



## **EM&A Report**

# **EcoPark Operation Quarterly EM&A Compliance**

July to September 2013











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#### **EXECUTIVE SUMMARY**

#### General

EcoPark is a key element in the Government's waste management policy that aims to promote the local recycling industry and jump-start a circular economy to provide a sustainable solution to our waste problems. EcoPark was developed in two phases, namely Phase 1 and then Phase 2.

The seven-year contract for the operation of EcoPark *EP/SP/53/06 Provision of Management Services for EcoPark in Tuen Mun Area 38* was awarded to Serco Guardian Joint Venture (SGJV) by EPD in November 2006. SGJV ("the Operator") appointed SMEC Asia Ltd (SMEC) as the Environmental Team (ET) for the Environmental Monitoring and Audit (EM&A) works. Atkins China Ltd (Atkins) is appointed to provide the Independent Environmental Checker (IEC) for the EM&A works. The ET and the IEC carry out the EM&A works for the operation of EcoPark as required by the EM&A Manual and in accordance with the conditions of the Environmental Permit.

This is the twenty sixth (26<sup>th</sup>) quarterly EM&A report prepared for the operation phase of EcoPark and covers July to September 2013. In the reporting quarter, there were fourteen tenants in EcoPark Phase 1 and Phase 2:

#### Phase 1 tenants comprise:

- Champway Technology Ltd (Champway) Waste cooking oil
- Shiu Wing Steel Ltd (Shiu Wing) Waste metals
- Hong Kong Hung Wai Wooden Board Co (Hung Wai) Waste wood
- Li Tong Group (Li Tong) Waste Electrical and Electronic Equipment (WEEE)
- Hong Kong Telford Envirotech Group Ltd (Telford) Waste plastics
- Cosmos Star Holdings Co Ltd (Cosmos) Waste lead-acid batteries

#### Phase 2 tenants comprise:

- YOT EcoPark Plastic Resources Recycling Centre (Yan Oi Tong) Waste plastics
- St. James' Settlement "WEEE GO GREEN" EcoPark (St James' Settlement) WEEE
- K.Wah Construction Products Ltd (K.Wah) Waste construction materials/waste glass
- E.Tech Management (HK) Ltd (E.Tech) WEEE
- On Fat Lung Electrical & Metal Co Ltd (On Fat Lung) Waste rubber tyres
- Chung Yue Steel Group Company Ltd (Chung Yue) Waste metals
- SSK Metal Ltd (SSK) Waste lead-acid batteries
- South China Reborn Resources (Zhongshan) Co Ltd (South China) Food waste

Recycling activities of the following seven tenants were audited in the reporting quarter: Champway, Shiu Wing, Hung Wai, Li Tong, Telford, Yan Oi Tong and St James' Settlement. It should be noted that Hung Wai, which had suspended operation since October 2011, resumed the operation for manufacturing wood fuel pellets on 2 July 2013. Lots currently under development by Cosmos, K.Wah, E.Tech, On Fat Lung, Chung Yue, SSK and South China were inspected but not audited under the EM&A programme, as no recycling activities have yet commenced.



In this reporting quarter, site inspections were conducted by the ET whilst quarterly joint site inspections were carried out by the Operator, the IEC and the ET.

#### **Throughput of Materials / Waste Generated**

The throughputs of the reporting quarter are summarised below. Please note that product output plus waste disposal do not necessarily equal the waste input, due to material losses during processing and material retained within the lot.

Material Type	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposed (tonnes)
Waste Oil	161	-	-
Waste Wood	-	-	-
WEEE	111	73	4
Waste Metals	1,710	1,710	-
Waste Plastics	757	672	33

**Note:** The throughput data presented above is the best available data.

#### **Exceedances of Any Measured Action / Limit Levels**

The northern part of EcoPark is located within the 250m Landfill Gas (LFG) Consultation Zone of Shiu Landfill. LFG monitoring during this quarter was undertaken on 17 September 2013 at five locations (three in Phase 1 and two in Phase 2).

No exceedance of Action and Limit Level was recorded in the reporting quarter.

#### **Summary of Complaints, Summons and Prosecutions**

Numbers of complaints, summons and successful prosecutions in the reporting quarter are summarised below:

• Complaints: Zero.

• Summons: Zero.

• Successful Prosecutions: Zero.

#### **Reporting Changes**

There is no change in reporting this quarter.

#### **Future Key Issues**

No key issues are anticipated in the next reporting quarter. Operation phase LFG monitoring for Phase 1 and Phase 2 will continue to be carried out by the ET.



#### 1 PROJECT DESCRIPTION

#### 1.1 Overview

- 1.1.1 The development of EcoPark is to provide long-term land at affordable rent so as to facilitate and encourage investment in advanced and value-added technologies by the recycling industry. The target is to transform gradually the traditional simple mode of recycling operation (i.e. collection, baling and exporting) into high value-added recycling processes that comply with environmental and other statutory requirements.
- 1.1.2 EcoPark has been developed in Tuen Mun Area 38 (see *Figure 1-1*) in two phases (Phase 1 and Phase 2) under construction contract *EP/SP/52/06 Development of EcoPark in Tuen Mun Area 38*, which was awarded to Kaden Construction Ltd by the Environmental Protection Department (EPD) in June 2006. Phase 1 construction was completed in July 2009 and Phase 2 construction was completed in November 2010. The seven-year contract for the operation of EcoPark *EP/SP/53/06 Provision of Management Services for EcoPark in Tuen Mun Area 38* was awarded to Serco Guardian Joint Venture (SGJV) by EPD in November 2006.
- 1.1.3 SGJV ("the Operator") appointed SMEC Asia Ltd (SMEC) as the Environmental Team (ET) for the Environmental Monitoring and Audit (EM&A) works. Atkins China Ltd (Atkins) has been appointed to provide the Independent Environmental Checker (IEC). The ET and the IEC carry out the EM&A works for EcoPark as required by the EM&A Manual and in accordance with the conditions of the Environmental Permit (EP).

#### 1.2 Operation Programme

- 1.2.1 By end-September 2013, there were a total of 14 tenants in EcoPark comprising:
  - Seven active tenants (Champway, Shiu Wing, Li Tong, Telford, Yan Oi Tong (YOT), St. James' Settlement and Hung Wai) that continue to carry out full recycling operations.
  - One tenant (Cosmos) that has substantially completed the civil and structural works, with machinery installation in progress.
  - Six new tenants (K. Wah, E.Tech, On Fat Lung, Chung Yue, SSK and South China) who were carrying out plant design and planning or under plant construction.



#### 1.3 EM&A Organisation

1.3.1 The EM&A works are carried out by the ET and the EM&A works are verified by the IEC. The key personnel contact details are summarised in *Table 1-1*. The organisation of SGJV is shown in *Figure 1-2* and the current EM&A organisation is shown in *Figure 1-3*.

**Table 1-1 EM&A Personnel Contact Details** 

Position	Name	Email Address	Telephone No.			
Project Proponent	Project Proponent – EPD					
Principal EPO*	Lawrence WONG	lawrwong@epd.gov.hk	2872 1700			
	C K CHEN	ckchen@epd.gov.hk	2872 1700			
Operator – SGJV						
Project Manager	Noel AU	nkfau@ecopark-mgnt.com	2496 7633			
Park Manager	Mabel YUNG	mabelyung@ecopark-mgnt.com	2212 5910			
IEC – Atkins	IEC – Atkins					
IEC	Sharifah OR	sharifah.or@atkinsglobal.com	2972 1802			
IEC Site Inspector	Keith CHAU	keith.chau@atkinsglobal.com	2972 1721			
ET – SMEC						
ET Leader	Antony WONG	antony.wong@smec.com	3995 8120			
ET Site Inspector	Winnie MA	winnie.ma@smec.com	3995 8138			

Note: \* The Principal EPO has changed from Dr Lawrence WONG to Mr C K CHEN since July 2013



Figure 1-1 **Location of EcoPark in Tuen Mun Area 38** 



Source: EPD Records (May 2013)



Figure 1-2 Organisation Chart of SGJV

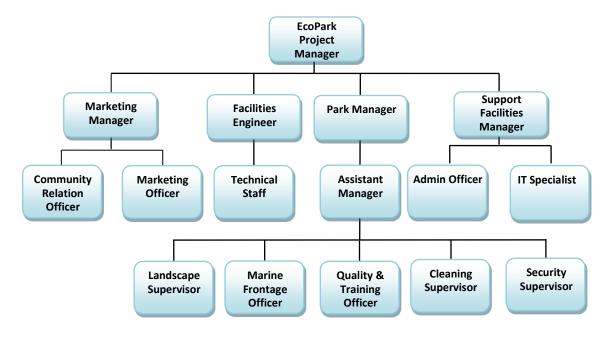
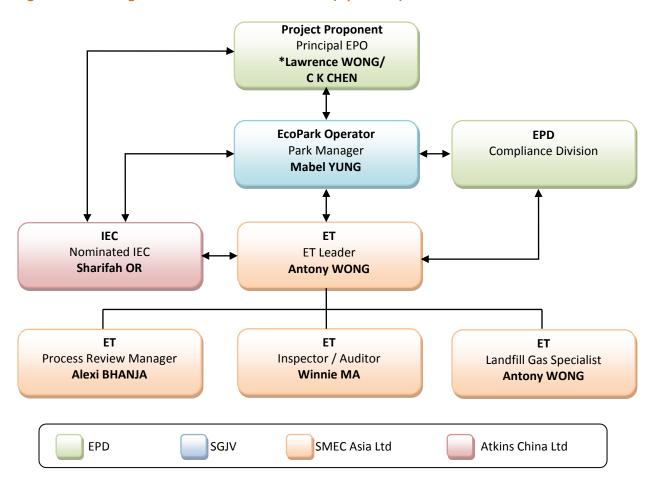


Figure 1-3 Organisation Chart of EM&A Works (Operation)



Note: \*The Principal EPO has changed from Dr Lawrence WONG to Mr C K CHEN since July 2013



### 2 SUMMARY OF EM&A REQUIREMENTS

#### 2.1 Monitoring Parameters

- 2.1.1 Landfill Gas (LFG) is required to be monitored quarterly at service voids and LFG vents within EcoPark because the northern part of EcoPark lies within the 250m LFG Consultation Zone for Siu Lang Shui Landfill, which is located to the north of EcoPark.
- 2.1.2 LFG monitoring has been carried out at Phase 1 and Phase 2 of EcoPark since the quarter August to October 2009 and the quarter November 2010 to January 2011, respectively, after completion of Phase 1 construction in July 2009 and completion of Phase 2 construction in November 2010.
- 2.1.3 The location for LFG monitoring was not specified in the EM&A Manual since the final design of EcoPark was not available when the EM&A Manual was approved. Therefore, during the joint site inspection on 27 July 2009, three monitoring locations in Phase 1 were identified and agreed as suitable monitoring locations by the ET Leader, IEC and the Operator. Subsequently, two more monitoring locations in Phase 2 were proposed by the ET Leader and agreed by the IEC and the Operator *via* email in January 2011. These five monitoring locations are listed in *Table 2-1* and shown in *Figure 2-1*.

Table 2-1 Operation Phase LFG Monitoring Locations in EcoPark

Monitoring Station ID	Туре	Locations
EP1-1	LFG vent pipe	Inside the landscaping area of Administration Building
EP1-2	Service void	PCCW below-ground chamber outside Lot EP08-01
EP1-3	Service void	HGC Broadband below-ground chamber outside Lot EP08-03
EP2-1	Service void	HGC Broadband below-ground chamber outside Lot P1
EP2-2	Service void	HGC Broadband below-ground chamber outside Lot P3

- 2.1.4 Figure 2-2 is a replacement figure for the EM&A Manual, in accordance with footnote to Figure 6.1 in the approved EM&A Manual, and shall be deemed to be included in the EM&A Manual.
- 2.1.5 Routine LFG monitoring has been carried out on a quarterly basis. Should EPD alert the Operator that high LFG levels have been detected during monthly monitoring under the Siu Lang Shui Landfill restoration contract, the Operator may be required to increase LFG monitoring to monthly until such time as EPD inform the Operator that quarterly monitoring can be resumed. To-date, EPD has not alerted the Operator.

#### 2.2 Environmental Quality Performance Limits and EAP

2.2.1 The Action / Limit Levels and Event Action Plan (EAP) for LFG are shown in *Table 2-2*, below. These refer to LFG detected in excavations, utilities and any enclosed on-site areas. No other A/L Levels or EAPs are specified in the EM&A Manual for the operation phase EM&A.



Table 2-2 Action Levels, Limit Levels and Event and Action Plan for LFG

Parameter	Level	Action	
	Action Level <19% O <sub>2</sub>	<ul> <li>Ventilate trench/void to restore O<sub>2</sub> to &gt; 19%</li> </ul>	
Oxygen (O₂)	Limit Level <18% O <sub>2</sub>	<ul> <li>Stop works</li> <li>Evacuate personnel / prohibit entry</li> <li>Increase ventilation to restore O<sub>2</sub> to &gt; 19%</li> </ul>	
Methane (CH₄)	Action Level >10% LEL	<ul> <li>Post "No Smoking" signs</li> <li>Prohibit hot works</li> <li>Increase ventilation to restore CH<sub>4</sub> to &lt;10% LEL</li> </ul>	
	Limit Level >20% LEL	<ul> <li>Stop works</li> <li>Evacuate personnel / prohibit entry</li> <li>Increase ventilation to restore CH<sub>4</sub> to &lt;10% LEL</li> </ul>	
	Action Level >0.5% CO <sub>2</sub>	<ul> <li>Ventilate to restore CO<sub>2</sub> to &lt; 0.5%</li> </ul>	
Carbon Dioxide (CO <sub>2</sub> )	Limit Level >1.5% CO₂	<ul> <li>Stop works</li> <li>Evacuate personnel / prohibit entry</li> <li>Increase ventilation to restore CO<sub>2</sub> to &lt;0.5%</li> </ul>	

#### 2.3 Environmental Audit of Non-Monitored Parameters

- 2.3.1 Site inspections provide a direct means to trigger and enforce the environmental protection and pollution control measures specified in the Environmental Impact Assessment (EIA) Report. To examine operational practice, site inspections are to be undertaken by the ET once per month, and joint site inspections are to be carried out by the ET and IEC once per quarter. *Ad hoc* site inspections are also carried out if significant environmental problems are identified. In addition, inspections may be required subsequent to receipt of an environmental complaint, or as part of the investigation work, as specified in the EAP.
- 2.3.2 The following parameters are required to be audited as part of the operation phase EM&A programme:
  - Air Quality
  - Water Quality
  - Waste Management
  - Land Contamination

#### 2.4 Environmental Mitigation Measures

2.4.1 Environmental mitigation measures applicable to the operation phase EM&A as stated in the Implementation Schedule are summarised in *Appendix 1*.

#### 2.5 Environmental Requirements in Tenancy Agreements

2.5.1 Environmental requirements specified in tenancy agreements are summarised in *Appendix 2*.



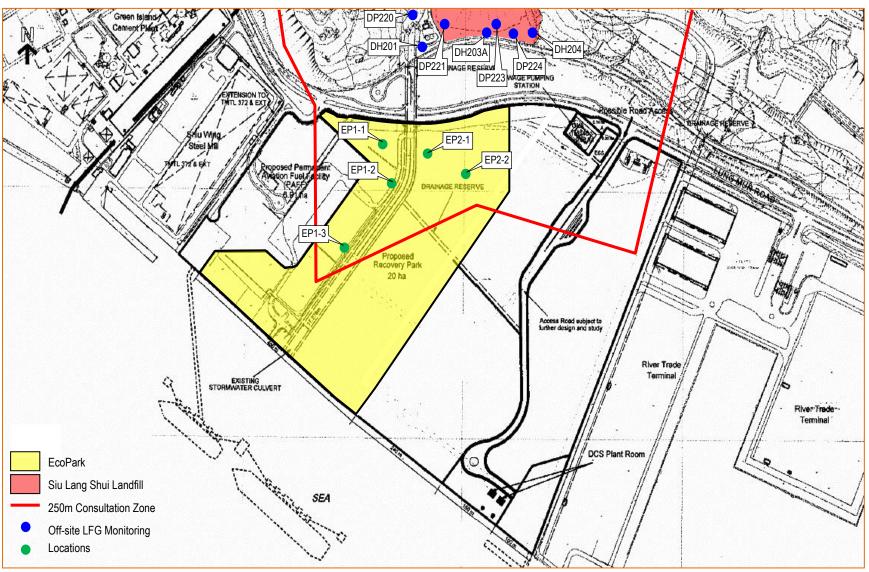
Figure 2-1 LFG Monitoring Locations Within EcoPark



Area Within the Shiu Lang Shui Landfill Gas Consultation Zone



Figure 2-2 Replacement Figure for EM&A Manual Figure 6.1





#### 3 OPERATION STATUS

#### 3.1 General

- 3.1.1 *Figure 3-1* shows the location of lots within EcoPark, the tenancy reference numbers and tenant names. A summary of waste throughputs is provided in *Section 3.8.1*.
- 3.1.2 Cosmos, the Phase 1 tenant, is yet to commission so there is no discussion on its operation status in this section.
- 3.1.3 In addition, Phase 2 lots were awarded to new tenants in August 2011 and August 2012 and the preparation works are being carried out. Building construction was being carried out in K.Wah and Chung Yue; while South China commenced construction on 9 September 2013. Therefore, none of the new tenants are yet on-site and there is no operation status to be discussed in this section. The new tenants are indicated in *Figure 3-1*.

#### 3.2 Champway Technology Ltd

- Tenancy No.: EP07-03 (Phase 1)
- Lot Size: Approx. 6,000m<sup>2</sup>
- Activity: Recycling of Organic Waste (Waste Cooking Oil)
- Recycling Process: Turn waste cooking oil into biodiesel by extraction, neutralisation, separation and distillation
- 3.2.1 Recycling of waste cooking oil was carried out in the reporting quarter.

#### 3.3 Shiu Wing Steel Ltd

- Tenancy No.: EP08-03 (Phase 1)
- Lot Size: Approx. 9,500m<sup>2</sup>
- Activity: Recycling of Waste Metals
- Recycling Process: Turn waste metals into light ferrous scrap and heavy ferrous scrap by sorting, baling and shearing
- 3.3.1 In this reporting quarter, large amounts of waste metal have been processed.

#### 3.4 Hong Kong Hung Wai Wooden Board Co

- **Tenancy No.:** EP06-34 (Phase 1)
- Lot Size: Approx. 5,000m<sup>2</sup>
- Activity: Recycling of Waste Wood
- **Recycling Process:** Recycle waste wood to wood fuel pellets. Ferrous metals will be separated by magnets.



3.4.1 Plant operation has been suspended and stopped receiving wood since October 2011 with a view to modifying the operation modes. Installation of machinery for wood fuel pellet production was carried out during April 2013 and May 2013. The recycling process converting waste wood into wood fuel pellet was commenced on 2 July 2013.

#### 3.5 Li Tong Group

• Tenancy No.: EP07-02 (Phase 1)

• Lot Size: Approx. 6,500m<sup>2</sup>

• Activity: Recycling of WEEE

- Recycling Process: Manually dismantling of WEEE into metals (ferrous materials, aluminium, etc.) and non-metals (fibres, plastics, etc.). Manually dismantling of Cathode Ray Tube (CRT) glass and Liquid Crystal Display (LCD) panels would be carried out upon request.
- 3.5.1 In this reporting quarter, a large amount of WEEE has been processed.

#### 3.6 Hong Kong Telford Envirotech Group Ltd

• **Tenancy No.**: EP08-01 (Phase 1)

• Lot Size: Approx. 5,000m<sup>2</sup>

• Activity: Recycling of Waste Plastics

• Recycling Process: Sorting, shredding and extrusion of waste plastics

3.6.1 As of end-September 2013, plastic bags have been stockpiled in the lot (since July 2009). Other plastic waste and some recycling equipment could also be found.

#### 3.7 YOT EcoPark Plastic Resources Recycling Centre

• **Tenancy No.**: EP10-01 (Phase 2)

• Lot Size: Approx. 5,000 m<sup>2</sup>

• Activity: Recycling of waste plastics

- Recycling Process: Convert mixed waste plastics into pellets/flake/baled materials by pre-washing, sorting, flaking, secondary washing, drying, extrusion and chipping.
- 3.7.1 In this reporting quarter, a large amount of waste plastic has been sorted.

#### 3.8 St. James' Settlement "WEEE GO GREEN" EcoPark

• **Tenancy No.:** EP10-02 (Phase 2)

• Lot Size: Approx. 5,000 m<sup>2</sup>

• Activity: Recycling of WEEE



- Recycling Process: WEEE will be sorted on site first. WEEE suitable for reuse will
  be repaired and refurbished, whilst those irreparable / not suitable for repair will
  be manually dismantled to recover the reusable parts and recyclable materials.
- 3.8.1 In this reporting quarter, a large amount of WEEE has been processed.

#### 3.9 Throughput Statistics

- 3.9.1 Cosmos and Phase 2 lots are yet actively recycling and so there is no Phase 2 throughput to report.
- 3.9.2 For the active Phase 1 recyclers, most of the waste materials and products were delivered by land transportation. Wood chips generated by Hung Wai were delivered by marine transportation, although operation has been suspended since October 2011. Nevertheless, the recycling process converting waste wood into wood fuel pellet was commenced on 2 July 2013.
- 3.9.3 The throughputs of the reporting quarter are summarised in *Table 3-1*, below. Please note that product output plus waste disposal does not necessarily equal the waste input, due to material losses during processing and material retained within the lot.

Table 3-1 Throughput Statistics for July to September 2013

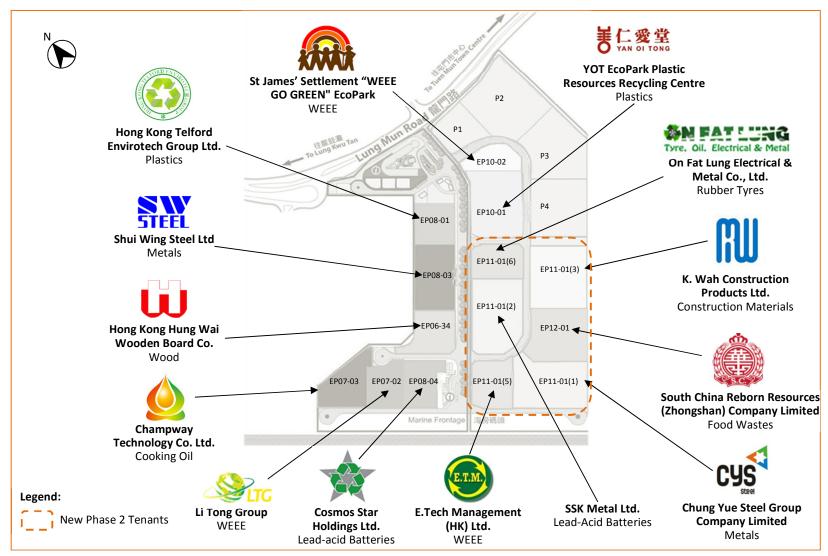
Material Type	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposed (tonnes)
Waste Oil	161	-	-
Waste Wood	-	-	-
WEEE	111	73	4
Waste Metals	1,710	1,710	-
Waste Plastics	757	672	33

**Note:** The throughput data presented above is the best available data.

3.9.4 **Detailed throughput figures are provided in Appendix 3.** 



Figure 3-1 Current Lot Usage within EcoPark





## 4 IMPLEMENTATION STATUS OF ENVIRONMENTAL PROTECTION MEASURES

- 4.1.1 Environmental mitigation measures applicable to the operation phase EM&A as stated in the implementation schedule are summarised in *Appendix 1*. Environmental requirements specified in tenancy agreements are summarised in *Appendix 2*.
- 4.1.2 As of end-September 2013, seven tenants (Champway, Shiu Wing, Li Tong, Yan Oi Tong, Telford, St. James' Settlement and Hung Wai) have commenced recycling activities within their lots, of which Hung Wai has commenced the recycling process from waste wood to wood fuel pellet since 2 July 2013. Appropriate environmental protection measures are in place.



#### 5 MONITORING RESULTS

#### 5.1 Monitoring Date, Time, Frequency and Duration

5.1.1 LFG monitoring is conducted on a quarterly basis. In this reporting quarter, monitoring was undertaken on 17 September 2013. Monitoring details are shown in *Table 5-1*, below.

Table 5-1 Sampling Schedule for LFG Monitoring

Station ID	Sampling Date	Time	Duration	Ambient Air Temp.	Weather
EP1-1		10:25 - 10:28	3 minutes	31°C	Fine
EP1-2		10:03 - 10:06	3 minutes	31°C	Fine
EP1-3	17 Sep 2013	9:57 - 10:00	3 minutes	31°C	Fine
EP2-1		10:10 - 10:13	3 minutes	31°C	Fine
EP2-2		10:15 - 10:18	3 minutes	31°C	Fine

#### 5.2 Monitoring Methodology, Parameters and Equipment

5.2.1 The LFG monitoring requirement and methodology are stipulated in Section 6 of the EM&A Manual. The LFG monitoring parameters and their measurement ranges are detailed in *Table 5-2*, below.

Table 5-2 Parameters and Measurement Ranges for LFG Monitoring

Parameters	Measurement Ranges
Methane (CH₄)	0-100% LEL & 0-100% v/v
Oxygen (O <sub>2</sub> )	0-25% v/v
Carbon Dioxide (CO <sub>2</sub> )	0-100% v/v
Barometric Pressure	mBar (absolute)

- 5.2.2 LFG monitoring shall be carried out using intrinsically-safe, portable multi-gas monitoring instruments. The gas monitoring equipment shall:
  - 1. Where possible, comply with BS 6020 and be approved by BASEEFA as intrinsically safe, suitable for use in a Zone 2 are to BS 5345.
  - 2. Be capable of continuous monitoring of methane, oxygen and carbon dioxide.
  - 3. Be capable of continuous barometric pressure and gas pressure measurements.
  - 4. Normally operate in diffusion mode unless required for spot sampling, when it should be capable of operating by means of an aspirator or pump.
  - 5. Have low battery, fault and over range indication incorporated.
  - 6. Store monitoring data, and shall be capable of being down-loaded directly to a PC.



7. Measure in the following ranges:

Methane
 0-100% LEL & 0-100% v/v

Oxygen 0-25% v/v
 Carbon dioxide 0-100% v/v
 Barometric pressure mBar (absolute)

- 5.2.3 The monitoring equipment shall alarm (both audibly and visually) in the event that the concentrations of the following are exceeded:
  - 1. Methane rise to 10% LEL.
  - 2. Oxygen fall to 18% by volume.
  - 3. Carbon monoxide maximum short term (1-hour) exposure of 300ppm with long term average (8-hours) not to exceed 50ppm.

#### 5.3 Types of Equipment Used and Calibration Details

5.3.1 One InfraRed Gas Analyser Model GA94A (serial number GA3385) was used for LFG measurements. The gas analyser is calibrated at least every 18 months. *Appendix 4* presents the monitoring equipment calibration records.

#### 5.4 Results and Graphical Plots of Monitoring Parameters

5.4.1 LFG monitoring results are summarised in *Table 5-3* and compared with the Action and Limit Levels tabulated in *Table 2-2*. Graphical plots of the monitoring results are also provided in *Appendix 5*.

**Table 5-3 LFG Monitoring Results** 

			Monitoring Results				
Station ID	Sampling Date	CH₄ (% v/v)	CH₄ (% LEL)	O₂ (% v/v)	CO₂ (% v/v)	Barometric Pressure (mBar)	
EP1-1		0.0	0	20	0.0	1000	
EP1-2		0.0	0	20	0.2	1003	
EP1-3	17 Sep 2013	0.0	0	21	0.0	1003	
EP2-1		0.0	0	20	0.0	1003	
EP2-2		0.0	0	20	0.0	1003	

5.4.2 No exceedance of Action and Limit Levels were recorded in the reporting quarter.



#### 6 SUMMARY OF TENANT AUDITS

#### 6.1 General

- 6.1.1 Cosmos and the new tenants of Phase 2 lots were carrying out site preparation works. As such, only general site inspections at those lots needed to be carried out in the reporting quarter.
- 6.1.2 Environmental audits of active tenants and the general EcoPark audit were carried out by the ET on 24 July 2013, 19 August 2013 and 17 September 2013. The quarterly IEC audit was carried out on 17 September 2013.
- 6.1.3 The audits were conducted based on the approved site inspection checklist. The completed audit checklists for tenants are provided in *Appendix 6*.

#### 6.2 Champway Technology Ltd

6.2.1 Audit observations from previous reporting quarters and audit observations from this reporting quarter are summarised in *Table 6-1*, below. The next audit will follow up any remaining unresolved issues. The completed checklists for Champway are given in *Appendix 6-1*.

**Table 6-1 Environmental Audit Findings for Champway** 

Date	Item	Comment	Status		
Observations	From Previous Reporting Q	uarters			
	None.				
Observations	From This Reporting Quart	er			
24/07/2013	No critical issues were identified.				
19/08/2013	No critical issues were identified.				
17/09/2013	No critical issues were ide	No critical issues were identified.			

#### 6.3 Shiu Wing Steel Ltd

6.3.1 Audit observations from previous reporting quarters and audit observations from this reporting quarter are summarised in *Table 6-2*, below. The completed checklists for Shiu Wing are given in *Appendix 6-2*.

Table 6-2 Environmental Audit Findings for Shiu Wing

Date	Items	Comments	Status
Observations	From Previous Reporting Q	uarters	
	None.		
Observations	From This Reporting Quarte	er	
24/07/2013	24/07/2013 No critical issues were identified.		
19/08/2013	No critical issues were identified.		
17/09/2013	No critical issues were ide	ntified.	



#### 6.4 Hong Kong Hung Wai Wooden Board Co.

6.4.1 Audit observations from previous reporting quarters and audit observations from this reporting quarter are summarised in *Table 6-3*, below. The next audit will follow up any remaining unresolved issues. The completed checklists for Hung Wai are given in *Appendix 6-3*.

Table 6-3 Environmental Audit Findings for Hung Wai

Date	Items	Comments	Status		
Observations	Observations From Previous Reporting Quarters				
21/06/2013	Dust was observed near the waste wood storage area.	The tenant was requested to implement dust suppression measures.	The plant was not operated during site audit on 17 September 2013 and the effectiveness of the additional blower on dust suppression will be followed up once the plant is in operation.  [Closed]		
	Significant noise nuisance was observed due to equipment operation.	The tenant was requested to provide acoustic measures such as barrier to mitigate noise nuisance.	As advised by SGJV, the Tenant had provided acoustic measures to mitigate noise nuisance and no annoying noise were observed during audit on 24 July 2013. The observation is subject to review.  [Closed]		
	Wood debris and waste were observed inside the surface channel.	The tenant was requested to clear waste in the surface channel.	No wood debris and waste were observed inside the surface channel during audit on 24 July 2013. [Closed]		
Observations	From This Reporting Quart	er			
24/07/2013	No critical issues were identified.				
19/08/2013	No critical issues were identified.				
17/09/2013	No critical issues were ide	entified.			

#### 6.5 Li Tong Group

6.5.1 Audit observations from previous reporting quarters and audit observations from this reporting quarter are summarised in *Table 6-4* below. The completed checklists for Li Tong are given in *Appendix 6-4*.



Table 6-4 Environmental Audit Findings for Li Tong

Date	Items	Comments	Status		
Observations	From Previous Reporting Q	uarters			
	None.				
Observations	From This Reporting Quart	er			
24/07/2013	/2013 No critical issues were identified.				
19/08/2013	No critical issues were identified.				
17/09/2013	No critical issues were ide	ntified.	No critical issues were identified.		

