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Hastings Export Power Generation Stormwater Management Plan

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Rev	Date	Description	By	Checked	Approved
A	28/03/2022	For review	WP	BL	
B	06/04/2022	Incorporating comments –draft for submission	WP	BL	

Issue	Stormwater Management – Construction Phase
Purpose	To provide a set of Best Practice site management procedures to control the severity and extent of soil erosion and pollutant transport during the earthworks and construction phase.
Performance Criteria	<p>The quality of discharge from the site to satisfy the following Water Quality Objectives (WQOs):</p> <ul style="list-style-type: none"> • Oils and Grease – no visible films or odour. • Litter – no visible litter washed or blown from the site • Sediment – no excessive sedimentation of runoff to enter the stormwater drains
Training & Induction	<ol style="list-style-type: none"> 1. Induction training detailing the environmental hazards and risks onsite, incident response procedures and roles and responsibilities 2. Undertake toolbox meetings every day, prior to starting work for that day, where possible
Responsibility	The Construction Contractor will be responsible for the implementation of this Stormwater Management Plan (SWMP) during the course of all construction activities.
Implementation Strategy	<p>Clean-up of general site litter on a weekly basis, prior to anticipated heavy rainfall and after significant rainfall events (>25mm/24hours).</p> <p>Landscaping activities and revegetation, consistent with the bushfire management procedures, to occur as soon as practical after completion of earthworks and construction activities within the immediate area of the HGP footprint.</p> <p>Only appropriate herbicides and fertilisers to be used.</p> <p>The storage and handling of flammable and combustible liquids is managed in accordance with AS1940–1993.</p> <p>A detailed Erosion and Sediment Control Plan (ESCP), prepared by the Construction Contractor, must be submitted to, and approved by, Esso prior to site establishment and commencement of vegetation clearing or soil disturbance within each subdivision stage.</p> <p>Where appropriate, ESCPs must incorporate guidelines on the treatment, protection and</p>



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Issue	Stormwater Management – Construction Phase
	stabilisation of exposed dispersive soils.
Monitoring	<p>Erosion and sediment control (ESC) measures to be inspected daily by the Person-in-Charge (PIC) (or nominated representative) during periods of runoff-producing rainfall, and de-silted, repaired and amended as appropriate to maintain the WQOs.</p> <p>(a) Daily site inspections, during periods of runoff-producing rainfall must include:</p> <ul style="list-style-type: none"> • all drainage, erosion and sediment control measures; • occurrences of excessive sediment deposition (whether on-site or off-site); • all site discharge points. <p>(b) Weekly site inspections must include:</p> <ul style="list-style-type: none"> • all drainage, erosion and sediment control measures; • occurrences of excessive sediment deposition (whether on-site or off-site); • occurrences of construction materials, litter or sediment placed, deposited, washed or blown from the site, including deposition by vehicular movements; • litter and waste receptors; • oil, fuel and chemical storage facilities. <p>(c) Site inspections immediately prior to anticipated runoff-producing rainfall must include:</p> <ul style="list-style-type: none"> • all drainage, erosion and sediment control measures; • all temporary flow diversion (e.g. around stockpiles). <p>(d) Site inspections immediately following runoff-producing rainfall must include:</p> <ul style="list-style-type: none"> • all drainage, erosion and sediment control measures; • occurrences of excessive sediment deposition (whether on-site or off-site); • occurrences of construction materials, litter or sediment placed, deposited, washed or blown from the site, including deposition by vehicular movements; • occurrences of excessive erosion, sedimentation, or mud generation around the site office, car park and material storage areas. <p>(e) In addition to the above, monthly site inspections must include:</p> <ul style="list-style-type: none"> • surface coverage of finished surfaces (both area and percentage cover); • health of recently established vegetation; • proposed staging of future site clearing, earthworks and site/soil stabilisation. <p>Note that water quality monitoring maybe required if excessive sedimentation is entering the stormwater drains.</p>
Auditing	ESCP reviews are to be carried out on a monthly basis to assess the implementation strategy.
Identification of Incident or Failure	<p>Non-compliance with agreed performance criteria will be identified by:</p> <ol style="list-style-type: none"> 1. Visual inspections identifying: <ul style="list-style-type: none"> • build-up of sediment off the site; • excessive sediment build-up on the site; • excessive erosion on the site; • release of construction material from the site; • poor vegetation establishment; • poorly maintained, damaged or failed ESC devices. 2. Deteriorated water quality identified by water analysis (pH, turbidity) as being attributable to the construction activities

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Issue	Stormwater Management – Construction Phase
Corrective Action	<p>After any identification of incident or failure, the source/cause is to be immediately located and the following measures implemented:</p> <ul style="list-style-type: none">• Build-up of sediment off the site – the material must be collected and disposed of in a manner that will not cause ongoing environmental nuisance or harm; then on-site ESC measures amended, where appropriate, to reduce the risk of further sedimentation.• Excessive sediment build-up on the site – collect and dispose of material, then amend up-slope drainage and/or erosion control measures as appropriate to reduce further occurrence.• Severe or excessive rill erosion – investigate cause, control up-slope water movement, re-profile surface, cover dispersive soils with a minimum 100 mm layer of non-dispersive soil, and stabilise with erosion control blankets and vegetation as necessary.• Off-stream erosion – fill rills, vegetate and install velocity control measures.• Release of construction material from the site – collected and disposed of in a manner that will not cause ongoing environmental nuisance or harm; then inspect litter and waste receptors.• Poor vegetation growth or soil coverage – plant new vegetation and/or mulch as required. Newly planted and previously planted areas may require supplementary watering and replanting. All new plantings to comply with the requirements set out in the bushfire management plan• Sediment fence failure – replace and monitor more frequently. Regular failures may mean that the sediment fence location, alignment or installation may need to be amended. <p>If the release of excessive sediment and/or other materials off the site occurs, clean up deposition, and inspect all control measures.</p> <p>If the release of excessive sediment and/or other materials off the site is identified during two consecutive site inspections, then review and revise the ESCP, or otherwise reduce the rate, extent and/or duration of soil exposure.</p>
Reporting	<p>Construction contractor will report monthly during the construction at each stage. Reporting will identify performance of the implementation strategy, monitoring, identification of incidents and failure, and necessary/adopted corrective action. Reports will be submitted to Esso (or their appointed representative) monthly. These reports will be available for submission to the Regulator, if requested.</p>

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