



## **EM&A Report**

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

**April to June 2013** 











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**April to June 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 fifth (25<sup>th</sup>) quarterly EM&A report prepared for the operation phase of EcoPark and covers April to June 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
- 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 has suspended its recycling activities since October 2011 and did not carry out any recycling during the reporting quarter. 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	2,040	660	1,413
Waste Wood	-	-	-
WEEE	237	229	4
Waste Metals	4,388	4,388	-
Waste Plastics	1,488	952	51

**Note:** N/A = Not Applicable

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

The northern part of EcoPark is located within the 250m Landfill Gas (LFG) Consultation Zone of Shiu Lang Shui Landfill. LFG monitoring during this quarter was undertaken on 21 June 2013 at five locations (three in Phase 1 and two in Phase 2).

An exceedance of Action Level for oxygen (18%) was recorded at EP2-2, with carbon dioxide levels at 0.2%. Methane concentrations at all locations were 0%. The slightly lower level of oxygen and slightly higher level of carbon dioxide at EP2-2 may indicate natural decay of organic material in the service void, however, since no methane was detected it can be concluded that the exceedance at EP2-2 was not related to migration of LFG from Shiu Lang Shui Landfill. As such, no mitigation measures are considered necessary.

#### **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

- In the document "A Policy Framework For The Management Of Municipal Solid Waste (2005-2014)" the government set out a comprehensive policy to support the recycling industry. This included allocating suitable land, encouraging research and development, introducing environmental legislation and providing effective support measures. To this end, EcoPark is a key element that aims to promote the local recycling industry and jump-start a circular economy to provide a sustainable solution to our waste problems. By encouraging and promoting the reuse, recovery and recycling of our waste resources and returning them to the consumption loop, EcoPark will help to realise the full potential of the local recycling industry and alleviate the heavy reliance on the export of recyclable materials recovered from Hong Kong.
- 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-June 2013, there were a total of 14 tenants in EcoPark comprising:
  - Six active tenants (Champway, Shiu Wing, Li Tong, Telford, Yan Oi Tong (YOT) and St. James' Settlement) that continue to carry out full recycling operations.
  - One tenant (Hung Wai) that has suspended the operation since October 2011 and started trial operation of the new wood pellet process in June 2013.
  - 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) that 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 illustrated 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	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

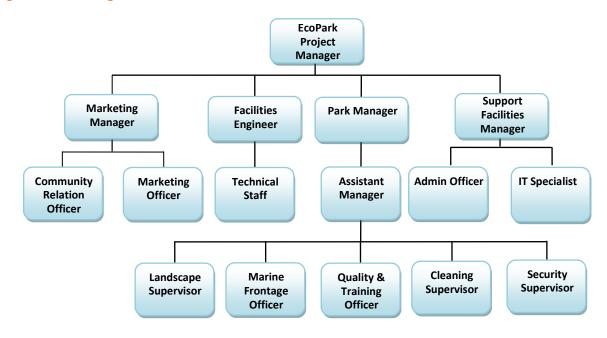
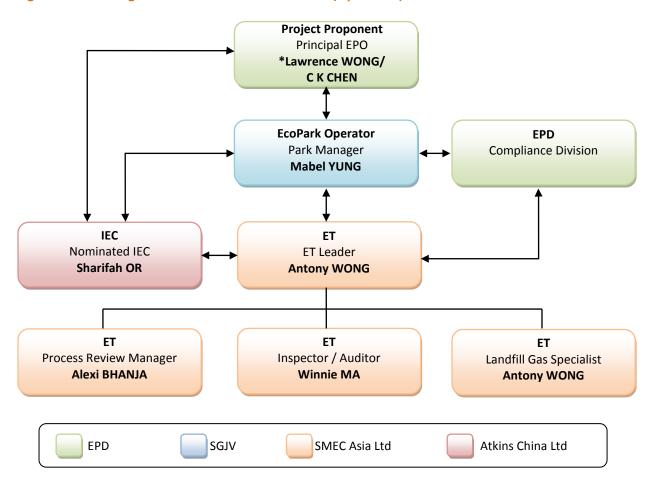


Figure 1-3 Organisation Chart of EM&A Works (Operation)



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 CO₂ 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*.



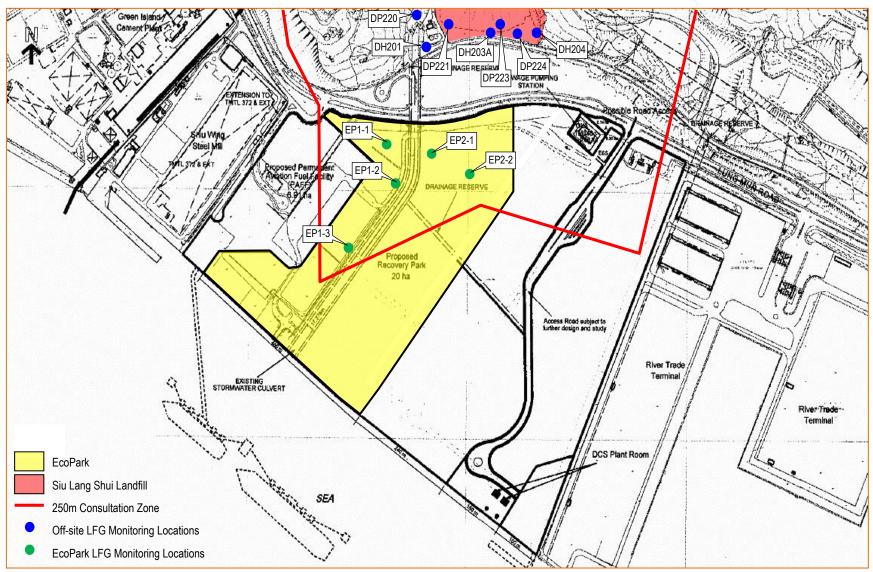
Figure 2-1 LFG Monitoring Locations within EcoPark



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. Therefore, none of the new tenants are yet onsite 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:** Shred waste wood into wooden chips for further processing in Mainland China. 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 pellet production was carried out during April 2013 and May 2013. Trial operation commenced in June 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-June 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. The WEEEs 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. Trial operations of Hung Wai's new wood pellet process started in June 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 April to June 2013

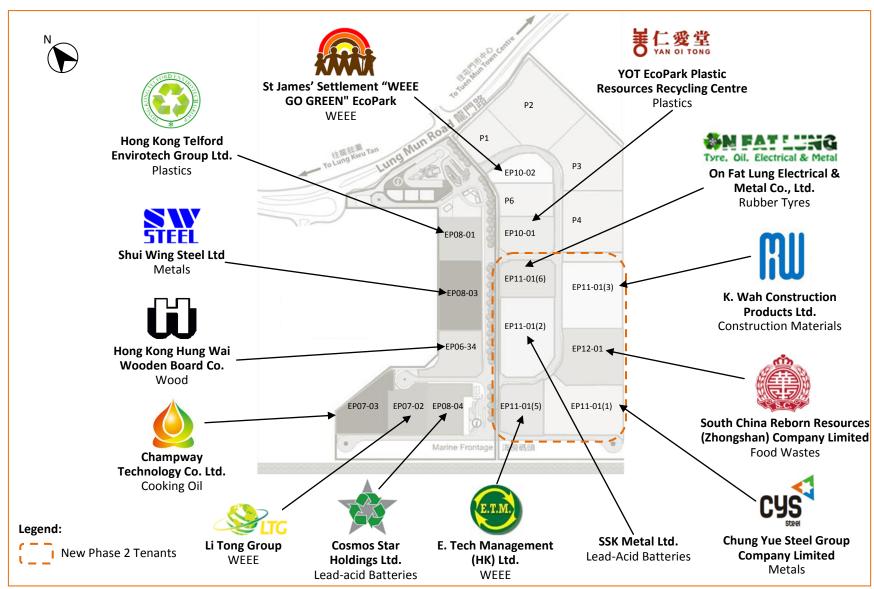
Material Type	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposed (tonnes)
Waste Oil	2,040	660	1,413
Waste Wood	-	-	-
WEEE	237	229	4
Waste Metals	4,388	4,388	-
Waste Plastics	1,488	952	51

Note: N/A = Not Applicable

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-June 2013, six tenants (Champway, Shiu Wing, Li Tong, Yan Oi Tong, Telford and St. James' Settlement) have commenced recycling activities within their lots, while Hung Wai has suspended operations since October 2011 and started trial operation of the new wood pellet process in June 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 21 June 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		10:41 - 10:44	3 minutes	31°C	Fine
EP1-2		10:25 - 10:28	3 minutes	31°C	Fine
EP1-3	21 Jun 2013	10:20 - 10:23	3 minutes	31°C	Fine
EP2-1		10:30 - 10:33	3 minutes	31°C	Fine
EP2-2		10:35 - 10:38	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 (CH <sub>4</sub> )	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
 Carbon dioxide
 Barometric pressure
 O-25% v/v
 0 -100% v/v
 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	1006	
EP1-2		0.0	0	20	0.0	1006	
EP1-3	21 Jun 2013	0.0	0	20	0.0	1006	
EP2-1		0.0	0	20	0.2	1006	
EP2-2		0.0	0	18	0.3	1006	

An exceedance of Action Level for oxygen (18%) was recorded at EP2-2, with carbon dioxide levels at 0.2%. Methane concentrations at all locations were 0%. The slightly lower level of oxygen and slightly higher level of carbon dioxide at EP2-2 may indicate natural decay of organic material in the service void, however, since no methane was detected it can be concluded that the exceedance at EP2-2 was not related to migration of LFG from Shiu Lang Shui Landfill.



## **6** SUMMARY OF TENANT AUDITS

#### 6.1 General

- 6.1.1 Cosmos and the new tenants of the first batch 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 23 April 2013, 27 May 2013 and 21 June 2013. The quarterly IEC audit was carried out on 21 June 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	Observations From Previous Reporting Quarters				
22/03/2013	Air scrubber was not operated but waste oil pumping was being carried out during the site audit	The Tenant was requested to switch on the air scrubber when needed	No waste oil pumping was observed to be carried out when the air scrubber was not operated during the site audit on 23/04/2013		
	Some activated carbon was observed inside the nearby surface channel	The Tenant was requested to clear the activated carbon and prevent this from occurring again	No activate carbon was observed inside the nearby surface channel during the site audit on 23/04/2013		
Observations	From This Reporting Quarte	er			
23/04/2013	Oil was observed at the interface between the aboveground and underground pipes adjacent to the glycerine storage tank	The Tenant was requested to properly clean up and treat the oil	The oil at the interface between aboveground and underground pipes adjacent to a glycerine storage tank was cleared during site audit on 27/05/2013		
	The Tenant was reminded to check whether there was any leakage of the pipes and repaired it as soon as possible.				
27/05/2013	No critical issues were identified				
21/06/2013	No critical issues were ide	ntified			



#### 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	Observations From Previous Reporting Quarters					
	None					
Observations	From This Reporting Quart	er				
23/04/2013	23/04/2013 No critical issues were identified					
27/05/2013	No critical issues were identified					
21/06/2013	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					
	None					
Observations	From This Reporting Quart	er				
23/04/2013	No critical issues were ide	ntified				
27/05/2013	No critical issues were ide	ntified				
21/06/2013	Dust was observed near the waste wood storage area	The tenant was requested to implement dust suppression measures	The observation will be follow up in the next quarter			
	Significant noise nuisance was observed due to equipment operation	The tenant was requested to provide acoustic measures such as barrier to mitigate noise nuisance	The observation will be follow up in the next quarter			
	Wood debris and waste were observed inside the surface channel	The tenant was requested to clear waste in the surface channel	The observation will be follow up in the next quarter			