#### 6.6 Hong Kong Telford Envirotech Group Ltd

6.6.1 Audit observations from previous reporting quarters and audit observations from this reporting quarter are summarised in *Table 6-5*, below. The completed checklists for Telford are given in *Appendix 6-5*.

**Table 6-5 Environmental Audit Findings for Telford** 

Date	Items	Comments	Status			
Observations	From Previous Reporting Q	uarters				
	None.					
Observations	From This Reporting Quart	er				
24/07/2013	No critical issues were identified.					
19/08/2013	No critical issues were identified.					
17/09/2013	No critical issues were ide	ntified.		No critical issues were identified.		

#### 6.7 YOT EcoPark Plastic Resources Recycling Centre

6.7.1 Audit observations from previous reporting quarters and audit observations from this reporting quarter are summarised in *Table 6-6* below. The next audit will follow up any remaining unresolved issues. The next audit will follow up any unresolved issues. The completed checklists for Yan Oi Tong are given in *Appendix 6-6*.

Table 6-6 Environmental Audit Findings for Yan Oi Tong

Date	Items	Comments	Status		
Observations From Previous Reporting Quarters					
	None.				
Observations From This	Reporting Quarter				
24/07/2013	No critical issues were identified.				
19/08/2013	No critical issues were identified.				
17/09/2013	No critical issues were	identified.			



#### 6.8 St. James' Settlement "WEEE GO GREEN" EcoPark

6.8.1 Audit observations from previous reporting quarters and audit observations from this reporting quarter are summarised in *Table 6-7* below. The completed checklists for St James' Settlement are given in *Appendix 6-7*.

Table 6-7 Environmental Audit Findings for St James' Settlement

Date	Items	Comments	Status
Observations	From Previous Reporting Q	uarters	
	None.		
Observations	From This Reporting Quart	er	
24/07/2013	/07/2013 No critical issues were identified.		
19/08/2013	No critical issues were identified.		
17/09/2013	No critical issues were ide	ntified.	



## 7 SUMMARY OF GENERAL ECOPARK AUDIT

7.1.1 Audit observations from previous reporting quarters and audit observations from this reporting quarter are summarised in *Table 7-1*, below. The next audit will follow up any remaining unresolved issues. The completed general checklists for EcoPark (and non-active tenants) are given in *Appendix 7*.

**Table 7-1 General EcoPark Audit Findings** 

Date	Items	Comments	Status			
Observations	Observations From Previous Reporting Quarters					
21/06/2013	<b>K.Wah:</b> Stagnant water was observed next to the office building.	The tenant was reminded to remove the stagnant water.	No stagnant water was observed during site audit on 17 September 2013. [Closed]			
	<b>K.Wah:</b> C&D waste was observed inside the surface channels.	The tenant was reminded to remove the waste inside the surface channel and provide sand bags between the edge of the surface channel and the work area to prevent surface runoff into the channel.	No C&D waste was observed inside the surface channel during site audit on 19 August 2013. [Closed]			
	Chung Yue: A dry haul road was observed being use and generating dust.	The tenant was reminded to provide water spraying regularly to avoid dust generation.	The haul road was paved with concrete during site audit on 19 August 2013. [Closed]			
Observations	Observations From This Reporting Quarter					
24/07/2013	No critical issues were identified.					
19/08/2013	No critical issues were identified.					
17/09/2013	No critical issues were ide	ntified.				



## 8 COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

8.1.1 As of end-September 2013, no complaint, notifications of summons or successful prosecutions related to recycling activities were received in this reporting quarter.



#### 9 **CONCLUSIONS**

- 9.1.1 This is the twenty-sixth quarterly EM&A report prepared for the operation phase of EcoPark and covers July to September 2013. The tenants' recycling activities are audited on a monthly basis and the results are summarised in this report. In the reporting quarter, there were fourteen tenants in EcoPark Phase 1 and Phase 2.
- 9.1.2 The ET has conducted monthly site inspections while the IEC has carried out quarterly inspections, and some general observations have been made. The approved checklist has been used in the monthly site inspections for various tenants since October 2009.
- 9.1.3 The throughputs of the reporting quarter are summarised in *Table 9-1*, below. Please note that product output plus waste disposal do not necessarily equal the waste input, due to material losses during processing and material retained within the lot.

Table 9-1 Throughput Statistics for July to September 2013

Material Type	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposed (tonnes)
Waste Oil	161	-	-
Waste Wood	-	-	-
WEEE	111	73	4
Waste Metals	1,710	1,710	-
Waste Plastics	757	672	33

Note: The throughput data presented above is the best available data

- 9.1.4 LFG monitoring during this quarter was undertaken on 17 September 2013 at five locations (three in Phase 1 and two in Phase 2). No exceedance of Action Level and Limit levels were recorded in the report quarter.
- 9.1.5 Numbers of complaints, summons and successful prosecutions in the reporting quarter are summarised below:

• Complaints: Zero.

Summons: Zero.

• Successful Prosecutions: Zero.

9.1.6 In the next reporting quarter, operation phase LFG monitoring for Phase 1 and Phase 2 will continue.



## **APPENDIX 1**

Environmental Mitigation Measures (from the Implementation Schedule)



EIA Ref.	EM&A Ref.	Environmental Protection Measures Identified in the Implementation Schedule that are Applicable to the Operation Phase of EcoPark	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines
General					
5.5.23 to 5.5.25, 10.2.24 & 10.2.37	4.2.5 to 4.2.8	The Operator shall develop and implement an Emergency Response Plan (ERP) that lists the procedures to be followed in case of fire, fuel or chemical spillage or other emergency within the EcoPark.	Throughout the duration of the operation.	Operator	
12.2	7.2	No process shall be allowed to operate within EcoPark without approval from WFBU. Approval will be based on the ten-step Process Review, which may include a Design Audit if deemed to be necessary.	Throughout the duration of the operation.	ET IEC Project Proponent	
	8.1.2	All reports (including Process Review Checklists and any Design Audits) shall be prepared and certified by the ET, verified by the IEC and approved by the Project Proponent.	Throughout the duration of construction works until construction is substantially completed. Throughout the duration of the operation.	ET IEC Project Proponent	
12.3	7.3	The Operator shall prepare and implement an Environmental Management Plan (EMP) to define mechanisms for achieving the environmental requirements specified in the EIA, EP and in statutory regulations.	Throughout the duration of the operation.	Operator	
Air Quality					
13.2		The Operator shall ensure that EcoPark "base case" assumptions for air quality shown in Table 13.1 of the Final EIA Report are met by tenants, as a whole.	Throughout the duration of the operation.	Operator	Table 13.1 of the Final EIA Report
Water Qua	lity				
5.4.11 & 5.6.7		To minimise the chance of accidental spillage during loading and unloading, and thereby reduce marine water quality impacts, well established cargo handling guidelines should be followed.	Adjacent to EcoPark marine frontage when loading or unloading goods.	Operator Operators of bulk carriers	Sections 5 & 6 of IMO Code of Practice for the Safe Loading/Unloading of Bulk Carriers
5.5.19		Contaminated water collected in the surface drainage systems shall be treated at the WTF or other appropriate treatment facility.	Within EcoPark throughout the life of the facility.	Operator	
5.5.23 to 5.5.25	4.2.5 to 4.2.7	An Emergency Response Plan (ERP) will be formulated to address various accident scenarios. The ERP will be certified by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) under the operation EM&A programme.	Within EcoPark throughout the life of the facility.	Operator	
5.6.4		For uncovered areas where recovery process identified as causing potentially high level of contamination are located, stop-logs will be installed in the perimeter drainage system to isolate contamination.	Within EcoPark throughout the life of the facility.	Operator	



EIA Ref.	EM&A Ref.	Environmental Protection Measures Identified in the Implementation Schedule that are Applicable to the Operation Phase of EcoPark	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines
	4.2.2	The ET should develop an audit checklist, with the agreement of the IEC, to ensure that each mitigation measure is implemented when appropriate and operated correctly when implemented.	Within EcoPark throughout the life of the facility.	ET with IEC	
Waste Ma	nagement			•	
6.8.7	5.2.4	The Operator should register with EPD as a chemical waste producer.	Within EcoPark throughout the life of the facility.	Operator	Waste Disposal (Chemical Waste) (General) Regulation
6.8.16		The dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	Within EcoPark throughout the life of the facility.	Operator	Practice Note for disposal of dusty waste at landfills & Admission Ticket System
6.8.18 & 6.8.22	5.2.4	Sludge will be disposed of at WENT landfill, or at any future dedicated sludge treatment facility. Sludge will be collected by a Licensed collector at regular intervals, as determined by the operation of the WTF	Within EcoPark throughout the life of the facility.	Operator	
6.8.21	5.2.4	Chemical wastes shall be stored in appropriate containers in a covered area. "No Smoking" signs will be clearly displayed to prevent accidental ignition of flammable materials. Drip trays capable of storing 110% of the volume of the largest container will be used to mitigate possible leakage.	Within EcoPark throughout the life of the facility.	Operator	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
	5.2.3 & 5.2.5	The ET should develop an audit checklist, with the agreement of the IEC, to ensure that each mitigation measure is implemented when appropriate and operated correctly when implemented.	Within EcoPark throughout the life of the facility.	ET with IEC	
Prevention	of Contar	ninated Land			
7.3.1	5.3.2	Any spillages of contaminating material shall be cleaned up immediately through the use of an absorbent. Any such used material should then be considered chemical waste and disposed of appropriately.	Within EcoPark throughout the life of the facility.	Operator	
7.3.3		Any areas within the lot to be used for recycling processes shall be concrete paved before recycling activities commence.	Within EcoPark throughout the life of the facility.	Operator	
7.3.5	5.3.2	During operation, the greatest risk of land contamination will come from storage of chemical wastes, therefore the measures should be followed:	Within EcoPark throughout the life of the facility.	Operator	
		<ul> <li>All chemical storage areas shall be provided with locks and be sited on sealed areas. The storage areas shall be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil and chemicals from contaminating the ground.</li> </ul>			



	EM&A	Environmental Protection Measures Identified in the Implementation Schedule	Location / Duration of Measures / Timing of	Implementation	Relevant Legislation
EIA Ref.	Ref.	<ul> <li>that are Applicable to the Operation Phase of EcoPark</li> <li>Management of chemical waste is implemented through the control of waste storage, labelling of waste, transportation and treatment of chemical waste at an appropriate facility.</li> </ul>	Completion of Measures	Agent	and Guidelines
		Chemical wastes will be collected, stored and disposed of in accordance with the Regulation. Disposal of other construction waste will be undertaken by licensed contractors in accordance with applicable statutory requirements in the WDO.			Waste Disposal (Chemical Waste) (General) Regulation
		Chemical wastes shall be handled according to the relevant code of practice.  Spent chemicals shall be stored and collected by an approved operator for disposal at a licensed facility in accordance with the relevant regulation.			Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes & Chemical Waste (General) Regulation
	5.3.3	The ET should develop an audit checklist, with the agreement of the IEC, to ensure that each mitigation measure is implemented when appropriate and operated correctly when implemented.	Within EcoPark throughout the life of the facility.	ET with IEC	
Landfill Ga	as			•	
8.7.10 & 8.7.11	6.1.2	<ul> <li>Alert workers and visitors of possible LFG hazards</li> <li>Prohibit smoking and open fires on site</li> <li>Conduct regular (quarterly) LFG monitoring at mobile offices, equipment stores, etc.</li> </ul>	Within EcoPark throughout the life of the facility.	Operator	
	6.4.3	Following construction, routine monthly monitoring may be required at service voids and utility boxes. The monitoring requirement and specific locations of monitoring points shall be established based on the findings of the monitoring carried out during construction (i.e. if no LFG is detected during construction then no routine monitoring is required). The need for continued monitoring shall, however, be reviewed through discussion with EPD.	Within EcoPark throughout the life of the facility.	Operator	
Hazard to	Life				
10.4.3		Building height limit within EcoPark shall be applied to structures within which people may work at elevated levels.	Within EcoPark throughout the life of the facility.	Operator	EIA Report Table 10.2
Landscape	and Visua	l			
9.4.4		It recommended that this commonality be promoted throughout EcoPark by the Operator and adopted by tenants, if practicable.	Within EcoPark throughout the life of the facility.	Operator	



## **APPENDIX 2**

**Environmental Requirements in Tenancy Agreements** 



#### **APPENDIX 2-1**

**Environmental Requirements in Tenancy Agreements** 

Phase 1



### **GENERAL ENVIRONMENTAL RESPONSIBILITIES**

- 9.1 The Tenant shall at its own cost(s) comply with and shall ensure that the Premises is used, designed, constructed, operated and maintained in accordance with:-
  - (a) All relevant Ordinances, by-laws, regulations, statutory technical memorandums, codes of practice, rules, non-statutory guidance notes, schemes and abatement notices for the time being in force in Hong Kong including those relating to the environment and governing the control of any form of pollution (see specific Ordinances mentioned hereinbelow) and licensing requirements under relevant Ordinances and regulations.
  - (b) All information, mitigation measures, prohibitions, restrictions, recommendations and requirements under the Environmental Impact Assessment Report for Development of an EcoPark in Tuen Mun Area 38 with Appendices, i.e. the EIA Report (Register No.: AEIAR-086/2005) dated April 2005, the Final EM&A Manual dated April 2005, the application documents including all attachments (Application No. AEP-226/2005) and other relevant documents in the Register (or in any other places, any internet websites or by any other means as specified by the Director), including the prohibitions and mitigation measures for processes in Table 14.1 and the material throughputs, processes and remarks in Table B.1 of the EIA Report (in so far as applicable).
  - (c) All information, conditions, submissions, mitigation measures, orders, notices, requirements, prohibitions, restrictions and time limits under the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) (including updated information about the Permit, any amended permit and any further permit) and all mitigation measures recommended and to be recommended in submissions that shall be deposited with or approved by the Director as a result of permit conditions contained in the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit – Application No.VEP-221/2006 (including updated information about the Permit, any amended permit and any further permit). The Tenant shall refer to, inter alia, Conditions 4.1 to 4.14 (and Annexes A and B) and Conditions 3.7 and 3.8 (and Figures 2 and 3) of the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) regarding measures to mitigate air quality impact, measures to mitigate hazard to life impact, measures to prevent land contamination, measures to mitigate landfill gas hazard, maintenance of landscape and visual measures (see also hereinbelow regarding Condition 5 of the Environmental Permit and specified Ordinances).
  - (d) All information, conditions, submissions, mitigation measures, orders, notices and requirements under ongoing surveillance and monitoring activities during all stages of the Project and during the tenancy under the Tenancy Agreement (e.g. any additional mitigation measures recommended and to be recommended under the Process Review and Design Audit (carried out and to be carried out in accordance with the EM&A Manual) for various environmental impacts including, but not limited to, noise pollution, air quality, hazard to life, landfill gas hazard, landscape and visual measures, waste management and land contamination).
  - (e) All recommendations referred to in the documents of the EIAO Register which are not expressly referred to in Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) and any amended Environmental Permit (unless expressly excluded or impliedly amended in the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) and any amended Environmental Permit).
- 9.2 Further to Condition Nos. 6 and 8 hereinabove, the Tenant shall at its own cost provide relevant environmental monitoring data, information, documents and assistance to the Director and/or the Environmental Protection Department and shall permit authorised representatives of the Environmental Protection Department to access, inspect, take samples and monitor the Premises and operations for the Process Review and the Design Audit carried out and/or to be carried out pursuant to Conditions 4.1 and 5 of the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) (and any updated Permit, amended permit and further permit).



- 9.3 If the Tenant's operations (i.e. activities and facilities for recovery and/or recycling and/or reprocessing) are not covered by the EIA Report and/or deviate from the development parameters mentioned in inter alia the EIA Report, the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) (including the parameters at Annex A) and/or any environmental licence (e.g. the Water Treatment Facility ("WTF") Discharge Licence), and if additional mitigation measures are not available or are not effective in the opinion of the Director, to ensure compliance with the EIA Report, the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) (including any updated Permit, amended permit and further permit) and the relevant environmental licence(s), the Tenant shall comply with any modified parameters and/or the Tenant shall immediately modify its operations in such a way that the findings and requirements of the EIA Report, the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) (including any updated Permit, amended permit and further permit) and the environmental licence(s) are complied with and shall immediately cease to continue the offending part of the operations or activity in question.
- 9.4 The Tenant shall at its own cost(s) apply for, obtain, renew, maintain and comply with all the relevant licences related to compliance with all relevant Ordinances, by-laws, regulations, statutory technical memorandums, codes of practice, rules, non-statutory guidance notes, schemes, abatement notices and the environmental permits for the time being in force in Hong Kong (including those relating to the environment and governing the control of any form of pollution). The Tenant shall obtain, renew and comply with all the said licences within the relevant time limits (in any event, within one (1) calendar month of the date of signing and/or execution of the Tenancy Agreement), shall comply with all abatement notices, orders, directions and requests of the relevant authorities and public officers and shall be responsible for paying all relevant fees, costs, fines and penalties.
- 9.5 The Tenant shall not do anything or omit to do anything which would cause, contribute to or involve a breach or potential breach by the Director relating to any of the matters mentioned in Conditions 9.1 to 9.4 hereinabove (and other Conditions herein below).
- 9.6 The Tenant shall fully indemnify the Government and/or the Director for any fees, costs, damages, expenses, fines, penalties, losses and claims arising (a) out of any breach of any of the matters mentioned in inter alia Conditions 9.1 to 9.4 hereinabove (and other Conditions herein below) or (b) from the use of the Premises or (c) out of any works carried out at any time during the term to or at the Premises or (d) out of anything now or during the term attached to or projecting from the Premises or (e) from any neglect or default by the Tenant or by its respective servants or agents or by any express licensee of the Tenant.

### **SPECIFIC ENVIRONMENTAL RESPONSIBILITIES**

### Air Pollution

- 10. Save with an appropriate exemption under the Air Pollution Control Ordinance (Cap. 311 of the Laws of Hong Kong) any regulations made thereunder and any amending legislation, the Tenant shall not install or permit or suffer to be installed upon the Premises or any part thereof or any building(s) or structure(s) or part of any building(s) or structure(s) erected or to be erected thereon any furnace, oven, chimney or flue or any other combustion equipment or use or permit or suffer to be used any fuel or any method or process of manufacture or treatment that might in any circumstance result in, cause or contribute to the discharge or emission of any pollutant or any noxious, harmful or corrosive matter, whether it be in the form of gas, smoke, liquid, solid or otherwise (including but not limited to air pollutant as defined in Section 2 of the Air Pollution Control Ordinance (Cap. 311 of the Laws of Hong Kong)), which exists or which is imminent, without the prior written approval of the Director.
- 11. No alteration to the installation and method of manufacture shall be made without the prior written consent of the Director. In any event, the Tenant shall at its own cost(s) comply with, inter alia, Conditions 4.2 to 4.7 and Annex A of the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) regarding design, installation and operation of chimney, location of fresh air intakes and use of ultra-low sulphur or other cleaner fuel(s) as agreed by the Director (and the conditions of any updated Permit, amended permit and further permit regarding measures to mitigate air quality impact), good practices and relevant provisions of the EIA Report and Final EM&A Manual.



### **Noise Pollution**

- 12. The Tenant shall take all necessary measures as may be required by and to the satisfaction of the Director to ensure that the operation of all plant and equipment, installed or used on the Premises or in any building(s) or structure(s) or any part of any building(s) or structure(s) erected or to be erected thereon, will not result, not cause and/or will not contribute any noise (which exists or which is imminent) which disturbs or annoys the residents or occupiers of any adjoining or neighbouring lot or lots or premises, or causes and/or contributes to disturbance to the general public under the Noise Control Ordinance (Cap. 400 of the Laws of Hong Kong) any regulations made thereunder and any amending legislation.
- 13. The decision of the Director as to whether any such plant and equipment are causing disturbance or annoyance as aforesaid shall be final and binding on the Tenant.

#### Waste Management

- 14. The Tenant shall not permit, allow or suffer any fuel or chemical and any sewage, waste water or effluent containing sand, cement, silt or any suspended or dissolved material to flow, escape or run from the Premises onto any adjoining land or allow any waste matter which does not form part of the recovery and/or recycling and/or reprocessing operation or is not part of the final product of such operation to be deposited, kept, held or stored anywhere within the Premises and other areas of EcoPark. The Tenant shall at its own cost(s) have all such matters and all waste arising from recycling activities, chemical waste arising from maintenance of plant and equipment, sewage sludge (from WTF) and general daily waste from the operation removed from the Premises or any building(s) or structure(s) or any part of any building(s) or structure(s) erected or to be erected thereon in a proper manner to the satisfaction of the Director.
- 15. In any event, the Tenant shall at its own cost(s) comply with, inter alia, Conditions 4.11 and 4.12 of the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) regarding paving all areas of the Premises with concrete/using concrete hardstanding and siting all fuel tanks and chemical storage areas on the specified sealed areas, respectively (and comply with the conditions of any updated Permit, amended permit and further permit regarding measures to prevent land contamination). The Tenant shall at its own cost(s) comply with relevant provisions of the Waste Disposal Ordinance (Cap.354 of the Laws of Hong Kong) good practices and relevant provisions of the EIA Report and Final EM&A Manual.

### **Water Pollution**

- In the event that the Tenant produces, generates, permits, causes, allows or suffers any discharge which is subject to control under the Water Pollution Control Ordinance (Cap. 358 of the Laws of Hong Kong) any regulations made thereunder and any amending legislation, and is not covered by a WTF Discharge Licence issued under the Water Pollution Control Ordinance (Cap. 358 of the Laws of Hong Kong) the Tenant shall apply to the Director for a licence and comply with the terms and conditions stipulated in the licence and the WTF Discharge Licence at the Tenant's own cost(s). Otherwise, the Tenant is not allowed to discharge directly or indirectly or to produce, generate, permit, cause, allow or suffer any discharge into any public sewer, storm-water drain, channel, stream-course, sea or any area inside or outside the Premises any trade effluent or foul or contaminated water or cooling or hot water. Subject to the said licence from the Director and WTF Discharge Licence, the Tenant shall at its own cost(s) separate, collect, discharge and send all process or industrial wastewater to the WTF for treatment to the standard required for discharge into a sewer leading to the sewage treatment works at Pillar Point or other treatment works specified in the licence.
- 17. Subject to obtaining advance written approval of the Director, the Tenant shall at its own cost(s) provide, install, operate and maintain its own waste water pre-treatment plants within the Premises if such process or industrial wastewater could not meet the influent limits / exceeds the maximum influent criteria of the WTF (in accordance with paragraph 7.2.9 of the Final E&MA Manual). The Tenant shall at its own cost(s) separate, collect, discharge and send all domestic wastewater (i.e. other than process or industrial wastewater) to the Pillar Point Sewage Treatment Works directly for treatment or other treatment works specified in the licence.



18. In any event, the Tenant shall prevent any spilled materials from entering the surface water drainage system and prevent contamination of the sea at its own cost(s) by, inter alia, providing, installing, operating and maintaining stop-logs or interceptors in the surface water drainage system and at the marine frontage area, respectively, or as required by the licence. The Tenant shall at its own cost comply with relevant provisions of the Dumping at Sea Ordinance (Cap 466 of the Laws of Hong Kong) good practices and relevant provisions of the EIA Report and Final EM&A Manual.

### **Hazard to Life Impact**

- 19. To mitigate hazard to life impact, the Tenant shall comply with, inter alia, Conditions 4.8 to 4.10 of the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) (and comply with the conditions of any updated Permit, amended permit and further permit regarding measures to mitigate hazard to life impact) and shall not:-
  - (a) Bring, keep, store or transport chlorine within the Premises and other areas of EcoPark;
  - (b) Bring, keep, store, locate or transport dangerous goods, substances and fuels supporting combustion including oxygen, acetylene, hydrogen peroxide, rubber tyres and diesel within 10 metres from the boundary of the site of EcoPark; and
  - (c) Exceed the building height restrictions for buildings on the Premises which are on/near the western boundary of the site of EcoPark as mentioned in Annex B to the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) (including any updated Permit, amended permit and further permit).

### Landfill Gas Hazard

20. To mitigate landfill gas hazard, the Tenant shall at its own cost(s) comply with, inter alia, Condition 4.13 of the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) regarding raising clear of the ground all buildings and enclosed structures as specified in inter alia Condition 3.7 (and comply with the conditions of any updated Permit, amended permit and further permit regarding measures to mitigate hazard to life impact).

### **Landscape and Visual Impacts**

21. To mitigate landscape and visual impacts, the Tenant shall at its own cost(s) comply with, inter alia, Condition 4.14 of the Environmental Permit No. EP-226/2005 as amended by the Variation of Environmental Permit (EP-226/2005/B) regarding maintaining landscape, planting, treatment and mitigation measures as specified in inter alia Condition 3.8 and Figure 3 (and comply with the conditions of any updated Permit, amended permit and further permit regarding measures to mitigate landscape and visual impacts).



## **APPENDIX 2-2**

**Environmental Requirements in Tenancy Agreements** 

Phase 2



### **Compliance of Environmental Legislation**

5. The Tenant shall comply with and observe all Ordinances, by-laws, regulations and rules for the time being in force in Hong Kong governing the control of any form of pollution, including air, noise, water and waste pollution, and for the protection of the environment.

### **Air Pollution**

6. Save with an appropriate exemption under the Air Pollution Control Ordinance (Cap. 311) any regulations made thereunder and any amending legislation, the Tenant shall not install or permit or suffer to be installed upon the Premises or any part thereof or any building(s) or structure(s) or part of any building(s) or structure(s) erected or to be erected thereon any furnace, oven, chimney or flue or any other combustion equipment or use or permit or suffer to be used any fuel or any method or process of manufacture or treatment that might in any circumstance result in, cause or contribute to the discharge or emission of any pollutant or any noxious, harmful or corrosive matter, whether it be in the form of gas, smoke, liquid, solid or otherwise (including but not limited to air pollutant as defined in Section 2 of the Air Pollution Control Ordinance (Cap. 311), which exists or which is imminent, without the prior written approval of the Director.

### **Water Pollution**

- 7.(a) In the event that the Tenant produces, generates, permits, causes, allows or suffers any discharge which is subject to control under the Water Pollution Control Ordinance (Cap. 358) any regulations made thereunder and any amending legislation, the Tenant shall apply to the Director for a licence and comply with the terms and conditions stipulated in the licence at the Tenant's own cost(s). Otherwise, the Tenant is not allowed to discharge directly or indirectly or to produce, generate, permit, cause, allow or suffer any discharge into any public sewer, storm-water drain, channel, stream-course, sea or any area inside or outside the Premises any trade effluent or foul or contaminated water or cooling or hot water. Subject to the said licence from the Director, the Tenant shall at its own cost(s) separate, collect, and discharge all process or industrial wastewater which comply with the standard required for discharge into a sewer leading to the sewage treatment works at Pillar Point or other treatment works specified in the licence.
  - (b) Subject to obtaining advance written approval of the Director, the Tenant shall at its own cost(s) provide, install, operate and maintain its own waste water pre-treatment plants within the Premises if such process or industrial wastewater could not meet the standard required for discharge into a sewer leading to the sewage treatment works at Pillar Point or other treatment works specified in the licence. The Tenant shall at its own cost(s) separate, collect, discharge and send all domestic wastewater (i.e. other than process or industrial wastewater) to the Pillar Point Sewage Treatment Works directly for treatment or other treatment works specified in the licence.
  - (c) In any event, the Tenant shall prevent any spilled materials from entering the surface water drainage system and prevent contamination of the sea at its own cost(s) by, inter alia, providing, installing, operating and maintaining stop-logs or interceptors in the surface water drainage system and at the marine frontage area, respectively, or as required by the licence. The Tenant shall at its own cost comply with relevant provisions of the Dumping at Sea Ordinance (Cap. 466) good practices and relevant provisions of the EIA Report and Final EM&A Manual.

### **Waste Management**

- 8.(a) The Tenant shall at its own cost(s) comply with relevant provisions of the Waste Disposal Ordinance (Cap. 354).
- (b) The Tenant shall not permit, allow or suffer any fuel or chemical and any sewage, waste water or effluent containing sand, cement, silt or any suspended or dissolved material to flow, escape or run from the Premises onto any adjoining land or allow any waste matter which does not form part of the recovery and/or recycling and/or reprocessing operation or is not part of the final product of such operation to be deposited, kept, held or stored anywhere within the Premises and other areas of



EcoPark. The Tenant shall at its own cost(s) have all such matters and all materials arising from recycling activities, chemical materials arising from maintenance of plant and equipment, sewage sludge (from wastewater treatment facilities, if any) and general daily waste from the operation removed from the Premises or any building(s) or structure(s) or any part of any building(s) or structure(s) erected or to be erected thereon in a proper manner to the satisfaction of the Landlord and/or the Director.

### **Noise Pollution**

- 9.(a) The Tenant shall take all necessary measures as may be required by and to the satisfaction of the Landlord and/or the Director to ensure that the operation of all plant and equipment, installed or used on the Premises or in any building(s) or structure(s) or any part of any building(s) or structure(s) erected or to be erected thereon, will not result, not cause and/or will not contribute any noise (which exists or which is imminent) which disturbs or annoys the residents or occupiers of any adjoining or neighbouring lot or lots or premises, or causes and/or contributes to disturbance to the general public under the Noise Control Ordinance (Cap. 400) any regulations made thereunder and any amending legislation.
- (b) The decision of the Landlord or the Director as to whether any such plant and equipment are causing disturbance or annoyance as aforesaid shall be final and binding on the Tenant.

### **Landfill Gas Hazard**

10. To mitigate landfill gas hazard, the Tenant shall at its own cost(s) comply with, inter alia, Condition 4.13 of the Environmental Permit No. EP-226/2005/B regarding raising clear of the ground all buildings and enclosed structures as specified in inter alia Condition 3.7 (and comply with the conditions of any updated Permit, amended permit and further permit regarding measures to mitigate hazard to life impact).

### **EcoPark Being Within the 250m Consultation Zone of Siu Lang Shui Landfill**

- 11.(a) The Tenant acknowledges that the EcoPark is within the 250m Consultation Zone of the Siu Lang Shui Landfill and that the Premises may be affected by problems associated with migrating landfill gas and undertakes to provide suitable precautionary or protection measures at his own expense to control these potential hazards.
  - (b) The Tenant shall ensure all personnel entering the Premises and all visitors to the Premises are aware of the potential hazards of the landfill gas by posting suitable warning notices of the potential hazards at his own expense.
  - (c) All buildings and enclosed structures, including temporary offices, temporary stores and the administration building, within the 250m Consultation Zone of the Siu Lang Shui Landfill shall be provided with the following measure(s):
    - (i) buildings shall be raised clear of the ground with a clear separation distance (as measured from the highest point on the ground surface to the underside of the lowest floor joist) of at least 500mm; or
    - (ii) a low-gas permeability membrane shall be applied to the surface of any wall or floor slab that rests on or is below ground. A gravel-fill vent system shall be provided such that passive venting is achieved around the perimeter of the structure. In addition, other building materials, such as dense well-compacted concrete or steel shuttering which provide a measure of resistance to gas permeation, shall be used to achieve gas protection.
  - (d) The Tenant shall ensure that the electrical equipment used on the Premises shall be intrinsically safe. Welding, flame-cutting or other hot works shall be confined to the open areas of the Premises and shall be at least 15m away from any ground-level confined space.



(e) No drilling, trenching and excavation shall be allowed on the Premises. During any construction work, the Tenant shall observe the guidelines recommended in Chapter 8 of the "Landfill Gas Hazard Assessment Guidance Note" published by the Department of Environmental Protection. In particular, no smoking, naked flames and all other sources of ignition shall be allowed within 15m of any ground-level confined space.

