendent
<ol style="list-style-type: none"> Silt fencing. Interception bunds or drains. Dirty water drains. Sedimentation basin. Wheel Cleaning Facility at each egress point. Gravel access roads as required to control dust or mud on roads. 	
Gross pollutant traps shall be placed at the approximate locations indicated on the SEP map and other locations as deemed required.	Superintendent
Take remedial action if turbidity of sedimentation basin discharges indicate that suspended solids concentration may exceed 50 mg/L.	Superintendent
Contaminated Soil and Acid Sulphate Soil Management	
EP/OC Ref: 03 Contaminated Soil Management (BBA-ENP/OCO-1000-1400-0003) and 04 Acid Sulphate Soil Management (BBA-ENP/OCO-1000-1400-0004)	
Performance Criteria: <ul style="list-style-type: none"> Avoid risk to human health and ecosystems from exposure to contaminated soil. Avoid risk to ecosystems from exposure to Acid Sulphate Soil (ASS). 	
Key Management Measures	Responsibility
Survey (SFM (October 2007) Geotechnical Risk Assessment Bell Bay Pulp Mill Site) found for contamination:	Superintendent
<ul style="list-style-type: none"> Likelihood of occurrence – not credible Property consequences – insignificant Risk to property – very low Risk implications – risk acceptable. No special measures required. Investigate is circumstances or site knowledge change.	
Survey (SFM (October 2007) Geotechnical Risk Assessment Acid Sulphate Soils Bell Bay Pulp Mill Site) found for ASS:	Superintendent
<ul style="list-style-type: none"> Likelihood of occurrence – unlikely Property consequences – minor Risk to property – low Risk implications – risk acceptable. No special measures required. Investigate is circumstances or site knowledge change.	
Site Preparation and Rehabilitation	
EP/OC Ref: 05 Site Preparation and Rehabilitation (BBA-ENP/OCO-1000-1400-0005)	
Performance Criteria: <ul style="list-style-type: none"> In areas identified to be rehabilitated, undertake rehabilitation and revegetation practices to a condition at least equivalent to pre-construction, appropriate for the future land use. 	
Key Management Measures	Responsibility
In areas to be rehabilitated undertake rehabilitation procedures as per BBA-OCO-1000-1400-0005.	Superintendent
Fire Management	
EP/OC Ref: 06 Fire Management (BBA-ENP/OCO-1000-1400-0006)	
Performance Criteria: <ul style="list-style-type: none"> Implement a fire procedure so that any unplanned fires occurring on site are controlled. 	
Key Management Measures	Responsibility
For clearing activities implement weather monitoring and shut down procedures as per Attachment 1 of BBA-OCO-1000-1400-0006.	Superintendent
In the event of a fire, the Fire Management Procedures to be implemented as per Attachment 2 of BBA-OCO-1000-1400-0006.	Superintendent

A fire response kit is maintained at the pulp mill site office (the location is shown on the map of the Pulp Mill SEP (BBA-SEP-1670-1400-0003)).	Superintendent
Hazardous Materials, Fuels and Lubricants	
EP/OC Ref: 07 Storage and Use of Hazardous Materials (BBA-ENP/OCO-1000-1400-0007)	
Performance Criteria: <ul style="list-style-type: none"> Minimise chemical and fuel storage on-site. Ensure any hazardous materials and dangerous goods are adequately stored and managed. Implement a contingency plan to handle spills, so that environmental damage is avoided. No discharge of hazardous materials or dangerous goods to waterways or soil. Manage all hazardous waste consistent with the requirements of Industrial Waste Management Policies, regulations and DTAE guidelines. 	
Key Management Measures	Responsibility
The classification of materials brought onto site shall be determined prior to use. All hazardous/dangerous substances containers must be clearly & properly labelled.	Superintendent
No hazardous/dangerous substances shall be used without a current Material Safety Data Sheet (MSDS).	All personnel
All MSDS's shall be registered and be available onsite at all times.	Superintendent
All handling and usage of hazardous/dangerous substances shall be in accordance with the recommended requirements of each specific MSDS and Job Safety Environment Analysis (JSEA).	Superintendent
All loose fuel and lubricant drums shall be stored within a bunded area regardless of whether they are full or empty.	Superintendent
Refuelling is not to take place in any location where spillage may contaminate surrounding waterways or topsoil stockpiles.	Superintendent
Spill kits available. Operators trained in the use of spill kits.	Superintendent
Plant shall be serviced and inspected regularly for oil and fuel leaks. Any leaks detected shall be rectified as soon as possible.	Superintendent
Spills shall be contained (and cleaned up) onsite by the use of earth bunds, spill kits or other suitable means.	Superintendent
If a chemical or oil spill occurs in the Tamar Estuary inform the Spill Response Coordinator immediately.	Site Environmental Officer
Air Quality Management	
EP/OC Ref: 08 Air Quality Management (BBA-ENP/OCO-1000-1400-0008)	
Performance Criteria: <ul style="list-style-type: none"> Construction activities to be managed to maintain air quality standards. No unacceptable nuisance dust. Visible smoke from construction plant shall not persist for longer than 15 second (for off road plant) and 10 seconds (for plant registered for use on public roads), other than at start-up. Minimise community dust-related complaints during construction. 	
