



EM&A Report

EcoPark Operation

Quarterly EM&A Compliance Report

August to October 2011





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Project/Deliverable Number:	J494A D01/05
Project Name:	EcoPark Operation EM&A
Report Name:	Quarterly EM&A Compliance Report – August to October 2011
Report Date:	February 2012
Report for:	Serco Guardian JV

PREPARATION, REVIEW AND AUTHORISATION

Revision #	Date	Prepared by	Reviewed by	Approved for Issue by
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3	Feb 2012	Winnie MA 	Antony WONG 	Alexi BHANJA 

ISSUE REGISTER

Distribution List	Date Issued	Number of Copies
Serco Guardian JV – Noel AU	Feb 2012	1 hardcopy
EPD (EIAO Office)	Feb 2012	3 hardcopies + 1 CD
EPD – Dr Lawrence WONG	Feb 2012	1 hardcopy
IEC – Sharifah OR	Feb 2012	1 hardcopy
SMEC Project File:	Feb 2012	1 electronic

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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 has been developed 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 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.

Effective from August 2010 onwards, SGJV ("the Operator") has appointed SMEC Asia Ltd (SMEC) as the Environmental Team (ET) for the Environmental Monitoring and Audit (EM&A) works, replacing the previous ET who were engaged by SGJV from May 2007 to July 2010. Effective from January 2011 onwards, SGJV has appointed Atkins China Ltd (Atkins) as the Independent Environmental Checker (IEC) for the EM&A works, replacing the previous IEC who were engaged by EPD from May 2007 to December 2010. 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.

This is the eighteenth quarterly EM&A report prepared for the operation phase of EcoPark and covers August to October 2011.

The tenants' recycling activities are audited on a monthly basis and the results are summarised in this report. At present, there are eight tenants in EcoPark:

1. Phase 1
 - Champway Technology Limited (Champway) – waste cooking oil;
 - Shiu Wing Steel Limited (Shiu Wing) – waste metals;
 - Hong Kong Hung Wai Wooden Board Company (Hung Wai) – waste wood;
 - Li Tong Group (Li Tong) – Waste Electrical and Electronic Equipment (WEEE);
 - Hong Kong Telford Envirotech Group Limited (Telford) – waste plastics; and
 - Cosmos Star Holdings Co., Limited (Cosmos) – waste lead-acid batteries.
2. Phase 2
 - YOT EcoPark Plastic Resources Recycling Centre (Yan Oi Tong) – waste plastics; and
 - St. James' Settlement "WEEE GO GREEN" EcoPark (St James' Settlement) – WEEE.

Moreover, the first batch of Phase 2 lots was awarded to new tenants in August 2011.

The ET has conducted monthly site inspections, 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.

Throughput of Materials / Waste Generated

As of end-October 2011, seven tenants (Champway, Shiu Wing, Hung Wai, Li Tong, Yan Oi Tong, St. James' Settlement and Telford) have formally commenced recycling activities within their lots. Cosmos has not formally commenced full recycling activities and was carrying out preparatory works within its lot. The following throughputs occurred during the reporting quarter:

1. **Champway.** 398 tonnes of cooking oil and 2,406 tonnes of grease-trap waste were delivered and processed. 569 tonnes of biodiesel and 17 tonnes of glycerine were produced in this reporting quarter. Waste with a total amount of 1,634 tonnes was disposed of.
2. **Shiu Wing.** 3,725 tonnes of waste metal was delivered and processed, producing the same amount of sheared heavy ferrous scrap on site. No significant amount of waste was generated.
3. **Hung Wai.** 477 tonnes of waste wood was received by Hung Wai in the reporting quarter. Together with the waste wood received and stored on site before the reporting quarter, wood chips with a total amount 1,260 tonnes were produced. No significant amount of waste was generated.
4. **Li Tong.** 168 tonnes of WEEE was delivered and processed, producing 13 tonnes of metals and 74 tonnes of non-metals. No significant waste was generated.
5. **Telford.** 142 tonnes of waste plastics were delivered and some of the waste plastics was processed, producing 17 tonnes of PO/PE/PET/PWC. No significant amount of waste was generated.
6. **Cosmos.** No recycling activities were carried out and no waste was disposed of.
7. **Yan Oi Tong.** 289 tonnes of waste plastics were delivered and 262 tonnes were processed by PRRC. 18 tonnes of general refuse was generated from mixed waste plastics.
8. **St James' Settlement.** 74 tonnes of WEEE was delivered and processed, producing 1,125 pieces of repaired / refurbished Electrical and Electronic Equipment (EEE), 28 tonnes of metals and 10 tonnes of non-metals. A total of 8 tonnes of waste was generated and no chemical waste was disposed of.

Exceedances of any Measured Action / Limit Levels

In terms of monitoring during operation phase EM&A, only quarterly monitoring of landfill gas (LFG) is required "following construction". Construction of Phase 1 was completed in July 2009, so LFG monitoring commenced in the next reporting quarter (August to October 2009). Construction of Phase 2 was completed in November 2010, so LFG monitoring commenced in the next reporting quarter (November 2010 to January 2011).

LFG monitoring during this quarter was undertaken on 27 October 2011 at five locations (three in Phase 1 and two in Phase 2). No exceedance of Action/Limit Level was recorded.

Summary of Complaints, Summons and Prosecutions

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

- Zero Complaints;
- Zero Summons; and
- Zero Successful Prosecutions.

Reporting Changes

There is no change in reporting in this reporting quarter.

Future Key Issues

By end of this reporting quarter, one tenant of Phase 1, Cosmos, had not commenced full recycling activities but was carrying out preparatory works within its lot.