### **Hazard to Life Impact**

- 12. To mitigate hazard to life impact, the Tenant shall comply with, inter alia, Conditions 4.8 to 4.10 of the Environmental Permit No. EP-226/2005/B (and comply with the conditions of any updated Permit, amended permit and further permit regarding measures to mitigate hazard to life impact) and shall not:-
  - (a) bring, keep, store or transport chlorine within the Premises and other areas of EcoPark;
  - (b) bring, keep, store, locate or transport dangerous goods, substances and fuels supporting combustion including oxygen, acetylene, hydrogen peroxide, rubber tyres and diesel within 10 metres from the boundary of the site of EcoPark; and
  - (c) exceed the building height restrictions for buildings on the Premises which are on/near the western boundary of the site of EcoPark as mentioned in Annex B to the Environmental Permit No. EP-226/2005/B (including any updated Permit, amended permit and further permit).

### **Landscape and Visual Impacts**

13. To mitigate landscape and visual impacts, the Tenant shall at its own cost(s) comply with, inter alia, Condition 4.14 of the Environmental Permit No. EP-226/2005/B regarding maintaining landscape, planting, treatment and mitigation measures as specified in inter alia Condition 3.8 and Figure 3 (and comply with the conditions of any updated Permit, amended permit and further permit regarding measures to mitigate landscape and visual impacts).

### **ENVIRONMENTAL RESPONSIBILITIES**

- 14.(a) The Tenant shall at its own cost(s) apply for, obtain, renew, maintain and comply with all the relevant licences related to compliance with all relevant Ordinances, by-laws, regulations, statutory technical memorandums, codes of practice, rules, non-statutory guidance notes, schemes, abatement notices and the environmental permits for the time being in force in Hong Kong (including those relating to the environment and governing the control of any form of pollution including air, noise, water and waste pollution, and for the protection of the environment). The Tenant shall comply with all abatement notices, orders, directions and requests of the relevant authorities and public officers and shall be responsible for paying all relevant fees, costs, fines and penalties.
  - (b) The Tenant shall not do anything or omit to do anything which would cause, contribute to or involve a breach or potential breach by the Landlord and/or the Director relating to any of the matters mentioned in Clause 14(a) hereinabove.

### **ENVIRONMENTAL IMPACT ASSESSMENT**

- 15. (a) The Tenant shall at its own cost(s) comply with and shall ensure that the Premises is used, designed, constructed, operated and maintained in accordance with:-
  - (i) All information, conditions, mitigation measures, prohibitions, restrictions, recommendations and requirements under the Environmental Impact Assessment Report for Development of an EcoPark in Tuen Mun Area 38 ("the Project") with Appendices, i.e. the EIA Report and EM&A Manual (EIAO Register No.: AEIAR-086/2005), the Environmental Permit



- (ii) No. EP-266/2005/A (and future variations), and other relevant documents in the EIAO Register (or in any other places, any internet websites or by any other means as specified by the Director).
- (ii) All information, conditions, submissions, mitigation measures, orders, notices and requirements under ongoing surveillance and monitoring activities during all stages of the Project and during the lease hereunder (e.g. any additional mitigation measures recommended and to be recommended under the Process Review and Design Audit (carried out and to be carried out in accordance with the EM&A Manual) for various environmental impacts including, but not limited to, noise pollution, air quality, hazard to life, landfill gas hazard, landscape and visual measures, waste management and land contamination).
- (iii) For the purposes of this Clause 15(a), "EIAO Register" shall mean the register kept by the Director pursuant to Section 15 of the Environmental Impact Assessment Ordinance (Cap.499).
- (b) Further to Clauses 2(k) and 10 above, the Tenant shall at its own cost provide relevant environmental monitoring data, information, documents and assistance to the Director and/or the Environmental Protection Department and shall permit authorised representatives of the Environmental Protection Department to access, inspect, take samples and monitor the Premises and operations for the Process Review and the Design Audit carried out and/or to be carried out pursuant to Conditions 4.1 and 5 of the Environmental Permit No. EP-226/2005/B (and future variations).
- (c) If the Tenant's operations (i.e. activities and facilities for recovery and/or recycling and/or reprocessing) are not covered by the EIA Report and/or deviate from the development parameters mentioned in inter alia the EIA Report, the Environmental Permit No. EP-226/2005/B (and future variations), and if additional mitigation measures are not available or are not effective in the opinion of the Director, to ensure compliance with the EIA Report, the Environmental Permit No. EP-226/2005/B (and future variations), the Tenant shall comply with any modified parameters and/or the Tenant shall immediately modify its operations in such a way that the findings and requirements of the EIA Report, the Environmental Permit No. EP-226/2005/B (and future variations) are complied with and shall immediately cease to continue the offending part of the operations or activity in question.



Material and Waste Throughputs



Table A3-1 **Recycling of Waste Oil** 

Date	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposal (tonnes)
Oct-Dec 08	130	-	-
Jan-Dec 09	2,003	-	140
Jan-Dec 10	2,494	2,006	337
Jan-Dec 11	9,492	2,453	5,564
Jan-Dec 12	9,693	1,790	3,881
January 2013	684	208	17
February 2013	632	188	353
March 2013	722	238	470
April 2013	717	216	496
May 2013	740	243	508
June 2013	584	201	408
July 2013	-	-	-
August 2013	-	-	-
September 2013	-	-	-



Table A3-2 **Recycling of Waste Metal** 

Date	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposal (tonnes)
Apr-Dec 2010	4,562	4,562	-
Jan-Dec 2011	18,069	18,069	-
Jan-Dec 2012	32,737	32,737	-
January 2013	2,324	2,324	-
February 2013	1,863	1,863	-
March 2013	2,231	2,231	-
April 2013	1,120	1,120	-
May 2013	1,562	1,562	-
June 2013	1,706	1,706	-
July 2013	1,387	1,387	-
August 2013	322	322	-
September 2013	-	-	-



Table A3-3 Recycling of Waste Wood

Date	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposal (tonnes)
Jun-Dec 2008	38	-	-
Jan-Dec 2009	0.12	-	-
Jan-Dec 2010	4,492	1,072	-
Jan-Dec 2011	1,610	5,788	-
Jan-Dec 2012	-	-	-
January 2013	-	-	-
February 2013	-	-	-
March 2013	-	-	-
April 2013	-	-	-
May 2013	-	-	-
June 2013	14,513	-	-
July 2013	152,293	-	-
August 2013	8,250	-	-
September 2013	-	-	-

Note: Throughput data for June 2013 have been updated.



Table A3.4 **Recycling of WEEE** 

Date	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposal (tonnes)
Apr-Dec 2010	86	45	2
Jan-Dec 2011	832	374	27
Jan-Dec 2012	1,163	778	32
January 2013	113	162	2
February 2013	145	23	2
March 2013	99	76	1
April 2013	61	140	0
May 2013	75	63	3
June 2013	101	25	0
July 2013	78	62	2
August 2013	33	12	2
September 2013	-	-	-



Table A3-5 **Recycling of Waste Plastic** 

Date	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposal (tonnes)
Jul-Dec 2009	20	-	-
Jan-Dec 2010	738	417	111
Jan-Dec 2011	1,733	1,241	149
Jan-Dec 2012	4,207	2,862	153
January 2013	570	445	10
February 2013	490	430	7
March 2013	564	615	19
April 2013	641	560	14
May 2013	394	303	24
June 2013	454	420	14
July 2013	570	499	16
August 2013	187	172	17
September 2013	-	-	-



Calibration Certificate of Infrared Gas Analyser

### **FUGRO TECHNICAL SERVICES LIMITED**

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong, Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com.hk
Website : www.materialab.com.hk



Report No.

103812EN130936

Page 1 of 1

### **Test Report on Landfill Monitoring**

### Information Supplied by Client

Client : SMEC Asia Limited

Client's address : 27/F., Ford Glory Plaza, 37-39 Wing Hong Street.

Cheung Sha Wan, Kowloon, Hong Kong

Project : EcoPark Operation EM&A

Sample description : Five samples of gas

Sampling location : EP1-1 Inside the Landscaping area of Administration Building

EP1-2 PCCW below–ground chamber outside Lot EP08-01

EP1-3 HGC Broadband below–ground chamber outside Lot EP08-03 EP2-1 HGC Broadband below-ground chamber outside Lot P1 EP2-2 HGC Broadband below-ground chamber outside Lot P3

Test required : For all locations -

In-situ measurement of methane, carbon dioxide, oxygen and

barometric pressure

Laboratory Information

Date of in-situ testing : 17/09/2013

Test method used : Measured by Infra Red Gas Analyser GA94A

### Results:

Sampling	Sampling	Barometric pressure,	Met	hane	Carbon dioxide,	Oxygen,
location	time	mbar	%v/v	%LEL	%v/v	%v/v
EP1-1	10:25	1000	0.0	0	0.0	19.9
EP1-2	10:03	1003	0.0	0	0.2	20.2
EP1-3	09:57	1003	0.0	0	0.0	20.8
EP2-1	10:10	1003	0.0	0	0.0	20.1
EP2-2	10:15	1003	0.0	0	0.0	20.1

Remarks: 1. A calibration certificate of the monitoring equipment is attached for reference.

2. A layout plan showing the sampling location is also attached for reference.

Supervised by : K.F. Wong

Certified by

Approved Signatory : HO Kin Man, John Manager – Chemistry Department

24 19 12013

Date

\*\* End of Report \*\*

Note: This report refers only to the sample(s) tested.

## FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre. 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong.

: +852 2450 8233 Fax : +852 2450 6138 E-mail: matlab@fugro.com.hk Website: www.materialab.com.hk



## REPORT ON CALIBRATION OF INFRA RED GAS ANALYSER

Client

Fugro Technical Services Limited - MateriaLab Division

Sample description

One sample of Infra Red Gas Analyser (GA94A)

Sample identification

E / 084 / 1

Serial number

GA3385

Test required

Calibration

Date of calibration

13/06/2013

Next calibration date

13/12/2013

Method used

In-house method (Comparison with Standard Gas)

### Results:

Parameters	Standard Gas Concentration,	Infra Red Gas Analyser Reading,	Deviation,
	% volume	% volume	% volume
Methane (CH <sub>4</sub> )	1.02	0.9	-0.12
Carbon dioxide (CO <sub>2</sub> )	15.0	15.0	0.0
Oxygen (O <sub>2</sub> )	1.03	1.1	0.07

Calibrated by : C. F. Leung

Certified by

Approved Signatory : Raymond K. F. Wo Manager - Chemical & Environmen

Date \*\* End of Report \*\*

Note: This report refers only to the sample(s) tested.



**Graphical Plots of LFG Monitoring** 

#### Landfill Gas Monitoring Results -

Sep-2013

									Measureme	nt Results			Action Level			Limit Level		
Monitoring Station ID	Monitoring Locations	Date	Weather Conditions	Temperature (degree)	Start Time	End Time	Met	hane	Oxygen	Carbon Dioxide	Barometric Pressure	Methane	Oxygen	Carbon Dioxide	Methane	Oxygen	Carbon Dioxide	Remarks
				(***3***)			% v/v	% LEL	% v/v	% v/v	mBar (absolute)	% LEL	% v/v	% v/v	% LEL	% v/v	% v/v	
EP1-1	Inside the landscaping area of Administration Building			30	10:25	10:28	0.0	0	20	0.0	1000							Nil
EP1-2	PCCW below-ground chamber outside Lot EP08-01			30	10:03	10:06	0.0	0	20	0.2	1003							Nil
EP1-3	HGC Broadband below-ground chamber outside Lot EP08-03	17 Sep 13	Fine	30	9:57	10:00	0.0	0	21	0.0	1003	> 10	< 19	> 0.5	> 20	< 18	> 1.5	Nil
EP2-1	HGC Broadband below-ground chamber outside Lot P1			30	10:10	10:13	0.0	0	20	0.0	1003							Nil
EP2-2	HGC Broadband below-ground chamber outside Lot P3			30	10:15	10:18	0.0	0	20	0.0	1003							Nil

#### Note

<sup>(1)</sup> Underlined figure indicates an exceedance of Action Level

<sup>(2)</sup> Shaded area indicates an exceedance of Limit Level

## EP1-1

	Methan	e (% LEL	.)	Oxygen (% v/v)			Carbon Di	oxide (%	v/v)	Barometric Pressure (mBar)	
Date	Measurement	Action	Limit	Measurement	Action	Limit	Measurement	Action	Limit	Measurement	
	Weasurement	Level	Level	Weasurement	Level	Level	weasurement	Level	Level	Weasurement	
26 Sep 12	8	10	20	21	19	18	0.0	0.5	1.5	1007	
19 Dec 12	0	10	20	21	19	18	0.0	0.5	1.5	1020	
22 Mar 13	0	10	20	21	19	18	0.0	0.5	1.5	1015	
21 Jun 13	0	10	20	20	19	18	0.0	0.5	1.5	1006	
17 Sep 13	0	10	20	20	19	18	0.0	0.5	1.5	1000	

## EP1-2

	Methan	e (% LEL	.)	Oxyge	n (% v/v)		Carbon Di	oxide (%	Barometric Pressure (mBar)	
Date	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement
26 Sep 12	6	10	20	21	19	18	0.0	0.5	1.5	1007
19 Dec 12	0	10	20	21	19	18	0.0	0.5	1.5	1020
22 Mar 13	0	10	20	21	19	18	0.0	0.5	1.5	1015
21 Jun 13	0	10	20	20	19	18	0.0	0.5	1.5	1006
17 Sep 13	0	10	20	20	19	18	0.2	0.5	1.5	1003

### EP1-3

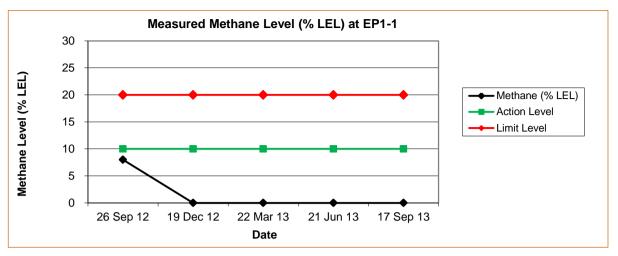
	Methan	e (% LEL	)	Oxyge	n (% v/v)		Carbon Dioxide (% v/v)			Barometric Pressure (mBar)
Date	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement
26 Sep 12	6	10	20	21	19	18	0.0	0.5	1.5	1007
19 Dec 12	0	10	20	21	19	18	0.0	0.5	1.5	1020
22 Mar 13	0	10	20	21	19	18	0.0	0.5	1.5	1015
21 Jun 13	0	10	20	20	19	18	0.0	0.5	1.5	1006
17 Sep 13	0	10	20	21	19	18	0.0	0.5	1.5	1003

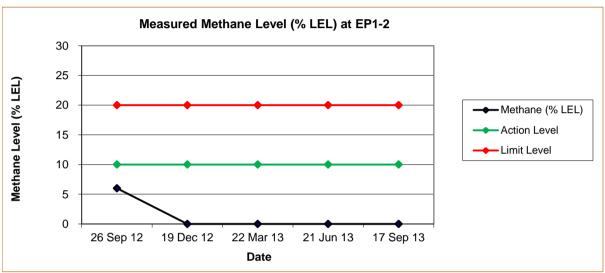
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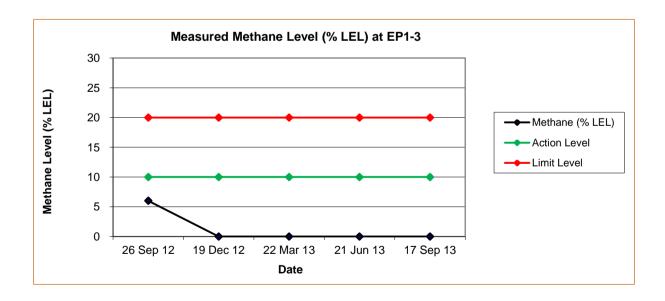
	Methan	e (% LEL	.)	Oxyge	Oxygen (% v/v)			oxide (%	Barometric Pressure (mBar)	
Date	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement
26 Sep 12	8	10	20	21	19	18	0.0	0.5	1.5	1006
19 Dec 12	0	10	20	21	19	18	0.0	0.5	1.5	1020
22 Mar 13	0	10	20	21	19	18	0.0	0.5	1.5	1015
21 Jun 13	0	10	20	20	19	18	0.2	0.5	1.5	1006
17 Sep 13	0	10	20	20	19	18	0.0	0.5	1.5	1003

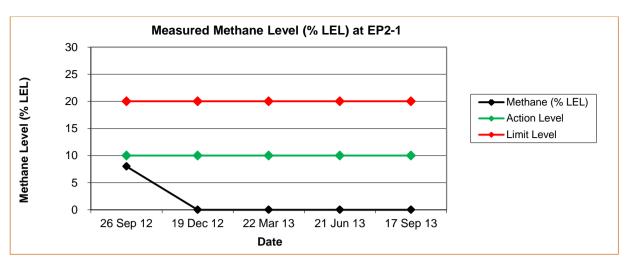
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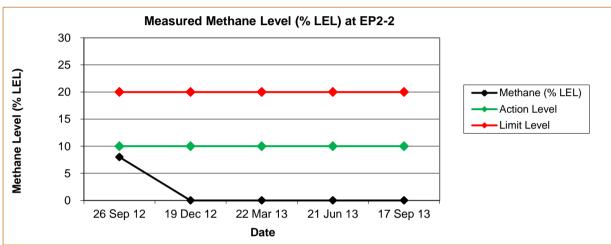
	Methane (% LEL)			Oxygen (% v/v)			Carbon Di	oxide (%	v/v)	Barometric Pressure (mBar)
Date	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement
26 Sep 12	8	10	20	21	19	18	0.0	0.5	1.5	1006
19 Dec 12	0	10	20	21	19	18	0.0	0.5	1.5	1020
22 Mar 13	0	10	20	21	19	18	0.0	0.5	1.5	1015
21 Jun 13	0	10	20	18	19	18	0.3	0.5	1.5	1006
17 Sep 13	0	10	20	20	19	18	0.0	0.5	1.5	1003

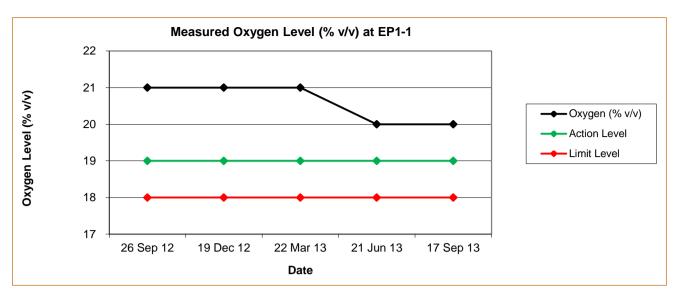


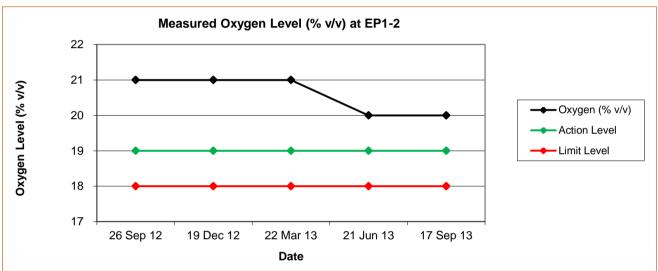


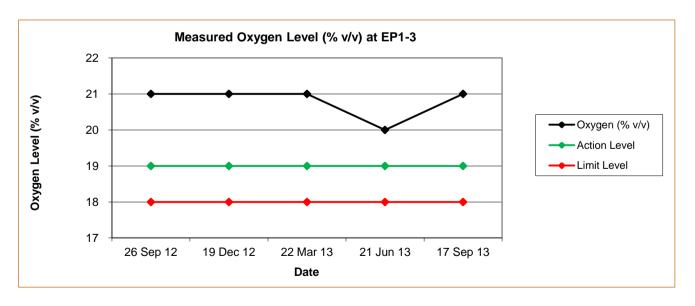


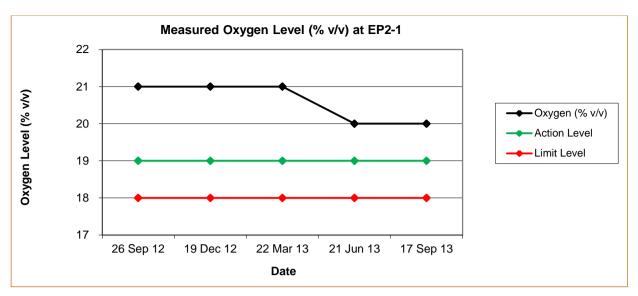


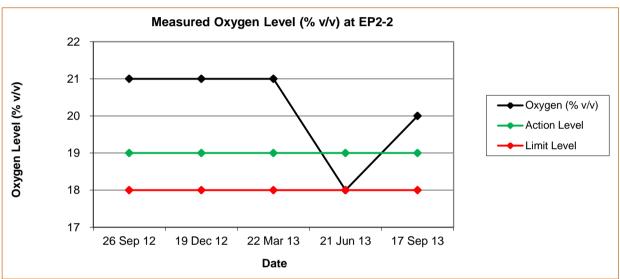


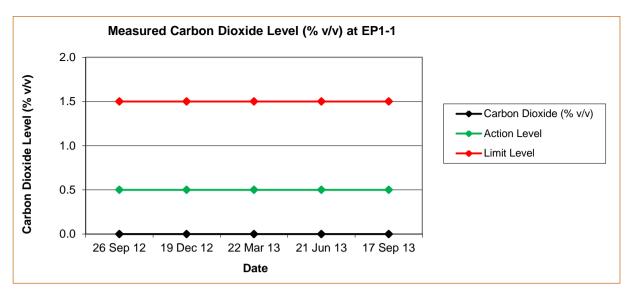


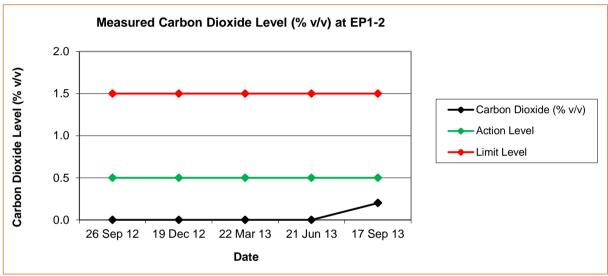


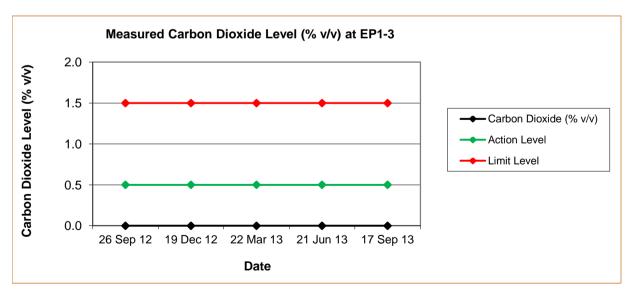


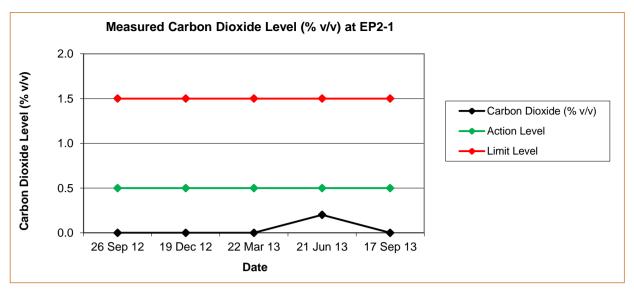


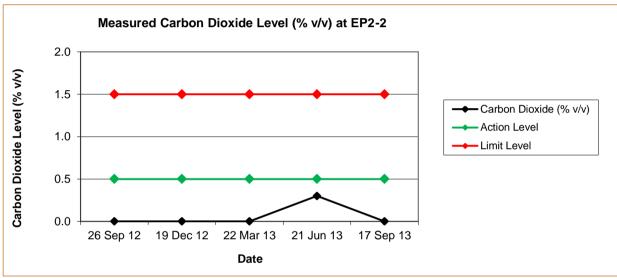


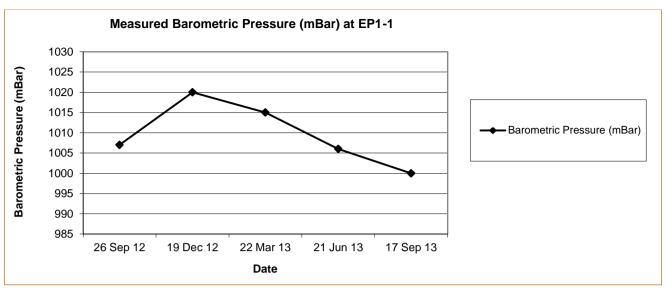


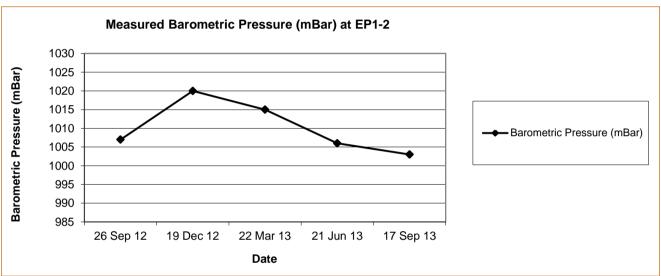


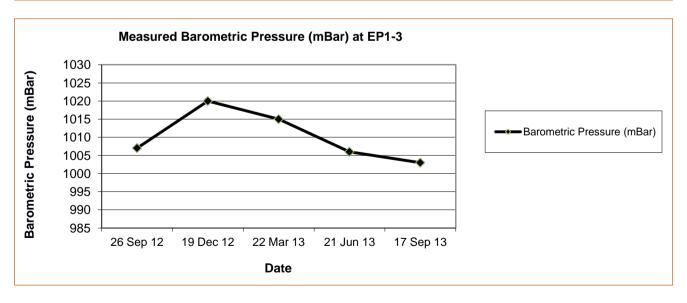


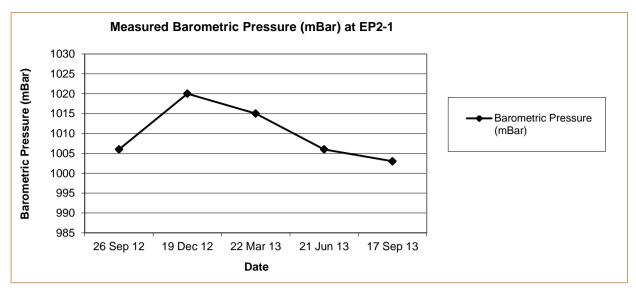


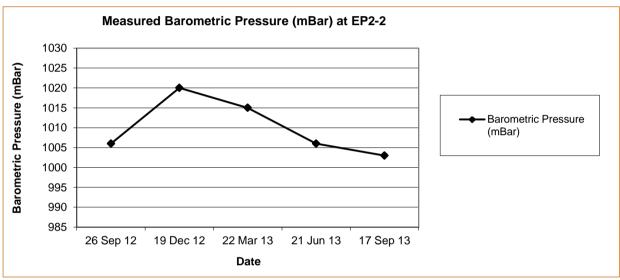














Tenant-specific Audit Checklists for the Reporting Quarter



## **APPENDIX 6-1**

**Tenant-specific Audit Checklists for the Reporting Quarter** 

Champway Technology Ltd.



	Audit Details						
Tena	ant	Champway Tech	nolo	gy Ltd			
Date	e & Time	Date 24 July 20			Tin	ne <u>10:10am</u>	
Lot I	No.	EP07-03		_			
Aud	it Ref.	33		_			
IEC J	loint Inspection	Yes	$\boxtimes$	No			
Wea	ather Conditions	Fine		Hazy			Overcast Rain
Win	d	<b>⊠</b> Calm		Light Bree	eze		Strong Wind
Tem	perature	<u>26</u> °C					
Hum	nidity	Low		Medium		$\boxtimes$	High
1.1	1. General  Description				No		Remarks
1.1	EP for Tenant displant entrance?	ayed on notice bo	ards	/		$\boxtimes$	EP for EcoPark (EP-226/2005/B) issued on June 21 <sup>st</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Poli	cy documented?					Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Mai updated?	nagement Plan					
1.4	a. Emergency Resp documented?	onse Plan (ERP)					Operator's ERP is documented. Tenant follows this.
	b. Drill / training re	cords available?					Tenant does not keep records for ERP training.
1.5	Employee's training	g record available	?				Tenant keeps a training record for BPI.
1.6	Any record of prose	ecution / complair	nt?				
1.7	Waste Managemer	nt Plan?					Operator's WMP is documented. Tenant follows this.



	2. Water Quality		
	Description	Yes No N/A	Remarks
2.1	Valid Effluent Discharge License available?		Licence No. WT00004430-2009 valid until 31 July 2014.
2.2	Any wastewater treatment facility prior to effluent discharge?		Oil interceptor & grease trap.
	If yes, facility is properly maintained and function normally?		
	Effluent Monitoring		
2.3	a. Sampling / Monitoring Record available?		As per the discharge licence, self- monitoring shall be performed when required.
	b. Monitoring frequency met the license requirement?		
	c. Any exceedance?		
	d. If yes, follow-up action taken?		
2.4	Surface run-off control measures in place and adequately maintained?		
2.5	Surface run-off discharging into drainage system?		
2.6	All manholes are covered?		
2.7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?		
2.8	Drainage system is well maintained to prevent flooding and overflow?		



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
	Processes with high Risk of Contamination				
2.9	a. Processes / activities are located under a covered area?				
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
-	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Oil replacement (of the heat transmission system) is carried out off-site when needed. This may be needed once every ten years or so.
.11	a. Oil interceptor provided for drainage discharging from maintenance area?				
	b. If yes, oil and grease removed regularly?	$\boxtimes$			
-	c. Collected by licensed collector?	$\boxtimes$			
_					
	Cargo Handling				
.12	a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
-	b. Materials and bulk cargo are properly packed?			$\boxtimes$	



## 3. Air Quality **Description** Yes No N/A Remarks a. Valid Specified Process License for all SP No. L-25-017 (1). specified process available? $\square$ $\square$ $\square$ b. SP License conditions / monitoring requirements met? **Odour** a. Any odour detected? Yes but the odour was relatively minor 3.2 on site. b. If yes, can the source be identified? $\bowtie$ | | From the gaps in the cover of the Surplus Water with Dregs Storage Tank; the Oil/Water Mixture Storage Tanks during cleaning or transfer of oil to the oil separators; the grease trap waste storage tank; uncovered oil buckets; and oil stains on ground. $\sqcap$ $\sqcap$ $\boxtimes$ c. Odorous materials are covered? d. If odour control system is installed, is it operating normally? All dusty materials are sprayed with water No dusty materials were found to be 3.3 or covered by impervious sheeting prior to used on-site. any loading, unloading or transfer operation? **Dust Monitoring** a. Monitoring Record available? Not required according to the PRC. 3.4 b. Monitoring frequency met the requirement? c. Any exceedance? $\sqcap$ $\sqcap$ $\boxtimes$ d. If yes, follow-up action taken? $\sqcap$ $\sqcap$ $\boxtimes$ 3.5 Enclosures are provided around the main dust-generating activities? Open burning is avoided? 3.6



	3. Air Quality (continued)				
	Description	Yes	No	N/A	Remarks
3.7	Dark smoke emitted from chimney or powered plant is avoided?				There is no chimney installed on-site.
3.8	Vehicles and equipment are switched off while not in use?	$\boxtimes$			
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
	b. >35kg of conventional solid fuel per hour			$\boxtimes$	
	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?				
3.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
3.12	a. Approval from Authority for the use of controlled refrigerant?			$\boxtimes$	
	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
3.13	All air pollution control systems are properly maintained and function normally?				
3.14	Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			Used by all diesel vehicles, fork-lift truck and emergency generator.