#### 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	Observations From Previous Reporting Quarters					
	None					
Observations	From This Reporting Quart	er				
23/04/2013	23/04/2013 No critical issues were identified					
27/05/2013	No critical issues were identified					
21/06/2013	No critical issues were ide	ntified				

#### 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		
23/04/2013	23/04/2013 No critical issues were identified			
27/05/2013	No critical issues were identified			
21/06/2013	No critical issues were ide	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					
22/03/2013	Stagnant water was observed on tarpaulin sheets	The Tenant should clear the stagnant water	No stagnant water was observed on tarpaulin sheets during the site audit on 23/04/2013		



Date	Items	Comments	Status		
Observations From This	Reporting Quarter				
23/04/2013	No critical issues were identified				
27/05/2013	No critical issues were identified				
21/06/2013	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	Observations From Previous Reporting Quarters					
	None					
Observations	From This Reporting Quart	er				
23/04/2013	23/04/2013 No critical issues were identified					
27/05/2013	No critical issues were identified					
21/06/2013	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				
22/03/2013	Cosmos: Packaging materials and suspected broken tent were observed to be placed next to the surface channel of which part of them was over the channel	The tenant was reminded to clear the packaging materials and suspected broken tent	No materials blocking the surface drain were observed during the site audit on 23/04/2013 [ Closed ]		
	Chung Yue: Tyre trails were observed outside the lot	The tenant was reminded to clear the tyre trails and to thoroughly clean vehicle wheels before leaving the site	The tenant has assigned a person to clean up the trails and thoroughly clean the vehicle wheels before exiting the site during the site audit on 27/05/2013  [ Closed ]		
Observations	From This Reporting Quarte	er	(		
23/04/2013	No critical issues were ide	ntified			
27/05/2013	No critical issues were ide	ntified			
21/06/2013	<b>K.Wah:</b> Stagnant water was observed next to office building	The tenant was reminded to remove the stagnant water	The observation will be followed up in next audit		
	<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.	The observation will be followed up in next audit		
	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 observation will be followed up in next audit		



## 8 COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

8.1.1 As of end-June 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 fifth (25<sup>th</sup>) quarterly EM&A report prepared for the operation phase of EcoPark and covers April to June 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 April to June 2013

Material Type	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposed (tonnes)
Waste Oil	2,040	660	1,413
Waste Wood	-	-	-
WEEE	237	229	4
Waste Metals	4,388	4,388	-
Waste Plastics	1,488	952	51

Note: N/A = Not Applicable

- 9.1.4 LFG monitoring during this quarter was undertaken on 21 June 2013 at five locations (three in Phase 1 and two in Phase 2).
- 9.1.5 Exceedance of Action Level of oxygen was recorded at EP2-2, while other parameters including methane and carbon dioxide at all monitoring locations were below Action/ Limit Levels. The low level of oxygen and high level of carbon dioxides at EP2-2 indicate the result of oxygen consumption by naturally decaying plant/organic litter deposited in sewers. Since both methane and carbon dioxide remained within the normal range, thus, it is concluded that the exceedance was not related to migration of LFG from Shiu Lang Shui Landfill. As such, no mitigation measures are considered necessary.
- 9.1.6 Numbers of complaints, summons and successful prosecutions in the reporting quarter are summarised below:

• **Complaints:** Zero.

• Summons: Zero.

• Successful Prosecutions: Zero.

9.1.7 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>			



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
		<ul> <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>			
		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	ıs				
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				
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 2008	130	-	-
Jan-Dec 2009	2,003	-	140
Jan-Dec 2010	2,494	2,006	337
Jan-Dec 2011	9,492	2,453	5,564
Jan-Dec 2012	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

Note: Throughput data for January to March 2013 have been updated.

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	-



**Recycling of Waste Wood** Table A3-3

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	-	-	-

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



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



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.

103812EN130591

#### 

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

EP2-1 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

21/06/2013

Test method used

Measured by Infra Red Gas Analyser GA94A

#### Results:

	Sampling	Sampling	Barometric	Meth	nane	Carbon dioxide,	Oxygen,	
	location	time	pressure, mbar	%v/v	%LEL	%v/v	%v/v	
	EP1-1	10:41	1006	0.0	0	0.0	19.7	
	EP1-2	10:25	1006	0.0	0	0.0	20.0	
	EP1-3	10:20	1006	0.0	0	0.0	20.3	
[	EP2-1	10:30	1006	0.0	0	0.2	19.7	
	EP2-2	10:35	1006	0.0	0	0.3	18.4	

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

Date

\*\* End of Report \*\*

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

# FUGRO TECHNICAL SERVICES LIMITED

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# 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 (CH₄)	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. 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 -

Jun-2013

							Measurement 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
				(==9:==)			% 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			31	10:41	10:44	0.0	0	20	0.0	1006							Nil
	PCCW below-ground chamber outside Lot EP08-01			31	10:25	10:28	0.0	0	20	0.0	1006							Nil
	HGC Broadband below-ground chamber outside Lot EP08-03	21 Jun 13	Fine	31	10:20	10:23	0.0	0	20	0.0	1006	> 10	< 19	> 0.5	> 20	< 18	> 1.5	Nil
	HGC Broadband below-ground chamber outside Lot P1			31	10:30	10:33	0.0	0	20	0.2	1006							Nil
	HGC Broadband below-ground chamber outside Lot P3			31	10:35	10:38	0.0	0	18	0.3	1006							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

	Methane (% LEL)			Oxyge	n (% 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
20 Jun 12	6	10	20	21	19	18	0.0	0.5	1.5	995
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

# EP1-2

	Methan	.)	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
20 Jun 12	4	10	20	20	19	18	0.2	0.5	1.5	995
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

### EP1-3

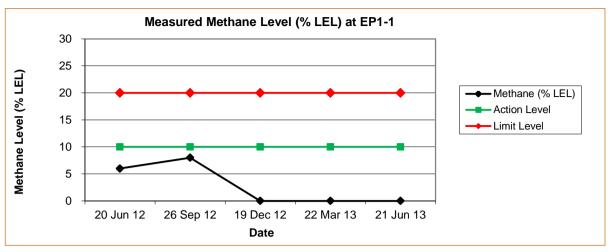
	Methane (% LEL)				en (% v/v)		Carbon Dioxide (% v/v)			Barometric Pressure (mBar)
Date	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement
20 Jun 12	4	10	20	20	19	18	0.0	0.5	1.5	995
26 Sep 12	6	10	20	21	19	18	0.0	0.5	1.5	1007
19 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

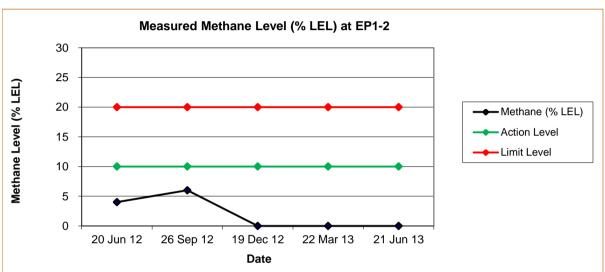
# EP2-1

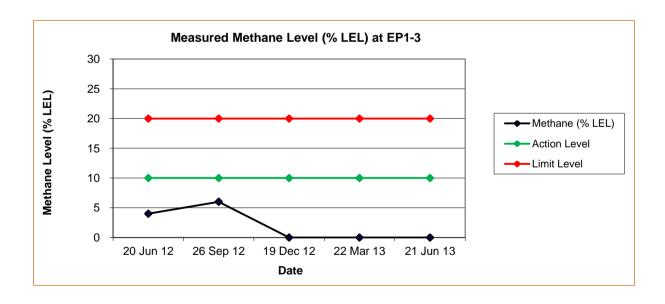
	Methane (% LEL)			Oxygen (% v/v)			Carbon Dioxide (% v/v)			Barometric Pressure (mBar)
Date	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement
20 Jun 12	6	10	20	21	19	18	0.0	0.5	1.5	995
26 Sep 12	8	10	20	21	19	18	0.0	0.5	1.5	1006
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

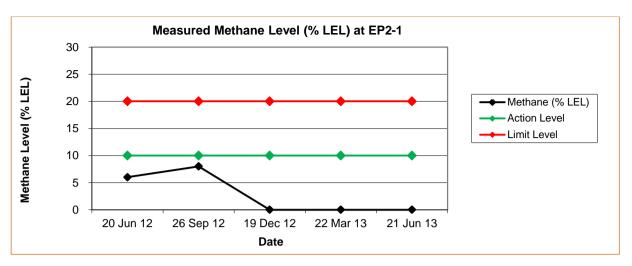
# EP2-2

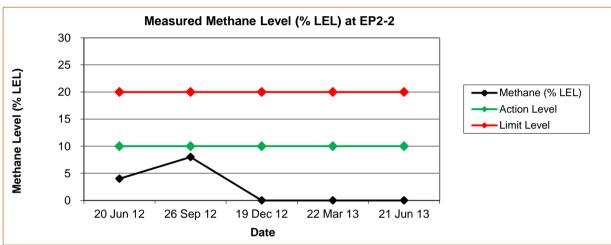
	Methane (% LEL)			Oxygen (% v/v)			Carbon Di	oxide (%	v/v)	Barometric Pressure (mBar)
Date	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement	Action Level	Limit Level	Measurement
20 Jun 12	4	10	20	20	19	18	0.0	0.5	1.5	994
26 Sep 12	8	10	20	21	19	18	0.0	0.5	1.5	1006
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

