



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

For internal project use only. Document not for external release or use.

Date of Inspection	23/05/2018	Location of Inspection	Manildra Solar Farm
ER	Demelza Scott	Proponent Representative	Bjorn Schultz
Weather	Fine and Sunny	Construction Contractor Representative	Danny Dyson and Natalija Baban
Inspection Summary	Improvement Opportunity – 2 Corrective Actions – 3 Open Corrective Actions: 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. CA110418-01: Implement stricter quality control on mulching of cardboard including smaller sizing, removal of plastic, nails and staples. CA110418-03: Conduct maintenance on sediment fences across the site, particularly on the south-western boundary. CA230518-01: Manage wind-blown litter on site and on neighbouring properties including covering the mulch stockpiles with netting. CA230518-02: Install temporary sediment controls along the southern boundary that can be moved and reinstated as works are conducted in the area. CA230518-03: Confirm that the contractor will reshape the batter, spread topsoil and seed as well as secure jute matting or equivalent.		
Comments / Observations	Site demobilisation is now underway with infrastructure being decommissioned and removed from site. 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 has advised that there has been a reduction of vehicle movement's onsite, though lack of rainfall events means that dust remains an issue of concern.</p> <p>Some dust was observed during the site inspection associated with vehicle movements. This dust was localised in nature, mainly isolated to the areas in which vehicles were travelling and not causing any harm or nuisance to neighbouring properties. RCR advised there was a water cart still operating on site however it wasn't observed during the inspection.</p> <p><i>Improvement Opportunity 230518-01: RCR to continue operating the water cart to manage dust.</i></p>	08/06/2018	

Issue	Observations & Corrective Actions	Due Date	Photographic Record
Waste	<p>Wind-blown litter from the mulched cardboard and pallets was an issue on site and on the neighbour's property. Waste packaging was also observed scattered across site, yet to be picked up.</p> <p>First Solar and RCR advised that mulched cardboard and pallets will not be used in a mulch berm as previously discussed. Discussions are underway for the mulched material to be taken to Molong waste management facility where it will be mixed with general household waste to aid in compaction of waste. First Solar and RCR are in discussions with VISY regarding accepting the module boxes for recycling.</p> <p><i>Corrective Action 230518-01: RCR to manage wind-blown litter on site and on neighbouring properties including covering the mulch stockpiles with netting.</i></p>		

Issue	Observations & Corrective Actions	Due Date	Photographic Record
Flora and Fauna	<p>Nest box installation was well underway, with 50 out of the 60 proposed nest boxes installed. The remaining 10 were planned to be installed later in the week. A map is to be created showing the location of nest boxes.</p> <p>First Solar is still reviewing the proposal from RCR to amend the proposed screen planting plan to allow for roadside planting. First Solar have requested that the consultant who prepared the original visual impact assessment review the revised plan for consistency with the EA and Project Approval.</p> <p>Weeds are appearing to establish themselves across site. RCR advised that they are waiting until the majority of personnel have demobilised from site before commencing weed spraying.</p> <p><i>Improvement Opportunity 230518-02: RCR to commence weed spraying for listed priority weeds once personnel numbers have reduced on site.</i></p>		
Traffic	<p>As the site is being demobilised, there has been an increase in heavy vehicle movements in removing demountable infrastructure such as crib rooms, construction sheds etc.</p>		

Issue	Observations & Corrective Actions	Due Date	Photographic Record
Soil and Water	<p>Sediment fences along the south-western boundary were dilapidated and are in need of maintenance. RCR were reluctant to reinstate the sediment fences as there is still work to be done in that area including additional gravel top up on the road and planting screening trees along the boundary fence, which would further damage the sediment fences. RCR have advised they would be inclined to install temporary controls such as straw bales in place of sediment fences following works.</p> <p>Good progress in regeneration was observed with noticeable seed strike in areas spread with topsoil and seeded. RCR have been in discussion with a local agronomist who advised that rain is forecast in July and seeding should be scheduled for then. RCR advised that 25% of the site is yet to be seeded. Some areas showed signs of compaction and will require ripping in preparation for seeding.</p> <p>The batter in the south-western part of the site near the operations and management buildings was reported as eroding a number of months ago with rill erosion evident and no regrowth on this batter. RCR advised that the contractor is to reshape the batter, spread topsoil, secure jute matting and seed. However the drawing provided by RCR did not provide sufficient information to confirm that this had been agreed with the contractor.</p> <p>Corrective Action 230518-02: RCR to install temporary sediment controls along the southern boundary that can be moved and reinstated as works are conducted in the area.</p> <p>Corrective Action 230518-03: RCR to confirm that the contractor will reshape the batter, spread topsoil and seed as well as secure jute matting or equivalent.</p>	08/06/2018	 <p>The top photograph shows a long, narrow sediment fence made of straw bales or similar material, running alongside a dirt road. The fence appears somewhat dilapidated. The bottom photograph shows a batter area with a line of rocks or similar material installed as a temporary sediment control measure.</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	C	11/10/2017	RCR SCECO	14/11/2017

Reference	Action	Category A: Stop Work B: Immediate Action C: Closed within 2 weeks D: Non-critical	Date Opened	Responsibility	Date Closed
	including a 2.5m buffer as per FFMP or 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	25/05/2018
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	25/05/2018*

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
210218 – 02	Implement all practicable dust mitigation measures to cease emission of visible dust generated by the project.	B	21/02/2018	RCR SCECO	11/04/2018
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,	C	11/04/2018	RCR SCECO	

Reference	Action	Category A: Stop Work B: Immediate Action C: Closed within 2 weeks D: Non-critical	Date Opened	Responsibility	Date Closed
	removal of plastic, nails and staples.				
110418-03	Conduct maintenance on sediment fences across the site, particularly on the south-western boundary.	B	11/04/2018	RCR SCECO	
230518-01	Manage wind-blown litter on site and on neighbouring properties including covering the mulch stockpiles with netting.	C	23/05/2018	RCR SCECO	
230518-02	Install temporary sediment controls along the southern boundary that can be moved and reinstated as works are conducted in the area.	C	23/05/2018	RCR SCECO	

Reference	Action	Category A: Stop Work B: Immediate Action C: Closed within 2 weeks D: Non-critical	Date Opened	Responsibility	Date Closed
230518-03	Confirm that the contractor will reshape the batter, spread topsoil and seed as well as secure jute matting or equivalent.	C	23/05/2018	RCR SCECO	

* DPE confirmed in an email on 10/05/2018 that they were satisfied with the action taken by RCR and First Solar.