




Manildra Solar Farm Construction – Environmental Representative (ER) Inspection Report

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Date of Inspection	18/04/2018	Location of Inspection	Manildra Solar Farm
ER	Demelza Scott Maurice Pignatelli	Proponent Representative	Bjorn Schultz
Weather	Fine and sunny	Construction Contractor Representative	Don Martin
Inspection Summary	Improvement Opportunity – 1 Corrective Actions – 2. Open Corrective Actions are: CA191217-02: Develop and implement a program for the installation of nest boxes in accordance with the FFMP CA210218-01: Repeat construction noise monitoring at the residences of receptor 2 and receptor 5 to confirm whether noise generated by the project is below the Assessment Criteria and Work Generating High Noise Impact Levels. CA210218-03: Place additional rock to stabilise the internal road on the north-east perimeter from water flowing onto site. CA210218-04: On completion of construction, remove the access road from the array to the farm dam so as not to impede natural water flow.		
Comments / Observations	Pile driving, rock driving and drilling of posts for the solar arrays was ongoing. Installation of modules was underway across the southern arrays. Installation of rock check dams is complete. Trenching has also been completed. No environmental incidents have occurred and no environmental complaints have been received since the last inspection. The site presents a low environmental risk at the time of inspection.		

Signed:

Environmental Representative

Issue	Observations & Corrective Actions	Due Date	Photographic Record
Dust	<p>RCR advised that dust hasn't been an issue despite the dry conditions. Bulk earthworks are complete and with the demobilisation of the earthmoving contractors the traffic movements around site have reduced.</p> <p>Some dust was observed during the site inspection associated with vehicle movements and drilling/pile driving. This dust was localised in nature and not causing any harm or nuisance to neighbouring properties.</p>		
Waste	<p>RCR advised that the mulching contractor is to be mobilised three times to progressively mulch the cardboard and NEXTracker waste. RCR advised that negotiations with Cabonne Council to take the NEXTracker waste are ongoing. RCR are proposing to use the mulched cardboard to construct a mulch berm on the south-western boundary in accordance with the Soil and Water Management Plan (SWMP). RCR advised that it would be covered with jute matting to prevent windblown rubbish onto neighbouring properties.</p> <p>The mulch stockpiles were inspected. As previously reported, First Solar had stipulated specifications for mulched material including removal of nails and other extraneous materials and sizing of the final mulched product. The mulch pieces were observed to be very large and there were significant amounts of plastic wrap and other extraneous materials in the final product. The ER is concerned that the use of this mulched product to construct a mulch berm would result in an ongoing source of litter from the development as the jute matting breaks down.</p> <p>On review of the SWMP, there is no timing specified for construction of the mulch berm. Given that the SWMP states that the mulch berm was intended to prevent sediment movement offsite, it should have been installed prior to commencement of bulk earthworks and would provide little additional protection if installed on completion of construction.</p> <p>Corrective Action 110418-01 – Implement stricter quality control on mulching of cardboard including smaller sizing, removal of plastic, nails and staples.</p>	4/05/2018	

***Flora and
Fauna***

Nest boxes have been delivered but were yet to be erected at the time of the inspection.



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Noise	<p>First Solar advised that they had notified DPE of the noise exceedances however had not had a response.</p> <p>Pile driving and drilling is planned to be finished by 18/04/2018.</p> <p>RCR have not received any complaints regarding noise associated with the development.</p> <p>Improvement Opportunity 110418-01 – Notify DPE of cessation of pile driving.</p>		
Soil and Water	<p>RCR have commenced with groundcover establishment in areas where works have been completed including spreading seed and covering the seed with a thin layer of hay to protect the seed, trap moisture and reduce the potential generation of windblown dust. RCR have received advice to not water the seed prior to demobilising from site as, without follow up rainfall, the germinated seed will die. A contractor has been engaged to spread the hay. This is to be reviewed at the next ER inspection.</p> <p>The batter along the southern boundary near the O&M building is yet to be rehabilitated. Rill erosion is evident and there has been no regrowth on this batter.</p> <p>Sediment fences along the south-western boundary were dilapidated and in need of maintenance.</p> <p>Refer to Waste section for discussion on mulch berm.</p> <p>Corrective Action 110418-03 – Conduct maintenance on sediment fences across the site, particularly on the south-western boundary.</p>		
Incident Management	<p>Sighted Incident Notification Form for engine oil spill dated 13/03/2018 as discussed at the previous inspection. The incident report includes relevant information for the incident including investigation, identification of actions and close out.</p>		

Appendix A Corrective Actions Register

Reference	Action	Category <i>A: Stop Work</i> <i>B: Immediate Action</i> <i>C: Closed within 2 weeks</i> <i>D: Non-critical</i>	Date Opened	Responsibility	Date Closed
170810 – 01	Maintain spill kits in areas that are readily accessible in the event of a spill.	B	10/08/2017	RCR SCECO	13/09/2017
170810 – 02	Manage trenches in accordance with Protocol 4: Trenching to minimise trap hazard for fauna.	B	10/08/2017	RCR SCECO	13/09/2017
130917 – 01	Conduct appropriate checks and inductions on subcontractors, their staff and plant/equipment prior to conducting any work on the project.	C	13/09/2017	RCR SCECO	18/01/2017
111017 – 01	Fence rocky outcrops within the development envelope that are not to be disturbed including a 2.5m buffer as per FFMP or	C	11/10/2017	RCR SCECO	14/11/2017

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	provide justification for not fencing.				
191217 – 01	Conduct maintenance on sediment fencing.	C	19/12/2017	RCR SCECO	20/12/2017
191217 – 02	Develop and implement a program for the installation of nest boxes in accordance with the FFMP.	C	19/12/2017	RCR SCECO	
210218 – 01	Repeat construction noise monitoring at the residences of receptor 2 and receptor 5 to confirm whether noise generated by the project is below the Assessment Criteria and Work Generating High Noise Impact Levels.	B	21/02/2018	RCR SCECO	
210218 – 02	Implement all practicable dust mitigation measures to cease emission of	B	21/02/2018	RCR SCECO	11/04/2018

Reference	Action	Category <i>A: Stop Work</i> <i>B: Immediate Action</i> <i>C: Closed within 2 weeks</i> <i>D: Non-critical</i>	Date Opened	Responsibility	Date Closed
	visible dust generated by the project.				
210218 – 03	Place additional rock to stabilise the internal road on the north-east perimeter from water flowing onto site.	C	21/02/2018	RCR SCECO	
210218 – 04	On completion of construction, remove the access road from the array to the farm dam so as not to impede natural water flow.	D	21/02/2018	RCR SCECO	
110418-01	Implement stricter quality control on mulching of cardboard including smaller sizing, removal of plastic, nails and staples.	C	11/04/2018	RCR SCECO	
110418-03	Conduct maintenance on sediment fences across the site, particularly on the	B	11/04/2018	RCR SCECO	

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		<i>B: Immediate Action</i>			
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	south-western boundary.				