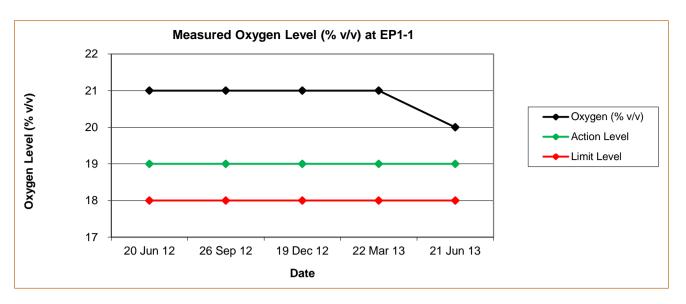


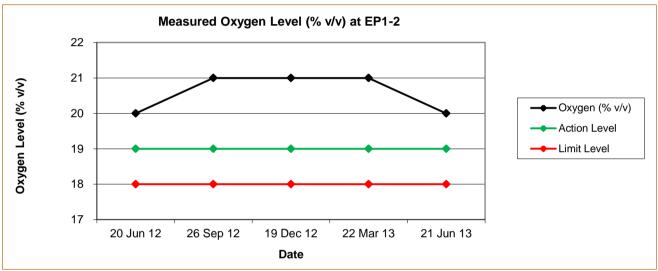


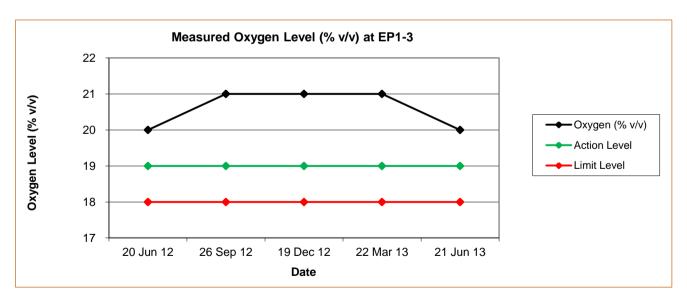


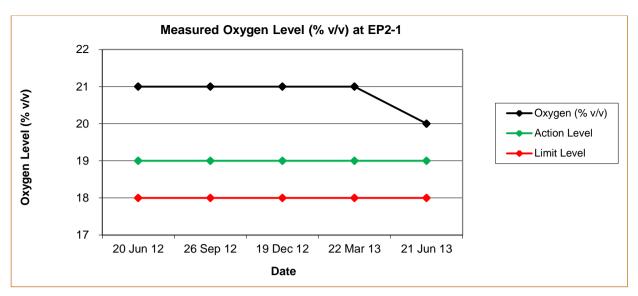


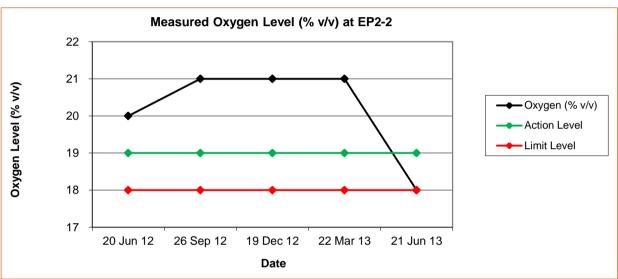


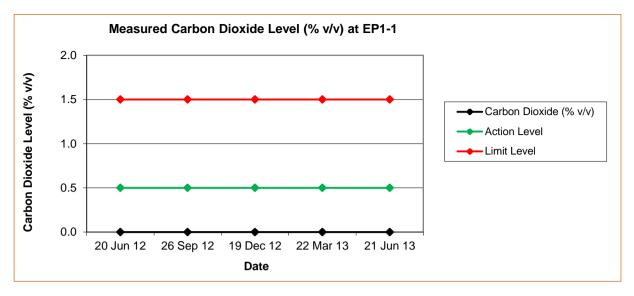


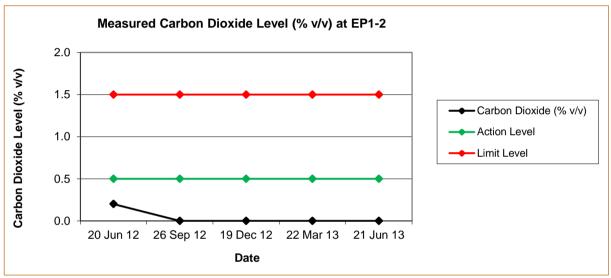


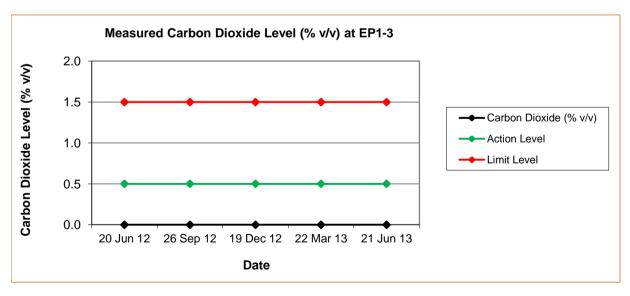


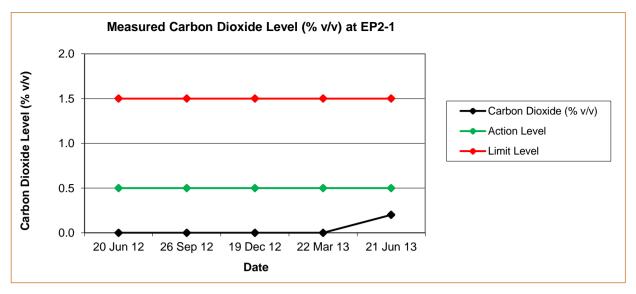


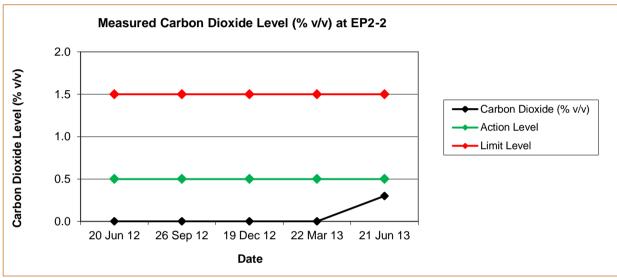


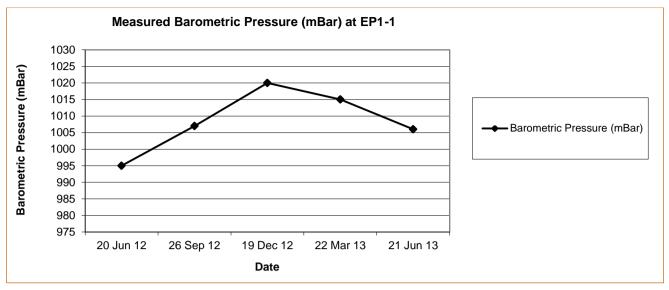


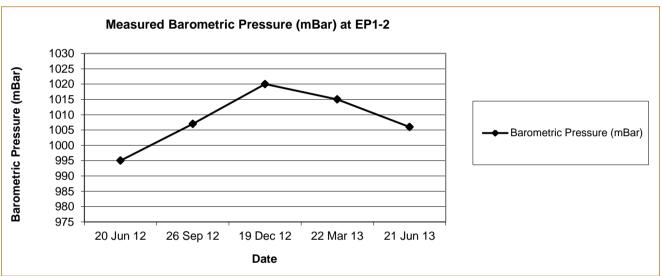


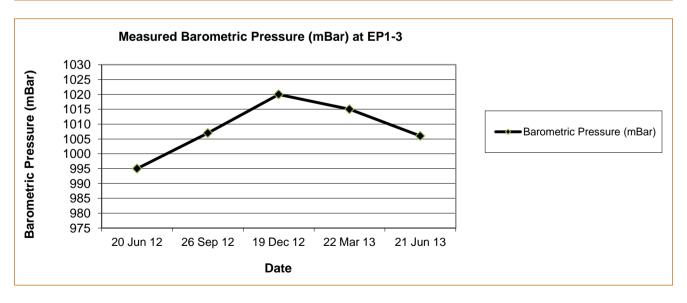


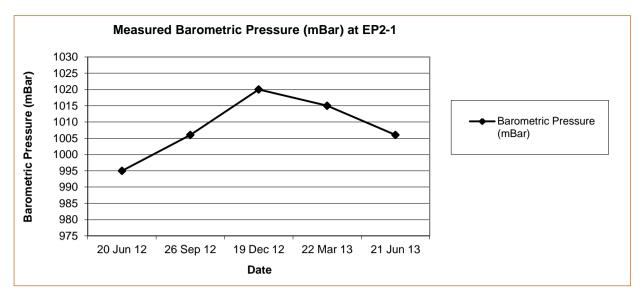


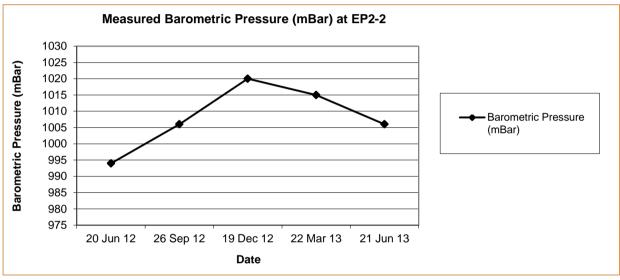














Tenant-specific Audit Checklists for the Reporting Quarter



# **APPENDIX 6-1**

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

Champway Technology Ltd.



	Audit Details						
Ten	ant	Champway Tech	nolo	gy Ltd			
Dat	e & Time	Date 23 April 20	013			Tin	ne 10:50am
Lot	No.	EP07-03		_			
Aud	lit Ref.	30		_			
IEC	Joint Inspection	Yes	$\boxtimes$	No			
We	ather Conditions	Fine		Hazy		$\boxtimes$	Overcast Rain
Win	ıd	<b>Calm</b>		Light Bre	eze		Strong Wind
Ten	nperature	23 °C					
Hur	nidity	Low		Medium			High
1.1 1.2 1.3	Description EP for Tenant displate entrance? Environmental Political Environmental Manupdated?  a. Emergency Resp documented? b. Drill / training responses	cy documented?  nagement Plan  onse Plan (ERP)	ards	Yes /	No	N/A	Remarks  EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.  Operator's Environmental Policy is documented. Tenant follows this.  Operator's ERP is documented. Tenant follows this.
1.5	Employee's training  Any record of prose						Tenant keeps a training record for BPI.
1.7	Waste Managemer	nt Plan?					Operator's WMP is documented. Tenant follows this.



2. Water Quality				
Description	Yes	No	N/A	Remarks
Valid Effluent Discharge License available?				Licence No. WT00004430-2009 valid until 31 July 2014.
Any wastewater treatment facility prior to effluent discharge?				Oil interceptor & grease trap.
If yes, facility is properly maintained and function normally?	$\boxtimes$			
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?				
				,
	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?	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 Yes No   Valid Effluent Discharge License available? Image:	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       □       □       □       □         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       □       □       □



	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>				
	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?				
	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>				
	b. Materials and bulk cargo are properly packed?				



# 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? $\square$ 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? $\square$ $\square$ $\square$ 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? 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			$\boxtimes$	
	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?				
1.3	Waste disposed of regularly and properly?				2-3 times a week.
1.4	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?				
1.6	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?	$\boxtimes$			



	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)?			$\boxtimes$	
	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?				
	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?			$\boxtimes$	
	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?			$\boxtimes$	
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?			$\boxtimes$	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?	$\boxtimes$			,
	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?				



#### No. Action Expected By

1. Oil was observed at the interface between the aboveground and underground pipes adjacent to a glycerine storage tank. The Tenant was immediately advised to check whether there was any leakage of the pipes. If yes, the pipes should be repaired ASAP. The observed oil should be properly cleaned up and treated.

30 Apr 2013



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

1.

#### No. Follow-up from Previous Audit Dated 22 March 2013

Air scrubber was in operation during the site visit.



Observed on 22 March 2013



Observed on 23 April 2013

2 The surface channel was generally clean.



**Status** 

Closed



Observed on 22 March 2013



Observed on 23 April 2013



### **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	-	Allen ZHOU	Mabel YUNG
Role	ET Leader	-	Managing Director	Park Manager
Signature	Aubry	-	Milade	Kalel.



	Audit Details						
Ten	ant	Champway Tech	nolo	gy Ltd			
Date	e & Time	Date 27 May 2	013			Tin	ne <u>10:10am</u>
Lot	No.	EP07-03		_			
Aud	it Ref.	31		_			
IEC .	Joint Inspection	Yes		No			
Wea	ather Conditions	Fine		Hazy		$\boxtimes$	Overcast Rain
Win	d	Calm		Light Bre	eze		Strong Wind
Tem	perature	<u>27</u> °C					
Hun	nidity	Low		Medium			High
1.1 1.2 1.3	Description EP for Tenant displatentrance? Environmental Polifer Environmental Manupdated?  a. Emergency Resp documented?	cy documented?	ards ,		No .	N/A	Remarks  EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.  Operator's Environmental Policy is documented. Tenant follows this.  Operator's ERP is documented. Tenant follows this.
	b. Drill / training re	cords available?			$\boxtimes$		Tenant does not keep records for ERP training.
1.5	Employee's training	g record available	?	$\boxtimes$			Tenant keeps a training record for BPI.
1.6	Any record of pros	ecution / complain	nt?		$\boxtimes$		
1.7	Waste Managemen	nt Plan?					Operator's WMP is documented. Tenant follows this.



	2. Water Quality		
	Description	Ves No N/A	Domonico
.1	<b>Description</b> Valid Effluent Discharge License available?	Yes No N/A	Licence No. WT00004430-2009 valid until 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		
.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?		
.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?		
		$\boxtimes$ $\square$ $\square$	



	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>				
-	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.
.0	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.
.1	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				
2	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?				