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

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.

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 by the Environmental Protection Department (EPD) in June 2006. 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.

Effective from August 2010 onwards, SGJV ("the Operator") has appointed SMEC Asia Ltd (SMEC) as the Environmental Team (ET) for the Environmental Monitoring and Audit (EM&A) works, replacing the previous ET who were engaged by SGJV from May 2007 to July 2010. Effective from January 2011 onwards, SGJV has appointed Atkins China Ltd (Atkins) as the Independent Environmental Checker (IEC) for the EM&A works, replacing the previous IEC who were engaged by EPD from May 2007 to December 2010. 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.

1.2 Operation Programme

Seven tenants (Champway, Shiu Wing, Hung Wai, Li Tong, Yan Oi Tong, St. James' Settlement and Telford) have started recycling activities while Cosmos continues to carry out preparatory works within its lot. The first batch of Phase 2 lots was awarded to new tenants in August 2011, but none of the new tenants are yet on-site.

Environmental observations noted during this quarter's site inspections are detailed in *Section 7*. In brief, these are as follows:

1. **Champway.** Produced a significant amount of biodiesel from waste cooking oil. By the end of October 2011, biodiesel was no longer stored in the area next to Telford's lot reserved for the EcoPark Wastewater Treatment Plant (WWTP). In this reporting quarter, the key environmental concerns include the observation of oil leakage/stains, stagnant water in an uncovered bucket, and leakage from the containers. As a result, the Tenant was reminded to remove the oil stains, dispose of the waste materials properly, clear the stagnant water and replace the leaking containers.
2. **Shiu Wing.** Shred waste metal into heavy ferrous scrap, although the misting system and industrial dust collector are not yet in place. Two environmental deficiencies on mud/deposit inside the surface channels and dust emission from

transferring the waste metal were recorded in this reporting quarter, and the Tenant was thus reminded to clear the mud/deposit, prevent such materials from entering the surface channels, and utilise an extra sprinkler during dusty operation so as to minimise fugitive dust emission.

3. **Hung Wai.** Shredded large amount of waste wood into wooden chips. The environmental concern on fugitive dust emission from the metal separation outlet of the shredding machine recorded in the last reporting quarter was considered to be rectified, because of operational difficulties of enclosing the outlet with a transparent rigid cone as well as a fully enclosed recycling system to-be-provided by the new machine. Thus significant dust impact on nearby air sensitive receivers is not anticipated.
4. **Li Tong.** Checked and dismantled WEEE manually. One environmental issue relating to storing non-chemical waste inside the chemical waste storage room was observed, and the tenant was reminded to remove such materials from the room.
5. **Telford.** Sorted and processed waste plastics. The environmental issues were poor housekeeping, refuse found inside the channels and wastewater leakage from the plastic extruding/pelletizing process.
6. **Yan Oi Tong.** The key environmental concerns regarded storing waste engine oil on-site and piling up waste plastics in large size. Notwithstanding, the tenant has registered as a Chemical Waste Producer and will properly manage the waste oil in accordance with the relevant guidelines. The waste oil will be collected by a licensed collector.
7. **St. James' Settlement.** Sorted and checked WEEE manually. No follow-up action was required from the previous reporting quarter, and no new observations were recorded in this reporting quarter.

1.3 EM&A Organisation

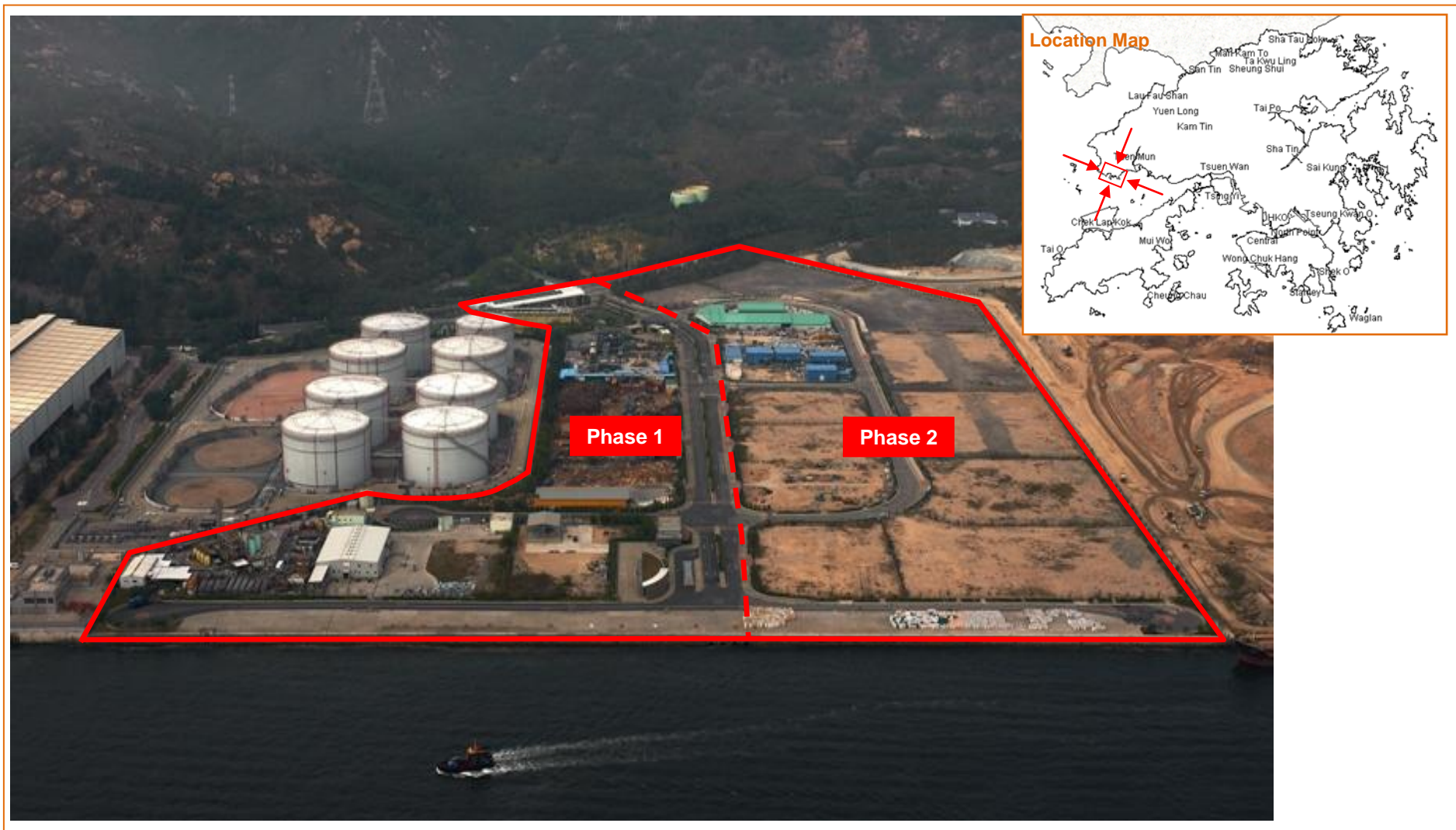
The EM&A works are carried out by the ET and the IEC on behalf of the Operator for the Project Proponent. The key personnel contact details are summarised in **Table 1-1**.