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				Registration No. 6311-421-C3617-01 for spent lubricating oil and spent mineral oil.
4.2	Provision of sufficient waste disposal points/ receptacles?	$\boxtimes$			
4.3	Waste disposed of regularly and properly?	$\boxtimes$			2-3 times a week.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?		$\boxtimes$		
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?				
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?	$\boxtimes$			
	c. Spillage cleaned up immediately through the use of an absorbent?			$\boxtimes$	No spillage.
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	Labelling of Chemical Waste				
4.8	a. Label is securely attached, clean and visible?				
	b. Label is in proper dimension and bilingual?				
	c. Information is accurate and sufficient?	$\boxtimes$			



	4. Waste / Chemical Management (continu	ıed)			
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
4.9	a. Proper "Chemical Waste" signs are displayed?				Not observed.
,	b. Incompatible wastes separated by an impermeable partition?				
	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?			$\boxtimes$	
	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
,	f. Adequacy of area ventilation?				
	g. Outdoors storage area should be covered?			$\boxtimes$	
4.10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				No collection.
•	Storage of Liquid Waste				
4.11	a. Storage area floor/surface permeation-proof?				No bulk storage.
	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
5.1	Landfill Gas Hazard (within LFG Consultation Zone)  a. Workers and visitors alerted to possible LGF hazards?			$\boxtimes$	Outside the LFG Consultation Zone.
	b. Smoking and open fires prohibited?				
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?				
5.3	Good housekeeping?	$\boxtimes$			
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?				No monitoring equipment.
5.6	Dangerous Goods  a. Valid license for manufacturing / storing dangerous goods?	$\boxtimes$			DG licences for storing methanol, sulphuric acid and fatty acid methyl esters (FAME) obtained (Nos. 021229, 021228 & 021227, and 021225 & 021226). DG licence for manufacturing FAME obtained (No. 001456).
	b. Storage area in compliance with the approved plan?				
	c. Storage area(s) has been securely locked?	$\boxtimes$			
	d. Total storage capacity in compliance with the relevant statutory requirement?	$\boxtimes$			
	e. Proper Labelling?	$\boxtimes$			
	f. Dangerous goods properly packaged?	$\boxtimes$			
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			



No. Action Expected By

1. No critical issues were identified. N/A

### **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 21 June 2013

**Status** 

1. Nil

### **Audit Summary and Sign-off**

The Tenant should check whether there is any leakage at the underground pipe and fix the problem if any.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Champway	Serco Guardian JV
Signed By	Winnie MA	-	Allen ZHOU	Mabel YUNG
Role	ET Site Inspector	IEC	Managing Director	Park Manager
Signature	Diviso	-	Milling	Mall.



	Audit Details						
Ter	nant	Champway Tech	nolo	gy Ltd			
Dat	te & Time	Date 19 Augus	t 201	13		Tin	ne <u>10:10am</u>
Lot	No.	EP07-03		_			
Au	dit Ref.	34		_			
IEC	Joint Inspection	Yes	$\boxtimes$	No			
We	eather Conditions	Fine		Hazy			Overcast Rain
Wi	nd	<b>⊠</b> Calm		Light Bre	eze		Strong Wind
Ter	mperature	30.5°C					
Hu	midity	Low		Medium		$\boxtimes$	High
	1. General						
	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant disp at entrance?	layed on notice bo	ards	/			EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Pol	icy documented?					Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Ma updated?	nagement Plan					
1.4	a. Emergency Resp documented?	oonse Plan (ERP)					Operator's ERP is documented. Tenant follows this.
	b. Drill / training re	ecords available?					Tenant does not keep records for ERP training.
1.5	Employee's trainin	g record available?	?	$\boxtimes$			Tenant keeps a training record for BPI.
1.6	Any record of pros	secution / complair	nt?		$\boxtimes$		
1.7	Waste Manageme	nt Plan?				$\boxtimes$	Operator's WMP is documented. Tenant follows this.



	2. Water Quality		
	Description	Yes No N/	A Remarks
.1	Valid Effluent Discharge License available?		Licence No. WT00004430-2009 valiuntil 31 July 2014.
.2	Any wastewater treatment facility prior to effluent discharge?		Oil interceptor & grease trap.
	If yes, facility is properly maintained and function normally?		
	Effluent Monitoring		
2.3	a. Sampling / Monitoring Record available?		As per the discharge licence, self- monitoring shall be performed whe required.
	b. Monitoring frequency met the license requirement?		
	c. Any exceedance?		
	d. If yes, follow-up action taken?		
.4	Surface run-off control measures in place and adequately maintained?		]
.5	Surface run-off discharging into drainage system?		
6	All manholes are covered?		]
2.7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?		
2.8	Drainage system is well maintained to		



	Description	Yes	No	N/A	Remarks
	Processes with high Risk of Contamination			·	
9	a. Processes / activities are located under a covered area?				
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?			$\boxtimes$	No contaminated water.
10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Oil replacement (of the heat transmission system) is carried out off-site when needed. This may be needed once every ten years or so.
11	a. Oil interceptor provided for drainage discharging from maintenance area?	$\boxtimes$			
-	b. If yes, oil and grease removed regularly?	$\boxtimes$			
-	c. Collected by licensed collector?	$\boxtimes$			
-	Cargo Handling				
12	<ul> <li>a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?</li> </ul>				
•	b. Materials and bulk cargo are properly packed?			$\boxtimes$	



	3. Air Quality		
	Description	Yes No N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?		SP No. L-25-017 (1).
	b. SP License conditions / monitoring requirements met?		
	Odour		
3.2	a. Any odour detected?		Yes but the odour was relatively minor on site.
	b. If yes, can the source be identified?		From the gaps in the cover of the Surplus Water with Dregs Storage Tank; the Oil/Water Mixture Storage Tanks during cleaning or transfer of oil to the oil separators; the grease trap waste storage tank; uncovered oil buckets; and oil stains on ground.
	c. Odorous materials are covered?		
	d. If odour control system is installed, is it operating normally?		
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?		No dusty materials were found to be used on-site.
	Dust Monitoring		
3.4	a. Monitoring Record available?		Not required according to the PRC.
	b. Monitoring frequency met the requirement?		
	c. Any exceedance?		
	d. If yes, follow-up action taken?		
3.5	Enclosures are provided around the main dust-generating activities?		
3.6	Open burning is avoided?		



	3. Air Quality (continued)				
	Description	Yes	No	N/A	Remarks
3.7	Dark smoke emitted from chimney or powered plant is avoided?				There is no chimney installed on-site.
3.8	Vehicles and equipment are switched off while not in use?	$\boxtimes$			
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
	b. >35kg of conventional solid fuel per hour				
	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?				
3.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
3.12	a. Approval from Authority for the use of controlled refrigerant?			$\boxtimes$	
	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
3.13	All air pollution control systems are properly maintained and function normally?				
3.14	Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			Used by all diesel vehicles, fork-lift truck and emergency generator.



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				Registration No. 6311-421-C3617-01 for spent lubricating oil and spent mineral oil.
4.2	Provision of sufficient waste disposal points/ receptacles?				
4.3	Waste disposed of regularly and properly?	$\boxtimes$			2-3 times a week.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?		$\boxtimes$		
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?	$\boxtimes$			
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?				
	c. Spillage cleaned up immediately through the use of an absorbent?			$\boxtimes$	No spillage.
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	Labelling of Chemical Waste				
4.8	a. Label is securely attached, clean and visible?				
	b. Label is in proper dimension and bilingual?	$\boxtimes$			
	c. Information is accurate and sufficient?				



	4. Waste / Chemical Management (continu	ied)			
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
4.9	a. Proper "Chemical Waste" signs are displayed?				Not observed.
-	b. Incompatible wastes separated by an impermeable partition?			$\boxtimes$	
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
_	f. Adequacy of area ventilation?			$\boxtimes$	
_	g. Outdoors storage area should be covered?			$\boxtimes$	
4.10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)			$\boxtimes$	No collection.
-	Storage of Liquid Waste				
4.11	a. Storage area floor/surface permeation- proof?				No bulk storage.
_	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
_	c. Walls or partitions of stacked container storage area constructed of impermeable material?				,



	Description	Yes	No	N/A	Remarks
4	Landfill Gas Hazard (within LFG Consultation Zone)				Outside the LFG Consultation Zone.
.1	a. Workers and visitors alerted to possible LGF hazards?				
	b. Smoking and open fires prohibited?				
2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?				
.3	Good housekeeping?	$\boxtimes$			
.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
.5	Valid calibration certificate for any monitoring equipment?			$\boxtimes$	No monitoring equipment.
	Dangerous Goods				
.6	a. Valid license for manufacturing / storing dangerous goods?				DG licences for storing methanol, sulphuric acid and fatty acid methyl esters (FAME) obtained (Nos. 02122 021228 & 021227, and 021225 & 021226). DG licence for manufacturi FAME obtained (No. 001456).
	b. Storage area in compliance with the approved plan?	$\boxtimes$			
	c. Storage area(s) has been securely locked?	$\boxtimes$			
	d. Total storage capacity in compliance with the relevant statutory requirement?	$\boxtimes$			
	e. Proper Labelling?	$\boxtimes$			
	f. Dangerous goods properly packaged?	$\boxtimes$			



No. Action Expected By

1. No critical issues were identified.

### **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 24 July 2013

**Status** 

N/A

1. Nil

### **Audit Summary and Sign-off**

The Tenant should check whether there is any leakage at the underground pipe and fix the problem if any.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Champway	Serco Guardian JV
Signed By	Winnie MA	-	Allen ZHOU	Mabel YUNG
Role	ET Site Inspector	IEC	Managing Director	Park Manager
Signature	Division	-	Dayi 10	Hall.



	Audit Details						
Ter	nant	Champway Techi	nolo	gy Ltd			
Da	te & Time	Date 17 Septer	nbei	r 2013		Tin	me <u>10:10am</u>
Lot	: No.	EP07-03		_			
Au	dit Ref.	35		_			
IEC	Joint Inspection	<b>∑</b> Yes		No			
We	eather Conditions	Fine		Hazy			Overcast Rain
Wi	nd	<b>⊠</b> Calm		Light Bre	eze		Strong Wind
Ter	mperature	<u>31°</u> C					
Hu	midity	Low	$\boxtimes$	Medium			High
	1. General						
	Description			Yes	No		Remarks
1.1	EP for Tenant displ at entrance?	ayed on notice boa	ards	/			EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Pol	icy documented?					Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Ma updated?	nagement Plan					
1.4	a. Emergency Resp documented?	onse Plan (ERP)					Operator's ERP is documented. Tenant follows this.
	b. Drill / training re	ecords available?					Tenant does not keep records for ERP training.
1.5	Employee's trainin	g record available?	)	$\boxtimes$			Tenant keeps a training record for BPI.
1.6	Any record of pros	ecution / complain	t?		$\boxtimes$		
1.7	Waste Manageme	nt Plan?					Operator's WMP is documented. Tenant follows this.
(							



	2. Water Quality				
	Description		No	N/A	Remarks
2.1	Valid Effluent Discharge License available?	$\boxtimes$			Licence No. WT00004430-2009 valid until 31 July 2014.
2.2	Any wastewater treatment facility prior to effluent discharge?				Oil interceptor & grease trap.
	If yes, facility is properly maintained and function normally?	$\boxtimes$			
	Effluent Monitoring				
2.3	a. Sampling / Monitoring Record available?				As per the discharge licence, self- monitoring shall be performed when required.
	b. Monitoring frequency met the license requirement?				
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
2.4	Surface run-off control measures in place and adequately maintained?	$\boxtimes$			
2.5	Surface run-off discharging into drainage system?	$\boxtimes$			
2.6	All manholes are covered?	$\boxtimes$			
2.7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	$\boxtimes$			
2.8	Drainage system is well maintained to prevent flooding and overflow?				



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
2.9	Processes with high Risk of Contamination  a. Processes / activities are located under a covered area?	$\boxtimes$			
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
-	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Oil replacement (of the heat transmission system) is carried out off-site when needed. This may be needed once every ten years or so.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?				
-	b. If yes, oil and grease removed regularly?				
-	c. Collected by licensed collector?				
2.12	Cargo Handling  a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?			$\boxtimes$	
	b. Materials and bulk cargo are properly packed?			$\boxtimes$	



	3. Air Quality				
	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?				SP No. L-25-017 (1).
	b. SP License conditions / monitoring requirements met?				
	Odour				
3.2	a. Any odour detected?	$\boxtimes$			Yes but the odour was relatively minor on site.
	b. If yes, can the source be identified?				From the gaps in the cover of the Surplus Water with Dregs Storage Tank; the Oil/Water Mixture Storage Tanks during cleaning or transfer of oil to the oil separators; the grease trap waste storage tank; uncovered oil buckets; and oil stains on ground.
	c. Odorous materials are covered?				
	d. If odour control system is installed, is it operating normally?				
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?				No dusty materials were found to be used on-site.
	Dust Monitoring				
3.4	a. Monitoring Record available?				Not required according to the PRC.
	b. Monitoring frequency met the requirement?				
	c. Any exceedance?				
	d. If yes, follow-up action taken?				
3.5	Enclosures are provided around the main dust-generating activities?				
3.6	Open burning is avoided?	$\boxtimes$			



	3. Air Quality (continued)				
	Description	Yes	No	N/A	Remarks
3.7	Dark smoke emitted from chimney or powered plant is avoided?				There is no chimney installed on-site.
3.8	Vehicles and equipment are switched off while not in use?	$\boxtimes$			
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
	b. >35kg of conventional solid fuel per hour				
	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?				
3.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
3.12	a. Approval from Authority for the use of controlled refrigerant?			$\boxtimes$	
	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
3.13	All air pollution control systems are properly maintained and function normally?				
3.14	Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			Used by all diesel vehicles, fork-lift truck and emergency generator.



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				Registration No. 6311-421-C3617-01 for spent lubricating oil and spent mineral oil.
4.2	Provision of sufficient waste disposal points/ receptacles?	$\boxtimes$			
4.3	Waste disposed of regularly and properly?				2-3 times a week.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?				
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?				
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?	$\boxtimes$			
	c. Spillage cleaned up immediately through the use of an absorbent?			$\boxtimes$	No spillage.
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	Labelling of Chemical Waste				
4.8	a. Label is securely attached, clean and visible?				
	b. Label is in proper dimension and bilingual?				
	c. Information is accurate and sufficient?	$\boxtimes$			



	4. Waste / Chemical Management (continu	ieuj			
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
4.9	a. Proper "Chemical Waste" signs are displayed?				Not observed.
•	b. Incompatible wastes separated by an impermeable partition?				
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?			$\boxtimes$	
-	f. Adequacy of area ventilation?				
-	g. Outdoors storage area should be covered?				
4.10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)			$\boxtimes$	No collection.
	Storage of Liquid Waste				
4.11	a. Storage area floor/surface permeation-proof?				No bulk storage.
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
5.1	Landfill Gas Hazard (within LFG Consultation Zone) a. Workers and visitors alerted to possible LGF hazards?			$\boxtimes$	Outside the LFG Consultation Zone.
	b. Smoking and open fires prohibited?				
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?				
5.3	Good housekeeping?	$\boxtimes$			
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?				No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?				DG licences for storing methanol, sulphuric acid and fatty acid methyl esters (FAME) obtained (Nos. 021229, 021228 & 021227, and 021225 & 021226). DG licence for manufacturing FAME obtained (No. 001456).
	b. Storage area in compliance with the approved plan?				
	c. Storage area(s) has been securely locked?	$\boxtimes$			
	d. Total storage capacity in compliance with the relevant statutory requirement?	$\boxtimes$			
	e. Proper Labelling?	$\boxtimes$			
	f. Dangerous goods properly packaged?	$\boxtimes$			
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			



No. Action Expected By

1. No critical issues were identified. N/A

### **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 19 August 2013

**Status** 

1. Nil

### **Audit Summary and Sign-off**

The Tenant should check whether there is any leakage at the underground pipe and fix the problem if any.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Champway	Serco Guardian JV
Signed By	Antony WONG	Keith CHAU	Allen ZHOU	Mabel YUNG
Role	ET	IEC Site Inspector	Managing Director	Park Manager
Signature	Andry	des	MbClinsh Pt	Nabel.



# **APPENDIX 6-2**

**Tenant-specific Audit Checklists for the Reporting Quarter** 

Shiu Wing Steel Ltd.



Tenant Date & Time	Shiu Wing Steel Limited		•
Date & Time			
	Date 24 July 2013		Time 9:30am
Lot No.	EP08-03		
Audit Ref.	34		
IEC Joint Inspection	Yes No	0	
Weather Conditions	Fine Ha	azy	Overcast Rain
Wind	☐ Calm ☐ Lig	ght Breeze	Strong Wind
Temperature	<u>26</u> °C		
Humidity	Low M	edium	High
1. General  Description		Yes No	N/A Remarks
-	splayed on notice boards /		EP for EcoPark (EP-226/2005/B) issued on June 21 <sup>st</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental	Policy documented?		The Tenant is going to integrate the Environmental Policy into their Safety Operations Manual soon.
1.3 Environmental updated?	Management Plan		The Tenant is going to integrate the EMP into their Safety Operations Manual soon.
1.4 a. Emergency R documented	esponse Plan (ERP) ?		The ERP has been included in the Tenant's Safety Operations Manual.
b. Drill / trainin	g records available?		The Tenant advised the training records were kept at their HR department.
1.5 Employee's trai	ning record available?		The Tenant keeps a training record for BPI.
1.6 Any record of p	rosecution / complaint?		
1.7 Waste Manage	ment Plan?		Operator's WMP is documented.



	2. Water Quality	
2.1	<b>Description</b> Valid Effluent Discharge License available?	Yes No N/A Remarks  No wastewater is generated from the recycling process.
2.2	Any wastewater treatment facility prior to effluent discharge?	
	If yes, facility is properly maintained and function normally?	
2.3	Effluent Monitoring a. Sampling / Monitoring Record available?	
	b. Monitoring frequency met the license requirement?	
	c. Any exceedance?	
	d. If yes, follow-up action taken?	
2.4	Surface run-off control measures in place and adequately maintained?	
2.5	Surface run-off discharging into drainage system?	
2.6	All manholes are covered?	
2.7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	
2.8	Drainage system is well maintained to prevent flooding and overflow?	



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
2.9	<ul><li>Processes with high Risk of Contamination</li><li>a. Processes / activities are located under a covered area?</li></ul>				The risk of contamination for the recycling process is low.
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
-	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water was found.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				No equipment oil and lubrication replacement were performed inside the tenant lot.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?			$\boxtimes$	Not required.
<u>-</u>	b. If yes, oil and grease removed regularly?			$\boxtimes$	
-	c. Collected by licensed collector?				
-	Cargo Handling				
2.12	<ul> <li>a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?</li> </ul>				Not required.
	b. Materials and bulk cargo are properly packed?				



# 3. Air Quality **Description** Yes No N/A Remarks a. Valid Specified Process License for all Not required. specified process available? b. SP License conditions / monitoring requirements met? **Odour** 3.2 a. Any odour detected? $\square$ $\square$ $\square$ b. If yes, can the source be identified? $\square$ $\square$ $\boxtimes$ c. Odorous materials are covered? d. If odour control system is installed, is it operating normally? $\square$ $\square$ $\square$ 3.3 All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation? **Dust Monitoring** a. Monitoring Record available? 3.4 b. Monitoring frequency met the $\boxtimes$ requirement? c. Any exceedance? $\square$ $\square$ $\boxtimes$ d. If yes, follow-up action taken? $\square$ $\square$ $\boxtimes$ 3.5 Enclosures are provided around the main dust-generating activities? 3.6 Open burning is avoided?



	3. Air Quality (continued)				
3.7	<b>Description</b> Dark smoke emitted from chimney or powered plant is avoided?	Yes	No	N/A	Remarks
3.8	Vehicles and equipment are switched off while not in use?	$\boxtimes$			
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
-	b. >35kg of conventional solid fuel per hour				
-	c. >1,150 MJ of any gaseous fuel per hour				
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?			$\boxtimes$	
3.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				Not yet installed.
3.12	a. Approval from Authority for the use of controlled refrigerant?				
•	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
3.13	All air pollution control systems are properly maintained and function normally?				Not yet installed.
3.14	Only Ultra-Low Sulphur Diesel is used?				



	4. Waste / Chemical Management		
4.1	<b>Description</b> Chemical Waste Producer Registration completed?	Yes No N/A	Remarks Registration No. 3839-421-S3054-02 for spent lubricating oil.
4.2	Provision of sufficient waste disposal points/ receptacles?		
4.3	Waste disposed of regularly and properly?		The municipal waste is disposed of daily <i>via</i> the Operator.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?		
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?		
4.6	Sludge is collected by a licensed collector at regular intervals?		
4.7	Packaging of Chemical Waste  a. Stored in suitable container?		No on-site storage.
	b. Container properly closed or sealed?		
	c. Spillage cleaned up immediately through the use of an absorbent?		
	d. Approval obtained for capacity of containers > 450L?		
4.8	Labelling of Chemical Waste  a. Label is securely attached, clean and visible?		No on-site storage.
	b. Label is in proper dimension and bilingual?		
	c. Information is accurate and sufficient?		



	4. Waste / Chemical Management (continu	ıed)			
	Description	Yes	No	N/A	Remarks
4.9	<ul><li>Storage of Chemical Waste</li><li>a. Proper "Chemical Waste" signs are displayed?</li></ul>			$\boxtimes$	No on-site storage.
-	b. Incompatible wastes separated by an impermeable partition?			$\boxtimes$	
	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
	f. Adequacy of area ventilation?				
	g. Outdoors storage area should be covered?			$\boxtimes$	
4.10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)			$\boxtimes$	No on-site storage.
•	Storage of Liquid Waste				
4.11	a. Storage area floor/surface permeation- proof?				No on-site storage.
	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



## 5. Other Issues **Description** Yes No N/A Remarks **Landfill Gas Hazard** (within LFG Consultation Zone) Lot is within LFG Consultation Zone. Tenant has alerted workers/visitors 5.1 a. Workers and visitors alerted to possible about possible LFG hazards. A notice is LGF hazards? also posted at the entrance. $\square$ $\square$ $\square$ b. Smoking and open fires prohibited? $\sqcap$ $\sqcap$ $\boxtimes$ 5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers? $\square$ $\square$ $\square$ 5.3 Good housekeeping? 5.4 Any areas within the lot to be used for $\boxtimes$ Most of the areas are covered by recycling processes are concrete paved? metal plates. 5.5 Valid calibration certificate for any $\boxtimes$ No monitoring equipment. monitoring equipment? **Dangerous Goods** 5.6 a. Valid license for manufacturing / storing Diesel storage was 400L, which is $\square$ $\square$ $\boxtimes$ dangerous goods? within the exempted quantity of 2,500L and so no licence is required. $\boxtimes$ b. Storage area in compliance with the approved plan? c. Storage area(s) has been securely locked? $\boxtimes$ d. Total storage capacity in compliance with the relevant statutory requirement? $\boxtimes$ e. Proper Labelling? f. Dangerous goods properly packaged? $\boxtimes$ 5.7 Potential stagnant pools cleared and $\bowtie \sqcap \sqcap$ mosquito breeding prevented?



No. Action Expected by

1. No critical issues were identified.

## **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 21 June 2013

Status

N/A

1. Nil. N/A

### **Audit Summary and Sign-off**

No critical issues were identified.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Shiu Wing	Serco Guardian JV
Signed By	Winnie MA	-	Alex WAI	Mabel YUNG
Role	ET Site Auditor	IEC	Manager	Park Manager
Signature	Divis	-	Dr	Lal.



	Audit Details						
Ten	ant	Shiu Wing Steel	Limit	ted			
Date	e & Time	Date 19 August	201	.3		Tin	ne 9:30am
Lot	No.	EP08-03		_			
Aud	lit Ref.	35		_			
IEC .	Joint Inspection	Yes	$\boxtimes$	No			
Wea	ather Conditions	Fine		Hazy			Overcast Rain
Win	d	<b>⊠</b> Calm		Light Bre	eeze		Strong Wind
Tem	perature	30.5		°C			
Hun	nidity	Low		Medium		$\boxtimes$	High
	1. General						
(	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant displ at entrance?	ayed on notice bo	ards	/			EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Poli	cy documented?					The Tenant is going to integrate the Environmental Policy into their Safety Operations Manual soon.
1.3	Environmental Mar updated?	nagement Plan					The Tenant is going to integrate the EMP into their Safety Operations Manual soon.
1.4	a. Emergency Resp documented?	onse Plan (ERP)		$\boxtimes$			The ERP has been included in the Tenant's Safety Operations Manual.
	b. Drill / training re	cords available?					The Tenant advised the training records were kept at their HR department.
1.5	Employee's training	g record available	?				The Tenant keeps a training record for BPI.
1.6	Any record of proso	ecution / complair	nt?				
1.7	Waste Managemer	nt Plan?					Operator's WMP is documented.



	2. Water Quality		
	Description	Yes No N/A	Remarks
.1	Valid Effluent Discharge License available?		No wastewater is generated from the recycling process.
2	Any wastewater treatment facility prior to effluent discharge?		
	If yes, facility is properly maintained and function normally?		
3	Effluent Monitoring a. Sampling / Monitoring Record available?		
	b. Monitoring frequency met the license requirement?		
	c. Any exceedance?		
	d. If yes, follow-up action taken?		
4	Surface run-off control measures in place and adequately maintained?		
5	Surface run-off discharging into drainage system?		
5	All manholes are covered?		
7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?		
8	Drainage system is well maintained to prevent flooding and overflow?		



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
2.9	Processes with high Risk of Contamination  a. Processes / activities are located under a covered area?			$\boxtimes$	The risk of contamination for the recycling process is low.
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?			$\boxtimes$	No contaminated water was found.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?			$\boxtimes$	No equipment oil and lubrication replacement were performed inside the tenant lot.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?				Not required.
-	b. If yes, oil and grease removed regularly?			$\boxtimes$	
	c. Collected by licensed collector?			$\boxtimes$	
2.12				$\boxtimes$	Not required.
	followed to minimise chance of accidental spillage when loading or unloading?				
	b. Materials and bulk cargo are properly packed?			$\boxtimes$	



	3. Air Quality	
3.1	Description  a. Valid Specified Process License for all specified process available?	Yes No N/A Remarks  Not required.
	b. SP License conditions / monitoring requirements met?	
3.2	Odour a. Any odour detected?	
	b. If yes, can the source be identified?	
	c. Odorous materials are covered?	
	d. If odour control system is installed, is it operating normally?	
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	
3.4	Dust Monitoring a. Monitoring Record available?	
	b. Monitoring frequency met the requirement?	
	c. Any exceedance?	
	d. If yes, follow-up action taken?	
3.5	Enclosures are provided around the main dust-generating activities?	
3.6	Open burning is avoided?	



	3. Air Quality (continued)	
3.7	<b>Description</b> Dark smoke emitted from chimney or powered plant is avoided?	Yes No N/A Remarks
3.8	Vehicles and equipment are switched off while not in use?	
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour	
	b. >35kg of conventional solid fuel per hour	
	c. >1,150 MJ of any gaseous fuel per hour	
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?	
3.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	Not yet installed.
3.12	a. Approval from Authority for the use of controlled refrigerant?	
	b. If yes, record of refrigeration equipment service available?	
3.13	All air pollution control systems are properly maintained and function normally?	Not yet installed.
3.14	Only Ultra-Low Sulphur Diesel is used?	



	4. Waste / Chemical Management		
4.1	<b>Description</b> Chemical Waste Producer Registration completed?	Yes No N/A	Remarks Registration No. 3839-421-S3054-02 for spent lubricating oil.
4.2	Provision of sufficient waste disposal points/ receptacles?		
4.3	Waste disposed of regularly and properly?		The municipal waste is disposed of daily <i>via</i> the Operator.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?		
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?		
4.6	Sludge is collected by a licensed collector at regular intervals?		
4.7	Packaging of Chemical Waste a. Stored in suitable container?		No on-site storage.
	b. Container properly closed or sealed?		
	c. Spillage cleaned up immediately through the use of an absorbent?		
	d. Approval obtained for capacity of containers > 450L?		
4.8	Labelling of Chemical Waste  a. Label is securely attached, clean and visible?		No on-site storage.
	b. Label is in proper dimension and bilingual?		
	c. Information is accurate and sufficient?		



	4. Waste / Chemical Management (continu	ıed)			
	Description	Yes	No	N/A	Remarks
4.9	<ul><li>Storage of Chemical Waste</li><li>a. Proper "Chemical Waste" signs are displayed?</li></ul>			$\boxtimes$	No on-site storage.
-	b. Incompatible wastes separated by an impermeable partition?			$\boxtimes$	
	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
-	f. Adequacy of area ventilation?				
	g. Outdoors storage area should be covered?			$\boxtimes$	
4.10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)			$\boxtimes$	No on-site storage.
•	Storage of Liquid Waste				
4.11	a. Storage area floor/surface permeation- proof?				No on-site storage.
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



# 5. Other Issues **Description** Yes No N/A Remarks **Landfill Gas Hazard** (within LFG Consultation Zone) Lot is within LFG Consultation Zone. Tenant has alerted workers/visitors 5.1 a. Workers and visitors alerted to possible about possible LFG hazards. A notice is LGF hazards? also posted at the entrance. b. Smoking and open fires prohibited? $\sqcap$ $\sqcap$ $\boxtimes$ 5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers? $\square$ $\square$ $\square$ 5.3 Good housekeeping? 5.4 Any areas within the lot to be used for $\boxtimes$ Most of the areas are covered by recycling processes are concrete paved? metal plates. 5.5 Valid calibration certificate for any $\boxtimes$ No monitoring equipment. monitoring equipment? **Dangerous Goods** 5.6 a. Valid license for manufacturing / storing Diesel storage was 400L, which is $\square$ $\square$ $\boxtimes$ dangerous goods? within the exempted quantity of 2,500L and so no licence is required. $\boxtimes$ b. Storage area in compliance with the approved plan? c. Storage area(s) has been securely locked? $\boxtimes$ d. Total storage capacity in compliance with the relevant statutory requirement? $\boxtimes$ e. Proper Labelling? f. Dangerous goods properly packaged? $\boxtimes$ 5.7 Potential stagnant pools cleared and $\square$ mosquito breeding prevented?



No. Action Expected by

No critical issues were identified.

N/A

# **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 24 July 2013

Status

1. Nil.

N/A

### **Audit Summary and Sign-off**

No critical issues were identified.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Shiu Wing	Serco Guardian JV
Signed By	Winnie MA	-	Alex WAI	Mabel YUNG
Role	ET Site Auditor	IEC	Manager	Park Manager
Signature	Divis	-	N.	Kall.



	Audit Details						
Ten	ant	Shiu Wing Steel L	imit	ed			
Dat	e & Time	Date 17 Septem	ber	2013		Tin	ne 9:30am
Lot	No.	EP08-03		_			
Aud	lit Ref.	36		_			
IEC	Joint Inspection	Yes		No			
We	ather Conditions	Fine		Hazy			Overcast Rain
Win	nd	<b>⊠</b> Calm		Light Breez	ze		Strong Wind
Ten	nperature	31 °C					
Hur	nidity	Low	$\boxtimes$	Medium			High
	1. General  Description			Yes N	lo l	N/A	Remarks
1.1	EP for Tenant displ at entrance?	ayed on notice boa	ards	/			EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Pol	icy documented?			$\leq$		The Tenant is going to integrate the Environmental Policy into their Safety Operations Manual soon.
1.3	Environmental Ma updated?	nagement Plan			$\boxtimes$		The Tenant is going to integrate the EMP into their Safety Operations Manual soon.
1.4	a. Emergency Resp documented?	onse Plan (ERP)					The ERP has been included in the Tenant's Safety Operations Manual.
	b. Drill / training re	cords available?					The Tenant advised the training records were kept at their HR department.
1.5	Employee's trainin	g record available?					The Tenant keeps a training record for BPI.
1.6	Any record of pros	ecution / complain	t?		$\boxtimes$		
1.7	Waste Managemen	nt Plan?					Operator's WMP is documented.