# 3. Air Quality **Description** Yes No N/A Remarks a. Valid Specified Process License for all SP No. L-25-017 (1). 3.1 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? $\square$ 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? $\square$ $\square$ $\square$ 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? 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?				
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?	$\boxtimes$			
1.3	Waste disposed of regularly and properly?	$\boxtimes$			2-3 times a week.
1.4	Sorting of materials on-site for reuse or disposal to designated outlet?				
1.5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?	$\boxtimes$			
1.6	Sludge is collected by a licensed collector at regular intervals?	$\boxtimes$			
	Packaging of Chemical Waste				
1.7	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				
1.8	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	ued)			
	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?				
	f. Adequacy of area ventilation?			$\boxtimes$	
	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)				No collection.
4.11	Storage of Liquid Waste  a. Storage area floor/surface permeation-proof?			$\boxtimes$	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?				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?				
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.

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

### No. Follow-up from Previous Audit Dated 23 April 2013

**Status** 

1. Oil observed at the interface between the aboveground and underground pipes adjacent to a glycerine storage tank were cleared. .

Closed







Observed on 27 May 2013

# 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	-	Managing Director	Park Manager
Signature	Division		Degi pp.	rall



	Audit Details				
Ten	ant	Champway Technology Ltd			
Date	e & Time	<b>Date</b> 21 June 2013	_	Time 10:10am	
Lot	No.	EP07-03			
Aud	lit Ref.	32			
IEC .	Joint Inspection	∑ Yes			
Wea	ather Conditions	∑ Fine ☐ Hazy		Overcast Rain	
Win	d		Breeze	Strong Wind	
Tem	perature	<u>31</u> °C			
Hun	nidity	Low Medi	um	High	
	1. General				
	Description	_	es No I	N/A Remarks	
1.1	EP for Tenant displ at entrance?	ayed on notice boards /		EP for EcoPark (EP-226/2005, displayed at the entrance of EP for Tenant is not required.	EcoPark.
1.2	Environmental Poli	cy documented?		Operator's Environmental Po documented. Tenant follows	-
1.3	Environmental Maupdated?	nagement Plan			
1.4	a. Emergency Resp documented?	onse Plan (ERP)		Operator's ERP is documente follows this.	d. Tenant
	b. Drill / training re	cords available?		Tenant does not keep records training.	s for ERP
1.5	Employee's training	g record available?		Tenant keeps a training recor	d for BPI.
1.6	Any record of pros	ecution / complaint?			
1.7	Waste Managemen	nt Plan?		Operator's WMP is document Tenant follows this.	ted.



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



	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?		$\boxtimes$		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.
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.
.1	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	<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 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?				
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?				
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?			$\boxtimes$	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?				
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?				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?				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?	$\boxtimes$			
	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. N/A

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

No. Follow-up from Previous Audit Dated 27 May 2013

**Status** 

1. Nil N/A

### **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	Lily LIU	Allen ZHOU	Mabel YUNG
Role	ET Leader	IEC Site Auditor	Managing Director	Park Manager
Signature		Brondel	Jugu 18	Mall.



# **APPENDIX 6-2**

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

Shiu Wing Steel Ltd.



	Audit Details			
Te	enant	Shiu Wing Steel Limite	ed	
Da	ate & Time	<b>Date</b> 23 April 2013		Time 9:45am
Lo	ot No.	EP08-03		
A	udit Ref.	31		
IE	C Joint Inspection	∑ Yes □	No	
W	eather Conditions	Fine	Нагу	Overcast Rain
W	/ind	⊠ Calm	Light Breeze	Strong Wind
Te	emperature	<u>23</u> °C		
Н	umidity	Low	Medium	High
1.1		layed on notice boards /		N/A Remarks  EP for EcoPark (EP-226/2005/A) is
	at entrance?			displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Pol	icy documented?		The Tenant is going to integrate the Environmental Policy into their Safety Operations Manual soon.
1.3	Environmental Ma updated?	nagement Plan		The Tenant is going to integrate the EMP into their Safety Operations Manual soon.
1.4	a. Emergency Resp documented?	oonse Plan (ERP)		The ERP has been included in the Tenant's Safety Operations Manual.
	b. Drill / training re	ecords 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 / complaint?		
1.7	Waste Manageme	nt Plan?		Operator's WMP is documented.



4	Description	Yes No N/A	
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?		
•	a. Sampling / Monitoring Record available:		
	b. Monitoring frequency met the license requirement?		
	c. Any exceedance?		
	d. If yes, follow-up action taken?		
ļ	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?		
3	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?				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?			$\boxtimes$	
2.12	Cargo Handling  a. Cargo Handling Guideline available and			$\boxtimes$	Not required.
	followed to minimise chance of accidental spillage when loading or unloading?			لائے	
	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 $\square$ $\square$ $\boxtimes$ $\boxtimes$ b. Monitoring frequency met the requirement? $\sqcap$ $\sqcap$ $\boxtimes$ c. Any exceedance? $\sqcap$ $\sqcap$ $\boxtimes$ d. If yes, follow-up action taken? 3.5 Enclosures are provided around the main dust-generating activities? 3.6 Open burning is avoided?



	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?	



	Description	Yes	No	N/A	Remarks
	Chemical Waste Producer Registration completed?				Registration No. 3839-421-S3054-02 for spent lubricating oil.
	Provision of sufficient waste disposal points/ receptacles?	$\boxtimes$			
•	Waste disposed of regularly and properly?	$\boxtimes$			The municipal waste is disposed of daily <i>via</i> the Operator.
	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?	$\boxtimes$			
	Sludge is collected by a licensed collector at regular intervals?			$\boxtimes$	
	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?			$\boxtimes$	
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	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?	$\Box$		$\boxtimes$	



	4. Waste / Chemical Management (continu	ied)			
	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?				
	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?				
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?			$\boxtimes$	



# 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? $\square$ $\square$ $\boxtimes$ 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 $\square$ 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 $\square$ $\square$ $\square$ 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? $\square$ $\square$ $\boxtimes$ e. Proper Labelling? f. Dangerous goods properly packaged? $\boxtimes$ 5.7 Potential stagnant pools cleared and $\square$ mosquito breeding prevented?



No. Action Expected by

1. No critical issues were identified.

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

No. Follow-up from Previous Audit Dated 22 March 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	Antony WONG	-	Alex WAI	Mabel YUNG
Role	ET Leader	-	Manager	Park Manager
Signature	Auby	-	Dro	Kalel.



	Audit Details		
Te	nant	Shiu Wing Steel Limi	red
Da	ate & Time	<b>Date</b> 27 May 2013	Time 9:30am
Lo	t No.	EP08-03	_
Αι	udit Ref.	32	_
IE	C Joint Inspection	Yes	No
W	eather Conditions	Fine	Hazy Overcast Rain
W	ind	⊠ Calm	Light Breeze Strong Wind
Te	mperature	27_°C	
Hu	umidity	Low	Medium High
11	1. General  Description	lound on notice boards	Yes No N/A Remarks
1.1	at entrance?	layed on notice boards	/ EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark.  EP for Tenant is not required.
1.2	Environmental Pol	icy documented?	The Tenant is going to integrate the Environmental Policy into their Safety Operations Manual soon.
1.3	Environmental Ma updated?	nagement Plan	The Tenant is going to integrate the EMP into their Safety Operations Manual soon.
1.4	a. Emergency Resp documented?	oonse Plan (ERP)	The ERP has been included in the Tenant's Safety Operations Manual.
	b. Drill / training re	ecords 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 / complaint?	
1.7	Waste Manageme	nt Plan?	Operator's WMP is documented.



	Description	Yes No N/A	
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?		
	Effluent Monitoring		
3	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?			$\boxtimes$	No contaminated water was found.
.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.
.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				
.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?	
8.11	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?	
.13	All air pollution control systems are properly maintained and function normally?	Not yet installed.
8.14	Only Ultra-Low Sulphur Diesel is used?	



	4. Waste / Chemical Management		
•	Description	Yes No N/A Remarks	20 424 52054 02
4.1	Chemical Waste Producer Registration completed?	Registration No. 38 for spent lubricatin	
4.2	Provision of sufficient waste disposal points/ receptacles?		
4.3	Waste disposed of regularly and properly?	The municipal wast daily via the Opera	
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	ied)			
	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?				
	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?				
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?			$\boxtimes$	



# 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? $\square$ $\square$ $\boxtimes$ 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 $\square$ 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 $\square$ $\square$ $\square$ 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? $\square$ $\square$ $\boxtimes$ e. Proper Labelling? f. Dangerous goods properly packaged? $\boxtimes$ 5.7 Potential stagnant pools cleared and $\square$ mosquito breeding prevented?



No. Action Expected by

1. No critical issues were identified.

N/A

# **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 23 April 2013

**Status** 

N/A

1. Nil.

#### **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	-	Manager	Park Manager
Signature	Division	-	XVo	LOSS.



	Audit Details	
Ten	ant	Shiu Wing Steel Limited
Dat	e & Time	Date         21 June 2013         Time         9:30am
Lot	No.	EP08-03
Aud	lit Ref.	33
IEC	Joint Inspection	∑ Yes
We	ather Conditions	Fine  Overcast Rain
Win	nd	
Ten	nperature	31 °C
Hur	nidity	
1.1	1. General  Description  EP for Tenant displ	Yes No N/A Remarks  ayed on notice boards /
1.1	at entrance?	displayed at the entrance of EcoPark.  EP for Tenant is not required.
1.2	Environmental Poli	The Tenant is going to integrate the Environmental Policy into their Safety Operations Manual soon.
1.3	Environmental Madupdated?	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?
1.5	Employee's training	record available?
1.6	Any record of prose	ecution / complaint?
1.7	Waste Managemer	ot Plan?



2. Water Quality	
Description	Yes No N/A Remarks
Valid Effluent Discharge License available?	No wastewater is generated from the recycling process.
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 prevent flooding and overflow?	
	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



	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?				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?			$\boxtimes$	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?			$\boxtimes$	
	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? 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 $\square$ $\square$ $\boxtimes$ b. Monitoring frequency met the $\boxtimes$ requirement? $\sqcap$ $\sqcap$ $\boxtimes$ c. Any exceedance? $\sqcap$ $\sqcap$ $\boxtimes$ d. If yes, follow-up action taken? Enclosures are provided around the main $\sqcap$ $\sqcap$ $\boxtimes$ 3.5 dust-generating activities? $\boxtimes \square \square$ 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?			
.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			
-	b. >35kg of conventional solid fuel per hour			
-	c. >1,150 MJ of any gaseous fuel per hour			
.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.			Not yet installed.
.12	a. Approval from Authority for the use of controlled refrigerant?			
-	b. If yes, record of refrigeration equipment service available?			
.13	All air pollution control systems are properly maintained and function normally?			Not yet installed.
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	ied)			
	Description	Yes	No	N/A	Remarks
9	Storage of Chemical Waste a. Proper "Chemical Waste" signs are displayed?			$\boxtimes$	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?			$\boxtimes$	
0	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				No on-site storage.
1	Storage of Liquid Waste  a. Storage area floor/surface permeation-proof?			$\boxtimes$	No on-site storage.
-	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 **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. $\square$ $\square$ $\square$ 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 $\square$ $\square$ $\square$ 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

1. No critical issues were identified.

N/A

# **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 27 May 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	Sharifah OR	Alex WAI	Mabel YUNG	
Role	ET Site Auditor	IEC	Manager	Park Manager	
Signature	Diraco	Burkel	Die	Malf:	



# **APPENDIX 6-3**

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

Hong Kong Hung Wai Wooden Board Co.