Table 1-1 EM&A Personnel Contact Details

Position	Name	Email Address	Telephone No.
Project Proponent – EPD			
Principal EPO	Dr Lawrence WONG	lawrwong@epd.gov.hk	2872 1700
Operator – SGJV			
Project Manager	Noel AU	nkfau@ecopark-mgnt.com	2496 7633
Park Manager	Morgan CHIU	morganchiu@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@smecc.com	3995 8120
ET Site Inspector	Winnie MA	winnie.ma@smecc.com	3995 8138

The organisation of SGJV is shown in **Figure 1-2** and the current EM&A organisation is illustrated in **Figure 1-3**.

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



Source: EPD Records (September 2011)

Figure 1-2 Organisation Chart of SGJV

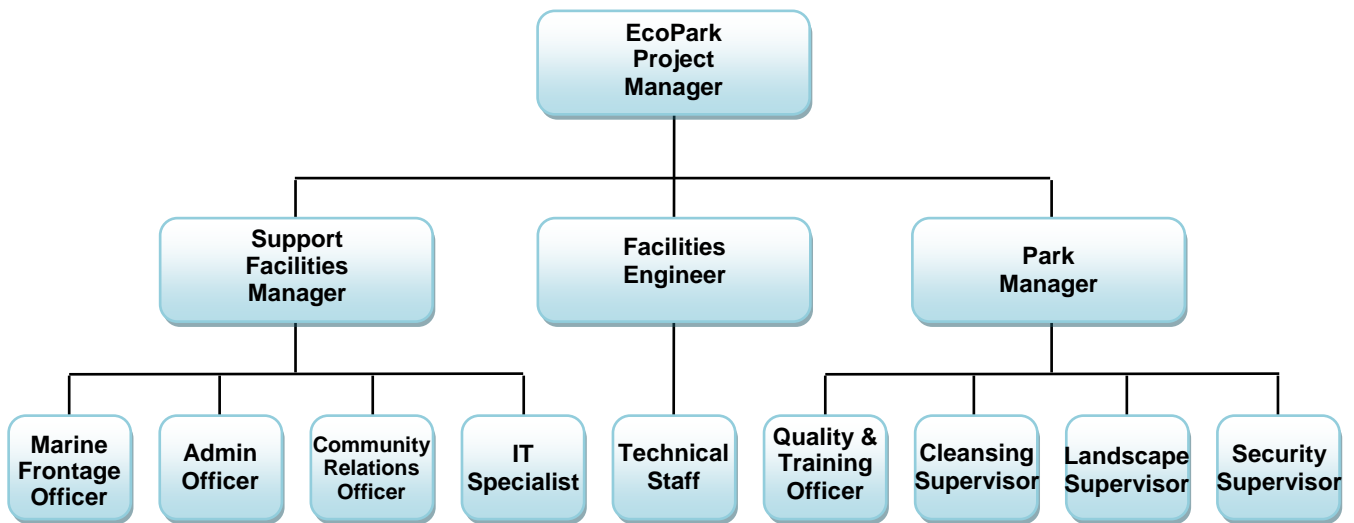
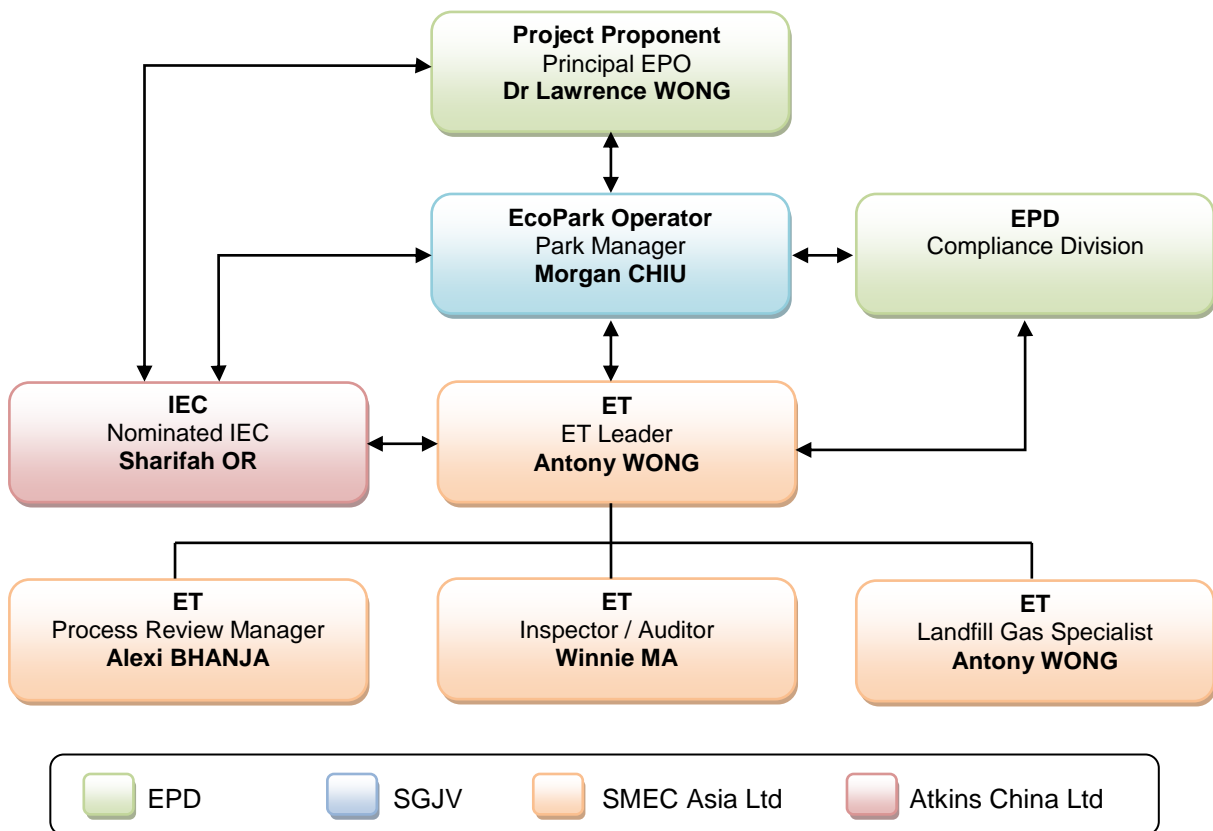