Key Management Measures	Responsibility
Cover loads where leaving construction site.	Superintendent
Water access roads, earthwork areas and spoil heaps as necessary to suppress dust.	Superintendent
Modify or suspend activities during extreme wind conditions if dust is a problem.	Superintendent
Limit speeds on access road if necessary to reduce dust generation.	Superintendent
Apply and enforce speed restrictions on access road.	Superintendent
Topsoil stockpiles to be covered with vegetation chippings.	Superintendent
Noise and Vibration Control	
EP/OC Ref: 09 Noise and Vibration Control (BBA-ENP/OCO-1000-1400-0010)	
Performance Criteria: <ul style="list-style-type: none"> Minimise noise from equipment, plant, vehicles and project infrastructure to all reasonable and practicable extents. Minimise community noise and vibration complaints during construction. 	
Key Management Measures	Responsibility
Noise labels shall be affixed to new mobile air compressors. The unit with the lowest noise rating that meets the requirements of the job shall be used where work is likely to affect a noise sensitive location.	Superintendent
All mechanical plant shall be silenced by best practical means using current technology. Noise suppression devices shall be maintained to the manufacturer's specifications. Internal combustion engines shall be fitted with a suitable muffler in good repair.	Superintendent
All plant / equipment shall be maintained / serviced according to manufacturer's requirements.	Superintendent
Noise and vibration complaints to be investigated by Community Relations Manager / Site Environmental Officer within 2 hours of complaint receipt.	Community Relations Manager
Pile driving must be restricted to daylight hours (in summer, nominally 6 am to 9 pm).	Superintendent
During pile driving, monitor underwater noise in the vicinity of the Van Diemen aquaculture facility.	Superintendent
If underwater noise in the vicinity of the Van Diemen aquaculture facility during pile driving exceeds background underwater noise by more than 2 dB, use air bubble curtains during pile driving to reduce transmission of underwater noise.	Superintendent
Flora and Fauna Management	
EP/OC Ref: 11 Flora and Fauna Management (BBA-ENP/OCO-1000-1400-0011)	
Performance Criteria: <ul style="list-style-type: none"> No disturbance outside site boundary. Minimise the disturbance area. Minimise impact of construction activities on native flora, fauna and the aquatic environment. Minimise the impact on marine mammals 	
Key Management Measures	Responsibility
The area of disturbance is to be kept within the designated site boundary.	Superintendent
Senior project staff shall directly supervise:	Site Environmental Officer
<ul style="list-style-type: none"> The clearing of all vegetation, to ensure that only the specified vegetation is removed. Dumping and stockpiling of soil and mulch as required must be done appropriately (eg. no stockpiling on retained native vegetation). 	
All vessels arriving in Australian waters from overseas will meet relevant quarantine controls, guided by the AQIS Maritime Awareness Kit.	Superintendent
Implement the marine mammal watch procedures described in the plan accompanying this SEP.	Superintendent
Weed and Pathogen Management	
EP/OC Ref: 12 Weed and Pathogen Management (BBA-ENP/OCO-1000-1400-0012)	
Determined not to be a high risk area	
Performance Criteria: <ul style="list-style-type: none"> No spread of weeds or pathogens due to project activities. 	
Key Management Measures	Responsibility
All equipment to be transported to site shall be washed and cleaned at the designated wash point on the access road (see BBA-SEP-1670-1400-0003). This process will remove soil deposits adhering to tyres, tracks, mudguards, suspension, differentials, buckets etc.	Superintendent
The transporting truck shall also be cleaned if progressing	Superintendent

beyond the wash down point.		
All vehicles progressing beyond the wash down point and which will be leaving formed roads/surfaces to be washed and cleaned.	Superintendent	
All equipment to be inspected and checked for residual dirt prior to being permitted on site with remedial action taken.	Superintendent	
Cultural Heritage Management		
EP/OC Ref: 13 Cultural Heritage Management (BBA-ENP/OCO-1000-1400-0013)		
Performance Criteria: <ul style="list-style-type: none"> Ensure there is no unanticipated impact on sites of Aboriginal heritage significance. Ensure there is no impact on sites of historic heritage significance. 		