	Audit Details						
Ten	ant	Hong Kong Hun	g Wai W	/ooden E	Board	Compar	ny
Dat	e & Time	Date 23 April 2	2013			Time	10:00am
Lot	No.	EP06-034					
Auc	lit Ref.	29					
IEC	Joint Inspection	Yes	N	0			
We	ather Conditions	Fine	П н	azy		⊠ Ove	ercast Rain
Wir	nd	<b>⊠</b> Calm	Li	ght Bree	ze	Stro	ong Wind
Ten	nperature	23 °C					
Hur	midity	Low	× M	ledium		Hig	h
	1. General						
	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant disp at entrance?	olayed on notice bo	oards /				EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Po	licy documented?					Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Ma updated?	anagement Plan					
1.4	a. Emergency Res documented?	ponse Plan (ERP)				$\boxtimes$	Operator's ERP is documented. Tenant follows this.
	b. Drill / training r	ecords available?					Training has been provided but the records are not available.
1.5	Employee's training	ng record available	2?			$\boxtimes$	Training has been provided but the records are not available.
1.6	Any record of pro	secution / complai	nt?		$\boxtimes$		
1.7	Waste Manageme	ent Plan?				$\boxtimes$	Operator's WMP is documented



	2. Water Quality				
	Description	Yes	No	N/A	Remarks
2.1	Valid Effluent Discharge License available?				No wastewater is generated from the recycling process.
2.2	Any wastewater treatment facility prior to effluent discharge?			$\boxtimes$	
	If yes, facility is properly maintained and function normally?			$\boxtimes$	
	Effluent Monitoring				
2.3	a. Sampling / Monitoring Record available?				
	b. Monitoring frequency met the license requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
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?		$\boxtimes$		



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>				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?				
	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?  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 with high Risk of Contamination 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?  Cargo Handling  a. 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	Processes with high Risk of Contamination 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?  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



	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?		$\boxtimes$		
	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?			$\boxtimes$	
3.5	Enclosures are provided around the main dust-generating activities?				No recycling process was carried out.
3.6	Open burning is avoided?	$\boxtimes$			



	3. Air Quality (continued)				
2.7	<b>Description</b>	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:			$\boxtimes$	
	a. >25L of conventional liquid fuel per hour	_			
	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.				No recycling process was carried out.
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?			$\boxtimes$	No recycling process was carried out.
3.14	Only Ultra-Low Sulphur Diesel is used?				No recycling process was carried out.



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
1	Chemical Waste Producer Registration completed?				Not required.
2	Provision of sufficient waste disposal points/ receptacles?			$\boxtimes$	No recycling process was carrie out.
3	Waste disposed of regularly and properly?			$\boxtimes$	No recycling process was carrie out.
1	Sorting of materials on-site for reuse or disposal to designated outlet?			$\boxtimes$	No recycling process was carrie out.
5	Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?				
ō	Sludge is collected by a licensed collector at regular intervals?			$\boxtimes$	
	Packaging of Chemical Waste				
7	a. Stored in suitable container?				No recycling process was carrie out.
	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				
3	<ul><li>a. Label is securely attached, clean and visible?</li></ul>				No recycling process was carrie out.
	b. Label is in proper dimension and			$\boxtimes$	
	bilingual?				



	4. Waste / Chemical Management (continu	ied)			
	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 recycling process was carried out.
	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)				No recycling process was carried out.
•	Storage of Liquid Waste				
4.11	a. Storage area floor/surface permeation- proof?				No recycling process was carried out.
	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
	Landfill Gas Hazard (within LFG Consultation Zone)			$\boxtimes$	Outside the LFG Consultation
.1	a. Workers and visitors alerted to possible LGF hazards?				Zone.
	b. Smoking and open fires prohibited?				
.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				
.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?				
	e. Proper Labelling?			$\boxtimes$	
	f. Dangerous goods properly packaged?				



No. Action Expected By

1. No critical issues were identified.

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

No. Follow-up from Previous Audit Dated 22 March 2013

**Status** 

Nil

1. Nil.

# **Audit Summary and Sign-off**

The Tenant's operation is temporarily suspended. Lots of waste wood were accumulated in the site and new building structure was being constructed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Hung Wai	Serco Guardian JV
Signed By	Antony WONG	-	Mr CHEUNG	Mabel YUNG
Role	ET Leader	-	General Manager	Park Manager
Signature	Tubus	-	abry	Kalel.



	Audit Details						
Ten	ant	Hong Kong Hung	g Wai	i Wooden Bo	ard	Compan	ny
Date	e & Time	Date 27 May 2	013			Time	9:40am
Lot	No.	EP06-034		_			
Aud	it Ref.	30		_			
IEC .	Joint Inspection	Yes	$\boxtimes$	No			
Wea	ather Conditions	Fine		Hazy		∑ Ove	ercast Rain
Win	d	<b>⊠</b> Calm		Light Breeze	9	Stro	ong Wind
Tem	perature	27 °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/A) 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)				$\boxtimes$	Operator's ERP is documented. Tenant follows this.
	b. Drill / training re	ecords available?					Training has been provided but the records are not available.
1.5	Employee's trainin	g record available	?				Training has been provided but the records are not available.
1.6	Any record of pros	ecution / complai	nt?		$\boxtimes$		
1.7	Waste Manageme	nt Plan?				$\boxtimes$	Operator's WMP is documented. Tenant follows this.



	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?			$\boxtimes$	
	If yes, facility is properly maintained and function normally?			$\boxtimes$	
2.3	Effluent Monitoring a. Sampling / Monitoring Record available?			$\boxtimes$	
	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 prevent flooding and overflow?		$\boxtimes$		



	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 observed.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				No oil/lubricant was observed.
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?				
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?				



	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?			$\boxtimes$	
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?		$\boxtimes$		
	Dust Monitoring				
3.4	a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
3.5	Enclosures are provided around the main dust-generating activities?			$\boxtimes$	No recycling process was carried out.
3.6	Open burning is avoided?	$\boxtimes$			



	3. Air Quality (continued)				
3.7	Description  Dark smoke emitted from chimney or	Yes	No	N/A	Remarks  There is no chimney installed on-site.
3.8	vehicles and equipment are switched off while not in use?	$\boxtimes$			on-site.
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.				No recycling process was carried out.
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?			$\boxtimes$	No recycling process was carried out.
3.14	Only Ultra-Low Sulphur Diesel is used?			$\boxtimes$	No recycling process was carried out.



	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?			$\boxtimes$	No recycling process was carried out.
4.3	Waste disposed of regularly and properly?			$\boxtimes$	No recycling process was carried out.
4.4	Sorting of materials on-site for reuse or disposal to designated outlet?			$\boxtimes$	No recycling process was carried out.
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?			$\boxtimes$	
	Packaging of Chemical Waste				
4.7	a. Stored in suitable container?				No recycling process was carried out.
	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				
4.8	a. Label is securely attached, clean and visible?				No recycling process was carried out.
	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				
1.9	a. Proper "Chemical Waste" signs are displayed?			$\boxtimes$	No recycling process was carried out.
	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)				No recycling process was carried out.
•	Storage of Liquid Waste				
.11	a. Storage area floor/surface permeation- proof?				No recycling process was carried out.
•	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?				
	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. Nil

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

No. Follow-up from Previous Audit Dated 23 April 2013

**Status** 

1. Nil.

# **Audit Summary and Sign-off**

The Tenant's operation is temporarily suspended. Lots of waste wood were accumulated in the site and new building structure was being constructed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Hung Wai	Serco Guardian JV
Signed By	Winnie MA	-	Mr CHEUNG	Mabel YUNG
Role	ET Site Inspector	-	General Manager	Park Manager
Signature	Division	-	Weny	KALL



	Audit Details						
Ten	nant	Hong Kong Hung	Wai	i Wooden E	Board	Compan	ıy
Dat	e & Time	Date 21 June 2	2013			Time	9:40am
Lot	No.	EP06-034					
Aud	dit Ref.	31		_			
IEC	Joint Inspection	<b>∑</b> Yes		No			
We	ather Conditions	Fine		Hazy		Ove	ercast Rain
Wir	nd	<b>⊠</b> Calm		Light Bree	ze	Stro	ong Wind
Ten	nperature	31 °C					
Hur	midity	Low		Medium		Hig	h
	1. General						
	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant displ at entrance?	ayed on notice boa	ards	/			EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Poli	icy 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)				$\boxtimes$	Operator's ERP is documented. Tenant follows this.
	b. Drill / training re	ecords available?				$\boxtimes$	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	t?		$\boxtimes$		
1.7	Waste Managemer	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?				
	If yes, facility is properly maintained and function normally?				
3	Effluent Monitoring a. Sampling / Monitoring Record available?			$\boxtimes$	
	b. Monitoring frequency met the license requirement?				
	c. Any exceedance?			$\boxtimes$	
	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?	$\boxtimes$			
7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	$\boxtimes$			
.8	Drainage system is well maintained to prevent flooding and overflow?		$\boxtimes$		



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?			$\boxtimes$	
	<ul> <li>a. Processes / activities are located under a covered area?</li> <li>b. Stop-logs installed in the perimeter drainage system for uncovered areas?</li> <li>c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?</li> <li>Equipment oil and lubrication replacements are performed only in bunded maintenance area?</li> <li>a. Oil interceptor provided for drainage discharging from maintenance area?</li> <li>b. If yes, oil and grease removed regularly?</li> <li>c. Collected by licensed collector?</li> <li>Cargo Handling</li> <li>a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?</li> <li>b. Materials and bulk cargo are properly</li> </ul>	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?			$\boxtimes$	
	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?		$\boxtimes$		
	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?				



	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?	$\boxtimes$				
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?					
	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	a. Label is securely attached, clean and visible?					
	b. Label is in proper dimension and bilingual?					
<b>\</b>	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?			$\boxtimes$	
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?				
	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. Dust was observed near the waste wood storage area. The tenant should implement dust suppression measures.

5 Jul 13



2. A significant noise nuisance due to equipment operation was noted. The tenant should consider to provide acoustic measures such as barrier to mitigate noise nuisance.

31 Jul 13



3. Wood debris and waste were observed inside the surface channel. The tenant should clear waste in the surface channel.

5 Jul 13



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

No. Follow-up from Previous Audit Dated 27 May 2013

**Status** 

1. Nil.

Nil



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

Trial operation is being carried out and lots of waste wood were observed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Hung Wai	Serco Guardian JV
Signed By	Winnie MA	Sharifah OR	Mr CHEUNG	Mabel YUNG
Role	ET Site Inspector	IEC	General Manager	Park Manager
Signature	Diviso	Brokel	Wey	rall



# **APPENDIX 6-4**

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

Li Tong Group



	Audit Details						
Ten	ant	Li Tong Group					
Dat	e & Time	Date 23 April 2	013			Time	10:30am
Lot	No.	EP07-02		_			
Auc	lit Ref.	29		_			
IEC	Joint Inspection	<b>∑</b> Yes		No			
We	ather Conditions	Fine		Hazy		∑ Ove	ercast Rain
Wir	nd	<b>⊠</b> Calm		Light Bree	ze	Stro	ong Wind
Ten	nperature	23 <sup>°</sup> C					
Hur	nidity	Low	$\boxtimes$	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/A) 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 Mal updated?	nagement Plan					The Tenant's EMP is documented.
1.4	a. Emergency Resp documented?	onse Plan (ERP)					The Tenant's ERP is documented.
	b. Drill / training re	cords available?					
1.5	Employee's training	g record available?	?				
1.6	Any record of prose	ecution / complair	nt?		$\boxtimes$		
1.7	Waste Managemer	nt Plan?					The Tenant's WMP is 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. $\square$ A chemical/container toilet is 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? Surface run-off discharging into drainage $\boxtimes$ 2.5 system? X 2.6 All manholes are covered? 2.7 Foam, oil, grease, litter or other $\boxtimes$ 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?				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?				
	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				
	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		$\boxtimes$	П	
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?				
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 Remarks Yes 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 $\boxtimes$ 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. 3.12 a. Approval from Authority for the use of Not required. controlled refrigerant? X 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 completed?				Registration No. 3840-421- L2676-01 for various types of chemical waste.
4.2	Provision of sufficient waste disposal points/ receptacles?				
4.3	Waste disposed of regularly and properly?				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.
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?			$\boxtimes$	
	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?				
	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?	$\boxtimes$			
-	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?				
-	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		$\boxtimes$			
-	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?			$\boxtimes$	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?				
	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 22 March 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	-	Teresa HO	Mabel YUNG
Role	ET Leader	-	Environmental Health and Safety Officer	Park Manager
Signature	Aubry	-	7	Malel.