	2. Water Quality		
	Description	Yes No N/A F	Remarks
2.1	Valid Effluent Discharge License available?		No wastewater is generated from the recycling process.
.2	Any wastewater treatment facility prior to effluent discharge?		
	If yes, facility is properly maintained and function normally?		
.3	Effluent Monitoring a. Sampling / Monitoring Record available?		
	b. Monitoring frequency met the license		
	requirement?  c. Any exceedance?		
	d. If yes, follow-up action taken?		
.4	Surface run-off control measures in place and adequately maintained?		
.5	Surface run-off discharging into drainage system?		
.6	All manholes are covered?		
.7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?		
.8	Drainage system is well maintained to prevent flooding and overflow?		



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
2.9	Processes with high Risk of Contamination  a. Processes / activities are located under a covered area?			$\boxtimes$	The risk of contamination for the recycling process is low.
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
-	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water was found.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?			$\boxtimes$	No equipment oil and lubrication replacement were performed inside the tenant lot.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?				Not required.
	b. If yes, oil and grease removed regularly?				
	c. Collected by licensed collector?			$\boxtimes$	
	Cargo Handling				
2.12	<ul> <li>a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?</li> </ul>				Not required.
	b. Materials and bulk cargo are properly packed?				



	3. Air Quality	
3.1	Description  a. Valid Specified Process License for all specified process available?	Yes No N/A Remarks  Not required.
	b. SP License conditions / monitoring requirements met?	
3.2	Odour a. Any odour detected?	
	b. If yes, can the source be identified?	
	c. Odorous materials are covered?	
	d. If odour control system is installed, is it operating normally?	
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	
3.4	Dust Monitoring a. Monitoring Record available?	
	b. Monitoring frequency met the requirement?	
	c. Any exceedance?	
	d. If yes, follow-up action taken?	
3.5	Enclosures are provided around the main dust-generating activities?	
3.6	Open burning is avoided?	



	3. Air Quality (continued)	
3.7	<b>Description</b> Dark smoke emitted from chimney or powered plant is avoided?	Yes No N/A Remarks
3.8	Vehicles and equipment are switched off while not in use?	
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour	
	b. >35kg of conventional solid fuel per hour	
	c. >1,150 MJ of any gaseous fuel per hour	
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?	
3.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	Not yet installed.
3.12	a. Approval from Authority for the use of controlled refrigerant?	
	b. If yes, record of refrigeration equipment service available?	
3.13	All air pollution control systems are properly maintained and function normally?	Not yet installed.
3.14	Only Ultra-Low Sulphur Diesel is used?	



	4. Waste / Chemical Management		
	Description	Yes No N/A	
4.1	Chemical Waste Producer Registration completed?		Registration No. 3839-421-S3054-02 for spent lubricating oil.
4.2	Provision of sufficient waste disposal points/ receptacles?		
4.3	Waste disposed of regularly and properly?		The municipal waste is disposed of daily <i>via</i> the Operator.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?		
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?		
4.6	Sludge is collected by a licensed collector at regular intervals?		
4.7	Packaging of Chemical Waste  a. Stored in suitable container?		No on-site storage.
	b. Container properly closed or sealed?		
	c. Spillage cleaned up immediately through the use of an absorbent?		
	d. Approval obtained for capacity of containers > 450L?		
	Labelling of Chemical Waste		
4.8	a. Label is securely attached, clean and visible?		No on-site storage.
	b. Label is in proper dimension and bilingual?		
	c. Information is accurate and sufficient?		,



	4. Waste / Chemical Management (continu	ıed)			
	Description	Yes	No	N/A	Remarks
4.9	<ul><li>Storage of Chemical Waste</li><li>a. Proper "Chemical Waste" signs are displayed?</li></ul>			$\boxtimes$	No on-site storage.
-	b. Incompatible wastes separated by an impermeable partition?			$\boxtimes$	
	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
-	f. Adequacy of area ventilation?				
	g. Outdoors storage area should be covered?			$\boxtimes$	
4.10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)			$\boxtimes$	No on-site storage.
•	Storage of Liquid Waste				
4.11	a. Storage area floor/surface permeation- proof?				No on-site storage.
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



# 5. Other Issues **Description** Yes No N/A Remarks **Landfill Gas Hazard** (within LFG Consultation Zone) Lot is within LFG Consultation Zone. Tenant has alerted workers/visitors a. Workers and visitors alerted to possible about possible LFG hazards. A notice is LGF hazards? also posted at the entrance. b. Smoking and open fires prohibited? $\sqcap$ $\sqcap$ $\boxtimes$ 5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers? $\square$ $\square$ $\square$ 5.3 Good housekeeping? 5.4 Any areas within the lot to be used for $\boxtimes$ Most of the areas are covered by recycling processes are concrete paved? metal plates. 5.5 Valid calibration certificate for any $\boxtimes$ No monitoring equipment. monitoring equipment? **Dangerous Goods** 5.6 a. Valid license for manufacturing / storing Diesel storage was 400L, which is $\square$ $\square$ $\boxtimes$ dangerous goods? within the exempted quantity of 2,500L and so no licence is required. $\boxtimes$ b. Storage area in compliance with the approved plan? c. Storage area(s) has been securely locked? $\boxtimes$ d. Total storage capacity in compliance with the relevant statutory requirement? $\boxtimes$ e. Proper Labelling? f. Dangerous goods properly packaged? $\boxtimes$ 5.7 Potential stagnant pools cleared and $\square$ mosquito breeding prevented?



No. Action Expected by

No critical issues were identified.

N/A

# **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 19 August 2013

**Status** 

1. Nil.

N/A

### **Audit Summary and Sign-off**

No critical issues were identified.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Shiu Wing	Serco Guardian JV
Signed By	Winnie MA	Keith CHAU	Alex WAI	Mabel YUNG
Role	ET Site Auditor	IEC Site Auditor	Manager	Park Manager
Signature	Division	des-	D	Nalel.



# **APPENDIX 6-3**

**Tenant-specific Audit Checklists for the Reporting Quarter** 

Hong Kong Hung Wai Wooden Board Co.



	Audit Details						
Ten	ant	Hong Kong Hung	g Wai W	/ooden B	oard	Compan	У
Date	e & Time	Date 24 July 2	.013			Time	9:40am
Lot	No.	EP06-034					
Aud	it Ref.	32					
IEC.	loint Inspection	Yes	N	0			
Wea	ather Conditions	Fine	П	azy		Ove	ercast Rain
Win	d	<b>Calm</b>	Li	ght Bree	ze	Stro	ong Wind
Tem	perature	26 °C					
Hun	nidity	Low	N	ledium		⊠ Higl	h
	1. General						
	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant displ at entrance?	ayed on notice bo	ards /				EP for EcoPark (EP-226/2005/B) issued on June 21 <sup>st</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Poli	cy documented?					Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Maupdated?	nagement Plan					
1.4	a. Emergency Resp documented?	onse Plan (ERP)					Operator's ERP is documented. Tenant follows this.
	b. Drill / training re	cords available?					Training has been provided but the records are not available.
1.5	Employee's training	g record available	?				Training has been provided but the records are not available.
1.6	Any record of pros	ecution / complain	nt?				
1.7	Waste Managemen	nt Plan?					Operator's WMP is documented. Tenant follows this.



	2. Water Quality				
	Description	Yes	No	N/A	Remarks
1	Valid Effluent Discharge License available?				No wastewater is generated from the recycling process.
2	Any wastewater treatment facility prior to effluent discharge?				
	If yes, facility is properly maintained and function normally?			$\boxtimes$	
.3	Effluent Monitoring a. Sampling / Monitoring Record available?			$\boxtimes$	
	b. Monitoring frequency met the license			$\square$	
	requirement?				
	c. Any exceedance?				
	d. If yes, follow-up action taken?				
4	Surface run-off control measures in place and adequately maintained?	$\boxtimes$			
5	Surface run-off discharging into drainage system?	$\boxtimes$			
6	All manholes are covered?	$\boxtimes$			
.7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	$\boxtimes$			
	Drainage system is well maintained to		$\boxtimes$	$\Box$	



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
	Processes with high Risk of Contamination				
9	<ul> <li>a. Processes / activities are located under a covered area?</li> </ul>				The risk of contamination for the recycling process is low.
	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
,	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water was observed.
10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				No oil/lubricant was observed
11	a. Oil interceptor provided for drainage discharging from maintenance area?				Not required.
	b. If yes, oil and grease removed regularly?			$\boxtimes$	
	c. Collected by licensed collector?				
,	Cargo Handling				Not required.
12	<ul> <li>a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?</li> </ul>	_	_	_	
•	b. Materials and bulk cargo are properly packed?				



	3. Air Quality				
	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?				Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
	Odour				
3.2	a. Any odour detected?				
	b. If yes, can the source be identified?				
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?				
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?				
	Dust Monitoring				
3.4	a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?				
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?				
3.5	Enclosures are provided around the main dust-generating activities?	$\boxtimes$			
3.6	Open burning is avoided?				



	Description	Yes	No	N/A	Remarks
7	Dark smoke emitted from chimney or powered plant is avoided?				There is no chimney installed on-site.
8	Vehicles and equipment are switched off while not in use?				
9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
	b. >35kg of conventional solid fuel per hour				
	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?				
.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
.12	a. Approval from Authority for the use of controlled refrigerant?			$\boxtimes$	
	b. If yes, record of refrigeration equipment service available?				
.13	All air pollution control systems are properly maintained and function normally?				



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				Not required.
4.2	Provision of sufficient waste disposal points/ receptacles?				
4.3	Waste disposed of regularly and properly?	$\boxtimes$			
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?				
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?			$\boxtimes$	
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?			$\boxtimes$	
	c. Spillage cleaned up immediately through the use of an absorbent?				
	d. Approval obtained for capacity of containers > 450L?				
	Labelling of Chemical Waste				
4.8	a. Label is securely attached, clean and visible?				
	b. Label is in proper dimension and bilingual?			$\boxtimes$	
	c. Information is accurate and sufficient?			$\boxtimes$	



	4. Waste / Chemical Management (continu	ied)			
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
.9	a. Proper "Chemical Waste" signs are displayed?				
-	b. Incompatible wastes separated by an impermeable partition?			$\boxtimes$	
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?			$\boxtimes$	
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
-	f. Adequacy of area ventilation?			$\boxtimes$	
-	g. Outdoors storage area should be covered?			$\boxtimes$	
.10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				
-	Storage of Liquid Waste				
.11	a. Storage area floor/surface permeation- proof?				
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
5.1	Landfill Gas Hazard (within LFG Consultation Zone) a. Workers and visitors alerted to possible LGF hazards?				Outside the LFG Consultation Zone.
	b. Smoking and open fires prohibited?				
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?			$\boxtimes$	
5.3	Good housekeeping?	$\boxtimes$			
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?			$\boxtimes$	No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?				There were no DGs stored on site.
	b. Storage area in compliance with the approved plan?				
	c. Storage area(s) has been securely locked?				
	d. Total storage capacity in compliance with the relevant statutory requirement?			$\boxtimes$	
	e. Proper Labelling?			$\boxtimes$	
	f. Dangerous goods properly packaged?			$\boxtimes$	
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			



No. Action Expected By

1. No critical issues were identified. N/A

#### **Follow-up from Previous Audits**

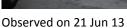
### No. Follow-up from Previous Audit Dated 21 June 2013

**Status** 

As SGJV advised, the Tenant had provided additional blower with higher power to collect fine wood pallets in order to mitigate dust issues due to the recycling process. The efficiency of the mitigation measures will be followed up in next audit.

Outstanding





1.



Observed on 24 July 13

2. As advised by SGJV, the Tenant had provided acoustic measures to mitigate noise nuisance and no annoying noise were observed during audit. The observation is subject to review.

Closed



Observed on 21 June 13

3. No wood debris and waste were observed inside the surface channel.

Closed



Observed on 21 June 13



Observed on 24 July 13



# **Audit Summary and Sign-off**

No critical issues were observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Hung Wai	Serco Guardian JV
Signed By	Winnie MA	-	WILLIAM WONG	Mabel YUNG
Role	ET Site Inspector	IEC	General Manager	Park Manager
Signature	Diviso	-	4	1611.



	Audit Details						
Ten	ant	Hong Kong Hung	g Wai W	/ooden B	oard	Compan	У
Dat	e & Time	Date 19 Augu	st 2013			Time	9:40am
Lot	No.	EP06-034					
Aud	lit Ref.	33					
IEC	Joint Inspection	Yes	N	0			
We	ather Conditions	Fine	П	azy		Ove	ercast Rain
Win	nd	<b>⊠</b> Calm	Li	ght Bree	ze	Stro	ong Wind
Ten	nperature	30.5°C					
Hur	nidity	Low	N	ledium		High	h
	1. General						
	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant displ at entrance?	ayed on notice bo	ards /				EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Poli	cy documented?					Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Maupdated?	nagement Plan				$\boxtimes$	
1.4	a. Emergency Resp documented?	onse Plan (ERP)					Operator's ERP is documented. Tenant follows this.
	b. Drill / training re	cords available?					Training has been provided but the records are not available.
1.5	Employee's training	g record available	?				Training has been provided but the records are not available.
1.6	Any record of pros	ecution / complain	nt?		$\boxtimes$		
1.7	Waste Managemen	nt Plan?				$\boxtimes$	Operator's WMP is documented. Tenant follows this.



	2. Water Quality				
	Description	Yes	No	N/A	Remarks
1	Valid Effluent Discharge License available?				No wastewater is generated from the recycling process.
2	Any wastewater treatment facility prior to effluent discharge?			$\boxtimes$	
	If yes, facility is properly maintained and function normally?			$\boxtimes$	
.3	Effluent Monitoring a. Sampling / Monitoring Record available?			$\boxtimes$	
	b. Monitoring frequency met the license requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
4	Surface run-off control measures in place and adequately maintained?	$\boxtimes$			
5	Surface run-off discharging into drainage system?	$\boxtimes$			
6	All manholes are covered?	$\boxtimes$			
7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?				
8	Drainage system is well maintained to prevent flooding and overflow?				



Description				
	Yes	No	N/A	Remarks
<ul><li>Processes with high Risk of Contamination</li><li>a. Processes / activities are located under a covered area?</li></ul>	$\boxtimes$			The risk of contamination for the recycling process is low.
b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water was observed.
Equipment oil and lubrication replacements are performed only in bunded maintenance area?				No oil/lubricant was observed.
a. Oil interceptor provided for drainage discharging from maintenance area?				Not required.
b. If yes, oil and grease removed regularly?				
c. Collected by licensed collector?				
Cargo Handling  a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				Not required.
b. Materials and bulk cargo are properly packed?				
	b. Stop-logs installed in the perimeter drainage system for uncovered areas?  c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?  Equipment oil and lubrication replacements are performed only in bunded maintenance area?  a. Oil interceptor provided for drainage discharging from maintenance area?  b. If yes, oil and grease removed regularly?  c. Collected by licensed collector?  Cargo Handling  a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?  b. Materials and bulk cargo are properly	a. Processes / activities are located under a covered area?  b. Stop-logs installed in the perimeter drainage system for uncovered areas?  c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?  Equipment oil and lubrication replacements are performed only in bunded maintenance area?  a. Oil interceptor provided for drainage discharging from maintenance area?  b. If yes, oil and grease removed regularly?  c. Collected by licensed collector?  Cargo Handling a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?  b. Materials and bulk cargo are properly	a. Processes / activities are located under a covered area?  b. Stop-logs installed in the perimeter drainage system for uncovered areas?  c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?  Equipment oil and lubrication replacements are performed only in bunded maintenance area?  a. Oil interceptor provided for drainage discharging from maintenance area?  b. If yes, oil and grease removed regularly?  c. Collected by licensed collector?  Cargo Handling a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?  b. Materials and bulk cargo are properly	a. Processes / activities are located under a covered area?  b. Stop-logs installed in the perimeter drainage system for uncovered areas?  c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?  Equipment oil and lubrication replacements are performed only in bunded maintenance area?  a. Oil interceptor provided for drainage discharging from maintenance area?  b. If yes, oil and grease removed regularly?  c. Collected by licensed collector?



	3. Air Quality				
	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?				Not required.
	b. SP License conditions / monitoring requirements met?				
	Odour				
3.2	a. Any odour detected?				
	b. If yes, can the source be identified?				
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?				
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?				
	Dust Monitoring				
3.4	a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?				
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?				
3.5	Enclosures are provided around the main dust-generating activities?	$\boxtimes$			
3.6	Open burning is avoided?	$\boxtimes$			



	Description	Yes	No	N/A	Remarks
.7	Dark smoke emitted from chimney or powered plant is avoided?				There is no chimney installed on-site.
.8	Vehicles and equipment are switched off while not in use?	$\boxtimes$			
.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
	b. >35kg of conventional solid fuel per hour			$\boxtimes$	
	c. >1,150 MJ of any gaseous fuel per hour				
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?			$\boxtimes$	
.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
.12	a. Approval from Authority for the use of controlled refrigerant?				
	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
.13	All air pollution control systems are properly maintained and function normally?				
3.14	Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				Not required.
4.2	Provision of sufficient waste disposal points/ receptacles?			$\boxtimes$	
4.3	Waste disposed of regularly and properly?	$\boxtimes$			
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?				
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?			$\boxtimes$	
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?			$\boxtimes$	
	c. Spillage cleaned up immediately through the use of an absorbent?				
	d. Approval obtained for capacity of containers > 450L?				
	Labelling of Chemical Waste				
4.8	a. Label is securely attached, clean and visible?				
	b. Label is in proper dimension and bilingual?			$\boxtimes$	
	c. Information is accurate and sufficient?			$\boxtimes$	



	4. Waste / Chemical Management (continu	ed)			
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
.9	a. Proper "Chemical Waste" signs are displayed?				
-	b. Incompatible wastes separated by an impermeable partition?			$\boxtimes$	
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?			$\boxtimes$	
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
-	f. Adequacy of area ventilation?			$\boxtimes$	
-	g. Outdoors storage area should be covered?			$\boxtimes$	
10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				
-	Storage of Liquid Waste				
11	a. Storage area floor/surface permeation- proof?				
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
5.1	Landfill Gas Hazard (within LFG Consultation Zone) a. Workers and visitors alerted to possible LGF hazards?			$\boxtimes$	Outside the LFG Consultation Zone.
	b. Smoking and open fires prohibited?			$\boxtimes$	
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?			$\boxtimes$	
5.3	Good housekeeping?	$\boxtimes$			
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?				No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?				There were no DGs stored on site.
	b. Storage area in compliance with the approved plan?			$\boxtimes$	
	c. Storage area(s) has been securely locked?			$\boxtimes$	
	d. Total storage capacity in compliance with the relevant statutory requirement?			$\boxtimes$	
	e. Proper Labelling?			$\boxtimes$	
	f. Dangerous goods properly packaged?			$\boxtimes$	
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			



No. Action Expected By

1. No critical issues were identified.

# **Follow-up from Previous Audits**

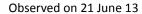
### No. Follow-up from Previous Audit Dated 21 June 2013

**Status** 

1. The plant was not operated during site audit, the effectiveness of the additional blower on dust suppression will be followed up in next audit.

Outstanding







Observed on 19 August 13

# **Audit Summary and Sign-off**

No critical issues were observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Hung Wai	Serco Guardian JV
Signed By	Winnie MA	-	William WONG	Mabel YUNG
Role	ET Site Inspector	IEC	General Manager	Park Manager
Signature	Division	-	4	1611.



#### **Audit Details Tenant** Hong Kong Hung Wai Wooden Board Company Date 17 September 2013 **Date & Time** Time 11:45am Lot No. EP06-034 **Audit Ref.** 34 X Yes **IEC Joint Inspection Fine** Hazy Overcast Rain **Weather Conditions Calm** Light Breeze Strong Wind Wind 31°C **Temperature** Low Medium High **Humidity** 1. General **Description** Yes N/A **Remarks** EP for EcoPark (EP-226/2005/C) EP for Tenant displayed on notice boards / 1.1 issued on August 5<sup>th</sup> 2013 is at entrance? displayed at the entrance of EcoPark. EP for Tenant is not required. X**Environmental Policy documented?** Operator's Environmental Policy 1.2 is documented. Tenant follows this. $\boxtimes$ 1.3 **Environmental Management Plan** updated? Xa. Emergency Response Plan (ERP) Operator's ERP is documented. 1.4 documented? Tenant follows this. b. Drill / training records available? $\boxtimes$ Training has been provided but the records are not available. 1.5 Employee's training record available? $\boxtimes$ Training has been provided but the records are not available. $\boxtimes$ Any record of prosecution / complaint? 1.6

Waste Management Plan?

1.7

Operator's WMP is documented.

Tenant follows this.

X



	2. Water Quality				
	Description	Yes	No	N/A	Remarks
1	Valid Effluent Discharge License available?				No wastewater is generated from the recycling process.
.2	Any wastewater treatment facility prior to effluent discharge?				
	If yes, facility is properly maintained and function normally?			$\boxtimes$	
.3	Effluent Monitoring a. Sampling / Monitoring Record available?			$\boxtimes$	
	b. Monitoring frequency met the license requirement?			$\boxtimes$	
	c. Any exceedance?				
	d. If yes, follow-up action taken?			$\boxtimes$	
4	Surface run-off control measures in place and adequately maintained?	$\boxtimes$			
5	Surface run-off discharging into drainage system?	$\boxtimes$			
6	All manholes are covered?	$\boxtimes$			
7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?				
8	Drainage system is well maintained to				



	Description	Yes	No	N/A	Remarks
	Processes with high Risk of Contamination				
9	<ul> <li>a. Processes / activities are located under a covered area?</li> </ul>				The risk of contamination for the recycling process is low.
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
-	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water was observed.
10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				No oil/lubricant was observed
11	a. Oil interceptor provided for drainage discharging from maintenance area?			$\boxtimes$	Not required.
-	b. If yes, oil and grease removed regularly?				
-	c. Collected by licensed collector?			$\boxtimes$	
- 12	Cargo Handling  a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or				Not required.
-	unloading?				
	b. Materials and bulk cargo are properly packed?				



	3. Air Quality				
	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?				Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
	Odour				
3.2	a. Any odour detected?				
	b. If yes, can the source be identified?				
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?			$\boxtimes$	
.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?		$\boxtimes$		
	Dust Monitoring				
.4	a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
.5	Enclosures are provided around the main dust-generating activities?	$\boxtimes$			
.6	Open burning is avoided?	$\boxtimes$			



	Description	Yes	No	N/A	Remarks
7	Dark smoke emitted from chimney or powered plant is avoided?				There is no chimney installed on-site.
.8	Vehicles and equipment are switched off while not in use?	$\boxtimes$			
9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
	b. >35kg of conventional solid fuel per hour			$\boxtimes$	
	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?				
.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
12	a. Approval from Authority for the use of controlled refrigerant?				
	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
.13	All air pollution control systems are properly maintained and function normally?				



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				Not required.
4.2	Provision of sufficient waste disposal points/ receptacles?			$\boxtimes$	
4.3	Waste disposed of regularly and properly?				
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?				
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?			$\boxtimes$	
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?				
	c. Spillage cleaned up immediately through the use of an absorbent?			$\boxtimes$	
	d. Approval obtained for capacity of containers > 450L?				
	Labelling of Chemical Waste				
4.8	a. Label is securely attached, clean and visible?				
	b. Label is in proper dimension and bilingual?				
	c. Information is accurate and sufficient?			$\boxtimes$	



	4. Waste / Chemical Management (continu	ed)			
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
9	a. Proper "Chemical Waste" signs are displayed?				
-	b. Incompatible wastes separated by an impermeable partition?			$\boxtimes$	
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?			$\boxtimes$	
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?			$\boxtimes$	
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
-	f. Adequacy of area ventilation?			$\boxtimes$	
-	g. Outdoors storage area should be covered?			$\boxtimes$	
- 10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				
_	Storage of Liquid Waste				
11	a. Storage area floor/surface permeation- proof?			$\boxtimes$	
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
5.1	Landfill Gas Hazard (within LFG Consultation Zone)  a. Workers and visitors alerted to possible LGF hazards?				Outside the LFG Consultation Zone.
	b. Smoking and open fires prohibited?			$\boxtimes$	
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?			$\boxtimes$	
5.3	Good housekeeping?	$\boxtimes$			
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?				No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?				There were no DGs stored on site.
	b. Storage area in compliance with the approved plan?			$\boxtimes$	
	c. Storage area(s) has been securely locked?			$\boxtimes$	
	d. Total storage capacity in compliance with the relevant statutory requirement?			$\boxtimes$	
	e. Proper Labelling?			$\boxtimes$	
	f. Dangerous goods properly packaged?			$\boxtimes$	
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			



No. Action Expected By

1. No critical issues were identified.

## **Follow-up from Previous Audits**

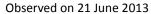
## No. Follow-up from Previous Audit Dated 21 June 2013

**Status** 

1. The plant was not operated during site audit and the effectiveness of the additional blower on dust suppression will be followed up once the plant is in operation.

Closed







Observed on 17 September 2013

# **Audit Summary and Sign-off**

No critical issues were observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Hung Wai	Serco Guardian JV
Signed By	Winnie MA	Sharifah OR	William WONG	Mabel YUNG
Role	ET Site Inspector	IEC	General Manager	Park Manager
Signature	Division	Grafal		Malel.



# **APPENDIX 6-4**

**Tenant-specific Audit Checklists for the Reporting Quarter** 

Li Tong Group



#### **Audit Details Tenant** Li Tong Group **Date** 24 July 2013 10:00am **Date & Time** Time Lot No. EP07-02 **Audit Ref.** 32 **⋈** No **IEC Joint Inspection** Yes Fine Hazy Overcast Rain **Weather Conditions** Wind **Calm** Light Breeze Strong Wind 26 °C **Temperature** Low Medium High **Humidity** 1. General **Description** Yes N/A Remarks EP for EcoPark (EP-226/2005/B) EP for Tenant displayed on notice boards / $\boxtimes$ 1.1 issued on June 21st 2013 is at entrance? displayed at the entrance of EcoPark. EP for Tenant is not required. $\boxtimes$ **Environmental Policy documented?** The Tenant's Environmental 1.2 Policy is documented. X 1.3 **Environmental Management Plan** The Tenant's EMP is updated? documented. $\boxtimes$ 1.4 a. Emergency Response Plan (ERP) The Tenant's ERP is documented? documented. b. Drill / training records available? $\boxtimes$ $\boxtimes$ 1.5 Employee's training record available? $\boxtimes$ 1.6 Any record of prosecution / complaint? $\boxtimes$ The Tenant's WMP is 1.7 Waste Management Plan? documented.



## 2. Water Quality **Description** Yes N/A **Remarks** Valid Effluent Discharge License available? $\boxtimes$ Licence No. WT00007957-2010 2.1 valid until 31 Dec 2015. 2.2 Any wastewater treatment facility prior to Not required for domestic effluent discharge? wastewater. A chemical/container toilet is $\square$ If yes, facility is properly maintained and function normally? maintained on a monthly basis. **Effluent Monitoring** a. Sampling / Monitoring Record available? As per the discharge licence, 2.3 self-monitoring shall be performed when required. $\boxtimes$ b. Monitoring frequency met the license requirement? $\boxtimes$ c. Any exceedance? $\boxtimes$ d. If yes, follow-up action taken? $\boxtimes$ 2.4 Surface run-off control measures in place and adequately maintained? $\boxtimes$ 2.5 Surface run-off discharging into drainage system? X 2.6 All manholes are covered? 2.7 $\boxtimes$ Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided? $\boxtimes$ 2.8 Drainage system is well maintained to prevent flooding and overflow?



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
	Processes with high Risk of Contamination				
2.9	<ul> <li>a. Processes / activities are located under a covered area?</li> </ul>				The risk of contamination for the recycling process is low.
•	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
-	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water was found.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Not required.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?				Not required.
	b. If yes, oil and grease removed regularly?				
	c. Collected by licensed collector?			$\boxtimes$	
-	Cargo Handling			$\boxtimes$	Not required.
2.12	a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
•	b. Materials and bulk cargo are properly packed?			$\boxtimes$	



	3. Air Quality				
3.1	<b>Description</b> a. Valid Specified Process License for all	Yes	No	N/A	Remarks  Not required.
3.1	specified process available?				Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
	Odour		$\boxtimes$		
3.2	a. Any odour detected?		_		
	b. If yes, can the source be identified?				
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?			$\boxtimes$	
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?				
3.4	Dust Monitoring a. Monitoring Record available?			$\boxtimes$	Not required.
	b. Monitoring frequency met the requirement?				
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?				
3.5	Enclosures are provided around the main dust-generating activities?			$\boxtimes$	
3.6	Open burning is avoided?	$\boxtimes$			
					,



# 3. Air Quality (continued) **Description** No N/A Yes Remarks 3.7 Dark smoke emitted from chimney or $\boxtimes$ There is no chimney installed powered plant is avoided? on-site. 3.8 Vehicles and equipment are switched off $\boxtimes$ while not in use? Approval certificate issued by the 3.9 Authority is available for furnace, oven or chimney consuming: a. >25L of conventional liquid fuel per hour $\boxtimes$ b. >35kg of conventional solid fuel per hour $\boxtimes$ c. >1,150 MJ of any gaseous fuel per hour X3.10 Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity? $\boxtimes$ 3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal. 3.12 a. Approval from Authority for the use of Not required. controlled refrigerant? Xb. If yes, record of refrigeration equipment service available? $\boxtimes$ 3.13 All air pollution control systems are properly maintained and function normally? $\boxtimes$ 3.14 Only Ultra-Low Sulphur Diesel is used?



## 4. Waste / Chemical Management **Description** Yes No N/A Remarks 4.1 **Chemical Waste Producer Registration** $\boxtimes$ Registration No. 3840-421completed? L2676-01 for various types of chemical waste. $\boxtimes$ 4.2 Provision of sufficient waste disposal points/ receptacles? 4.3 Waste disposed of regularly and properly? $\boxtimes$ MSW is disposed of daily via the Operator, whereas the chemical waste is disposed of once or twice per month depending on the quantity generated. Sorting of materials on-site for reuse or $\boxtimes$ Recyclable materials were disposal to designated outlet? passed to other recyclers. Record of quantities of waste generated, $\boxtimes$ 4.5 recycled and disposed properly kept and easily retrieved for inspection? $\boxtimes$ Sludge is collected by a licensed collector 4.6 at regular intervals? Packaging of Chemical Waste 4.7 a. Stored in suitable container? $\boxtimes$ $\square$ b. Container properly closed or sealed? c. Spillage cleaned up immediately through No spillage. the use of an absorbent? $\boxtimes$ d. Approval obtained for capacity of containers > 450L? **Labelling of Chemical Waste** 4.8 a. Label is securely attached, clean and visible? b. Label is in proper dimension and X bilingual? $\boxtimes$ c. Information is accurate and sufficient?