Figure 1-3 Organisation Chart of EM&A Works (Operation)



2 SUMMARY OF EM&A REQUIREMENTS

2.1 Monitoring Parameters

In terms of monitoring during operation phase EM&A, only quarterly monitoring of landfill gas (LFG) is required at service voids and utility boxes “following construction”. This is because part of EcoPark lies within the 250m “LFG consultation zone” for Siu Lang Shui Landfill, which is located to the north of EcoPark.

Construction of Phase 1 was completed in July 2009, so LFG monitoring commenced in the next reporting quarter (August to October 2009). Construction of Phase 2 was completed in November 2010, so LFG monitoring commenced in the next reporting quarter (November 2010 to January 2011).

The location for LFG monitoring was not specified in the EM&A Manual since the final design of EcoPark had not been completed 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, IEC and the Operator. Subsequently, two monitoring locations in Phase 2 were proposed by ET and agreed by 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	Type	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

Figure 2-2 is a replacement page 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.

Routine LFG monitoring shall be carried out on a quarterly basis. Should EPD alert the Operator that high LFG levels had been detected during monthly monitoring under the Siu Lang Shui Landfill restoration contract, then 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 have not alerted the Operator.

2.2 Environmental Quality Performance Limits and EAP

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 operation phase EM&A.

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

Parameter	Level	Action
Oxygen (O ₂)	Action Level <19% O ₂	<ul style="list-style-type: none"> Ventilate trench/void to restore O₂ to > 19%
	Limit Level <18% O ₂	<ul style="list-style-type: none"> Stop works Evacuate personnel / prohibit entry Increase ventilation to restore O₂ to > 19%
Methane (CH ₄)	Action Level >10% LEL	<ul style="list-style-type: none"> Post "No Smoking" signs Prohibit hot works Increase ventilation to restore CH₄ to <10% LEL
	Limit Level >20% LEL	<ul style="list-style-type: none"> Stop works Evacuate personnel / prohibit entry Increase ventilation to restore CH₄ to <10% LEL
Carbon Dioxide (CO ₂)	Action Level >0.5% CO ₂	<ul style="list-style-type: none"> Ventilate to restore CO₂ to < 0.5%
	Limit Level >1.5% CO ₂	<ul style="list-style-type: none"> Stop works Evacuate personnel / prohibit entry Increase ventilation to restore CO₂ to <0.5%

2.3 Environmental Audit of Non-Monitored Parameters

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 regularly 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.