	Audit Details						
Ten	ant	Li Tong Group					
Dat	e & Time	Date 27 May 20	013			Time	10:00am
Lot	No.	EP07-02		_			
Aud	lit Ref.	30		_			
IEC.	Joint Inspection	Yes	$\boxtimes$	No			
Wea	ather Conditions	Fine		Hazy		Ove     Ove	ercast Rain
Win	d	<b>⊠</b> Calm		Light Bree	ze	Stro	ong Wind
Ten	perature	<u>27<sup>°</sup>C</u>					
Hun	nidity	Low	$\boxtimes$	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/A) 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 Manupdated?	nagement Plan					The Tenant's EMP is documented.
1.4	a. Emergency Resp documented?	onse Plan (ERP)					The Tenant's ERP is documented.
	b. Drill / training re	cords available?					
1.5	Employee's training	g record available	?				
1.6	Any record of prose	ecution / complair	nt?		$\boxtimes$		
1.7	Waste Managemer	nt Plan?					The Tenant's WMP is documented.



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



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



	3. Air Quality				
3.1	<b>Description</b> a. Valid Specified Process License for all	Yes	No	N/A	Remarks Not required.
J.1	specified process available?				Not required.
	b. SP License conditions / monitoring requirements met?				
	Odour		$\boxtimes$		
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?			$\boxtimes$	
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?			$\boxtimes$	
	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) **Description** No N/A Remarks Yes 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 $\boxtimes$ 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. 3.12 a. Approval from Authority for the use of Not required. controlled refrigerant? X 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 completed?				Registration No. 3840-421- L2676-01 for various types of chemical waste.
4.2	Provision of sufficient waste disposal points/ receptacles?				
4.3	Waste disposed of regularly and properly?				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.
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?			$\boxtimes$	
	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?				
	c. Information is accurate and sufficient?				



4. Waste / Chemical Management (continu	ed)			
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?	$\boxtimes$			
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?			$\boxtimes$	Chemical waste was stored indoor.
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				
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 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 (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 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?  Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)  Storage of Liquid Waste  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	Description       Yes         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 (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 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?       ☑         Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)       ☑         Storage of Liquid Waste 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       ☑	Description  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 (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 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?  Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)  Storage of Liquid Waste  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	Description Yes No N/A  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 (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 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?  Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)  Storage of Liquid Waste  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



	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?			$\boxtimes$	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?				
	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 23 April 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 Auditor	-	Environmental Health and Safety Officer	Park Manager
Signature	Division	-	7	Hall.



#### **Audit Details Tenant** Li Tong Group **Date** 21 June 2013 10:00am **Date & Time** Time Lot No. EP07-02 **Audit Ref.** 31 X Yes □ No **IEC Joint Inspection Fine** Hazy Overcast Rain **Weather Conditions** Wind **Calm** Light Breeze Strong Wind 31°C **Temperature Low** Medium High **Humidity** 1. General **Description** Yes N/A Remarks EP for Tenant displayed on notice boards / $\boxtimes$ EP for EcoPark (EP-226/2005/A) 1.1 at entrance? is displayed at the entrance of EcoPark. EP for Tenant is not required. **Environmental Policy documented?** $\boxtimes$ The Tenant's Environmental 1.2 Policy is documented. $\boxtimes$ 1.3 The Tenant's EMP is **Environmental Management Plan** updated? documented. a. Emergency Response Plan (ERP) $\square$ The Tenant's ERP is 1.4 documented? documented. $\boxtimes$ b. Drill / training records available? $\boxtimes$ 1.5 Employee's training record available? 1.6 Any record of prosecution / complaint? $\boxtimes$ $\boxtimes$ The Tenant's WMP is 1.7 Waste Management Plan? documented.



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



	3. Air Quality				
24	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		$\boxtimes$		
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?			$\boxtimes$	
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?				
	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)				
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.
.8.8	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?				Not required.
-	b. If yes, record of refrigeration equipment service available?			$\boxtimes$	
.13	All air pollution control systems are properly maintained and function normally?				
.14	Only Ultra-Low Sulphur Diesel is used?	$\boxtimes$			



	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 chemical 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?			$\boxtimes$	No spillage.
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	Labelling of Chemical Waste				
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?				
-	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?				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?			$\boxtimes$	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?			$\boxtimes$	
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?			$\boxtimes$	
	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 27 May 2013

**Status** 

1. Nil N/A

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

No critical environmental issue was observed.

	ET		Tenant	Operator	
Organisation	SMEC Asia Ltd	Atkins China Ltd	Li Tong	Serco Guardian JV	
Signed By	Antony WONG	Sharifah OR	Teresa HO	Mabel YUNG	
Role	ET Leader	IEC	Environmental Health and Safety Officer	Park Manager	
Signature	Dr.	Small	A	Hall	



# **APPENDIX 6-5**

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

Hong Kong Telford Envirotech Group Ltd.



	Audit Details							
Ten	ant	Hong Kong Telford Envirotech Group Ltd.						
Dat	e & Time	Date 23 April 2	013			Time	12:15pm	
Lot	No.	EP08-01		_				
Aud	it Ref.	16		_				
IEC.	Joint Inspection			No				
Wea	ather Conditions	Fine		Hazy		⊠ Ove	ercast Rain	
Win	d	<b>⊠</b> Calm		Light Bree	ze	Stro	ong Wind	
Ten	perature	23 °C						
Hun	nidity	Low	$\boxtimes$	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/A) 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						
1.4	a. Emergency Resp documented?	onse Plan (ERP)						
	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 Managemen	nt Plan?						



	2. Water Quality				
	Description	Yes	No	N/A	Remarks
2.1	Valid Effluent Discharge License available?				
2.2	Any wastewater treatment facility prior to effluent discharge?		$\boxtimes$		
	If yes, facility is properly maintained and function normally?			$\boxtimes$	
	Effluent Monitoring				
2.3	a. Sampling / Monitoring Record available?				
	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?				
2.6	All manholes are covered?				
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?	$\boxtimes$			



_	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
9	Processes with high Risk of Contamination  a. Processes / activities are located under a covered area?	$\boxtimes$			For the majority of the processes / activities.
	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?	$\boxtimes$			
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?				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?				



	3. Air Quality				
	Description	Yes	No	N/A	Remarks
8.1	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?			$\boxtimes$	
	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?				
	Dust Monitoring				
.4	a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?				
	c. Any exceedance?				
	d. If yes, follow-up action taken?			$\boxtimes$	
.5	Enclosures are provided around the main dust-generating activities?			$\boxtimes$	
	Open burning is avoided?				



	3. Air Quality (continued)				
3.7	Description  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				
	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	a. Approval from Authority for the use of controlled refrigerant?				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?				
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?				
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?				
	d. Approval obtained for capacity of containers > 450L?				
	Labelling of Chemical Waste				
8	a. Label is securely attached, clean and visible?				No chemical waste was generated.
	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?				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?			$\boxtimes$	
-	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 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				
1	a. Storage area floor/surface permeation-proof?				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)			<b>5</b> —7	The last is within the LEC
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?				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?				
	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 issue was observed.

# **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 22 March 2013

**Status** 

N/A

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	-	Mr LEE	Mabel YUNG
Role	ET Leader		Director	Park Manager
Signature	Aubry		OJ-	Kabel.



	Audit Details						
Tena	ant	Hong Kong Telfo	rd Eı	nvirotech G	iroup	Ltd.	
Date	e & Time	Date 27 May 2	013			Time	11:35pm
Lot I	No.	EP08-01		_			
Aud	it Ref.	17		_			
IEC J	oint Inspection	Yes	$\boxtimes$	No			
Wea	ther Conditions	Fine		Hazy		⊠ Ove	ercast Rain
Win	d	<b>∑</b> Calm		Light Bree	ze	Stro	ong Wind
Tem	perature	27 °C					
Hum	nidity	Low	$\boxtimes$	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/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Poli	icy documented?					
1.3	Environmental Ma updated?	nagement Plan					
1.4	a. Emergency Resp documented?	onse Plan (ERP)					
	b. Drill / training re	cords available?					
1.5	Employee's training	g record available	?				
1.6	Any record of pros	ecution / complair	nt?		$\boxtimes$		
1.7	Waste Managemen	nt Plan?					



	2. Water Quality				
	Description	Yes	No	N/A	Remarks
2.1	Valid Effluent Discharge License available?			$\boxtimes$	
2.2	Any wastewater treatment facility prior to		$\boxtimes$		
	effluent discharge?				
	If yes, facility is properly maintained and			$\boxtimes$	
	function normally?				
	Effluent Monitoring				
2.3	a. Sampling / Monitoring Record available?			$\boxtimes$	
	b. Monitoring frequency met the license requirement?	Ш			
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?			$\boxtimes$	
2.4	Surface run-off control measures in place	$\boxtimes$			
	and adequately maintained?				
2.5	Surface run-off discharging into drainage	$\boxtimes$			
	system?				
2.6	All manholes are covered?	$\boxtimes$			
2.7	Foam, oil, grease, litter or other	$\boxtimes$			
	objectionable matters in water of nearby drain / sewer are avoided?				
2.8	Drainage system is well maintained to	$\boxtimes$			
	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>	$\boxtimes$			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
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?			$\boxtimes$	
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	$\boxtimes$			
	Dust Monitoring				
3.4	a. Monitoring Record available?				Not required.
	b. Monitoring frequency met the requirement?			$\boxtimes$	
	c. Any exceedance?			$\boxtimes$	
	d. If yes, follow-up action taken?				
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
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	a. Approval from Authority for the use of controlled refrigerant?				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.
1.2	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?	$\boxtimes$			
1.5	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?			$\boxtimes$	No sludge was generated.
	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?				
	d. Approval obtained for capacity of containers > 450L?			$\boxtimes$	
	Labelling of Chemical Waste				
8.4	a. Label is securely attached, clean and visible?				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?			$\boxtimes$	
-	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?				
-	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.
l1	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  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?			$\boxtimes$	
	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?	$\boxtimes$			



No. Action Expected By

1. No critical issue was observed. N/A

# **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 23 April 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		Director	Park Manager
Signature	Diske	- 2	T	Malf



	Audit Details						
Ten	ant	Hong Kong Telfo	rd E	nvirotech G	roup	Ltd.	
Date	e & Time	Date 21 June 2	013			Time	11:35pm
Lot	No.	EP08-01		_			
Aud	lit Ref.	18		_			
IEC.	Joint Inspection	Yes		No			
Wea	ather Conditions	Fine		Hazy		Ove	ercast Rain
Win	ıd	<b>⊠</b> Calm		Light Bree	eze	Str	ong Wind
Tem	nperature	31 °C					
Hun	nidity	Low		Medium		Hig	gh
	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/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Poli	icy documented?				$\boxtimes$	
1.3	Environmental Ma updated?	nagement Plan					
1.4	a. Emergency Resp documented?	onse Plan (ERP)				$\boxtimes$	
	b. Drill / training re	ecords available?				$\boxtimes$	
1.5	Employee's trainin	g record available	?			$\boxtimes$	
1.6	Any record of pros	ecution / complair	nt?				
1.7	Waste Managemen	nt Plan?				$\boxtimes$	



