





Non-Compliance Event 14-day Report


In accordance with Condition 5 (c) of the Coordinator General Change Report (CGCR) – this report provides written advice to the Environmental Monitor and the Coordinator-General, within 14 days of the 48-hour NCE notification.

NCE Ref	CRRDA-NCE-TSD -002	NCE Ref (DA)	CRRDA-003
Reported by	Delivery Authority	Date Reported to CG	21 April 2020 (note: a 7-day extension was agreed to by the Coordinator-General)
Date, time and location of event	Inspection completed at the Boggo Road worksite on 19 February 2020 and 27 March 2020. NCE Notification 31 March 2020.		
Short description of the Event	<p>The relevant project works for the Boggo Road worksite are operating under a Construction Environmental Management Plan (CEMP) (Rev 3) and sub-plans which included an Erosion and Sediment Control (ESC) Sub-plan. In accordance with Imposed Condition 18, this sub-plan must also be consistent with the Guidelines for Best practice Erosion and Sediment Control (International Erosion and Sediment Control Association, 2008) (IECA, 2008). These management plans have been reviewed and endorsed by the Project's approved Environmental Monitor (EM).</p> <p>In accordance with IECA, 2008, site specific ESC design (Site Establishment Works and Piling Works – 8.01.2020) was prepared for this phase of construction works to manage site runoff from changing groundcover, landform, gradients and site drainage.</p> <p>During a site inspection (Site Inspection Record 19/02/2020) of the Boggo Road worksite completed by the Environmental Monitor the following observations were made:</p> <ol style="list-style-type: none"> 1) Main drainage channel immediately above flume pipe appeared not to be in accordance with the ESC design drawing (Site Establishment Works and Piling Works – 8.01.2020) 2) The installed flume pipe diameter size was not nominated on the ESC design drawing. 3) The installed flume pipe was covered and occluded by rip rap rock, thereby preventing adequate flow through to the stormwater inlet. 		
Circumstances under which the non-compliance event occurred (include activity being undertaken, predictive modelling, monitoring etc)	<p>The Boggo Road site inspection completed by the Environmental Monitor on 19 February identified that:</p> <ul style="list-style-type: none"> • Main drainage channel immediately above flume pipe appeared not to be in accordance with the ESC design drawing (Site Establishment Works and Piling Works – 8.01.2020) • The installed flume pipe diameter size was not nominated on the ESC design drawing. • The installed flume pipe was covered and occluded by rip rap rock, thereby preventing adequate flow through to the stormwater inlet. <p>Refer to photos below captured on the day of the inspection which formed part of the Environmental Monitor Inspection Record (19/02/2020).</p>		

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	BOGGO	<p>Stormwater drain not installed as per ESCP. Dimensions are not as described within additional design detail (email CK 11 Feb). A clearly defined channel is not evident, it is not clear how this matches the as-built channel base of 1.5m. Sed fence damaged.</p> 	
	BOGGO	<p>QR corridor access road across main drainage channel, without adequate boundary ESC measures. The main drainage channel was occluded with potential to cause over-topping and escape of stormwater past internal ESC controls.</p> 	

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	<p>BOGGO</p> 		
	<p>As part of the investigation into the failing of the erosion and sediment controls on the site a number of minor errors in the RUSLE calculations (such as gradient of the site) were also identified which led to incorrect outputs and nomination of controls. These design calculations have been revised and included in the next ESC design drawings.</p>		
Consultation with DAP's (if applicable)	Not applicable.		
Description of the non-compliance event	<p>This event has resulted in non-compliance with the following CG imposed conditions:</p> <p>Activities on site relating to erosion and sediment control are non-compliant with the following:</p> <ul style="list-style-type: none"> Imposed Condition 4 – Construction Environmental Management Plan: Site ESC controls have been not been implemented in accordance with the CEMP for the duration of works. 		
Details of any complaints in relation to this incident	Nil. NCE generated as a result of Environmental Monitor inspections only.		
Root cause of non-compliance	The erosion and sediment controls not constructed in accordance with IECA.		
Description of environmental effects and impacts	ESC not constructed in accordance with the IECA (as required by the CEMP) leading to a potential risk that it will not perform in accordance with required standard.		
Was sampling or monitoring performed in relation to this event? (if so attach results)	No.		
Actions already undertaken to mitigation environmental effects of this NCE	<p>When the ESC issues were observed by the Environment Monitor on the site inspection the site team were alerted to the issues and the repairs were undertaken including an additional flume pipe, correctly installing the required drain with a vehicle crossing (refer to photos below).</p>		

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	<p>BOGGO</p> <p>Maintenance of ESC measures at stormwater pit immediately downstream of site's final sed pit.</p> 		
Additional actions to be undertaken (and timeframes for completion)	<p>Rectification work was undertaken, refer to site photos below.</p> <div> <div> <p>South eastern quadrant</p>  </div> <div> <p>Additional larger flume pipe installed (post 12 Feb inspection) next to previous smaller original pipe.</p> </div> </div> <div> <div> <p>South eastern quadrant</p>  </div> <div> <p>Looking upstream. Newly installed drainage channel upstream of flume and vehicle crossing to replace previous undersize channel.</p> </div> </div>		

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	<p>South eastern quadrant</p> 	<p>Looking downstream. Newly installed drainage channel upstream of flume and vehicle crossing to replace previous undersize channel.</p>	
	<p>In addition to the above measures, the site is still changing as the construction program progresses. The Delivery Authority has requested that the Contractor undertake regular reviews at a frequency to ensure changes to site conditions can be captured and suitable controls installed as more areas become hard standing, slope changes and other opportunities arise to minimise clean water entering site (such as rainwater runoff from the site office roofs and hard standing areas).</p> <ul style="list-style-type: none"> • Site Erosion and Sediment Control design to be reviewed and updated on an ongoing basis to ensure all changes to site conditions have been captured and suitable erosion and sediment controls nominated. • Site supervisor to be fully briefed on the Erosion and Sediment Control Plan and ESC design. • Site supervisor to perform daily checks of vulnerable areas for ESC maintenance (i.e. especially around stormwater drains) and ensure the ESC design is implemented. <p>Actions completed by 29.05.2020</p> <ul style="list-style-type: none"> • Provision of Erosion and Sediment Control Plan (ESCP) which reflects the current site conditions and has been certified by a Certified Professional in Erosion and Sediment Control (CPESC). • Confirmation that the nominated erosion and sediment controls are implemented on site. 		
Proposed actions to prevent reoccurrence of the NCE (include responsibility and timeframes)	<p>Preventative Actions</p> <ul style="list-style-type: none"> • The Delivery Authority will encourage the Contractor to carry out Lessons Learned toolbox talks to other Environmental Advisors and Site Supervisors across the project worksites and to include in daily site briefings, especially during wet weather. 		
Report completed by	The Delivery Authority with advice from the Environment Monitor		
Completion statement	Erosion and Sediment Control plan finalised with nominated sediment controls implemented. NCE closed.		