The following parameters are required to be audited as part of the operation phase EM&A programme:

1. Air Quality;
2. Water Quality;
3. Waste Management; and
4. Land Contamination.

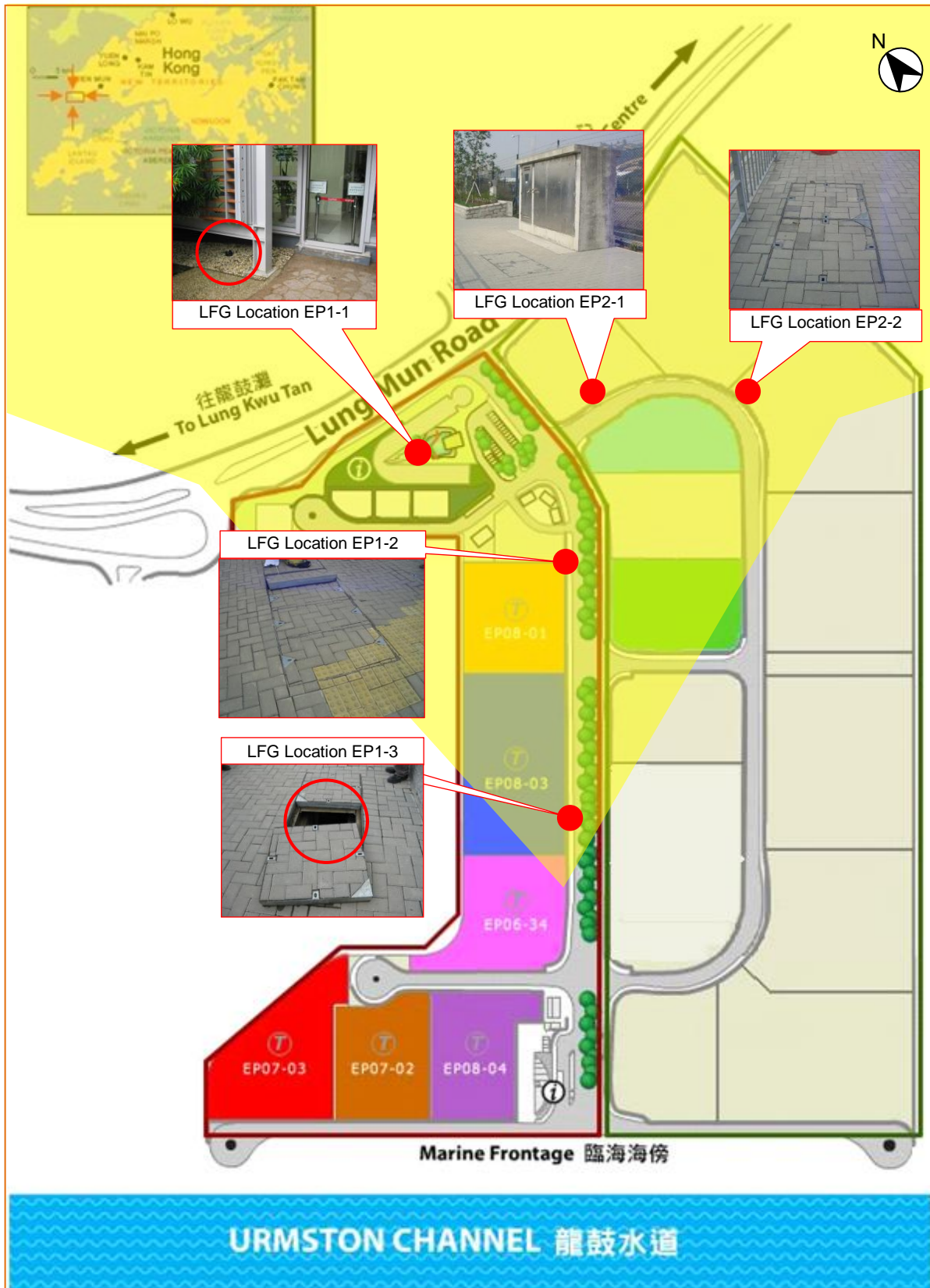
2.4 Environmental Mitigation Measures

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

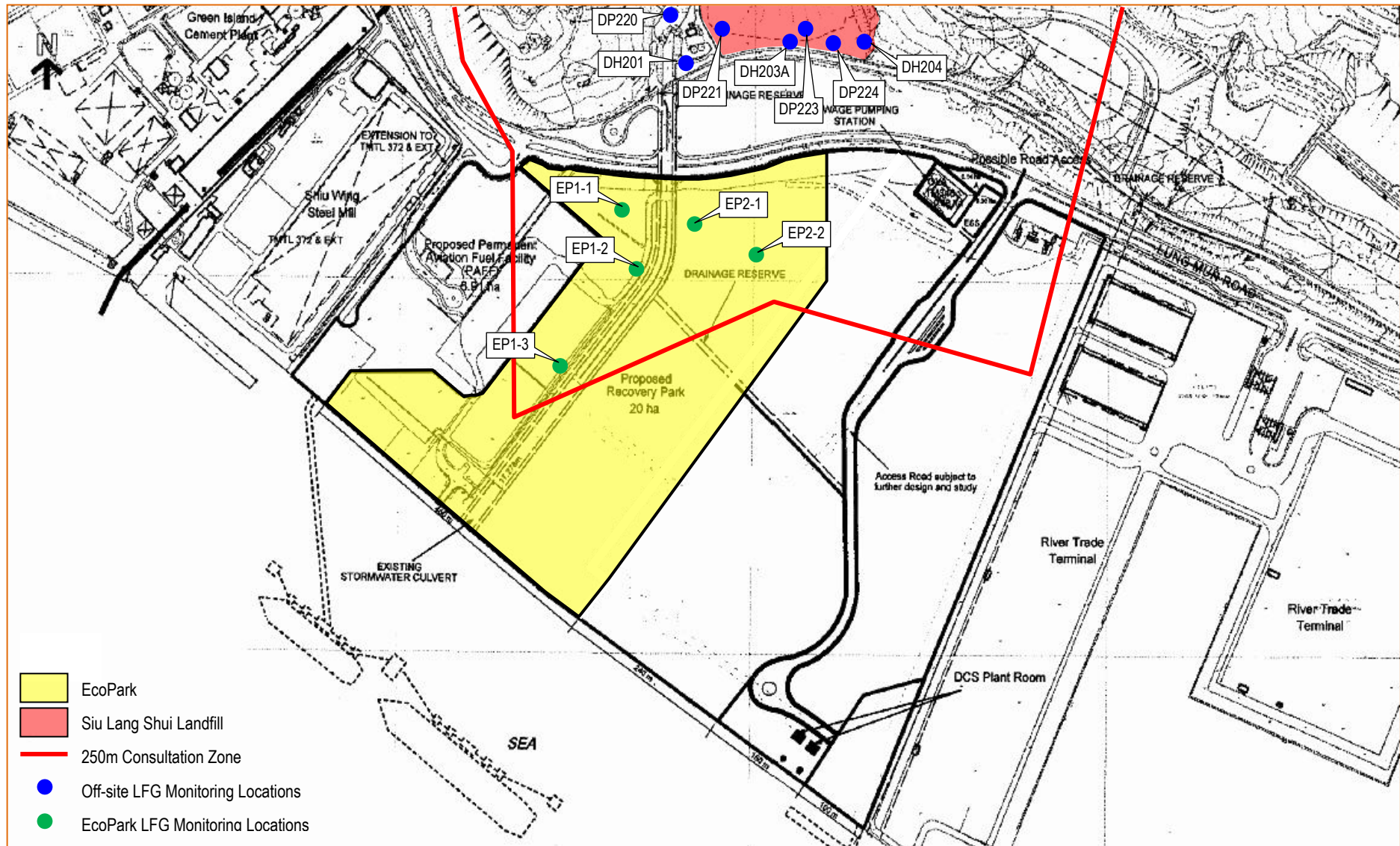
Environmental requirements specified in tenancy agreements are summarised in **Appendix 2**.