## 4. Waste / Chemical Management (continued) No **Description** Yes N/A Remarks Storage of Chemical Waste 4.9 a. Proper "Chemical Waste" signs are $\boxtimes$ displayed? $\boxtimes$ b. Incompatible wastes separated by an impermeable partition? $\boxtimes$ c. Containers kept in receptacle of suitable material and construction (if quantity <50L) or drip trays capable of storing 110% of the volume of largest (if quantity >50L)? d. Enclosed on 3 sides with no less than X 2m in height or height of tallest container or stack of containers? $\boxtimes$ e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry? $\boxtimes$ f. Adequacy of area ventilation? $\boxtimes$ g. Outdoors storage area should be Chemical waste was stored covered? indoor. $\boxtimes$ 4.10 Chemical wastes are collected by a The Tenant itself is a licensed licensed chemical waste collector? chemical waste collector (retention of trip ticket copies for 12 (Licence No.: 3810-421-L2676months) OS) for CRT and LCD monitors. Storage of Liquid Waste 4.11 a. Storage area floor/surface permeation- $\boxtimes$ proof? b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage? $\boxtimes$ c. Walls or partitions of stacked container storage area constructed of impermeable material?



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
5.1	Landfill Gas Hazard (within LFG Consultation Zone)  a. Workers and visitors alerted to possible LGF hazards?				Outside the LFG Consultation Zone.
	b. Smoking and open fires prohibited?				
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?			$\boxtimes$	
5.3	Good housekeeping?	$\boxtimes$			
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?			$\boxtimes$	No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?				There were no DGs stored on site.
	b. Storage area in compliance with the approved plan?				
	c. Storage area(s) has been securely locked?			$\boxtimes$	
	d. Total storage capacity in compliance with the relevant statutory requirement?			$\boxtimes$	
	e. Proper Labelling?			$\boxtimes$	
	f. Dangerous goods properly packaged?			$\boxtimes$	
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			



No. Action Expected By

1. No critical environmental issue was observed.

Nil

## **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 21 June 2013

**Status** 

1. Nil N/A

## **Audit Summary and Sign-off**

No critical environmental issue was observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Li Tong	Serco Guardian JV
Signed By	Winnie MA	-	Teresa HO	Mabel YUNG
Role	ET Site Inspector	IEC	Environmental Health and Safety Officer	Park Manager
Signature	Division	-		Kall



#### **Audit Details Tenant** Li Tong Group Date 19 August 2013 10:00am **Date & Time** Time Lot No. EP07-02 **Audit Ref.** 33 **⋈** No Yes **IEC Joint Inspection Fine** Hazy Overcast Rain **Weather Conditions** Wind **Calm** Light Breeze Strong Wind 30.5 °C **Temperature** Low Medium High **Humidity** 1. General **Description** Yes N/A Remarks $\boxtimes$ EP for EcoPark (EP-226/2005/C) EP for Tenant displayed on notice boards / 1.1 issued on August 5<sup>th</sup> 2013 is at entrance? displayed at the entrance of EcoPark. EP for Tenant is not required. $\boxtimes$ **Environmental Policy documented?** The Tenant's Environmental 1.2 Policy is documented. X 1.3 **Environmental Management Plan** The Tenant's EMP is updated? documented. $\boxtimes$ 1.4 a. Emergency Response Plan (ERP) The Tenant's ERP is documented? documented. $\boxtimes$ b. Drill / training records available? $\boxtimes$ 1.5 Employee's training record available? $\boxtimes$ 1.6 Any record of prosecution / complaint? $\boxtimes$ The Tenant's WMP is 1.7 Waste Management Plan? documented.



## 2. Water Quality **Description** Yes N/A **Remarks** Valid Effluent Discharge License available? $\boxtimes$ Licence No. WT00007957-2010 2.1 valid until 31 Dec 2015. 2.2 Any wastewater treatment facility prior to Not required for domestic effluent discharge? wastewater. A chemical/container toilet is $\square$ If yes, facility is properly maintained and function normally? maintained on a monthly basis. **Effluent Monitoring** a. Sampling / Monitoring Record available? As per the discharge licence, 2.3 self-monitoring shall be performed when required. $\boxtimes$ b. Monitoring frequency met the license requirement? $\boxtimes$ c. Any exceedance? $\boxtimes$ d. If yes, follow-up action taken? $\boxtimes$ 2.4 Surface run-off control measures in place and adequately maintained? $\boxtimes$ 2.5 Surface run-off discharging into drainage system? X 2.6 All manholes are covered? 2.7 $\boxtimes$ Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided? $\boxtimes$ 2.8 Drainage system is well maintained to prevent flooding and overflow?



	Description	Yes	No	N/A	Remarks
	Processes with high Risk of Contamination				
.9	<ul> <li>a. Processes / activities are located under a covered area?</li> </ul>				The risk of contamination for the recycling process is low.
	b. Stop-logs installed in the perimeter drainage system for uncovered areas?		$\boxtimes$		Stop-logs are available for use by the Tenant if needed.
	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water was found.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Not required.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?				Not required.
	b. If yes, oil and grease removed regularly?			$\boxtimes$	
	c. Collected by licensed collector?			$\boxtimes$	
	Cargo Handling			$\boxtimes$	Not required.
2.12	<ul> <li>a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?</li> </ul>				
	b. Materials and bulk cargo are properly			$\boxtimes$	



	3. Air Quality				
3.1	Description  a. Valid Specified Process License for all specified process available?	Yes	No	N/A	Remarks Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
3.2	Odour a. Any odour detected?		$\boxtimes$		
	b. If yes, can the source be identified?			$\boxtimes$	
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?			$\boxtimes$	
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?				
3.4	Dust Monitoring a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
3.5	Enclosures are provided around the main dust-generating activities?				
3.6	Open burning is avoided?	$\boxtimes$			



# 3. Air Quality (continued) **Description** No N/A Yes Remarks 3.7 Dark smoke emitted from chimney or There is no chimney installed powered plant is avoided? on-site. 3.8 Vehicles and equipment are switched off $\boxtimes$ while not in use? Approval certificate issued by the 3.9 Authority is available for furnace, oven or chimney consuming: a. >25L of conventional liquid fuel per hour $\boxtimes$ b. >35kg of conventional solid fuel per hour $\boxtimes$ c. >1,150 MJ of any gaseous fuel per hour X3.10 Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity? $\boxtimes$ 3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal. 3.12 a. Approval from Authority for the use of Not required. controlled refrigerant? Xb. If yes, record of refrigeration equipment service available? $\boxtimes$ 3.13 All air pollution control systems are properly maintained and function normally? $\boxtimes$ 3.14 Only Ultra-Low Sulphur Diesel is used?



## 4. Waste / Chemical Management **Description** Yes No N/A Remarks 4.1 **Chemical Waste Producer Registration** $\boxtimes$ Registration No. 3840-421completed? L2676-01 for various types of chemical waste. $\boxtimes$ 4.2 Provision of sufficient waste disposal points/ receptacles? 4.3 Waste disposed of regularly and properly? $\boxtimes$ MSW is disposed of daily via the Operator, whereas the chemical waste is disposed of once or twice per month depending on the quantity generated. Sorting of materials on-site for reuse or $\boxtimes$ Recyclable materials were disposal to designated outlet? passed to other recyclers. Record of quantities of waste generated, $\boxtimes$ 4.5 recycled and disposed properly kept and easily retrieved for inspection? $\boxtimes$ Sludge is collected by a licensed collector 4.6 at regular intervals? Packaging of Chemical Waste 4.7 a. Stored in suitable container? $\boxtimes$ $\square$ b. Container properly closed or sealed? c. Spillage cleaned up immediately through No spillage. the use of an absorbent? $\boxtimes$ d. Approval obtained for capacity of containers > 450L? **Labelling of Chemical Waste** 4.8 a. Label is securely attached, clean and visible? b. Label is in proper dimension and X bilingual? $\boxtimes$ c. Information is accurate and sufficient?



	4. Waste / Chemical Management (continu	ied)			
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
)	a. Proper "Chemical Waste" signs are displayed?				
-	b. Incompatible wastes separated by an impermeable partition?				
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	$\boxtimes$			
-	f. Adequacy of area ventilation?				
-	g. Outdoors storage area should be covered?			$\boxtimes$	Chemical waste was stored indoor.
0	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				The Tenant itself is a licensed chemical waste collector (Licence No.: 3810-421-L2676 OS) for CRT and LCD monitors
-	Storage of Liquid Waste				
1	a. Storage area floor/surface permeation- proof?	$\boxtimes$			
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
5.1	Landfill Gas Hazard (within LFG Consultation Zone)  a. Workers and visitors alerted to possible LGF hazards?				Outside the LFG Consultation Zone.
	b. Smoking and open fires prohibited?				
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?			$\boxtimes$	
5.3	Good housekeeping?	$\boxtimes$			
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?			$\boxtimes$	No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?				There were no DGs stored on site.
	b. Storage area in compliance with the approved plan?				
	c. Storage area(s) has been securely locked?			$\boxtimes$	
	d. Total storage capacity in compliance with the relevant statutory requirement?			$\boxtimes$	
	e. Proper Labelling?			$\boxtimes$	
	f. Dangerous goods properly packaged?			$\boxtimes$	
5.7	Potential stagnant pools cleared and mosquito breeding prevented?				



No. Action Expected By

1. No critical environmental issue was observed.

Nil

## **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 24 July 2013

**Status** 

1. Nil N/A

## **Audit Summary and Sign-off**

No critical environmental issue was observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Li Tong	Serco Guardian JV
Signed By	Winnie MA	-	Teresa HO	Mabel YUNG
Role	ET Site Inspector	IEC	Environmental Health and Safety Officer	Park Manager
Signature	Divis	-	(F)	Kall.



	Audit Details						
Ten	ant	Li Tong Group					
Date	e & Time	Date 17 Septer	nber 20	13		Time	<u>10:00am</u>
Lot	No.	EP07-02					
Aud	it Ref.	34					
IEC.	Joint Inspection	∑ Yes	□ N	0			
Wea	ather Conditions	Fine	□ на	azy		Ove	ercast Rain
Win	d	<b>⊠</b> Calm	Li	ght Bree	ze	Stro	ong Wind
Tem	perature	<u>31</u> °C					
Hun	nidity	Low	M	edium		Hig	h
	1. General					21/0	Para da
1.1	<b>Description</b> EP for Tenant displ	aved on notice ho	ards /	Yes	No	N/A	Remarks EP for EcoPark (EP-226/2005/C)
1.1	at entrance?	ayed on notice bo	arus /				issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Poli	cy documented?					The Tenant's Environmental Policy is documented.
1.3	Environmental Maupdated?	nagement Plan		$\boxtimes$			The Tenant's EMP is documented.
1.4	a. Emergency Resp documented?	onse Plan (ERP)		$\boxtimes$			The Tenant's ERP is documented.
	b. Drill / training re	cords available?		$\boxtimes$			
1.5	Employee's training	g record available	?	$\boxtimes$			
1.6	Any record of pros	ecution / complair	nt?		$\boxtimes$		
1.7	Waste Managemen	nt Plan?		$\boxtimes$			The Tenant's WMP is documented.



2. Water Quality				
Description	Yes	No	N/A	Remarks
Valid Effluent Discharge License available?				Licence No. WT00007957-2010 valid until 31 Dec 2015.
Any wastewater treatment facility prior to effluent discharge?			$\boxtimes$	Not required for domestic wastewater.
If yes, facility is properly maintained and function normally?			$\boxtimes$	A chemical/container toilet is maintained on a monthly basis.
Effluent Monitoring				
a. Sampling / Monitoring Record available?				As per the discharge licence, self-monitoring shall be performed when required.
b. Monitoring frequency met the license requirement?				
c. Any exceedance?			$\boxtimes$	
d. If yes, follow-up action taken?			$\boxtimes$	
Surface run-off control measures in place and adequately maintained?			$\boxtimes$	
Surface run-off discharging into drainage system?	$\boxtimes$			
All manholes are covered?	$\boxtimes$			
Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?				
Drainage system is well maintained to prevent flooding and overflow?	$\boxtimes$			
	Description Valid Effluent Discharge License available?  Any wastewater treatment facility prior to effluent discharge?  If yes, facility is properly maintained and function normally?  Effluent Monitoring a. Sampling / Monitoring Record available?  b. Monitoring frequency met the license requirement?  c. Any exceedance?  d. If yes, follow-up action taken?  Surface run-off control measures in place and adequately maintained?  Surface run-off discharging into drainage system?  All manholes are covered?  Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?  Drainage system is well maintained to	Description       Yes         Valid Effluent Discharge License available?       □         Any wastewater treatment facility prior to effluent discharge?       □         If yes, facility is properly maintained and function normally?       □         Effluent Monitoring a. Sampling / Monitoring Record available?       □         b. Monitoring frequency met the license requirement?       □         c. Any exceedance?       □         d. If yes, follow-up action taken?       □         Surface run-off control measures in place and adequately maintained?       □         Surface run-off discharging into drainage system?       □         All manholes are covered?       □         Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?       □         Drainage system is well maintained to       □	Description  Valid Effluent Discharge License available?  Any wastewater treatment facility prior to effluent discharge?  If yes, facility is properly maintained and function normally?  Effluent Monitoring a. Sampling / Monitoring Record available?  b. Monitoring frequency met the license requirement?  c. Any exceedance?  d. If yes, follow-up action taken?  Surface run-off control measures in place and adequately maintained?  Surface run-off discharging into drainage system?  All manholes are covered?  Drainage system is well maintained to	Description       Yes       No       N/A         Valid Effluent Discharge License available?       □       □         Any wastewater treatment facility prior to effluent discharge?       □       □         If yes, facility is properly maintained and function normally?       □       □         Effluent Monitoring a. Sampling / Monitoring Record available?       □       □         b. Monitoring frequency met the license requirement?       □       □         c. Any exceedance?       □       □         d. If yes, follow-up action taken?       □       □         Surface run-off control measures in place and adequately maintained?       □       □         Surface run-off discharging into drainage system?       □       □         All manholes are covered?       □       □         Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?       □       □         Drainage system is well maintained to       □       □



	Description	Yes	No	N/A	Remarks
	Processes with high Risk of Contamination				
9	<ul><li>a. Processes / activities are located under a covered area?</li></ul>				The risk of contamination for the recycling process is low.
	b. Stop-logs installed in the perimeter drainage system for uncovered areas?		$\boxtimes$		Stop-logs are available for use by the Tenant if needed.
	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water was found.
10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Not required.
11	a. Oil interceptor provided for drainage discharging from maintenance area?				Not required.
	b. If yes, oil and grease removed regularly?				
	c. Collected by licensed collector?			$\boxtimes$	
	Cargo Handling				Not required.
12	a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
	b. Materials and bulk cargo are properly packed?			$\boxtimes$	



	3. Air Quality				
3.1	<b>Description</b> a. Valid Specified Process License for all	Yes	No	N/A	Remarks Not required.
5.1	specified process available?				Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
	Odour		$\boxtimes$		
3.2	a. Any odour detected?				
	b. If yes, can the source be identified?				
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?				
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?				
3.4	Dust Monitoring a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?				
3.5	Enclosures are provided around the main dust-generating activities?				
3.6	Open burning is avoided?	$\boxtimes$			



3. Air Quality (continued)				
<b>Description</b> Dark smoke emitted from chimney or powered plant is avoided?	Yes	No	N/A	Remarks There is no chimney installed on-site.
Vehicles and equipment are switched off while not in use?				
Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
b. >35kg of conventional solid fuel per hour			$\boxtimes$	
c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?				
equipment installed by tenants must be tested to ensure compliance for landfill				
				Not required.
b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
All air pollution control systems are properly maintained and function normally?	$\boxtimes$			
Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			
	Description Dark smoke emitted from chimney or powered plant is avoided?  Vehicles and equipment are switched off while not in use?  Approval certificate issued by the Authority is available for furnace, oven or chimney consuming: a. >25L of conventional liquid fuel per hour  b. >35kg of conventional solid fuel per hour  c. >1,150 MJ of any gaseous fuel per hour  Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?  Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.  a. Approval from Authority for the use of controlled refrigerant?  b. If yes, record of refrigeration equipment service available?	Description Dark smoke emitted from chimney or powered plant is avoided?  Vehicles and equipment are switched off while not in use?  Approval certificate issued by the Authority is available for furnace, oven or chimney consuming: a. >25L of conventional liquid fuel per hour  b. >35kg of conventional solid fuel per hour  c. >1,150 MJ of any gaseous fuel per hour  Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?  Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.  a. Approval from Authority for the use of controlled refrigerant?  b. If yes, record of refrigeration equipment service available?  All air pollution control systems are properly maintained and function normally?	Description Dark smoke emitted from chimney or powered plant is avoided?  Vehicles and equipment are switched off while not in use?  Approval certificate issued by the Authority is available for furnace, oven or chimney consuming: a. >25L of conventional liquid fuel per hour  b. >35kg of conventional solid fuel per hour  c. >1,150 MJ of any gaseous fuel per hour  Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?  Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.  a. Approval from Authority for the use of controlled refrigerant?  b. If yes, record of refrigeration equipment service available?  All air pollution control systems are properly maintained and function normally?	Description Dark smoke emitted from chimney or powered plant is avoided?  Vehicles and equipment are switched off while not in use?  Approval certificate issued by the Authority is available for furnace, oven or chimney consuming: a. >25L of conventional liquid fuel per hour  b. >35kg of conventional solid fuel per hour  c. >1,150 MJ of any gaseous fuel per hour  Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?  Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.  a. Approval from Authority for the use of controlled refrigerant?  b. If yes, record of refrigeration equipment service available?  All air pollution control systems are properly maintained and function normally?



	Description	Yes	No	N/A	Remarks
.1	Chemical Waste Producer Registration completed?				Registration No. 3840-421- L2676-01 for various types of chemical waste.
.2	Provision of sufficient waste disposal points/ receptacles?				
.3	Waste disposed of regularly and properly?				MSW is disposed of daily via the Operator, whereas the chemica waste is disposed of once or twice per month depending on the quantity generated.
.4	Sorting of materials on-site for reuse or disposal to designated outlet?				Recyclable materials were passed to other recyclers.
.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
.6	Sludge is collected by a licensed collector at regular intervals?				
	Packaging of Chemical Waste				
.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?				
	c. Spillage cleaned up immediately through the use of an absorbent?				No spillage.
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	Labelling of Chemical Waste				
8	<ul><li>a. Label is securely attached, clean and visible?</li></ul>				
	b. Label is in proper dimension and bilingual?				
	c. Information is accurate and sufficient?	$\boxtimes$			



	4. Waste / Chemical Management (continu	ied)			
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
)	a. Proper "Chemical Waste" signs are displayed?				
-	b. Incompatible wastes separated by an impermeable partition?				
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	$\boxtimes$			
-	f. Adequacy of area ventilation?				
-	g. Outdoors storage area should be covered?			$\boxtimes$	Chemical waste was stored indoor.
0	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				The Tenant itself is a licensed chemical waste collector (Licence No.: 3810-421-L2676 OS) for CRT and LCD monitors
-	Storage of Liquid Waste				
1	a. Storage area floor/surface permeation- proof?	$\boxtimes$			
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
5.1	Landfill Gas Hazard (within LFG Consultation Zone)  a. Workers and visitors alerted to possible LGF hazards?				Outside the LFG Consultation Zone.
	b. Smoking and open fires prohibited?				
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?			$\boxtimes$	
5.3	Good housekeeping?				
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?			$\boxtimes$	No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?			$\boxtimes$	There were no DGs stored on site.
	b. Storage area in compliance with the approved plan?				
	c. Storage area(s) has been securely locked?			$\boxtimes$	
	d. Total storage capacity in compliance with the relevant statutory requirement?			$\boxtimes$	
	e. Proper Labelling?				
	f. Dangerous goods properly packaged?			$\boxtimes$	
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			



No. Action Expected By

1. No critical environmental issue was observed.

Nil

## **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 19 August 2013

**Status** 

1. Nil N/A

## **Audit Summary and Sign-off**

No critical environmental issue was observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Li Tong	Serco Guardian JV
Signed By	Antony WONG	Keith CHAU	Teresa HO	Mabel YUNG
Role	ET	IEC Site Auditor	Environmental Health and Safety Officer	Park Manager
Signature	Andry	Des	15	Nabel.



## **APPENDIX 6-5**

**Tenant-specific Audit Checklists for the Reporting Quarter** 

Hong Kong Telford Envirotech Group Ltd.



	Audit Details							
Ten	ant	Hong Kong Telfo	rd Eı	nvirotech G	roup	Ltd.		
Dat	e & Time	Date 24 July 20	13			Time	11:35pm	
Lot	No.	EP08-01		_				
Auc	lit Ref.	19		_				
IEC	Joint Inspection	Yes	$\boxtimes$	No				
We	ather Conditions	Fine		Hazy		Ove	ercast	Rain
Wir	nd	<b>⊠</b> Calm		Light Bree	eze	Str	ong Wind	
Ten	nperature	<u>26</u> °C						
Hur	midity	Low		Medium		Hig	h	
1.1	1. General  Description  EP for Tenant disp	layed on notice bo	ards	Yes	No	N/A ⊠	Remarks	oPark (EP-226/2005/B)
1.1	at entrance?	layed on notice bo	arus	<b>/</b>			issued or displayed	n June 21 <sup>st</sup> 2013 is If at the entrance of EP for Tenant is not
1.2	Environmental Po	licy documented?				$\boxtimes$		
1.3	Environmental Ma updated?	nnagement Plan				$\boxtimes$		
1.4	a. Emergency Resp documented?	oonse Plan (ERP)						
	b. Drill / training r	ecords available?				$\boxtimes$		
1.5	Employee's trainir	ng record available	?			$\boxtimes$		
1.6	Any record of pros	secution / complair	nt?		$\boxtimes$			
1.7	Waste Manageme	nt Plan?						



escription  alid Effluent Discharge License available?  my wastewater treatment facility prior to ffluent discharge?  yes, facility is properly maintained and inction normally?  Effluent Monitoring  Sampling / Monitoring Record available?	Yes	No .	N/A  ⊠  □	Remarks
ny wastewater treatment facility prior to iffluent discharge?  yes, facility is properly maintained and inction normally?  ffluent Monitoring Sampling / Monitoring Record available?  Monitoring frequency met the license				
yes, facility is properly maintained and inction normally?  Ffluent Monitoring Sampling / Monitoring Record available?  Monitoring frequency met the license				
ffluent Monitoring Sampling / Monitoring Record available?  Monitoring frequency met the license				
Sampling / Monitoring Record available?  Monitoring frequency met the license				
Monitoring frequency met the license				
requirement?				
Any exceedance?				
If yes, follow-up action taken?				
urface run-off control measures in place nd adequately maintained?				
urface run-off discharging into drainage vstem?	$\boxtimes$			
Il manholes are covered?	$\boxtimes$			
pam, oil, grease, litter or other ojectionable matters in water of nearby rain / sewer are avoided?				
	$\boxtimes$			
	I manholes are covered?  Jam, oil, grease, litter or other opectionable matters in water of nearby	I manholes are covered?  I manholes are covered?	I manholes are covered?  I manholes are covere	I manholes are covered?  I manholes are covered are co



	Description	Yes	No	N/A	Remarks
	Processes with high Risk of Contamination				
)	<ul> <li>a. Processes / activities are located under a covered area?</li> </ul>				For the majority of the processes / activities.
	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				
LO	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Not observed.
11	a. Oil interceptor provided for drainage discharging from maintenance area?				Maintenance area was not observed.
	b. If yes, oil and grease removed regularly?			$\boxtimes$	
	c. Collected by licensed collector?			$\boxtimes$	
12	Cargo Handling  a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				Not applicable.
	b. Materials and bulk cargo are properly packed?			$\boxtimes$	



	Description	Yes	No	N/A	Remarks
	a. Valid Specified Process License for all specified process available?				Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
	Odour				
	a. Any odour detected?				
	b. If yes, can the source be identified?			$\boxtimes$	
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?			$\boxtimes$	
	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	$\boxtimes$			
	Dust Monitoring				
	a. Monitoring Record available?			$\boxtimes$	Not required.
	b. Monitoring frequency met the requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
5	Enclosures are provided around the main dust-generating activities?			$\boxtimes$	
	Open burning is avoided?	$\boxtimes$			



	3. Air Quality (continued)				
3.7	<b>Description</b> Dark smoke emitted from chimney or powered plant is avoided?	Yes	No	N/A	Remarks
3.8	Vehicles and equipment are switched off while not in use?				
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:				
	a. >25L of conventional liquid fuel per hour				Not required.
-	b. >35kg of conventional solid fuel per hour			$\boxtimes$	
-	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	Not required.
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?				Not required.
3.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
3.12	Approval from Authority for the use of controlled refrigerant?			$\boxtimes$	Not required.
-	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
3.13	All air pollution control systems are properly maintained and function normally?				
3.14	Only Ultra-Low Sulphur Diesel is used?			$\boxtimes$	



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
.1	Chemical Waste Producer Registration completed?				To be determined during the next Monthly Site Audit.
.2	Provision of sufficient waste disposal points/ receptacles?				
3	Waste disposed of regularly and properly?	$\boxtimes$			
4	Sorting of materials on-site for reuse or disposal to designated outlet?	$\boxtimes$			
5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?	$\boxtimes$			
6	Sludge is collected by a licensed collector at regular intervals?			$\boxtimes$	No sludge was generated.
	Packaging of Chemical Waste				
7	a. Stored in suitable container?				
	b. Container properly closed or sealed?	$\boxtimes$			
	c. Spillage cleaned up immediately through the use of an absorbent?	$\boxtimes$			
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	Labelling of Chemical Waste				
8	<ul> <li>a. Label is securely attached, clean and visible?</li> </ul>				No chemical waste was generated.
	b. Label is in proper dimension and bilingual?			$\boxtimes$	
	c. Information is accurate and sufficient?			$\boxtimes$	



	4. Waste / Chemical Management (continu	ied)			
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
9	a. Proper "Chemical Waste" signs are displayed?				No chemical waste was generated.
-	b. Incompatible wastes separated by an impermeable partition?				
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?	$\boxtimes$			
•	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?			$\boxtimes$	
-	f. Adequacy of area ventilation?			$\boxtimes$	
	g. Outdoors storage area should be covered?			$\boxtimes$	
.0	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				No chemical waste was generated.
•	Storage of Liquid Waste				
l1	a. Storage area floor/surface permeation- proof?			$\boxtimes$	No liquid waste was generated
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description  Landfill Gas Hazard	Yes	No	N/A	Remarks
5.1	(within LFG Consultation Zone)  a. Workers and visitors alerted to possible LGF hazards?				The lot is within the LFG Consultation Zone and the Tenant has alerted workers/visitors about possible LFG hazards.
	b. Smoking and open fires prohibited?	$\boxtimes$			
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?				
5.3	Good housekeeping?				
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?				No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?				
	b. Storage area in compliance with the approved plan?				
	c. Storage area(s) has been securely locked?			$\boxtimes$	
	d. Total storage capacity in compliance with the relevant statutory requirement?				
	e. Proper Labelling?				
	f. Dangerous goods properly packaged?			$\boxtimes$	
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			



#### **Action Items from This Audit**

No. Action Expected By

1. No critical issue was observed. N/A

# **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 21 June 2013

**Status** 

1. Nil.

N/A

## **Audit Summary and Sign-off**

No critical issue was observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Telford	Serco Guardian JV
Signed By	Winnie MA	-	Mr. LEE	Mabel YUNG
Role	ET Site Auditor	IEC	Director	Park Manager
Signature	Diviso	-	At	Hell.

Note: \* IEC to sign-off only for a joint ET+IEC Inspection



	Audit Details						
Ten	ant	Hong Kong Telfo	rd Er	nvirotech G	iroup	Ltd.	
Dat	e & Time	Date 19 August	201	3		Time	11:35pm
Lot	No.	EP08-01		_			
Aud	dit Ref.	20		_			
IEC	Joint Inspection	Yes	$\boxtimes$	No			
We	ather Conditions	Fine		Hazy		Ove	ercast Rain
Wir	nd	<b>⊠</b> Calm		Light Bree	ze	Str	ong Wind
Ten	nperature	30.5°C					
Hui	midity	Low		Medium		Hig	g <b>h</b>
	1. General						
	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant disp at entrance?	layed on notice boa	ards	/			EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Pol	icy documented?					
1.3	Environmental Ma updated?	nagement Plan				$\boxtimes$	
1.4	a. Emergency Resp documented?	oonse Plan (ERP)				$\boxtimes$	
	b. Drill / training ro	ecords available?				$\boxtimes$	
1.5	Employee's training	g record available?	)			$\boxtimes$	
1.6	Any record of pros	secution / complain	it?				
1.7	Waste Manageme	nt Plan?				$\boxtimes$	



	2. Water Quality				
	Description	Yes	No	N/A	Remarks
.1	Valid Effluent Discharge License available?				
.2	Any wastewater treatment facility prior to effluent discharge?		$\boxtimes$		
	If yes, facility is properly maintained and function normally?			$\boxtimes$	
	Effluent Monitoring				
.3	a. Sampling / Monitoring Record available?				
	b. Monitoring frequency met the license requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
4	Surface run-off control measures in place and adequately maintained?				
5	Surface run-off discharging into drainage system?	$\boxtimes$			
.6	All manholes are covered?	$\boxtimes$			
.7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?				
	Drainage system is well maintained to	$\boxtimes$			



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
2.9	Processes with high Risk of Contamination a. Processes / activities are located under a covered area?				For the majority of the processes / activities.
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
-	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Not observed.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?				Maintenance area was not observed.
-	b. If yes, oil and grease removed regularly?			$\boxtimes$	
	c. Collected by licensed collector?			$\boxtimes$	
2.12	Cargo Handling  a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				Not applicable.
-	b. Materials and bulk cargo are properly packed?				



_	3. Air Quality				
	Description	Yes	No	N/A	Remarks
1	a. Valid Specified Process License for all specified process available?				Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
	Odour				
	a. Any odour detected?				
	b. If yes, can the source be identified?				
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?			$\boxtimes$	
	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	$\boxtimes$			
	Dust Monitoring				
	a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?				
	c. Any exceedance?				
	d. If yes, follow-up action taken?			$\boxtimes$	
	Enclosures are provided around the main dust-generating activities?			$\boxtimes$	



	Description	Yes	No	N/A	Remarks	
3.7	Dark smoke emitted from chimney or powered plant is avoided?					
3.8	Vehicles and equipment are switched off while not in use?	$\boxtimes$				
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:					
	a. >25L of conventional liquid fuel per hour				Not required.	
	b. >35kg of conventional solid fuel per hour					
-	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	Not required.	
.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?			$\boxtimes$	Not required.	
.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.					
.12					Not required.	
-	b. If yes, record of refrigeration equipment service available?			$\boxtimes$		
.13	All air pollution control systems are properly maintained and function normally?			$\boxtimes$		
	Only Ultra-Low Sulphur Diesel is used?			$\boxtimes$		



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				To be determined during the next Monthly Site Audit.
4.2	Provision of sufficient waste disposal points/ receptacles?				
4.3	Waste disposed of regularly and properly?				
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?				
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?			$\boxtimes$	No sludge was generated.
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?				
	c. Spillage cleaned up immediately through the use of an absorbent?				
	d. Approval obtained for capacity of containers > 450L?				
	Labelling of Chemical Waste				
4.8	a. Label is securely attached, clean and visible?			$\boxtimes$	No chemical waste was generated.
	b. Label is in proper dimension and bilingual?				
(	c. Information is accurate and sufficient?			$\boxtimes$	



	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
)	<ul> <li>a. Proper "Chemical Waste" signs are displayed?</li> </ul>				No chemical waste was generated.
-	b. Incompatible wastes separated by an impermeable partition?				
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?	$\boxtimes$			
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?			$\boxtimes$	
-	f. Adequacy of area ventilation?				
-	g. Outdoors storage area should be covered?			$\boxtimes$	
0	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				No chemical waste was generated.
1	Storage of Liquid Waste  a. Storage area floor/surface permeation-proof?			$\boxtimes$	No liquid waste was generated
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
	Landfill Gas Hazard (within LFG Consultation Zone)			_	
5.1	a. Workers and visitors alerted to possible LGF hazards?				The lot is within the LFG Consultation Zone and the Tenant has alerted workers/visitors about possible LFG hazards.
	b. Smoking and open fires prohibited?	$\boxtimes$			
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?				
5.3	Good housekeeping?	$\boxtimes$			
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?			$\boxtimes$	No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?				
	b. Storage area in compliance with the approved plan?			$\boxtimes$	
	c. Storage area(s) has been securely locked?			$\boxtimes$	
	d. Total storage capacity in compliance with the relevant statutory requirement?			$\boxtimes$	
	e. Proper Labelling?			$\boxtimes$	
	f. Dangerous goods properly packaged?			$\boxtimes$	
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			



#### **Action Items from This Audit**

No. Action Expected By

1. No critical issue was observed.

# **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 24 July 2013

Status

1. Nil. N/A

## **Audit Summary and Sign-off**

No critical issue was observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Telford	Serco Guardian JV
Signed By	Winnie MA	-	Mr. LEE	Mabel YUNG
Role	ET Site Auditor	IEC	Director	Park Manager
Signature	Division	-	At	Hell.