Key Management Measures	Responsibility	
Once the site is marked out, but prior to clearing, buffers prescribed for Historic heritage sites to be checked and confirmed.	Site Environmental Officer	
If any unanticipated potential heritage items are discovered the Contingency Protocol will be invoked (refer ENP-1000-1400-0013).	Superintendent	
Waste Management		
EP/OC Ref: 14 Waste Management (BBA-ENP/OCO-1000-1400-0014)		
Performance Criteria: <ul style="list-style-type: none"> Ensure there are no potential hazards to human health and the environment as a result of waste generation and management for the construction and operation phases of the Project. Minimise waste through the adoption of best practice waste reduction and disposal procedures. 		
Key Management Measures	Responsibility	
Site to be kept free of litter.	Superintendent	
The site shall be maintained in a clean and tidy condition.	Superintendent	
Wastes shall be stored in designated receptacles on site, as applicable.	Superintendent	
Waste generation on site shall be minimised, wastes shall be reused or recycled, where practicable.	Superintendent	
Recyclable and non-recyclable waste must be stored in separate bins prior to transport to the mill site's centralised waste storage facility (see BBA-SEP-1000-1400-0001).	Superintendent	
Any hazardous waste is to be managed by a licensed contractor and handled and transported for disposal to a DTAE approved site.	Site Environmental Officer	
Any chemical wastes are to be placed in sealed drums for collection by a waste contractor and off-site treatment or management in accordance with the manufacturer's instructions.	Site Environmental Officer	
Light Escape Control		
EP/OC Ref: 15 Light Escape Control (BBA-ENP/OCO-1000-1400-0015)		
Performance Criteria: <ul style="list-style-type: none"> Minimise community light escape complaints during construction. Minimise light escape impacts on migratory, threatened or nocturnal species. 		
Key Management Measures	Responsibility	
Design the lighting to ensure there is minimal disturbance to the local community or nocturnal species.	Design Manager	
Keep all temporary lighting directed internally towards site.	Superintendent	
Spill Management		
EP/OC Ref: 16 Spill Management (BBA-ENP/OCO-1000-1400-0016)		
Performance Criteria: <ul style="list-style-type: none"> Adequate equipment and procedures to respond to any credible spill events. In the event of a spill, rapid and coordinated deployment of response personnel and equipment and protection of flora and fauna. 		
Key Management Measures	Responsibility	
Spill response equipment described in Attachment 1 of OCO-1000-1400-0016 shall be stored on site throughout the construction period.	Site Environmental Officer	
All earthmoving machinery shall be subjected to a daily start-up check for leaks.	Superintendent	
All earthmoving machinery shall have on-board spill cleanup equipment sufficient for that machine.	Superintendent	
BBA Spill Response Coordinator (or deputy) must be notified of any spills as soon as practical after they have occurred, to allow spill cleanup coordination.	Site Environmental Officer	
In the event of a spill, Spill Management Procedures to be implemented as per Attachment 1 BBA-OCO-1000-1400-0016.	Superintendent	
Environmental Monitoring		
Environmental Monitoring Program		
Performance Criteria: <ul style="list-style-type: none"> Event based monitoring sufficient to detect any exceedance of water quality objectives. Event based monitoring sufficient to detect any unacceptable release of nuisance dust. Event based noise complaint process sufficient to respond to any complaints of unreasonable noise. Remedial action taken to remedy any exceedances of environmental objectives. 		
Key Management Measures	Responsibility	
Turbidity monitoring of estuary waters during pile driving.	Site Environmental Officer	
Water sampling and in situ measurements as detailed in the Construction Environmental Monitoring Program document.	Gunns Environmental Manager	
Remedial action to be taken if field turbidity reading indicates that suspended solids concentration may exceed 50 mg/L.	Superintendent	
Regular inspection of automated dust detection system and webcam vision shall be undertaken to detect any unacceptable release of nuisance dust.	Site Environmental Officer	
Remedial action to be taken if webcam vision inspection identifies unacceptable release of nuisance dust.	Superintendent	
Regular review of continuous noise monitoring and vibration data. Investigation of any noise complaints.	Site Environmental Officer	
Remedial action to be taken if noise complaints are reasonable and warranted.	Superintendent	
Points of Contact		
BBA Superintendent	NAME TO BE ADVISED	PHONE TO BE ADVISED
BBA Site Environmental Officer	NAME TO BE ADVISED	PHONE TO BE ADVISED
BBA Environmental Manager	NAME TO BE ADVISED	PHONE TO BE ADVISED
BBA Community Relations Officer	NAME TO BE ADVISED	PHONE TO BE ADVISED
BBA Spill Response Officer	NAME TO BE ADVISED	PHONE TO BE ADVISED
Van Diemen operations manager	NAME TO BE ADVISED	PHONE TO BE ADVISED
State Pollution Control Officer	NAME TO BE ADVISED	PHONE TO BE ADVISED
Port of Launceston spill officer	NAME TO BE ADVISED	PHONE TO BE ADVISED