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 Tenants and Processes

Figure 3-1 shows the location of lots within EcoPark, the tenancy reference numbers and tenant names. The first batch of Phase 2 lots was awarded to new tenants in August 2011, but none of the new tenants are yet on-site and so there is no operation status to discuss in this section. The new tenants are, however, shown in *Figure 3-1*.

3.1.1 Tenancy EP07-03 (Phase 1)

- **Lot Size:** Approx. 6,000m²
- **Activity:** Recycling of Organic Waste (Waste Cooking Oil)
- **Tenant:** Champway Technology Limited
- **Recycling Process:** Turn waste cooking oil into biodiesel by extraction, neutralisation, separation and distillation

Following a trial run in May and June 2010, recycling activities commenced in July 2010. By end of this reporting quarter, biodiesel was no longer stored in the area next to Telford's lot reserved for the EcoPark WWTP. A summary of waste throughputs is provided in *Section 3.2*.

3.1.2 Tenancy EP08-03 (Phase 1)

- **Lot Size:** Approx. 9,500m²
- **Activity:** Recycling of Waste Metals
- **Tenant:** Shiu Wing Steel Limited
- **Recycling Process:** Turn waste metals into light ferrous scrap and heavy ferrous scrap by sorting, baling and shearing

Following a trial run in May and June 2010, recycling activities commenced in July 2010. In this reporting quarter, large amounts of waste metal/steel scrap have been processed. A summary of waste throughputs is provided in *Section 3.2*.

3.1.3 Tenancy EP06-034 (Phase 1)

- **Lot Size:** Approx. 5,000m²
- **Activity:** Recycling of Waste Wood
- **Tenant:** Hong Kong Hung Wai Wooden Board Company
- **Recycling Process:** Shred waste wood into wooden chips for further processing in Mainland China. Ferrous metals will be separated by magnets.

Following a trial run in May and June 2010, recycling activities commenced in July 2010. In this reporting quarter, large quantities of wood chips (product output) have been produced. A summary of waste throughputs is provided in *Section 3.2*.

3.1.4 Tenancy EP07-02 (Phase 1)

- **Lot Size:** Approx. 6,500m²
- **Activity:** Recycling of WEEE
- **Tenant:** Li Tong Group
- **Recycling Process:** Manually dismantling of WEEE, particularly CRT glass and LCD panels into metals (ferrous materials, aluminium, etc.) and non-metals (fibres, plastics, etc.).

Following a trial run in September 2010, recycling activities commenced in October 2010. A summary of waste throughputs is provided in **Section 3.2**.

3.1.5 Tenancy EP08-01 (Phase 1)

- **Lot Size:** Approx. 5,000m²
- **Activity:** Recycling of Waste Plastics
- **Tenant:** Hong Kong Telford Envirotech Group Limited
- **Recycling Process:** Sorting, shredding and extrusion of waste plastics

Plastic bags and other plastic waste have been stockpiled in the lot, and recycling equipment has been installed and operated.

3.1.6 Tenancy EP08-04 (Phase 1)

- **Lot Size:** Approx. 4,000 m²
- **Activity:** Recycling of materials arising from industrial and commercial activities
- **Tenant:** Cosmos Star Holdings Co., Limited
- **Recycling Process:** Separate waste lead-acid and lithium batteries by mechanical / physical means. The battery acid will be drained and treated by the on-site wastewater treatment system

A building contractor was engaged in October 2010 and construction works have commenced since December 2010. As of end-October 2011 works, such as site formation and foundations, have been carried out.

3.1.7 Tenancy P7 (Phase 2)

- **Lot Size:** Approx. 5,000 m²
- **Activity:** Recycling of waste plastics
- **Tenant:** YOT EcoPark Plastic Resources Recycling Centre
- **Recycling Process:** Convert mixed waste plastics into pellets / flakes / baled materials by pre-washing, sorting, flaking, secondary washing, drying, extrusion and chip-forming

Recycling activities commenced after trial operation in March 2010. In this reporting quarter, large amount of waste plastics have been sorted. A summary of waste throughputs is provided in **Section 3.2**.

