

# RUSTMO1 SOLAR FARM

## ENVIRONMENTAL MONITORING REPORT

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Submitted to:  
Department of Environmental Affairs  
&  
Momentous Energy

Monthly ECO Monitoring Report

Date: 31 March 2013

Prepared for: RustMo1



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## **1. OVERVIEW OF CONSTRUCTION ACTIVITIES (NOTABLE EVENTS)**

All construction work at RustMo1 Solar Farm thus far has been preliminary construction of internal access road, and fencing. The following facilities were delivered on site; office containers, chemical toilets, and wastes bins. The activities on site at present comprises of fence erecting, and drilling of holes for the PV Panel anchors on the laydown area.

### **Audit Findings:**

#### **Non-compliances and concerns**

1. Currently there is no record of non-compliances from the contractors, and Sub-contractors. All the non-compliances for last month has been resolved by the contractor Juwi Renewable Energy and their Sub-contractor Brand Engineering.

#### **Compliances**

1. All the contractors and sub-contractors have their own complete spill packs on site (EMP ref page 36)
2. The chemical toilets have been delivered to site (one toilet for women and two toilets for men). Both the contractor Juwi Renewable Energy and the Sub-contractor Brand Engineering are currently complying.
3. Waste bins have been delivered to site (a bin for general waste, hazardous waste, and recycle.)
4. The Sub-contractor (Brand Engineering) is keeping to their demarcated area and they have not disturbed anything outside their development footprint.
5. No off-roading on agreed access roads is happening on site, as most of workers are moving on foot from one area of work to another.
6. Signage for emergency assembly point has been erected on site and the sub-contractors have all safety equipment for fire.
7. Signage for the designated smoking area have been erected on site and the sub-contractors have all safety equipment for fire.
8. A good communication is happening so far between the client, Contractor, Sub-contractor as well as the ECO and that will be advantageous to the progress of the project.

**Outstanding matters:**

No outstanding matters have been recorded in March 2013. All the outstanding matters from last month have been addressed and closed, and the contractors are currently complying with the EMP, EA and all South African environmental legislations.

**GENERAL OUTSTANDING MATTERS:**

No outstanding matters for the previous month of February.

**2. ENVIRONMENTAL MONITORING RECORD OF OBSERVATIONS****2.1 Waste Management****2.1.1 Solid Waste (domestic/general)**

Precautions are being undertaken to manage general wastes that may be generated during construction work in the form of a solid waste refuse bins that have been delivered on site. General waste generation is currently low at RustMo1 Solar Farm and no signs of pollution are evident on site.

**2.1.2 Liquid Waste**

Precautions are being undertaken to manage liquid sewage waste in the form of chemical toilets that have been delivered on site. These chemical toilets are accessible for all construction workers. Three chemical toilets are available on site. (Two toilets for men and one toilet for women) Sewage waste generation is currently low and no signs of pollution are evident.



These chemical toilets will be serviced on a weekly basis by Coastal Hire.

### **2.1.3 Hazardous Waste**

Actions have been taken to manage oil and diesel spills in the form of drip trays that are placed under the construction vehicles when not operated. At present, no hazardous spillage has occurred on site but the spill kit and drip trays are available on site at all times. All the Sub-contractors have their own drip trays, and spill packs.

## **2.2 Ecosystem Conservation**

### **2.2.1 Flora**

No protected species have been identified within the area of development during pre-construction activities. No plants that have been cleared on site are identified as protected, or endangered, but they are indigenous to the area of work. According to the client, actions will be taken to plant more species of indigenous plants on the nearby areas as part of the rehabilitation after construction has been completed. This will be done with assistance from the ECO.

### **2.2.2 Fauna**

The ECO has advised the contractor and Sub-contractors that no killing of animals on site is allowed. In the beginning of March A duiker was spotted close to the Eskom Substation near RustMO1 during the late hours after work but since then no any other herbivore was near or on site during March.

### **2.2.3 Water Management**

A water permit from the Department of Water Affairs has been issued regarding the borehole that will be used as construction progresses. Access road to the borehole has been constructed.

### **2.2.4 Soil Management**

All the cleared soil will be used to fill in the eroded area near Marikana platinum mine. There ECO will receive a formal agreement letter between the Marikana platinum mine and the Sub-contractor Brand Engineering regarding the re-use of soil for filling in the eroded area.

## **2.3 Heritage**

A gravesite has been identified close to the development area, and it has been fenced to prevent access or disturbance to the graves. A no- go area signage was also erected during the month of March.