Note: \* IEC to sign-off only for a joint ET+IEC Inspection



	Audit Details							
Ten	nant	Hong Kong Telfo	rd Eı	nvirotech (	Group	Ltd.		_
Dat	e & Time	Date 17 Septer	nber	2013		Time	11:35pm	
Lot	No.	EP08-01		_				
Aud	dit Ref.	21		_				
IEC	Joint Inspection	X Yes		No				
We	ather Conditions	Fine		Hazy		Ove	ercast Rain	
Wir	nd	<b>Calm</b>		Light Bree	eze	Str	ong Wind	
Ten	nperature	<u>30</u> °C						
Hur	midity	Low	$\boxtimes$	Medium		Hig	gh	
	1. General  Description			Yes	No	N/A	Remarks	_
1.1	EP for Tenant disp at entrance?	layed on notice bo	ards	/			EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.	
1.2	Environmental Po	licy documented?				$\boxtimes$		
1.3	Environmental Ma updated?	anagement Plan						
1.4	a. Emergency Res documented?	ponse Plan (ERP)				$\boxtimes$		
	b. Drill / training r	ecords available?						
1.5	Employee's trainin	ng record available	?					
1.6	Any record of pro	secution / complair	nt?		$\boxtimes$			
1.7	Waste Manageme	ent Plan?				$\boxtimes$		



	2. Water Quality				
	Description	Yes	No	N/A	Remarks
.1	Valid Effluent Discharge License available?				
.2	Any wastewater treatment facility prior to effluent discharge?		$\boxtimes$		
	If yes, facility is properly maintained and function normally?			$\boxtimes$	
	Effluent Monitoring				
.3	a. Sampling / Monitoring Record available?				
	b. Monitoring frequency met the license requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
4	Surface run-off control measures in place and adequately maintained?				
5	Surface run-off discharging into drainage system?	$\boxtimes$			
.6	All manholes are covered?	$\boxtimes$			
.7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?				
	Drainage system is well maintained to	$\boxtimes$			



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
2.9	Processes with high Risk of Contamination  a. Processes / activities are located under a covered area?				For the majority of the processes / activities.
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
_	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?	$\boxtimes$			
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Not observed.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?				Maintenance area was not observed.
_	b. If yes, oil and grease removed regularly?			$\boxtimes$	
_	c. Collected by licensed collector?				
2.12	Cargo Handling  a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				Not applicable.
-	b. Materials and bulk cargo are properly packed?				



3. Air Quality				
Description	Yes	No	N/A	Remarks
a. Valid Specified Process License for all specified process available?				Not required.
b. SP License conditions / monitoring requirements met?			$\boxtimes$	
Odour				
a. Any odour detected?				
b. If yes, can the source be identified?				
c. Odorous materials are covered?			$\boxtimes$	
d. If odour control system is installed, is it operating normally?			$\boxtimes$	
All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?				
Dust Monitoring				
a. Monitoring Record available?				Not required.
b. Monitoring frequency met the requirement?				
c. Any exceedance?				
d. If yes, follow-up action taken?			$\boxtimes$	
Enclosures are provided around the main dust-generating activities?			$\boxtimes$	
	Description a. Valid Specified Process License for all specified process available?  b. SP License conditions / monitoring requirements met?  Odour a. Any odour detected?  b. If yes, can the source be identified?  c. Odorous materials are covered?  d. If odour control system is installed, is it operating normally?  All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?  Dust Monitoring a. Monitoring Record available?  b. Monitoring frequency met the requirement?  c. Any exceedance?  Enclosures are provided around the main	Description a. Valid Specified Process License for all specified process available?  b. SP License conditions / monitoring requirements met?  Odour a. Any odour detected?  b. If yes, can the source be identified?  c. Odorous materials are covered?  d. If odour control system is installed, is it operating normally?  All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?  Dust Monitoring a. Monitoring Record available?  b. Monitoring frequency met the requirement?  c. Any exceedance?  d. If yes, follow-up action taken?	Description a. Valid Specified Process License for all specified process available?  b. SP License conditions / monitoring requirements met?  Odour a. Any odour detected?  b. If yes, can the source be identified?  c. Odorous materials are covered?  d. If odour control system is installed, is it operating normally?  All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?  Dust Monitoring a. Monitoring Record available?  b. Monitoring frequency met the requirement?  c. Any exceedance?  d. If yes, follow-up action taken?	Description a. Valid Specified Process License for all specified process available?  b. SP License conditions / monitoring requirements met?  Odour a. Any odour detected?  b. If yes, can the source be identified?  c. Odorous materials are covered?  d. If odour control system is installed, is it operating normally?  All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?  Dust Monitoring a. Monitoring Record available?  b. Monitoring frequency met the requirement?  c. Any exceedance?



	Description	Yes	No	N/A	Remarks	
3.7	Dark smoke emitted from chimney or powered plant is avoided?					
3.8	Vehicles and equipment are switched off while not in use?	$\boxtimes$				
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:					
	a. >25L of conventional liquid fuel per hour				Not required.	
	b. >35kg of conventional solid fuel per hour					
-	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	Not required.	
.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?			$\boxtimes$	Not required.	
.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.					
.12					Not required.	
-	b. If yes, record of refrigeration equipment service available?			$\boxtimes$		
.13	All air pollution control systems are properly maintained and function normally?			$\boxtimes$		
	Only Ultra-Low Sulphur Diesel is used?			$\boxtimes$		



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				To be determined during the next Monthly Site Audit.
4.2	Provision of sufficient waste disposal points/ receptacles?				
4.3	Waste disposed of regularly and properly?				
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?	$\boxtimes$			
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?	$\boxtimes$			
4.6	Sludge is collected by a licensed collector at regular intervals?			$\boxtimes$	No sludge was generated.
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?				
	c. Spillage cleaned up immediately through the use of an absorbent?				
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	Labelling of Chemical Waste				
4.8	<ul><li>a. Label is securely attached, clean and visible?</li></ul>				No chemical waste was generated.
	b. Label is in proper dimension and bilingual?				
	c. Information is accurate and sufficient?			$\boxtimes$	



	4. Waste / Chemical Management (continu	ied)			
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
9	a. Proper "Chemical Waste" signs are displayed?				No chemical waste was generated.
-	b. Incompatible wastes separated by an impermeable partition?				
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?	$\boxtimes$			
•	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?			$\boxtimes$	
-	f. Adequacy of area ventilation?			$\boxtimes$	
	g. Outdoors storage area should be covered?			$\boxtimes$	
.0	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				No chemical waste was generated.
•	Storage of Liquid Waste				
l1	a. Storage area floor/surface permeation- proof?			$\boxtimes$	No liquid waste was generated
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description  Landfill Gas Hazard	Yes	No	N/A	Remarks
5.1	(within LFG Consultation Zone)  a. Workers and visitors alerted to possible LGF hazards?				The lot is within the LFG Consultation Zone and the Tenant has alerted workers/visitors about possible LFG hazards.
	b. Smoking and open fires prohibited?	$\boxtimes$			
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?				
5.3	Good housekeeping?				
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?				No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?				
	b. Storage area in compliance with the approved plan?				
	c. Storage area(s) has been securely locked?			$\boxtimes$	
	d. Total storage capacity in compliance with the relevant statutory requirement?				
	e. Proper Labelling?				
	f. Dangerous goods properly packaged?			$\boxtimes$	
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			



#### **Action Items from This Audit**

No. Action Expected By

1. No critical issue was observed. N/A

# **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 19 August 2013

Status

1. Nil.

## **Audit Summary and Sign-off**

No critical issue was observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Telford	Serco Guardian JV
Signed By	Antony WONG	Sharifah Or	Mr. LEE	Mabel YUNG
Role	ET	IEC	Director	Park Manager
Signature	Auby	Guifal	PP. And	Nabel.

Note: \* IEC to sign-off only for a joint ET+IEC Inspection



# **APPENDIX 6-6**

**Tenant-specific Audit Checklists for the Reporting Quarter** 

**YOT EcoPark Plastic Resources Recycling Centre** 



Tenant Yan Ol Tong Limited  Date & Time		Audit Details						
Lot No.	Ten	ant	Yan Oi Tong Limi	ted				
Audit Ref. 34  IEC Joint Inspection	Dat	e & Time	Date 24 July 20	13			Tin	me 11:25am
IEC Joint Inspection	Lot	No.	EP07		_			
Weather Conditions	Aud	lit Ref.	34					
Wind	IEC.	Joint Inspection	Yes	$\boxtimes$	No			
Temperature 26 °C  Humidity	Wea	ather Conditions	Fine		Hazy			Overcast Rain
Description   Yes No N/A Remarks	Win	ıd	<b>⊠</b> Calm		Light Bre	eeze		Strong Wind
Description  Yes No N/A Remarks  1.1 EP for Tenant displayed on notice boards / at entrance?  EP for Tenant displayed on notice boards / at entrance of EcoPark (EP-226/2005/B) issued on June 21 <sup>st</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.  1.2 Environmental Policy documented?  Environmental Management Plan   The Operator's Environmental Policy is documented.  1.3 Environmental Management Plan   The Tenant's EMP is documented.  1.4 a. Emergency Response Plan (ERP)   The Tenant's ERP is documented.  b. Drill / training records available?   The Tenant's ERP is documented.  1.5 Employee's training record available?   The Tenant has included the WMP	Ten	nperature	<u>26</u> °C					
Description  Yes No N/A Remarks  1.1 EP for Tenant displayed on notice boards / at entrance?  EP for Tenant displayed on notice boards / at entrance?  EP for EcoPark (EP-226/2005/B) issued on June 21 <sup>st</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.  1.2 Environmental Policy documented?  Interplay The Operator's Environmental Policy is documented.  Environmental Management Plan updated?  The Tenant's EMP is documented.  The Tenant's ERP is documented.  D. Drill / training records available?  Employee's training record available?  Interplay The Tenant has included the WMP.	Hun	nidity	Low		Medium		$\boxtimes$	High
1.1 EP for Tenant displayed on notice boards / at entrance?    EP for EcoPark (EP-226/2005/B) issued on June 21 <sup>st</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.    The Operator's Environmental Policy is documented.    The Tenant's EMP is documented.    The Tenant's ERP is documented.    Description of the Tenant's ERP is documented.   Description		1. General						
at entrance?  issued on June 21st 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.  1.2 Environmental Policy documented?  The Operator's Environmental Policy is documented.  The Tenant's EMP is documented.  1.4 a. Emergency Response Plan (ERP)		-			_	No	_	
is documented.  1.3 Environmental Management Plan	1.1		ayed on notice bo	ards	/ [			issued on June 21 <sup>st</sup> 2013 is displayed at the entrance of EcoPark. EP for
updated?  1.4 a. Emergency Response Plan (ERP)	1.2	Environmental Poli	cy documented?					
b. Drill / training records available?    Description	1.3		nagement Plan		$\boxtimes$			The Tenant's EMP is documented.
1.5 Employee's training record available?	1.4		onse Plan (ERP)		$\boxtimes$			The Tenant's ERP is documented.
1.6 Any record of prosecution / complaint?		b. Drill / training re	cords available?		$\boxtimes$			
1.7 Waste Management Plan?	1.5	Employee's training	g record available	?	$\boxtimes$			
	1.6	Any record of pros	ecution / complair	nt?		$\boxtimes$		
	1.7	Waste Managemer	nt Plan?		$\boxtimes$			



# 2. Water Quality **Description** Yes No N/A Remarks Licence No. WT00006013-2010 valid Valid Effluent Discharge License available? until 28 Feb 2015. $\square$ $\square$ 2.2 Any wastewater treatment facility prior to effluent discharge? $\square$ $\square$ If yes, facility is properly maintained and function normally? **Effluent Monitoring** As per the discharge licence, selfa. Sampling / Monitoring Record available? 2.3 monitoring shall be performed when required. b. Monitoring frequency met the license requirement? $\square$ $\square$ $\boxtimes$ c. Any exceedance? d. If yes, follow-up action taken? Surface run-off control measures in place and adequately maintained? 2.5 Surface run-off discharging into drainage system? 2.6 All manholes are covered? $\square$ $\square$ 2.7 Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided? 2.8 Drainage system is well maintained to prevent flooding and overflow?



	Description	Yes	No	N/A	Remarks
9	Processes with high Risk of Contamination  a. Processes / activities are located under a covered area?	$\boxtimes$			Works for recycling were undertaken at covered areas.
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
-	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?			$\boxtimes$	Water is unlikely to be contaminated within the lot.
10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Only grease is used at the lot.
11	a. Oil interceptor provided for drainage discharging from maintenance area?				Not required.
-	b. If yes, oil and grease removed regularly?			$\boxtimes$	
-	c. Collected by licensed collector?			$\boxtimes$	
12	Cargo Handling  a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?			$\boxtimes$	Not required.
-	b. Materials and bulk cargo are properly packed?			$\boxtimes$	



	3. Air Quality				
3.1	Description  a. Valid Specified Process License for all specified process available?	Yes	No	N/A	Remarks Not required.
	b. SP License conditions / monitoring requirements met?				
3.2	Odour a. Any odour detected?		$\boxtimes$		
	b. If yes, can the source be identified?				
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?				
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?			$\boxtimes$	No dusty materials were found to be used on-site.
	Dust Monitoring				
3.4	a. Monitoring Record available?			$\boxtimes$	
	b. Monitoring frequency met the requirement?				
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
3.5	Enclosures are provided around the main dust-generating activities?			$\boxtimes$	
3.6	Open burning is avoided?	$\boxtimes$			



	Description	Yes	No	N/A	Remarks
3.7	Dark smoke emitted from chimney or powered plant is avoided?				There is no chimney installed on-site.
3.8	Vehicles and equipment are switched off while not in use?				
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
	b. >35kg of conventional solid fuel per hour				
	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?			$\boxtimes$	
.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
3.12	a. Approval from Authority for the use of controlled refrigerant?			$\boxtimes$	
	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
3.13	All air pollution control systems are properly maintained and function normally?				
	Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
1	Chemical Waste Producer Registration completed?				Registration No. 9211-421-Y2453-03 for spent mineral oil and spent lubricating oil.
2	Provision of sufficient waste disposal points/ receptacles?	$\boxtimes$			
	Waste disposed of regularly and properly?	$\boxtimes$			Twice a week.
ļ	Sorting of materials on-site for reuse or disposal to designated outlet?	$\boxtimes$			
	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
	Sludge is collected by a licensed collector at regular intervals?				Sludge / debris from the wastewater treatment facility are collected by licensed collector regularly.
,	Packaging of Chemical Waste  a. Stored in suitable container?			$\boxtimes$	No chemical waste was produced.
	b. Container properly closed or sealed?				
	c. Spillage cleaned up immediately through the use of an absorbent?			$\boxtimes$	
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	Labelling of Chemical Waste				
3	a. Label is securely attached, clean and visible?				No chemical waste was produced.
	b. Label is in proper dimension and bilingual?			$\boxtimes$	



	4. Waste / Chemical Management (continu	ued)			
	Description	Yes	No	N/A	Remarks
.9	Storage of Chemical Waste a. Proper "Chemical Waste" signs are displayed?			$\boxtimes$	No chemical waste was produced.
-	b. Incompatible wastes separated by an impermeable partition?			$\boxtimes$	
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?			$\boxtimes$	
_	f. Adequacy of area ventilation?			$\boxtimes$	
-	g. Outdoors storage area should be covered?			$\boxtimes$	
10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				
.11	Storage of Liquid Waste  a. Storage area floor/surface permeation-proof?			$\boxtimes$	No liquid waste was produced.
_	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
	Landfill Gas Hazard (within LFG Consultation Zone)				
5.1	a. Workers and visitors alerted to possible LGF hazards?				The lot is within the LFG Consultation Zone and the Tenant has alerted workers/visitors about possible LFG hazards. A notice is also posted at the entrance.
	b. Smoking and open fires prohibited?	$\boxtimes$			
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?			$\boxtimes$	
5.3	Good housekeeping?	$\boxtimes$			
5.4	Any areas within the lot to be used for recycling processes are concrete paved?				The whole lot has been concrete- paved.
5.5	Valid calibration certificate for any monitoring equipment?			$\boxtimes$	
•	Dangerous Goods				
5.6	<ul> <li>a. Valid license for manufacturing / storing dangerous goods?</li> </ul>				There were no DGs stored on site.
-	b. Storage area in compliance with the approved plan?			$\boxtimes$	
<u>-</u>	c. Storage area(s) has been securely locked?			$\boxtimes$	
-	d. Total storage capacity in compliance with the relevant statutory requirement?			$\boxtimes$	
-	e. Proper Labelling?				
-	f. Dangerous goods properly packaged?			$\boxtimes$	



No. Action Expected By

1. No critical issue was observed.

#### **Follow-up from Previous Audits**

No. Follow-up from Previous Audits Dated 21 June 2013 Status

1 Nil

# **Audit Summary and Sign-off**

No critical environmental issue was observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Yan Oi Tong	Serco Guardian JV
Signed By	Winnie MA	-	Asa NG	Mabel YUNG
Role	ET Site Auditor	IEC	Manager	Park Manager
Signature	Division	-	PP. WS	Hell.



	Audit Details						
Ten	ant	Yan Oi Tong Limi	ted				
Dat	e & Time	Date 19 August	201	3		Tir	ne <u>11:25am</u>
Lot	No.	EP07		_			
Aud	it Ref.	35		_			
IEC.	Joint Inspection	Yes		No			
Wea	ather Conditions	Fine		Hazy			Overcast Rain
Win	d	<b>⊠</b> Calm		Light Bre	eze		Strong Wind
Ten	perature	<u>30</u> .5°C					
Hun	nidity	Low		Medium		$\boxtimes$	High
1.1 1.2 1.3	Description EP for Tenant displate at entrance? Environmental Political Environmental Manupdated?  a. Emergency Resp documented?	cy documented?	ards	Yes /	No	N/A	Remarks  EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.  The Operator's Environmental Policy is documented.  The Tenant's EMP is documented.
	b. Drill / training re	cords available?					
1.5	Employee's training	g record available?	?	$\boxtimes$			
1.6	Any record of prose	ecution / complair	nt?		$\boxtimes$		
1.7	Waste Managemer	nt Plan?					The Tenant has included the WMP into the EMP.



# 2. Water Quality **Description** Yes No N/A Remarks Licence No. WT00006013-2010 valid Valid Effluent Discharge License available? until 28 Feb 2015. $\square$ $\square$ 2.2 Any wastewater treatment facility prior to effluent discharge? $\square$ $\square$ If yes, facility is properly maintained and function normally? **Effluent Monitoring** As per the discharge licence, selfa. Sampling / Monitoring Record available? 2.3 monitoring shall be performed when required. b. Monitoring frequency met the license requirement? $\square$ $\square$ $\square$ c. Any exceedance? d. If yes, follow-up action taken? Surface run-off control measures in place and adequately maintained? 2.5 Surface run-off discharging into drainage system? 2.6 All manholes are covered? $\square$ $\square$ Foam, oil, grease, litter or other 2.7 objectionable matters in water of nearby drain / sewer are avoided? 2.8 Drainage system is well maintained to prevent flooding and overflow?



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
2.9	Processes with high Risk of Contamination  a. Processes / activities are located under a covered area?	$\boxtimes$			Works for recycling were undertaken at covered areas.
	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				Water is unlikely to be contaminated within the lot.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?			$\boxtimes$	Only grease is used at the lot.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?				Not required.
•	b. If yes, oil and grease removed regularly?			$\boxtimes$	
	c. Collected by licensed collector?			$\boxtimes$	
2.12	Cargo Handling  a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				Not required.
	b. Materials and bulk cargo are properly packed?			$\boxtimes$	,



	3. Air Quality				
3.1	Description  a. Valid Specified Process License for all specified process available?	Yes	No	N/A	Remarks Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
3.2	Odour a. Any odour detected?		$\boxtimes$		
	b. If yes, can the source be identified?				
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?				
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?			$\boxtimes$	No dusty materials were found to be used on-site.
	Dust Monitoring				
3.4	a. Monitoring Record available?			$\boxtimes$	
	b. Monitoring frequency met the requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
3.5	Enclosures are provided around the main dust-generating activities?			$\boxtimes$	
3.6	Open burning is avoided?	$\boxtimes$			



	3. Air Quality (continued)				
3.7	<b>Description</b> Dark smoke emitted from chimney or powered plant is avoided?	Yes	No	N/A	Remarks There is no chimney installed on-site.
3.8	Vehicles and equipment are switched off while not in use?				
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
-	b. >35kg of conventional solid fuel per hour			$\boxtimes$	
-	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?				
3.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.			$\boxtimes$	
3.12	a. Approval from Authority for the use of controlled refrigerant?			$\boxtimes$	
-	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
3.13	All air pollution control systems are properly maintained and function normally?				
3.14	Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			



# 4. Waste / Chemical Management **Description** Yes No N/A Remarks 4.1 **Chemical Waste Producer Registration** Registration No. 9211-421-Y2453-03 completed? for spent mineral oil and spent lubricating oil. 4.2 Provision of sufficient waste disposal points/ receptacles? Waste disposed of regularly and properly? Twice a week. 4.4 Sorting of materials on-site for reuse or disposal to designated outlet? $\square$ $\square$ 4.5 Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection? 4.6 Sludge is collected by a licensed collector $\square$ $\square$ Sludge / debris from the wastewater at regular intervals? treatment facility are collected by licensed collector regularly. **Packaging of Chemical Waste** No chemical waste was produced. 4.7 a. Stored in suitable container? $\square$ $\square$ $\boxtimes$ b. Container properly closed or sealed? c. Spillage cleaned up immediately through the use of an absorbent? $\sqcap$ $\sqcap$ $\boxtimes$ d. Approval obtained for capacity of containers > 450L? **Labelling of Chemical Waste** ☐ ☐ No chemical waste was produced. 4.8 a. Label is securely attached, clean and visible? b. Label is in proper dimension and $\boxtimes$ bilingual? $\boxtimes$ c. Information is accurate and sufficient?



	4. Waste / Chemical Management (continu	ued)			
	Description	Yes	No	N/A	Remarks
.9	Storage of Chemical Waste a. Proper "Chemical Waste" signs are displayed?			$\boxtimes$	No chemical waste was produced.
-	b. Incompatible wastes separated by an impermeable partition?			$\boxtimes$	
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?			$\boxtimes$	
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?			$\boxtimes$	
-	f. Adequacy of area ventilation?				
-	g. Outdoors storage area should be covered?			$\boxtimes$	
- L <b>O</b>	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				
.1	Storage of Liquid Waste  a. Storage area floor/surface permeation-proof?			$\boxtimes$	No liquid waste was produced.
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?			$\boxtimes$	



# 5. Other Issues **Description** Yes No N/A Remarks **Landfill Gas Hazard** (within LFG Consultation Zone) a. Workers and visitors alerted to possible The lot is within the LFG Consultation Zone and the Tenant has alerted LGF hazards? workers/visitors about possible LFG hazards. A notice is also posted at the entrance. $\square$ $\square$ $\square$ b. Smoking and open fires prohibited? $\boxtimes$ 5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers? 5.3 Good housekeeping? $\square$ $\square$ The whole lot has been concrete-5.4 Any areas within the lot to be used for recycling processes are concrete paved? paved. $\square$ $\square$ $\boxtimes$ 5.5 Valid calibration certificate for any monitoring equipment? **Dangerous Goods** There were no DGs stored on site. 5.6 a. Valid license for manufacturing / storing dangerous goods? $\boxtimes$ b. Storage area in compliance with the approved plan? П $\boxtimes$ c. Storage area(s) has been securely locked? d. Total storage capacity in compliance with the relevant statutory requirement? $\boxtimes$ e. Proper Labelling? $\sqcap$ $\sqcap$ $\boxtimes$ f. Dangerous goods properly packaged? $\boxtimes$ 5.7 Potential stagnant pools cleared and mosquito breeding prevented?



No. Action Expected By

1. No critical issue was observed.

#### **Follow-up from Previous Audits**

No. Follow-up from Previous Audits Dated 24 July 2013 Status

1 Nil N/A

### **Audit Summary and Sign-off**

No critical environmental issue was observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Yan Oi Tong	Serco Guardian JV
Signed By	Winnie MA	-	Asa NG	Mabel YUNG
Role	ET Site Auditor	IEC	Manager	Park Manager
Signature	Division	-	PP 200	Hall.



	Audit Details						
Tena	ant	Yan Oi Tong Limi	ted				
Date	e & Time	Date 17 Septen	nber	2013		Tir	me 11:25am
Lot I	No.	EP10-01		_			
Aud	it Ref.	36					
IEC J	oint Inspection	X Yes		No			
Wea	ther Conditions	Fine		Hazy			Overcast Rain
Win	d	<b>Calm</b>		Light Bre	eeze		Strong Wind
Tem	perature	<u>31°</u> C					
Hum	nidity	Low	$\boxtimes$	Medium			High
1.1	1. General  Description  EP for Tenant displatentrance?  Environmental Political Environmental Maupdated?	icy documented?	ards	Yes /	No	N/A	Remarks  EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.  The Operator's Environmental Policy is documented.  The Tenant's EMP is documented.
1.4	a. Emergency Resp documented?	onse Plan (ERP)		$\boxtimes$			The Tenant's ERP is documented.
	b. Drill / training re	cords available?		$\boxtimes$			
1.5	Employee's training	g record available	?	$\boxtimes$			
1.6	Any record of pros	ecution / complair	nt?		$\boxtimes$		
1.7	Waste Managemen	nt Plan?					The Tenant has included the WMP into the EMP.



	2. Water Quality				
	Description	Yes	No	N/A	Remarks
2.1	Valid Effluent Discharge License available?				Licence No. WT00006013-2010 valid until 28 Feb 2015.
2.2	Any wastewater treatment facility prior to effluent discharge?				
	If yes, facility is properly maintained and function normally?				
	Effluent Monitoring				
2.3	a. Sampling / Monitoring Record available?				As per the discharge licence, self- monitoring shall be performed when required.
	b. Monitoring frequency met the license requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
2.4	Surface run-off control measures in place and adequately maintained?	$\boxtimes$			
2.5	Surface run-off discharging into drainage system?	$\boxtimes$			
2.6	All manholes are covered?	$\boxtimes$			
2.7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?				
2.8	Drainage system is well maintained to prevent flooding and overflow?				



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
	Processes with high Risk of Contamination				
.9	<ul> <li>a. Processes / activities are located under a covered area?</li> </ul>				Works for recycling were undertaken at covered areas.
-	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
-	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?			$\boxtimes$	Water is unlikely to be contaminated within the lot.
.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?			$\boxtimes$	Only grease is used at the lot.
.11	a. Oil interceptor provided for drainage discharging from maintenance area?			$\boxtimes$	Not required.
-	b. If yes, oil and grease removed regularly?			$\boxtimes$	
-	c. Collected by licensed collector?			$\boxtimes$	
-	Cargo Handling				
.12	<ul> <li>a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?</li> </ul>				Not required.
-	b. Materials and bulk cargo are properly packed?			$\boxtimes$	



	3. Air Quality				
3.1	Description  a. Valid Specified Process License for all specified process available?	Yes	No	N/A	Remarks Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
3.2	Odour  a. Any odour detected?		$\boxtimes$		
	b. If yes, can the source be identified?				
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?			$\boxtimes$	
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?			$\boxtimes$	No dusty materials were found to be used on-site.
3.4	Dust Monitoring a. Monitoring Record available?			$\boxtimes$	
	b. Monitoring frequency met the requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
3.5	Enclosures are provided around the main dust-generating activities?			$\boxtimes$	
3.6	Open burning is avoided?	$\boxtimes$			
\ \					



	3. Air Quality (continued)				
3.7	<b>Description</b> Dark smoke emitted from chimney or powered plant is avoided?	Yes	No	N/A	Remarks There is no chimney installed on-site.
3.8	Vehicles and equipment are switched off while not in use?	$\boxtimes$			
3.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
-	b. >35kg of conventional solid fuel per hour			$\boxtimes$	
-	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?			$\boxtimes$	
3.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.			$\boxtimes$	
3.12	a. Approval from Authority for the use of controlled refrigerant?			$\boxtimes$	
-	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
3.13	All air pollution control systems are properly maintained and function normally?				
3.14	Only Ultra-Low Sulphur Diesel is used?				



	4. Waste / Chemical Management				
4.1	<b>Description</b> Chemical Waste Producer Registration completed?	Yes	No	N/A	Remarks Registration No. 9211-421-Y2453-03 for spent mineral oil and spent lubricating oil.
4.2	Provision of sufficient waste disposal points/ receptacles?				
4.3	Waste disposed of regularly and properly?				Twice a week.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?	$\boxtimes$			
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?				Sludge / debris from the wastewater treatment facility are collected by licensed collector regularly.
4.7	Packaging of Chemical Waste  a. Stored in suitable container?			$\boxtimes$	No chemical waste was produced.
	b. Container properly closed or sealed?			$\boxtimes$	
	c. Spillage cleaned up immediately through the use of an absorbent?			$\boxtimes$	
	d. Approval obtained for capacity of containers > 450L?				
4.8	Labelling of Chemical Waste  a. Label is securely attached, clean and visible?			$\boxtimes$	No chemical waste was produced.
	b. Label is in proper dimension and bilingual?				
(	c. Information is accurate and sufficient?				



