

CLP Power Hong Kong Ltd

Renewable Energy Supply on  
Town Island (Construction  
Phase): *6th Monthly  
Environmental Site Audit Report*

September 2011

**Environmental Resources Management**

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Reference 0129569

For and on behalf of ERM-Hong Kong, Limited	
Approved by:	Frank Wan
Signed:	
Position:	Partner
Certified by :	Winnie Ko
Signed :	
Position :	Independent Environmental Checker
Date :	26 September 2011

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# 1 ENVIRONMENTAL SITE AUDIT

## 1.1 BACKGROUND

The construction works of *Renewable Energy Supply on Town Island* (the Project) has commenced in March 2011.

To fulfill Condition 2.2 of the Environmental Permit (EP-397/2010) and environmental audit requirements stated in Section 5.7.1 of the approved Project Profile (PP) submitted for direct application of an Environmental Permit under EIA Ordinance (EIAO) (PP-413/2010), monthly environmental site audits should be undertaken to ensure that the mitigation measures recommended in PP are properly implemented.

This is the sixth *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 16 September 2011.

## 1.2 SITE AUDIT FINDINGS AND OBSERVATIONS

The sixth monthly environmental site audit was conducted on 16 August 2011. No construction activities were observed during the site inspection. The worksite for underground pipe and cabling works has been reinstated (*Photo 1*). All the temporary worksites have been reinstated. One observation was recorded during the site audit and is described below:

- Concrete was observed on ground near Site 1 (See *Photo 2*). The Contractor was reminded to remove the concrete to ensure the site is reinstated.

Construction work at Site 1 and Site 2 will start in the next reporting month and photo of Site 1 and Site 2 (See *Photo 3 - 6*) were recorded for reference of future audits.

The environmental site audit checklist is appended in *Annex A*.

Photos of the site audit are given in *Annex B*.

Annex A

# Environmental Site Audit Checklist



Renewable Energy Supply on Town Island  
Construction Phase - Environmental Site Audit



Inspection Date:  Time:  to

Inspected By: IEC Representative: Andre Fung  
 CLP Representative: Raymond Ho  
 Contractor: K.Q. Cheung, Tony Ho

**Weather**

Condition  Sunny  Fine  Overcast  Drizzle  Rain  Storm  Hazy  
 Temperature  °C Humidity  High  Moderate  Low  
 Wind  Calm  Light  Breeze  Strong

**A General** Yes Yes, but need Improvement No N/A or not observed Photo/Remarks

A1 Is the Environmental Permit displayed at the entrances / exits?     \_\_\_\_\_

**B Air Quality** Yes Yes, but need Improvement No N/A or not observed Photo/Remarks

B1 Is open burning avoided?     \_\_\_\_\_  
 B2 Are exposed soil surfaces regularly watered to avoid generation of dust?     \_\_\_\_\_  
 B3 Are plant and equipment well maintained? (ie without black smoke from powered plant)     \_\_\_\_\_  
 B4 Are stockpiles of dusty material covered or regularly watered?     \_\_\_\_\_  
 B5 Is watering implemented during excavation?     \_\_\_\_\_  
 B6 Is generation of dust avoided during loading/unloading/excavation?     \_\_\_\_\_

**C Noise** Yes Yes, but need Improvement No N/A or not observed Photo/Remarks

C1 Is the Construction Noise Permit displayed at the entrances / exits? (if any)     \_\_\_\_\_  
 C2 Are all plant and equipment well maintained and in good operating condition?     \_\_\_\_\_  
 C3 Is idle equipment turned off or throttled down?     \_\_\_\_\_  
 C4 Are powered mechanical equipment covered or shielded by acoustic materials?     \_\_\_\_\_  
 C5 Are silenced equipment used where practicable?     \_\_\_\_\_  
 C6 Is the number of construction plant being used minimized?     \_\_\_\_\_  
 C7 Do air compressors have valid noise labels?     \_\_\_\_\_  
 C8 Do compressors operate with doors closed?     \_\_\_\_\_