<b>Description</b> Valid Effluent Discharge License available?	Yes	No	N/A	Remarks
Valid Effluent Discharge License available?				
Any wastewater treatment facility prior to effluent discharge?				
If yes, facility is properly maintained and function normally?			$\boxtimes$	
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?	$\boxtimes$			
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?				
	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	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?	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	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



	2. Water Quality (continued)				
	Description	Yes	No	N/A	Remarks
.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?		$\boxtimes$		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?				
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?				Maintenance area was not observed.
	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 unloading?				Not applicable.
	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 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?				
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?				Not required.
b. Monitoring frequency met the requirement?				
c. Any exceedance?			$\boxtimes$	
d. If yes, follow-up action taken?			$\boxtimes$	
Enclosures are provided around the main dust-generating activities?				
Open burning is avoided?				
	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?  Enclosures are provided around the main dust-generating activities?	Description a. Valid Specified Process License for all specified process available?  b. SP License conditions / monitoring requirements met?  Cdour 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 dust-generating activities?	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?  Codour 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	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			$\boxtimes$		
	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
.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?				
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?				
	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?				
	c. Information is accurate and sufficient?			$\boxtimes$	



	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste				
	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?			$\boxtimes$	
-	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?			$\boxtimes$	
- )	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				No chemical waste was generated.
L	Storage of Liquid Waste  a. Storage area floor/surface permeation- proof?			$\boxtimes$	No liquid waste was generate
-	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
	Landfill Gas Hazard (within LFG Consultation Zone)				The last is within the LEC
5.1	<ul><li>a. Workers and visitors alerted to possible LGF hazards?</li></ul>				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?				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?				
	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 issue was observed. N/A

# **Follow-up from Previous Audits**

No. Follow-up from Previous Audit Dated 27 May 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	Sharifah OR	Mr LEE	Mabel YUNG
Role	ET Site Auditor	IEC	Director	Park Manager
Signature	Diviso	Burket (	Ty	Hell.



# **APPENDIX 6-6**

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

**YOT EcoPark Plastic Resources Recycling Centre** 



	Audit Details						
Ten	ant	Yan Oi Tong Limite	d				
Date	e & Time	Date 23 April 201	13			Tin	ne <u>11:45am</u>
Lot	No.	EP07		_			
Aud	it Ref.	31		_			
IEC .	Joint Inspection	∑ Yes [		No			
Wea	ather Conditions	Fine [		Hazy		$\boxtimes$	Overcast Rain
Win	d	⊠ Calm		Light Bre	eze		Strong Wind
Tem	perature	23 °C					
Hun	nidity	Low	$\boxtimes$	Medium			High
1.1 1.2 1.3	Description EP for Tenant displate at entrance? Environmental Political Environmental Manupdated?  a. Emergency Respring documented?	nagement Plan	ds ,	Yes /	No .	N/A  ⊠	Remarks  EP for EcoPark (EP-226/2005/A) 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						
1.5	Employee's training						
1.6		ecution / complaint?	?				
1.7	Waste Managemer	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?	$\boxtimes$			
.3	Effluent Monitoring a. Sampling / Monitoring Record available?			$\square$	As per the discharge licence, self-
	areamping, memoring needs a sumasie.				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?				
7	Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	$\boxtimes$			
	Drainage system is well maintained to	$\boxtimes$	_	_	



	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?			$\boxtimes$	Water is unlikely to be contaminated within the lot.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Only grease is used at the lot.
2.11	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				
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?			$\boxtimes$	



	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?				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) **Description** Yes No N/A Remarks 3.7 Dark smoke emitted from chimney or $\boxtimes$ There is no chimney installed powered plant is avoided? on-site. $\boxtimes$ Vehicles and equipment are switched off 3.8 while not in use? 3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming: $\boxtimes$ 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. $\bowtie$ 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? $\bowtie$ 3.14 Only Ultra-Low Sulphur Diesel is used?



	4. Waste / Chemical Management				
	Description	Yes	No	N/A	Remarks
1	Chemical Waste Producer Registration completed?	$\boxtimes$			Registration No. 9211-421-Y2453-03 for spent mineral oil and spent lubricating oil.
2	Provision of sufficient waste disposal points/ receptacles?	$\boxtimes$			
3	Waste disposed of regularly and properly?	$\boxtimes$			Twice a week.
1	Sorting of materials on-site for reuse or disposal to designated outlet?				
;	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?			$\boxtimes$	
•	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				
3	a. Label is securely attached, clean and visible?				No chemical waste was produced.
	b. Label is in proper dimension and				
	bilingual?				



	4. Waste / Chemical Management (continu	ued)			
	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 chemical waste was produced.
	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?			$\boxtimes$	
4.10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)				
•	Storage of Liquid Waste				
4.11	a. Storage area floor/surface permeation-proof?				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?				
5.3	Good housekeeping?				
5.4	Any areas within the lot to be used for recycling processes are concrete paved?	$\boxtimes$			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?			$\boxtimes$	
-	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. NIL NIL

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

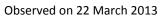
# No. Follow-up from Previous Audits Dated 22 March 2013

**Status** 

1 No stagnant water was observed on the tarpaulin sheeting.

Closed







Observed on 23 April 2013

## **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	Antony WONG	-	Asa NG	Mabel YUNG
Role	ET Leader	IEC Site Auditor	Manager	Park Manager
Signature	Andry	-	PT W	Kalel.



	Audit Details						
Ter	nant	Yan Oi Tong Lim	ited				
Dat	te & Time	Date 27 May 2	013			Tin	ne <u>11:25am</u>
Lot	No.	EP07		_			
Aud	dit Ref.	32		_			
IEC	Joint Inspection	Yes	$\boxtimes$	No			
We	ather Conditions	Fine		Hazy		$\boxtimes$	Overcast Rain
Wir	nd	<b>⊠</b> Calm		Light Bre	eze		Strong Wind
Ten	nperature	27 °C					
Hui	midity	Low	$\boxtimes$	Medium			High
1.1 1.2	Description  EP for Tenant disp at entrance?  Environmental Po  Environmental Maupdated?		ards	Yes /	No .	N/A  ⊠	Remarks  EP for EcoPark (EP-226/2005/A) 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?	oonse Plan (ERP)		$\boxtimes$			The Tenant's ERP is documented.
1 5	b. Drill / training r	ecords available?					
1.5		secution / complair					
1.7	Waste Manageme	nt Plan?		$\boxtimes$			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?				
	c. Any exceedance?				
	d. If yes, follow-up action taken?			$\boxtimes$	
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?	$\boxtimes$			
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  a. Processes / activities are located under a covered area?				Works for recycling were undertaken at covered areas.
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?				Water is unlikely to be contaminated within the lot.
Equipment oil and lubrication replacements are performed only in bunded maintenance area?				Only grease is used at the lot.
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  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?			$\boxtimes$	
	Processes with high Risk of Contamination 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	Processes with high Risk of Contamination 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 □	Description  Processes with high Risk of Contamination 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	Description  Yes No N/A  Processes with high Risk of Contamination 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 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?  b. Materials and bulk cargo are properly



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



## 3. Air Quality (continued) **Description** Yes No N/A Remarks 3.7 Dark smoke emitted from chimney or $\boxtimes$ There is no chimney installed powered plant is avoided? on-site. $\boxtimes$ Vehicles and equipment are switched off 3.8 while not in use? 3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming: $\boxtimes$ 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. $\bowtie$ 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? $\boxtimes$ 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** 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
)	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?				
0	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	$\boxtimes$			
-	Storage of Liquid Waste				
1	a. Storage area floor/surface permeation- proof?				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  Landfill Gas Hazard  (within LFG Consultation Zone)	Yes	No	N/A	Remarks
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?			$\boxtimes$	
5.6	Dangerous Goods  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?				
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 Audits Dated 23 April 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 Site Auditor	Manager	Park Manager
Signature	Division	-		salf

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



	Audit Details						
Ten	ant	Yan Oi Tong Limited	ł				
Date	e & Time	Date 21 June 2013	3			Tin	ne <u>11:25am</u>
Lot	No.	EP07					
Aud	it Ref.	33					
IEC .	Joint Inspection	∑ Yes □	_ N	No			
Wea	ather Conditions	Fine	] H	Hazy			Overcast Rain
Win	d	⊠ Calm	] [	ight Bre	eze		Strong Wind
Tem	perature	31 °C					
Hun	nidity	Low		Medium			High
1.1 1.2 1.3	1. General  Description  EP for Tenant displated at entrance?  Environmental Political Environmental Manupdated?  a. Emergency Respring documented?	nagement Plan	ds/	Yes	No .	N/A	Remarks  EP for EcoPark (EP-226/2005/A) 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?		$\boxtimes$			
1.5	Employee's training	g record available?		$\boxtimes$			
1.6	Any record of prose	ecution / complaint?					
1.7	Waste Managemer	nt Plan?		$\boxtimes$			The Tenant has included the WMP into the EMP.



	2. Water Quality				
	Description	Yes	No	N/A	Remarks
1	Valid Effluent Discharge License available?				Licence No. WT00006013-2010 valid until 28 Feb 2015.
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?			$\boxtimes$	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?			$\boxtimes$	
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?	$\boxtimes$			
	Drainage system is well maintained to				



	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?				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?			$\boxtimes$	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?				
	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.
	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?				
3.5	Enclosures are provided around the main dust-generating activities?				
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				
	Description	Yes	No	N/A	Remarks
1	Chemical Waste Producer Registration completed?	$\boxtimes$			Registration No. 9211-421-Y2453-03 for spent mineral oil and spent lubricating oil.
2	Provision of sufficient waste disposal points/ receptacles?	$\boxtimes$			
3	Waste disposed of regularly and properly?	$\boxtimes$			Twice a week.
1	Sorting of materials on-site for reuse or disposal to designated outlet?				
5	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?			$\boxtimes$	
	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				
3	a. Label is securely attached, clean and visible?				No chemical waste was produced.
	b. Label is in proper dimension and bilingual?				



	Description				
	Description	Yes	No	N/A	Remarks
	Storage of Chemical Waste a. Proper "Chemical Waste" signs are displayed?				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?				
-	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)	$\boxtimes$			
1	Storage of Liquid Waste  a. Storage area floor/surface permeation- proof?				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  Landfill Gas Hazard  (within LFG Consultation Zone)	Yes	No	N/A	Remarks
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?	$\boxtimes$			The whole lot has been concrete- paved.
5.5	Valid calibration certificate for any monitoring equipment?			$\boxtimes$	
5.6	Dangerous Goods  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?			$\boxtimes$	
	f. Dangerous goods properly packaged?				
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 Audits Dated 27 May 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	Division	Small		LOU.

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



# **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	ment	t			
Date	e & Time	Date 23 April 2	013			Time	12:00pm
Lot	No.	EP05		_			
Aud	it Ref.	30		_			
IEC .	Joint Inspection			No			
Wea	ather Conditions	Fine		Hazy		⊠ Ove	ercast Rain
Win	d	<b>Calm</b>		Light Bree	ze	Stro	ong Wind
Tem	perature	23 °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/A) 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 Manupdated?	nagement Plan					The Tenant's EMP is documented.
1.4	a. Emergency Resp documented?	onse Plan (ERP)					The Tenant's ERP is documented.
	b. Drill / training re	cords available?		$\boxtimes$			
1.5	Employee's training	g record available	?				
1.6	Any record of prose	ecution / complair	nt?		$\boxtimes$		
1.7	Waste Managemer	nt Plan?		$\boxtimes$			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?	$\boxtimes$			
2	Effluent Monitoring				As nor the discharge license
.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?			$\boxtimes$	
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?	$\boxtimes$			
.8	Drainage system is well maintained to prevent flooding and overflow?	$\boxtimes$			



	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 observed.
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				
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?				
	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?				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?			$\boxtimes$	
	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)				
7	Description  Dark smoke emitted from chimney or	Yes	No	N/A	Remarks There is no chimney installed
	powered plant is avoided?				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				
	b. >35kg of conventional solid fuel per hour			$\boxtimes$	
•	c. >1,150 MJ of any gaseous fuel per hour				
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?				All relevant equipments are 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?				
	Labelling of Chemical Waste				
4.8	<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	eaj			
	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?	$\boxtimes$			
_	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?	$\boxtimes$			
-	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)	$\boxtimes$			
-	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?				