	4. Waste / Chemical Management (continu	ued)			
	Description	Yes	No	N/A	Remarks
.9	Storage of Chemical Waste a. Proper "Chemical Waste" signs are displayed?			$\boxtimes$	No chemical waste was produced.
-	b. Incompatible wastes separated by an impermeable partition?			$\boxtimes$	
-	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
-	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?			$\boxtimes$	
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?			$\boxtimes$	
-	f. Adequacy of area ventilation?				
-	g. Outdoors storage area should be covered?			$\boxtimes$	
- L <b>O</b>	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				
.1	Storage of Liquid Waste  a. Storage area floor/surface permeation-proof?			$\boxtimes$	No liquid waste was produced.
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
-	c. Walls or partitions of stacked container storage area constructed of impermeable material?			$\boxtimes$	



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
	Landfill Gas Hazard (within LFG Consultation Zone)				
5.1	a. Workers and visitors alerted to possible LGF hazards?				The lot is within the LFG Consultation Zone and the Tenant has alerted workers/visitors about possible LFG hazards. A notice is also posted at the entrance.
	b. Smoking and open fires prohibited?	$\boxtimes$			
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?			$\boxtimes$	
5.3	Good housekeeping?	$\boxtimes$			
5.4	Any areas within the lot to be used for recycling processes are concrete paved?				The whole lot has been concrete- paved.
5.5	Valid calibration certificate for any monitoring equipment?			$\boxtimes$	
•	Dangerous Goods				
5.6	<ul> <li>a. Valid license for manufacturing / storing dangerous goods?</li> </ul>				There were no DGs stored on site.
-	b. Storage area in compliance with the approved plan?			$\boxtimes$	
<u>-</u>	c. Storage area(s) has been securely locked?			$\boxtimes$	
-	d. Total storage capacity in compliance with the relevant statutory requirement?			$\boxtimes$	
-	e. Proper Labelling?			$\boxtimes$	
	f. Dangerous goods properly packaged?			$\boxtimes$	



No. Action Expected By

1. No critical issue was observed.

#### **Follow-up from Previous Audits**

No. Follow-up from Previous Audits Dated 19 August 2013 Status

1 Nil

### **Audit Summary and Sign-off**

No critical environmental issue was observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Yan Oi Tong	Serco Guardian JV
Signed By	Winnie MA	Sharifah OR	Asa NG	Mabel YUNG
Role	ET Site Auditor	IEC	Manager	Park Manager
Signature	Distre	Grafal	T. W	Khlel.



# **APPENDIX 6-7**

**Tenant-specific Audit Checklists for the Reporting Quarter** 

St. James' Settlement "WEEE GO GREEN" EcoPark



	Audit Details						
Ten	ant	St. James' Settle	men	t			
Date	e & Time	Date 24 July 20	13			Time	11:30am
Lot	No.	EP05		_			
Aud	lit Ref.	33		_			
IEC.	Joint Inspection	Yes	$\boxtimes$	No			
Wea	ather Conditions	Fine		Hazy		Ove	ercast Rain
Win	d	<b>⊠</b> Calm		Light Bree	ze	Stro	ong Wind
Tem	nperature	<u>26</u> °C					
Hun	nidity	Low		Medium		Hig	h
	1. General						
	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant displate entrance?	ayed on notice bo	ards	_			EP for EcoPark (EP-226/2005/B) issued on June 21 <sup>st</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
`1.2	Environmental Poli	cy documented?					The Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Mar updated?	nagement Plan					The Tenant's EMP is documented.
1.4	a. Emergency Respondocumented?	onse Plan (ERP)		$\boxtimes$			The Tenant's ERP is documented.
	b. Drill / training re	cords available?					
1.5	Employee's training	g record available?	?	$\boxtimes$			
1.6	Any record of prose	ecution / complair	nt?				
1.7	Waste Managemer	it Plan?					The Tenant's WMP is documented.



_	2. Water Quality				
	Description	Yes	No	N/A	Remarks
1	Valid Effluent Discharge License available?				Licence No. WT00007365-2010 valid until 31 Aug 2015.
2	Any wastewater treatment facility prior to effluent discharge?	$\boxtimes$			A screen has been installed as treatment device.
	If yes, facility is properly maintained and function normally?				
	Effluent Monitoring				
3	a. Sampling / Monitoring Record available?				As per the discharge licence, self-monitoring shall be performed when required.
	b. Monitoring frequency met the license requirement?				
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
4	Surface run-off control measures in place and adequately maintained?			$\boxtimes$	
5	Surface run-off discharging into drainage system?	$\boxtimes$			
6	All manholes are covered?	$\boxtimes$			
7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?				
8	Drainage system is well maintained to	$\square$			



	Description	Yes	No	N/A	Remarks
9	Processes with high Risk of Contamination  a. Processes / activities are located under a covered area?			$\boxtimes$	The risk of contamination for the recycling process is low.
•	b. Stop-logs installed in the perimeter drainage system for uncovered areas?		$\boxtimes$		Stop-logs are available for use by the Tenant if needed.
	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water was found.
10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Not observed.
.11	a. Oil interceptor provided for drainage discharging from maintenance area?				Not required.
	b. If yes, oil and grease removed regularly?			$\boxtimes$	
	c. Collected by licensed collector?				
,	Cargo Handling				
2.12	<ul> <li>a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?</li> </ul>				Not required.
	b. Materials and bulk cargo are properly packed?				



	3. Air Quality				
	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?				Not required.
	b. SP License conditions / monitoring requirements met?				
	Odour				
3.2	a. Any odour detected?				
	b. If yes, can the source be identified?			$\boxtimes$	
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?				
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?				No dusty materials were found to be used on-site.
	Dust Monitoring				
3.4	a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?				
	c. Any exceedance?				
	d. If yes, follow-up action taken?			$\boxtimes$	
3.5	Enclosures are provided around the main dust-generating activities?				
3.6	Open burning is avoided?	$\boxtimes$			



	3. Air Quality (continued)				
.7	Description  Dark smoke emitted from chimney or powered plant is avoided?	Yes	No	N/A	Remarks  There is no chimney installed on-site.
.8	Vehicles and equipment are switched off while not in use?				
.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
	b. >35kg of conventional solid fuel per hour				
	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?				
11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
12	a. Approval from Authority for the use of controlled refrigerant?	$\boxtimes$			All relevant equipment is approved by EPD.
	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	Recorded by EPD.
13	All air pollution control systems are properly maintained and function normally?				
.14	Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				Registration No. 9211-421-S3222- 08 for spent lubricating oil, unwanted refrigerant and CRTs.
4.2	Provision of sufficient waste disposal points/ receptacles?	$\boxtimes$			
4.3	Waste disposed of regularly and properly?				Waste from workshop is stored in temporary area and disposed of as general refuse twice a week <i>via</i> the Operator. Chemical waste is transported to EPD's Chemical Waste Treatment Centre by licensed collector once per month.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?				Recyclable materials were passed to other recyclers.
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?				
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?				
	c. Spillage cleaned up immediately through the use of an absorbent?				No spillage.
	d. Approval obtained for capacity of containers > 450L?				
	Labelling of Chemical Waste				
4.8	a. Label is securely attached, clean and visible?				
	b. Label is in proper dimension and bilingual?	$\boxtimes$			
	c. Information is accurate and sufficient?	$\boxtimes$			
\					



	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
)	a. Proper "Chemical Waste" signs are displayed?				
	b. Incompatible wastes separated by an impermeable partition?				
	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
,	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
	f. Adequacy of area ventilation?	$\boxtimes$			
•	g. Outdoors storage area should be covered?			$\boxtimes$	
10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				
	Storage of Liquid Waste				
.1	a. Storage area floor/surface permeation- proof?				No liquid waste was observed.
	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
•	c. Walls or partitions of stacked container storage area constructed of impermeable material?			$\boxtimes$	



escription andfill Gas Hazard within LFG Consultation Zone) . Workers and visitors alerted to possible LGF hazards?  . Smoking and open fires prohibited?  ecurity lighting directed downward into ne work areas to prevent glare to the urrounding receivers?	Yes	No	<b>N/A</b> □  □	Remarks  Lot is within LFG Consultation Zone. Tenant has alerted workers/visitors about possible LFG hazards. A notice is also posted at the visitor centre.
within LFG Consultation Zone)  . Workers and visitors alerted to possible LGF hazards?  . Smoking and open fires prohibited?  ecurity lighting directed downward into ne work areas to prevent glare to the urrounding receivers?				Zone. Tenant has alerted workers/visitors about possible LFG hazards. A notice is also
ecurity lighting directed downward into ne work areas to prevent glare to the urrounding receivers?				
ne work areas to prevent glare to the urrounding receivers?			$\boxtimes$	
food housekeeping?	$\boxtimes$			
ny areas within the lot to be used for ecycling processes are concrete paved?	$\boxtimes$			
alid calibration certificate for any nonitoring equipment?				No monitoring equipment.
angerous Goods				
. Valid license for manufacturing / storing dangerous goods?				There were no DGs stored on site.
. Storage area in compliance with the approved plan?			$\boxtimes$	
. Storage area(s) has been securely locked?			$\boxtimes$	
. Total storage capacity in compliance with the relevant statutory requirement?				
. Proper Labelling?				
Demonstration 12				
vangerous goods properly packaged?	$\square$			
	with the relevant statutory requirement?  Proper Labelling?  Dangerous goods properly packaged?	with the relevant statutory requirement?  Proper Labelling?	with the relevant statutory requirement?  Proper Labelling?  Dangerous goods properly packaged?  Ditential stagnant pools cleared and	with the relevant statutory requirement?  Proper Labelling?  Dangerous goods properly packaged?  Detential stagnant pools cleared and



No. Action Expected By

1. No critical issues were identified. N/A

#### **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 21 June 2013

Status

1. Nil. N/A

### **Audit Summary and Sign-off**

The site was generally tidy.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	St. James	Serco Guardian JV
Signed By	Winnie MA	-	Stephen LUK	Mabel YUNG
Role	ET Site Auditor	IEC	Assistant Manager	Park Manager
Signature	Distre	-	Steph I	Lbll.



	Audit Details						
Tena	ant	St. James' Settle	ment	t			
Date	e & Time	Date 19 August	201	3		Time	11:30am
Lot	No.	EP05		_			
Aud	it Ref.	34		-			
IEC J	Joint Inspection	Yes		No			
Wea	ather Conditions	Fine		Hazy		Ove	ercast Rain
Win	d	Calm		Light Bree	ze	Stro	ong Wind
Tem	perature	30.5°C					
Hun	nidity	Low		Medium		Hig	h
	1. General						
	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant displ at entrance?	ayed on notice bo	ards	/			EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
`1.2	Environmental Poli	cy documented?					The Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Maupdated?	nagement Plan					The Tenant's EMP is documented.
1.4	a. Emergency Resp documented?	onse Plan (ERP)		$\boxtimes$			The Tenant's ERP is documented.
	b. Drill / training re	cords available?		$\boxtimes$			
1.5	Employee's training	g record available	?	$\boxtimes$			
1.6	Any record of pros	ecution / complair	nt?		$\boxtimes$		
1.7	Waste Managemen	nt Plan?		$\boxtimes$			The Tenant's WMP is documented.



# 2. Water Quality **Description** Remarks Yes N/A Valid Effluent Discharge License available? $\boxtimes$ Licence No. WT00007365-2010 2.1 valid until 31 Aug 2015. $\boxtimes$ 2.2 Any wastewater treatment facility prior to A screen has been installed as treatment device. effluent discharge? $\boxtimes$ If yes, facility is properly maintained and function normally? **Effluent Monitoring** 2.3 a. Sampling / Monitoring Record available? $\boxtimes$ As per the discharge licence, self-monitoring shall be performed when required. $\boxtimes$ b. Monitoring frequency met the license requirement? $\boxtimes$ c. Any exceedance? $\boxtimes$ d. If yes, follow-up action taken? 2.4 Surface run-off control measures in place $\boxtimes$ and adequately maintained? $\boxtimes$ 2.5 Surface run-off discharging into drainage system? X 2.6 All manholes are covered? $\boxtimes$ 2.7 Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided? $\boxtimes$ 2.8 Drainage system is well maintained to prevent flooding and overflow?



	Description	Yes	No	N/A	Remarks
.9	Processes with high Risk of Contamination a. Processes / activities are located under a covered area?			$\boxtimes$	The risk of contamination for the recycling process is low.
	b. Stop-logs installed in the perimeter drainage system for uncovered areas?		$\boxtimes$		Stop-logs are available for use by the Tenant if needed.
	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?			$\boxtimes$	No contaminated water was found.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Not observed.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?			$\boxtimes$	Not required.
	b. If yes, oil and grease removed regularly?				
	c. Collected by licensed collector?				
	Cargo Handling				
2.12	<ul> <li>a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?</li> </ul>				Not required.
	b. Materials and bulk cargo are properly packed?			$\boxtimes$	



	3. Air Quality				
	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?				Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
	Odour				
3.2	a. Any odour detected?				
	b. If yes, can the source be identified?				
	c. Odorous materials are covered?				
	d. If odour control system is installed, is it operating normally?				
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?				No dusty materials were found to be used on-site.
	Dust Monitoring				
3.4	a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?				
	c. Any exceedance?				
	d. If yes, follow-up action taken?			$\boxtimes$	
3.5	Enclosures are provided around the main dust-generating activities?			$\boxtimes$	
3.6	Open burning is avoided?	$\boxtimes$			
					,



	3. Air Quality (continued)				
3.7	Description  Dark smoke emitted from chimney or powered plant is avoided?	Yes	No	N/A	Remarks  There is no chimney installed on-site.
3.8	Vehicles and equipment are switched off while not in use?				
.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
	b. >35kg of conventional solid fuel per hour				
	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
3.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?				
.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
.12	Approval from Authority for the use of controlled refrigerant?				All relevant equipment is approved by EPD.
	b. If yes, record of refrigeration equipment service available?				Recorded by EPD.
.13	All air pollution control systems are properly maintained and function normally?				
.14	Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				Registration No. 9211-421-S3222- 08 for spent lubricating oil, unwanted refrigerant and CRTs.
4.2	Provision of sufficient waste disposal points/ receptacles?				
4.3	Waste disposed of regularly and properly?				Waste from workshop is stored in temporary area and disposed of as general refuse twice a week <i>via</i> the Operator. Chemical waste is transported to EPD's Chemical Waste Treatment Centre by licensed collector once per month.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?				Recyclable materials were passed to other recyclers.
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?				
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				
	b. Container properly closed or sealed?	$\boxtimes$			
	c. Spillage cleaned up immediately through the use of an absorbent?				No spillage.
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	Labelling of Chemical Waste				
4.8	a. Label is securely attached, clean and visible?	$\boxtimes$			
	b. Label is in proper dimension and bilingual?	$\boxtimes$			
	c. Information is accurate and sufficient?				



	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
	a. Proper "Chemical Waste" signs are displayed?				
	b. Incompatible wastes separated by an impermeable partition?				
_	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
_	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?				
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
-	f. Adequacy of area ventilation?	$\boxtimes$			
-	g. Outdoors storage area should be covered?			$\boxtimes$	
_	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	$\boxtimes$			
	Storage of Liquid Waste				
_	a. Storage area floor/surface permeation- proof?				No liquid waste was observed
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
_	c. Walls or partitions of stacked container storage area constructed of impermeable material?				



	Description	Yes	No	N/A	Remarks
.1	Landfill Gas Hazard (within LFG Consultation Zone)  a. Workers and visitors alerted to possible LGF hazards?				Lot is within LFG Consultation Zone. Tenant has alerted workers/visitors about possible LFG hazards. A notice is also posted at the visitor centre.
	b. Smoking and open fires prohibited?				
.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?			$\boxtimes$	
.3	Good housekeeping?	$\boxtimes$			
.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
.5	Valid calibration certificate for any monitoring equipment?			$\boxtimes$	No monitoring equipment.
	Dangerous Goods				
.6	a. Valid license for manufacturing / storing dangerous goods?				There were no DGs stored on site.
	b. Storage area in compliance with the approved plan?				
	c. Storage area(s) has been securely locked?			$\boxtimes$	
	d. Total storage capacity in compliance with the relevant statutory requirement?			$\boxtimes$	
	e. Proper Labelling?				
	f. Dangerous goods properly packaged?				
	Potential stagnant pools cleared and	$\square$			



No. Action Expected By

1. No critical issues were identified. N/A

## **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 24 July 2013

**Status** 

1. Nil. N/A

# **Audit Summary and Sign-off**

The site was generally tidy.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	St. James	Serco Guardian JV
Signed By	Winnie MA	-	Stephen LUK	Mabel YUNG
Role	ET Site Auditor	IEC	Assistant Manager	Park Manager
Signature	Distre	-	Molofundo Cer Marager	1611.



	Audit Details						
Ten	ant	St. James' Settle	men	t			
Date	e & Time	Date 17 Septer	nber	2013		Time	11:30am
Lot	No.	EP10-02		_			
Aud	it Ref.	35		_			
IEC .	Joint Inspection	X Yes		No			
Wea	ather Conditions	Fine		Hazy		Ove	ercast Rain
Win	d	<b>Calm</b>		Light Bree	ze	Stro	ong Wind
Tem	perature	31°C					
Hun	nidity	Low	$\boxtimes$	Medium		Hig	h
	1. General						
	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant disp at entrance?	layed on notice bo	ards	/			EP for EcoPark (EP-226/2005/C) issued on August 5 <sup>th</sup> 2013 is displayed at the entrance of EcoPark. EP for Tenant is not required.
`1.2	Environmental Pol	icy documented?					The Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Ma updated?	nagement Plan					The Tenant's EMP is documented.
1.4	a. Emergency Resp documented?	oonse Plan (ERP)					The Tenant's ERP is documented.
	b. Drill / training re	ecords available?					
1.5	Employee's trainin	g record available	?				
1.6	Any record of pros	ecution / complain	nt?		$\boxtimes$		
1.7	Waste Manageme	nt Plan?					The Tenant's WMP is documented.



2. Water Quality				
Description  Valid Effluent Discharge License available?	Yes	No	N/A	Remarks Licence No. WT00007365-2010
valid Efficient bischarge Electise dvalidable:			Ш	valid until 31 Aug 2015.
Any wastewater treatment facility prior to effluent discharge?				A screen has been installed as treatment device.
If yes, facility is properly maintained and function normally?				
Effluent Monitoring				
a. Sampling / Monitoring Record available?				As per the discharge licence, self-monitoring shall be performed when required.
b. Monitoring frequency met the license requirement?				
c. Any exceedance?			$\boxtimes$	
d. If yes, follow-up action taken?			$\boxtimes$	
Surface run-off control measures in place and adequately maintained?			$\boxtimes$	
Surface run-off discharging into drainage system?	$\boxtimes$			
All manholes are covered?	$\boxtimes$			
Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?				
	Description Valid Effluent Discharge License available?  Any wastewater treatment facility prior to effluent discharge?  If yes, facility is properly maintained and function normally?  Effluent Monitoring a. Sampling / Monitoring Record available?  b. Monitoring frequency met the license requirement?  c. Any exceedance?  d. If yes, follow-up action taken?  Surface run-off control measures in place and adequately maintained?  Surface run-off discharging into drainage system?  All manholes are covered?	Description       Yes         Valid Effluent Discharge License available?       □         Any wastewater treatment facility prior to effluent discharge?       □         If yes, facility is properly maintained and function normally?       □         Effluent Monitoring a. Sampling / Monitoring Record available?       □         b. Monitoring frequency met the license requirement?       □         c. Any exceedance?       □         d. If yes, follow-up action taken?       □         Surface run-off control measures in place and adequately maintained?       □         Surface run-off discharging into drainage system?       □         All manholes are covered?       □         Foam, oil, grease, litter or other objectionable matters in water of nearby	Description       Yes       No         Valid Effluent Discharge License available?       Image: Common of the property of	Description       Yes       No       N/A         Valid Effluent Discharge License available?       □       □         Any wastewater treatment facility prior to effluent discharge?       □       □         If yes, facility is properly maintained and function normally?       □       □         Effluent Monitoring a. Sampling / Monitoring Record available?       □       □         b. Monitoring frequency met the license requirement?       □       □         c. Any exceedance?       □       □         d. If yes, follow-up action taken?       □       □         Surface run-off control measures in place and adequately maintained?       □       □         Surface run-off discharging into drainage system?       □       □         All manholes are covered?       □       □         Foam, oil, grease, litter or other objectionable matters in water of nearby       □       □



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
2.9	Processes with high Risk of Contamination  a. Processes / activities are located under a covered area?			$\boxtimes$	The risk of contamination for the recycling process is low.
	b. Stop-logs installed in the perimeter drainage system for uncovered areas?				Stop-logs are available for use by the Tenant if needed.
	c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?				No contaminated water was found.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Not observed.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?			$\boxtimes$	Not required.
	b. If yes, oil and grease removed regularly?				
	c. Collected by licensed collector?				
	Cargo Handling				
2.12	a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				Not required.
•	b. Materials and bulk cargo are properly packed?				



	3. Air Quality				
3.1	Description  a. Valid Specified Process License for all specified process available?	Yes	No	N/A	Remarks Not required.
	b. SP License conditions / monitoring requirements met?			$\boxtimes$	
3.2	Odour a. Any odour detected?		$\boxtimes$		
	b. If yes, can the source be identified?			$\boxtimes$	
	c. Odorous materials are covered?			$\boxtimes$	
	d. If odour control system is installed, is it operating normally?				
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?			$\boxtimes$	No dusty materials were found to be used on-site.
3.4	Dust Monitoring  a. Monitoring Record available?			$\boxtimes$	Not required.
	b. Monitoring frequency met the requirement?				
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
3.5	Enclosures are provided around the main dust-generating activities?			$\boxtimes$	
3.6	Open burning is avoided?	$\boxtimes$			



	3. Air Quality (continued)				
3.7	<b>Description</b> Dark smoke emitted from chimney or powered plant is avoided?	Yes	No	N/A	Remarks  There is no chimney installed on-site.
3.8	Vehicles and equipment are switched off while not in use?	$\boxtimes$			
.9	Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:  a. >25L of conventional liquid fuel per hour			$\boxtimes$	
	b. >35kg of conventional solid fuel per hour				
	c. >1,150 MJ of any gaseous fuel per hour			$\boxtimes$	
.10	Approval from Authority is available for the use of liquid fuel with a viscosity point of ignition >30 centistokes or an equivalent viscosity?			$\boxtimes$	
.11	Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.				
.12	Approval from Authority for the use of controlled refrigerant?				All relevant equipment is approved by EPD.
	b. If yes, record of refrigeration equipment service available?				Recorded by EPD.
.13	All air pollution control systems are properly maintained and function normally?				
.14	Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
4.1	Chemical Waste Producer Registration completed?				Registration No. 9211-421-S3222- 08 for spent lubricating oil, unwanted refrigerant and CRTs.
4.2	Provision of sufficient waste disposal points/ receptacles?				
4.3	Waste disposed of regularly and properly?				Waste from workshop is stored in temporary area and disposed of as general refuse twice a week <i>via</i> the Operator. Chemical waste is transported to EPD's Chemical Waste Treatment Centre by licensed collector once per month.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?				Recyclable materials were passed to other recyclers.
4.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
4.6	Sludge is collected by a licensed collector at regular intervals?				
4.7	Packaging of Chemical Waste a. Stored in suitable container?				
4.7	a. Stored in Sultable Container:				
	b. Container properly closed or sealed?				
	c. Spillage cleaned up immediately through the use of an absorbent?				No spillage.
	d. Approval obtained for capacity of containers > 450L?				
	Labelling of Chemical Waste				
4.8	a. Label is securely attached, clean and visible?				
	b. Label is in proper dimension and bilingual?	$\boxtimes$			
	c. Information is accurate and sufficient?				
					,



	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
	a. Proper "Chemical Waste" signs are displayed?				
	b. Incompatible wastes separated by an impermeable partition?				
_	c. Containers kept in receptacle of suitable material and construction ( <i>if quantity</i> <50L) or drip trays capable of storing 110% of the volume of largest ( <i>if quantity</i> >50L)?				
	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	$\boxtimes$			
-	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?				
-	f. Adequacy of area ventilation?	$\boxtimes$			
-	g. Outdoors storage area should be covered?			$\boxtimes$	
_	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	$\boxtimes$			
	Storage of Liquid Waste				
	a. Storage area floor/surface permeation- proof?				No liquid waste was observed
-	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?				
_	c. Walls or partitions of stacked container storage area constructed of impermeable material?			$\boxtimes$	



	5. Other Issues				
	Description	Yes	No	N/A	Remarks
5.1	Landfill Gas Hazard (within LFG Consultation Zone)  a. Workers and visitors alerted to possible LGF hazards?				Lot is within LFG Consultation Zone. Tenant has alerted workers/visitors about possible LFG hazards. A notice is also posted at the visitor centre.
	b. Smoking and open fires prohibited?				
5.2	Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?				
5.3	Good housekeeping?				
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			
5.5	Valid calibration certificate for any monitoring equipment?				No monitoring equipment.
	Dangerous Goods				
5.6	a. Valid license for manufacturing / storing dangerous goods?				There were no DGs stored on site.
	b. Storage area in compliance with the approved plan?				
	c. Storage area(s) has been securely locked?				
	d. Total storage capacity in compliance with the relevant statutory requirement?				
	e. Proper Labelling?				
	f. Dangerous goods properly packaged?				
5.7	Potential stagnant pools cleared and mosquito breeding prevented?	$\boxtimes$			
					,



No. Action Expected By

1. No critical issues were identified. N/A

## **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 19 August 2013

Status

1. Nil.

# **Audit Summary and Sign-off**

The site was generally tidy.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	St. James	Serco Guardian JV
Signed By	Winnie MA	Sharifah OR	Stephen LUK	Mabel YUNG
Role	ET Site Auditor	IEC	Assistant Manager	Park Manager
Signature	Distre	Grafal	Jup (I)	Kalel.



# **APPENDIX 7**

General EcoPark Checklists for the Reporting Quarter



	Audit Details				
Date 8	& Time	Date 24 July	2013	Time 9:45am to	11:45pm
Weat	her Conditions	Fine	Hazy	Overcast	Rain
Wind		<b>⊠</b> Calm	Light Breeze	Strong Wind	
Temp	erature	26 °C			
Humi	dity	Low	Medium	High	
	Action Items fro	m This Audit			
ID	ET Findings / Re	commendation	s C	perator / Tenant Fo	llow-up Action
	Cosmos Star Ho	ldings Co.			
1.	The final test wi	ll be carried out	in August.	lil	
	K. Wah Constru	ction Products L	td.		
2.	Due to the heav unavailable and SSK Metal Ltd.	-		lil	
3.	Nil		N	lil	
	Chung Yue Stee	l Group Compar	ny Ltd.		
4.	unavailable and	no activity was		lil	
5.	E. Tech Manage Nil	ment (HK) Lta.		lil	
٥.					
6.	On Fat Lung Ele	ctrical & Metal (		lil	
0.	South China Rel	haun Dasayusas		III	
	Company Limite		(Znongshan)		
7.	Nil		N	lil	
	Other Areas				
	Nil		N	lil	



## **Follow-up from Previous Audits**

## **ID ET Findings / Recommendations**

## **Operator / Tenant Follow-up Action**

#### Cosmos Star Holdings Co.

1. The production machinery was under test.

Nil

#### K. Wah Construction Products Ltd.

2. Stagnant water was observed next to office building.

The status of this observation will be followed up in next audit.



Observed on 21 Jun 13

C&D waste was observed inside the surface channel.

The status of this observation will be followed up in next audit.





Observed on 21 Jun 13

#### SSK Metal Ltd.

3. The gate was closed during site audit and no activities were observed.

Nil

## **Chung Yue Steel Group Company Ltd.**

4. Dry haul road was observed.

The status of this observation will be followed up in next audit.

Observed on 21 Jun 13

#### E. Tech Management (HK) Ltd.

5. The gate was closed during site audit and no activities were observed.

Nil

#### On Fat Lung Electrical & Metal Co. Ltd.

6. The gate was closed during site audit and no activities were observed.



# South China Reborn Resources (Zhongshan) Company Limited

7. The gate was closed during site audit and no Nil activities were observed.

**Other Areas** 

8. Nil Nil

# **Observations and Sign-off**

No critical issues were observed.

	ET	IEC*	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Serco Guardian JV
Signed By	Winnie MA	-	Mabel YUNG
Role	ET Site Auditor	IEC	Park Manager
Signature	Division	-	Hall.



### **Audit Details** Date & Time Date 19 August 2013 Time 9:45am to 11:45pm **Fine Weather Conditions** Hazy Overcast **Rain Calm** Light Breeze Strong Wind Wind 30.5 °C **Temperature Humidity** Low Medium High **Action Items from This Audit** ID **ET Findings / Recommendations Operator / Tenant Follow-up Action** Cosmos Star Holdings Co. 1. Nil Nil K. Wah Construction Products Ltd. 2. Nil Nil SSK Metal Ltd. Nil 3. Nil **Chung Yue Steel Group Company Ltd.** 4. Nil E. Tech Management (HK) Ltd. 5. Nil Nil On Fat Lung Electrical & Metal Co. Ltd. 6. Nil South China Reborn Resources (Zhongshan) **Company Limited** 7. Nil Nil

Nil

**Other Areas** 

Nil

8.



#### **Follow-up from Previous Audits**

## **ID ET Findings / Recommendations**

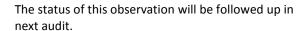
## Cosmos Star Holdings Co.

1. The production machinery was under test.

#### Nil

#### K. Wah Construction Products Ltd.

2. Stagnant water was observed next to office building.



**Operator / Tenant Follow-up Action** 



Observed on 21 June 13

C&D waste was observed inside the surface channel.





Observed on 21 June 13

SSK Metal Ltd.

#### oserveu on 21 June 1

3. The gate was closed during site audit and no activities were observed.

## Chung Yue Steel Group Company Ltd.

4. Dry haul road was observed.



Observed on 21 June 13

# E. Tech Management (HK) Ltd.

 The gate was closed during site audit and no activities were observed.

## On Fat Lung Electrical & Metal Co. Ltd.

6. The gate was closed during site audit and no activities were observed.

No C&D waste was observed inside the surface channel.



Observed on 19 August 2013

Nil

The haul road has been paved with concrete.



Observed on 19 August 2013

Nil



# South China Reborn Resources (Zhongshan) Company Limited

7. The gate was closed during site audit and no Nil activities were observed.

**Other Areas** 

8. Nil Nil

# **Observations and Sign-off**

No critical issues were observed.

	ET	IEC*	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Serco Guardian JV
Signed By	Winnie MA	-	Mabel YUNG
Role	ET Site Auditor	IEC	Park Manager
Signature	Wirks	-	Kall.



### **Audit Details** Date & Time Date 17 September 2013 Time 9:45am to 11:45pm **Fine** Rain **Weather Conditions** Hazy Overcast Light Breeze **Calm** Strong Wind Wind 31 °C **Temperature Humidity** Low **Medium** High **Action Items from This Audit** ID **ET Findings / Recommendations Operator / Tenant Follow-up Action** Cosmos Star Holdings Co. Nil Nil 1. K. Wah Construction Products Ltd. 2. Nil Nil SSK Metal Ltd. Nil 3. Nil **Chung Yue Steel Group Company Ltd.** 4. Nil E. Tech Management (HK) Ltd. 5. Nil Nil On Fat Lung Electrical & Metal Co. Ltd. 6. Nil South China Reborn Resources (Zhongshan) **Company Limited** 7. Nil Nil **Other Areas**

Nil

8.



#### **Follow-up from Previous Audits**

# ID ET Findings / Recommendations Operator / Tenant Follow-up Action

### Cosmos Star Holdings Co.

1. The production machinery was under test. Nil

#### K. Wah Construction Products Ltd.

2. Stagnant water was observed next to office building.



Observed on 21 June 13

#### SSK Metal Ltd.

3. The gate was closed during site audit and no activities were observed.

#### Chung Yue Steel Group Company Ltd.

4. Nil Nil

## E. Tech Management (HK) Ltd.

5. The gate was closed during site audit and no activities were observed.

## On Fat Lung Electrical & Metal Co. Ltd.

6. The gate was closed during site audit and no activities were observed.

# South China Reborn Resources (Zhongshan) Company Limited

7. The gate was closed during site audit and no activities were observed.

#### **Other Areas**

8. Nil Nil

# No stagnant water was not observed next to office building.



Observed on 17 September 13

Nil

Nil

Nil



## **Observations and Sign-off**

No critical issues were observed.

	ET	IEC*	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Serco Guardian JV
Signed By	Antony WONG	Keith CHAU	Mabel YUNG
Role	ET	IEC Site Auditor	Park Manager
Signature	Tuby	Des	Nabel.