**D Water Quality** Yes Yes, but need Improvement No N/A or not observed Photo/Remarks

D1 Is wastewater discharge license, if any, available for inspection?     \_\_\_\_\_  
 D2 Is drainage system adequate?     \_\_\_\_\_  
 D3 Is drainage system well maintained?     \_\_\_\_\_  
 D4 Is debris and rubbish in the drainage system collected and disposed of properly?     \_\_\_\_\_

D5	Are there temporary ditches for runoff discharge into appropriate Watercourse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	With silt retention pond?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D6	Are there sedimentation tanks for settling runoff prior to disposal?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D7	Is the capacity of sedimentation tank adequate?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D8	Is the sedimentation free from silt and sediment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D9	Are the temporary stockpiles located away from stream or coastline?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D10	Are treaching carried out for the section of cable in the vicinity of and crossing the stream between Sites 1 and 2?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D11	Is cable trenching works scheduled to be carried out during dry season?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

E Waste/Chemical Management		Yes	Yes, but need improvement	No	N/A or not observed	Photo/Remarks
<b>General refuse</b>						
E1	Accumulation avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E2	Receptacles (e.g. rubbish bins) available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E3	Disposed of regularly and properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Chemical waste, waste oil</b>						
E4	Is the Chemical Waste Producer Registration available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E5	Stored properly in designated area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Construction work. Worksite has been reinstated.
E6	Labelled properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E7	Disposed of properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E8	Trip tickets/ chits available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Chemical/fuel storage area</b>						
E9	Are all spillage containment provided for all chemicals, oils and fuels stored on site, those equipment which potentially have oil leakage and for the area where maintenance works carrying out?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E10	Is storage area bunded?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E11	Adequate bund capacity? (>110% of the largest tank)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E12	Are storage areas provided with locks and located on sealed areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Construction Waste</b>						
E13	Reused where practicable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Is sorting conducted on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E14	Transported offsite by boat for proper disposal?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E15	Are surplus inert materials being reused where practical as an alternative to ordering imported fill material?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Excavated Material</b>						
E16	Appears uncontaminated? (colour, odour)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E17	If suspected contaminated, appropriate procedures followed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E18	Relevant license/permit/trip tickets/chits for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

F General / Housekeeping		Yes	Yes, but need improvement	No	N/A or not observed	Photo/Remarks
F1	Are potential stagnant pools cleared and mosquito breeding prevented?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

G Ecology		Yes	Yes, but need improvement	No	N/A or not observed	Photo/Remarks
G1	Is damage and disturbance to the remaining and surrounding natural shrubby grassland and young woodland habitats avoided? (particularly those caused by filling and illegal dumping)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

G2	Is damage to surrounding areas avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
G3	Are temporary work sites/disturbed areas reinstated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Note 1 _____
G4	Is disturbance to streams avoided during cable laying?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
G5	Is any alternative method adopted for laying cable across stream between Sites 1 and 2?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

**Items for Inspection**

- Site 1 (No construction work.)
- Worksite for underground pipe and cabling works (Reinstated after excavation.)
- Site 2 (No construction work)

**Notes / Issues Recorded On Site**

- 1 - Concrete stain was observed on ground near site 1

**Corrective Actions**

- 1 - The Contractor was reminded to remove the concrete stain to ensure the site is reinstated.

**Signatures:**

IEC Representative :

  
 (Name: Andrew Fung )

CLP Representative :

  
 (Name: Raymond Ho )

Contractor :

  
 (Name: K.C. Cheung )



Annex B

## Photo Records

Photo Records on 16 September 2011



Photo 1 - The worksite for underground pipe and cabling works have been reinstated.



Photo 2 – Concrete stain near Site 1.



Photo 3 – An Overview of Site 1.



Photo 4 – An Overview of Site 1.



Photo 5 – An Overview of Site 2.



Photo 6 – An Overview of Site 2.