## **2.4 Social**

### **2.4. Complaints and claims for damage**

One complaint from the Visual Proof labour workers was received but no claims for the damages were recorded. **Refer to the attached complaints register**

### 2.4.2 Landowner issues

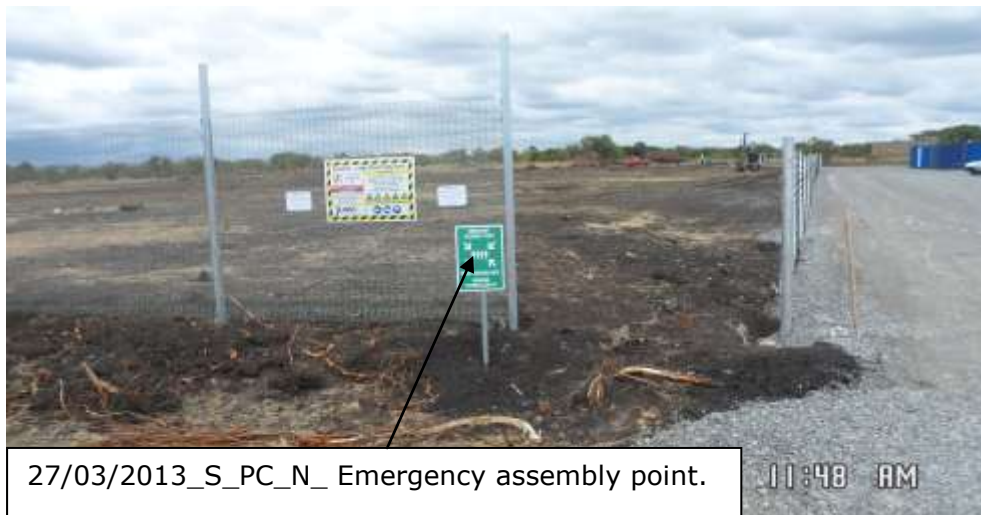
No complaints from the landowners were recorded.

### 2.5 Rehabilitation

- All the disturbed areas will be rehabilitated upon the completion of the construction, and the ECO will assist in this regarding the rehabilitation measures.

### 3. PROTECTIVE MEASURES

- Both the Contractor Juwi Renewable Energy and the Sub-contractor Brand Engineering are implementing protective measures on site. The contractor (Servest Security) is responsible for ensuring the safety of all stored equipments on site as well as the security for all construction workers.
- The emergency assembly point, and designated smoking area has been marked on site.



### 4. INFRASTRUCTURE MANAGEMENT

The Contractor Visual Proof is currently busy erecting the fence on site as part of site establishment. They have made their equipment storage area. The ECO has advised the contractor not to mix the cement on the ground during the fencing construction, and they are currently mixing it in large containers and carrying it with well-sealed wheelbarrows to avoid any cement spillage.



## 5. ENVIRONMENTAL AWARENESS AND TRAINING

- As part of the awareness the ECO started to conduct small environmental toolbox talks for the site visitors. The ECO has already prepared the environmental toolbox talks topics for the next coming month, and a record of the environmental toolbox talks will be available on file.
- As part of environmental awareness the following environmental toolbox were presented on site

DATE	TOOLBOX TOPIC	VENUE
05/03/2013	Mixing and /working with cement( avoid spillages)	RustMo1 Solar Farm
15/03/2013	land contamination/ Waste management	RustMo1 Solar Farm

## 6. NON-COMPLIANCE AND CONTRACTOR COMMUNICATIONS

There are no non-compliance for the month of February. The communication between the client, ECO, and the contractor remains good.

## 7. INCIDENTS

No environmental incidents occurred during the month of March; however, any environmental incidents that may occur on site will be recorded in the



environmental incident register by the ECO. A book for recording environmental issues is also kept in the security office.

## 8. MEETINGS AND CORRESPONDENCES

DATE	MEETING/CORRESPONDENCES	VENUE
11/03/2013	Internal environmental audit	RustMo1 Solar Farm
22/03/2013	Equator principle discussion meeting	RusMo1 Solar Farm
26/03/2013	SHE monthly meeting.	RustMo1 Solar Farm

## 9. OTHER

None

This report was prepared by Dakalo Nemalegeni (ECO Savannah Environmental) for RustMo1 Solar Farm.

## **APPENDIX A: COMPLAINTS REGISTER**

- One complaint was recorded for the month of March 2013.
- **For the details of complaint, please refer to the attached complaints register for the month of March.**