	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?			$\boxtimes$	
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?				
	c. Storage area(s) has been securely locked?				
	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?	$\boxtimes$			
					,



## **Action Items from This Audit**

No. Action Expected By

1. No critical issues were identified.

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

No. Follow-up from Previous Audit Dated 22 March 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	Antony WONG	-	F. C. MAK	Mabel YUNG
Role	ET Leader	-	Manager	Park Manager
Signature	Tubus	-	MARTING (11)	Kalel.

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



	Audit Details						
Tena	ant	St. James' Settle	men	t			
Date	e & Time	Date 27 May 2	013			Time	11:30am
Lot	No.	EP05		_			
Aud	it Ref.	31		_			
IEC .	loint Inspection	Yes	$\boxtimes$	No			
Wea	ather Conditions	Fine		Hazy		⊠ Ove	ercast Rain
Win	d	<b>⊠</b> Calm		Light Bree	ze	Str	ong Wind
Tem	perature	27 °C					
Hun	nidity	Low	$\boxtimes$	Medium		Hig	th
	1. General						
	Description			Yes	No	N/A	Remarks
1.1	EP for Tenant displat entrance?	ayed on notice bo	ards	/			EP for EcoPark (EP-226/2005/A) 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?	onse Plan (ERP)					The Tenant's ERP is documented.
	b. Drill / training re	cords available?		$\boxtimes$			
1.5	Employee's trainin	g record available	?				
1.6	Any record of pros	ecution / complai	nt?				
1.7	Waste Managemen	nt 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?	$\boxtimes$			
	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?	$\boxtimes$			



	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 found.
.0	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?			$\boxtimes$	Not required.
	b. If yes, oil and grease removed regularly?				
	c. Collected by licensed collector?				
	Cargo Handling				
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?			$\boxtimes$	



	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?			$\boxtimes$	
	c. Odorous materials are covered?				
	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?				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?			$\boxtimes$	
	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)				
.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?	$\boxtimes$			
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			$\boxtimes$	
.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 equipments are 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?				
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?				
	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				
4.8	a. Label is securely attached, clean and visible?				
	b. Label is in proper dimension and bilingual?				
	c. Information is accurate and sufficient?				



	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?	$\boxtimes$			
-	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)	$\boxtimes$			
-	Storage of Liquid Waste				
1	<ul><li>a. Storage area floor/surface permeation- proof?</li></ul>				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?				



	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?			$\boxtimes$	
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?				
	c. Storage area(s) has been securely locked?				
	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 issues were identified. N/A

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

No. Follow-up from Previous Audit Dated 23 April 2013

Status

N/A

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	-	Stephen LUK	Mabel YUNG
Role	ET Site Auditor	-	Assistant Manager	Park Manager
Signature	Division	-	Aug IV	Hall.



	Audit Details						
Ten	ant	St. James' Settle	men	t			
Date	e & Time	Date 21 June 2	013			Time	11:30am
Lot	No.	EP05		_			
Aud	it Ref.	32		_			
IEC .	loint Inspection	X Yes		No			
Wea	ather Conditions	Fine		Hazy		Ove	ercast Rain
Win	d	<b>⊠</b> Calm		Light Bree	ze	Stro	ong Wind
Tem	perature	31 °C					
Hun	nidity	<b>∑</b> 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/A) 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 Ma updated?	nagement Plan					The Tenant's EMP is documented.
1.4	a. Emergency Resp documented?	onse Plan (ERP)					The Tenant's ERP is documented.
	b. Drill / training re	cords available?		$\boxtimes$			
1.5	Employee's trainin	g record available	?	$\boxtimes$			
1.6	Any record of pros	ecution / complair	nt?		$\boxtimes$		
1.7	Waste Managemen	nt Plan?					The Tenant's WMP is documented.



## 2. Water Quality **Description** N/A Remarks Yes No Valid Effluent Discharge License available? $\square$ Licence No. WT00007365-2010 2.1 valid until 31 Aug 2015. 2.2 Any wastewater treatment facility prior to X A screen has been installed as effluent discharge? treatment device. X If yes, facility is properly maintained and function normally? **Effluent Monitoring** a. Sampling / Monitoring Record available? 2.3 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? $\boxtimes$ Surface run-off discharging into drainage 2.5 system? $\boxtimes$ 2.6 All manholes are covered? Foam, oil, grease, litter or other $\boxtimes$ 2.7 objectionable matters in water of nearby drain / sewer are avoided? $\boxtimes$ Drainage system is well maintained to 2.8 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?				Not observed.
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?				
-	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				
	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?			$\boxtimes$	
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?			$\boxtimes$	
	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)				
.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.
.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?				All relevant equipments are 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?				
	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?				
(	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?	$\boxtimes$			
٠	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?			$\boxtimes$	
.0	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?				



	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?			$\boxtimes$	
	Potential stagnant pools cleared and	$\square$			



No. Action Expected By

1. No critical issues were identified.

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

No. Follow-up from Previous Audit Dated 27 May 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	Sharifah OR	Stephen LUK	Mabel YUNG
Role	ET Site Auditor	IEC	Assistant Manager	Park Manager
Signature	Diviso	Brokel	Aug Th	Well.



## **APPENDIX 7**

General EcoPark Checklists for the Reporting Quarter



## **Audit Details Date & Time** Date 23 April 2013 Time 9:45am to 12:30pm **Weather Conditions** Fine Hazy ○ Overcast Rain **Calm** Light Breeze Strong Wind Wind 23<sup>°</sup>C **Temperature** Low Medium High **Humidity Action Items from This Audit** ID **ET Findings / Recommendations Operator / Tenant Follow-up Action** Cosmos Star Holdings Co. Nil 1. The production line was tested. K. Wah Construction Products Ltd. 2. Building works were carried out. Nil SSK Metal Ltd. 3. The gate was closed during site audit and no Nil activities were observed. **Chung Yue Steel Group Company Ltd.** 4. Building works were carried out. Nil E. Tech Management (HK) Ltd. The gate was closed during site audit and no 5. Nil activities were observed. On Fat Lung Electrical & Metal Co. Ltd. The gate was closed during site audit and no 6. Nil 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



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

## **ID ET Findings / Recommendations**

#### Cosmos Star Holdings Co.

 Packaging materials and suspected broken tent were observed to be placed next to the surface channel of which part of them was over the channel.



Observed on 22 March 2013

K. Wah Construction Products Ltd.

2. Nil

SSK Metal Ltd.

Nil

3.

Chung Yue Steel Group Company Ltd.

4. Tyre trails were still observed. The Contractor

was reminded to clear the tyre trails and thoroughly clean vehicle wheels before leaving the site.



Observed on 22 March 2013

E. Tech Management (HK) Ltd.

On Fat Lung Electrical & Metal Co. Ltd.

6. Nil

South South China Reborn Resources (Zhongshan) Company Limited

7. Nil Nil

Other Areas

Nil

5.

8. Nil Nil

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

No materials that can block the surface were observed. (Close)



Observed on 23 April 2013

Nil

Nil

Tyre trails were still observed. The representative of the Contractor could not be contacted during the audit. SGJV will send a letter to remind the Contractor for cleaning up the trails and thoroughly clean the vehicle wheels before exiting the Site.



Observed on 23 April 2013

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	-	Mabel YUNG
Role	ET Leader	-	Park Manager
Signature	Aubry	-	Malel.



	Audit Details					
Date	& Time	Date 27 Ma	y 2013	Tim	e <u>9:45am t</u>	o 11:45pm
Wea	ther Conditions	Fine	Hazy	$\boxtimes$	Overcast	Rain
Wind	b	<b>Calm</b>	Light Bree	ze	Strong Wind	
Tem	perature	<u>27°</u> C				
Hum	idity	Low	Medium		High	
	Action Items fro	om This Audit				
ID	ET Findings / Re		5	Operator ,	/ Tenant Follo	w-up Action
	Cosmos Star Hol	dings Co.				
1.	The production I	ine was tested.		Nil		
	K. Wah Construc	ction Products L	td.			
2.	Building works w	vere carried out		Nil		
2	SSK Metal Ltd.			NI:I		
3.	The gate was clo activities were o	_	audit and no	Nil		
	Chung Yue Steel	Group Compar	y Ltd.			
4.	Building works w	vere carried out		Nil		
	E. Tech Manage	ment (HK) Ltd.				
5.	The gate was clo activities were o	_	audit and no	Nil		
	On Fat Lung Elec	trical & Metal (	Co. Ltd.			
6.	The gate was clo activities were o		audit and no	Nil		
	South China Reb Company Limite		(Zhongshan)			
7.	The gate was clo		audit and no	Nil		
	Other Areas					
8.	Nil			Nil		



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

## ID **ET Findings / Recommendations Operator / Tenant Follow-up Action** Cosmos Star Holdings Co. 1. Nil Nil K. Wah Construction Products Ltd. 2. Nil SSK Metal Ltd. Nil Nil 3. **Chung Yue Steel Group Company Ltd.** Tyre trails were still observed. The Contractor The Contractor has assigned person to clean was reminded to clear the tyre trails and up the trails and thoroughly clean the vehicle thoroughly clean vehicle wheels before leaving wheels before exiting the Site. the site. Observed on 27 May 2013 Observed on 22 March 2013 E. Tech Management (HK) Ltd. 5. Nil Nil On Fat Lung Electrical & Metal Co. Ltd. 6. Nil Nil **South South China Reborn Resources** (Zhongshan) Company Limited 7. Nil Nil **Other Areas** Nil 8. 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	-	Park Manager
Signature	Distre	-	Ibl.



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Date & Time	Date 21 June	e 2013	Time 9:45am to 11:45pm	
Weather Conditions	Fine	Hazy	Overcast Rain	
Wind		Light Breeze	Strong Wind	
Temperature	<u>31°</u> C			
Humidity		Medium	High	

ID ET Findings / Recommendations

**Operator / Tenant Follow-up Action** 

**Cosmos Star Holdings Co.** 

1. The production line was tested.

Nil

#### K. Wah Construction Products Ltd.

2. Stagnant water was observed next to office building.

The contractor was reminded to remove the stagnant water.



C&D waste was observed inside the surface channel.





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.

The contractor was reminded to remove the waste

SSK Metal Ltd.

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

Nil



## **ID ET Findings / Recommendations**

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

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

4. Dry haul road was observed.



The contractor was reminded to provide water spraying regularly to avoid dust dispersion.

## 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.

Nil

# South China Reborn Resources (Zhongshan) Company Limited

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

Nil

#### **Other Areas**

8. Nil

Nil



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

## ID **ET Findings / Recommendations Operator / Tenant Follow-up Action** Cosmos Star Holdings Co. 1. Nil Nil K. Wah Construction Products Ltd. 2. Nil SSK Metal Ltd. Nil Nil 3. **Chung Yue Steel Group Company Ltd.** 4. Nil E. Tech Management (HK) Ltd. Nil 5. On Fat Lung Electrical & Metal Co. Ltd. 6. Nil **South South China Reborn Resources** (Zhongshan) Company Limited 7. Nil Nil **Other Areas** 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	Sharifah OR	Mabel YUNG
Role	ET Site Auditor	IEC	Park Manager
Signature	Windo	Small	Kabel.