3.1.8 Tenancy P5 (Phase 2)

- **Lot Size:** Approx. 5,000 m²
- **Activity:** Recycling of WEEE
- **Tenant:** St. James' Settlement "WEEE GO GREEN" EcoPark
- **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

After completion of construction works in September 2010, recycling activities commenced in October 2010. A summary of waste throughputs is provided in [Section 3.2](#).

3.2 Throughput Statistics

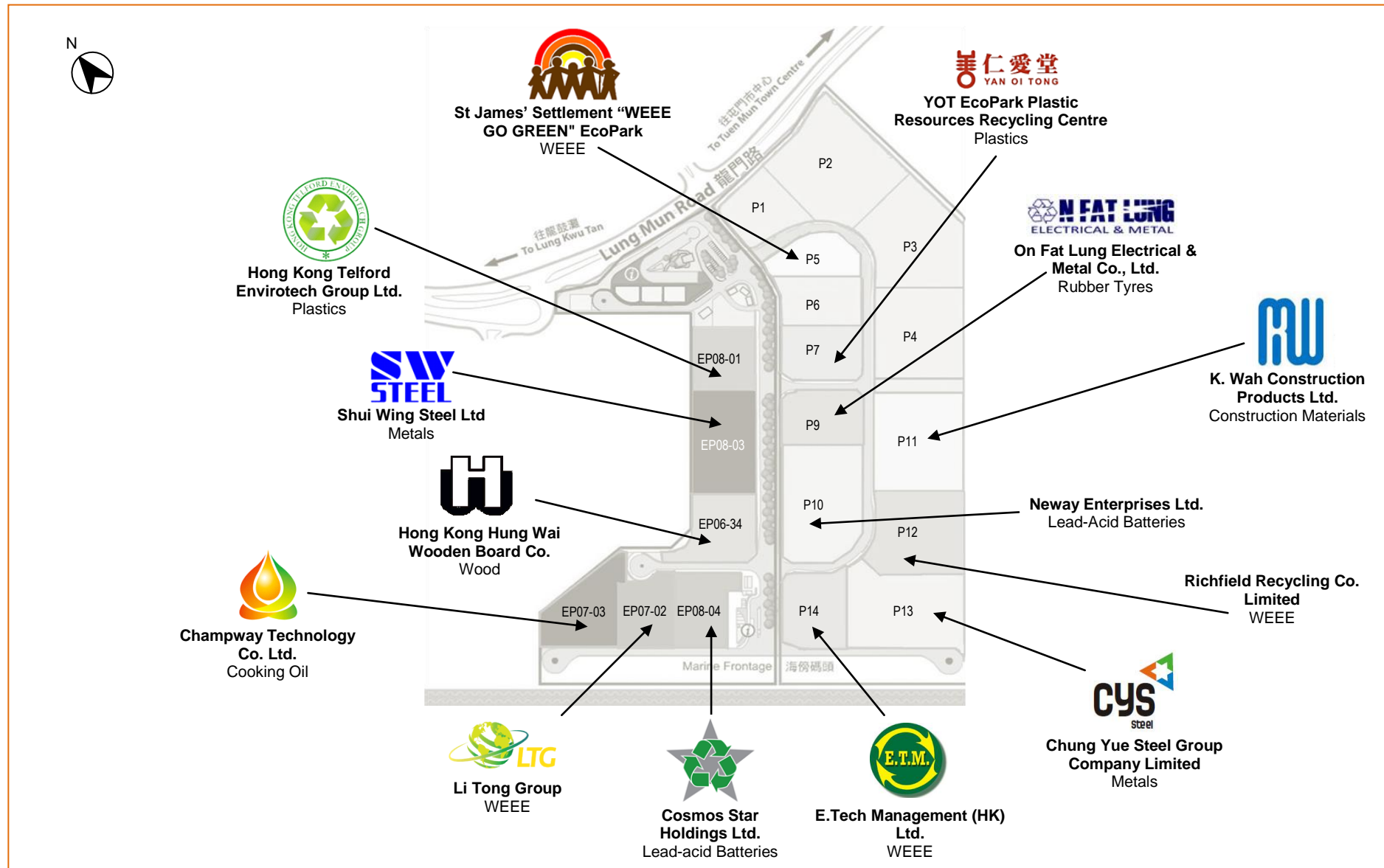
The first batch of Phase 2 lots was awarded to new tenants in August 2011, but none of the new tenants are yet on-site and so there are no throughput statistics to discuss in this section.

As of end-October 2011, seven tenants (Champway, Shiu Wing, Hung Wai, Li Tong, Yan Oi Tong, St. James' Settlement and Telford) have formally commenced recycling activities within their lots. Cosmos has not formally commenced full recycling activities and it was carrying out preparatory works within its lots. The following throughputs occurred during the reporting quarter:

1. **Champway.** 398 tonnes of cooking oil and 2,406 tonnes of grease-trap waste were delivered and processed. 569 tonnes of biodiesel and 17 tonnes of glycerine were produced in this reporting quarter. Waste with a total amount of 1,634 tonnes was disposed of.
2. **Shiu Wing.** 3,725 tonnes of waste metal was delivered and processed, producing the same amount of sheared heavy ferrous scrap on site. No significant amount of waste was generated.
3. **Hung Wai.** 477 tonnes of waste wood was received by Hung Wai in the reporting quarter. Together with the waste wood received and stored on site before the reporting quarter, wood chips with a total amount 1,260 tonnes were produced. No significant amount of waste was generated.
4. **Li Tong.** 168 tonnes of WEEE was delivered and processed, producing 13 tonnes of metals and 74 tonnes of non-metals. No significant amount of waste was generated.
5. **Telford.** 142 tonnes of waste plastics were delivered and some of the waste plastics was processed, producing 17 tonnes of PO/PE/PET/PWC. No significant amount of waste was generated.
6. **Cosmos.** No recycling activities were carried out and no waste was disposed of.
7. **Yan Oi Tong.** 289 tonnes of waste plastics were delivered and 262 tonnes were processed by PRRC. 18 tonnes of I refuse was generated from mixed waste plastics.
8. **St James' Settlement.** 74 tonnes of WEEE was delivered and processed, producing 1,125 pieces of repaired / refurbished Electrical and Electronic Equipment (EEE), 28 tonnes of metals and 10 tonnes of non-metals. A total of 8 tonnes of waste was generated and no chemical waste was disposed of.

Detailed throughput figures are provided in [Appendix 3](#).

Figure 3-1 Current Lot Usage Within EcoPark



4 IMPLEMENTATION STATUS OF ENVIRONMENTAL PROTECTION MEASURES

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*.

The first batch of Phase 2 lots was awarded to new tenants in August 2011, but none of the new tenants are yet on-site and so there are no environmental protection measures to discuss in this section.

As of end-October 2011, seven tenants (Champway, Shiu Wing, Hung Wai, Li Tong, Yan Oi Tong, St. James' Settlement and Telford) have formally commenced recycling activities within their lots. Appropriate environmental protection measures are in place.

5 MONITORING RESULTS

5.1 Monitoring Date, Time, Frequency and Duration

LFG monitoring is conducted on a quarterly basis. In this reporting quarter, monitoring was undertaken on 27 October 2011. Monitoring details are shown in **Table 5-1**, below.

Table 5-1 Sampling Schedule of LFG Monitoring

Station ID	Date	Time	Duration	Air Temp.	Weather
EP1-1	27 October 2011	10:49-10:53	4 minutes	24°C	Fine
EP1-2		10:34-10:38	4 minutes	24°C	Fine
EP1-3		10:26-10:30	4 minutes	24°C	Fine
EP2-1		10:39-10:43	4 minutes	24°C	Fine
EP2-2		10:42-10:46	4 minutes	24°C	Fine

5.2 Monitoring Methodology, Parameters and Equipment

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 of LFG Monitoring

Parameters	Measurement Ranges
Methane (CH ₄)	0-100% LEL & 0-100% v/v
Oxygen (O ₂)	0-25% v/v
Carbon Dioxide (CO ₂)	0-100% v/v
Barometric Pressure	mBar (absolute)

LFG monitoring shall be carried out using intrinsically-safe, portable multi-gas monitoring instruments. The gas monitoring equipment shall:

- 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.
- Be capable of continuous monitoring of methane, oxygen and carbon dioxide.
- Be capable of continuous barometric pressure and gas pressure measurements.
- Normally operate in diffusion mode unless required for spot sampling, when it should be capable of operating by means of an aspirator or pump.
- Have low battery, fault and over range indication incorporated.
- Store monitoring data, and shall be capable of being down-loaded directly to a PC.
- Measure in the following ranges:
 - Methane 0-100% LEL & 0-100% v/v
 - Oxygen 0-25% v/v
 - Carbon dioxide 0-100% v/v
 - Barometric pressure mBar (absolute)

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

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

5.4 Results and Graphical Plots of Monitoring Parameters

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

Station ID	Monitoring Results				
	CH ₄ (% v/v)	CH ₄ (% LEL)	O ₂ (% v/v)	CO ₂ (% v/v)	Barometric Pressure (mBar)
EP1-1	0.0	0	21	0.0	1018
EP1-2	0.0	0	21	0.1	1020
EP1-3	0.0	0	21	0.0	1020
EP2-1	0.0	0	21	0.0	1020
EP2-2	0.0	0	21	0.0	1020

As can be seen above, no Action or Limit Level exceedance was recorded.

6 WASTE GENERATION STATISTICS

The first batch of Phase 2 lots was awarded to new tenants in August 2011, but none of the new tenants are yet on-site and so there are no waste statistics to discuss in this section.

As of end-October 2011, seven tenants (Champway, Shiu Wing, Hung Wai, Li Tong, Yan Oi Tong, St. James' Settlement and Telford) have formally commenced recycling activities within their lots. The details of waste generation are shown in **Appendix 3**.

1. **Champway.** A total of 1,634 tonnes of waste, including 26 tonnes of inorganic waste, 428 tonnes of organic waste and 1,181 tonnes of water waste (semi-solid and slurry inclusive), was generated. These organic waste and water waste were collected by licence collectors, transported to and disposed of at WENT Landfill as general refuse.
2. **Shiu Wing.** Has not generated any non-ferrous scrap / general refuse from the waste metal / steel scrap in this reporting quarter.
3. **Hung Wai.** Has not produced any general refuse from the waste wood in this reporting quarter.
4. **Li Tong.** Has not produced any general refuse from WEEE in this reporting quarter.
5. **Telford.** Has not produced any general refuse from waste plastics in this reporting quarter.
6. **Yan Oi Tong.** 18 tonnes of general refuse was sorted from the mixed waste plastics, and subsequently disposed of at WENT Landfill.
7. **St. James' Settlement.** A total of 8 tonnes of waste was generated and no chemical waste was disposed of.

7 SUMMARY OF ENVIRONMENTAL AUDIT

The first batch of Phase 2 lots was awarded to new tenants in August 2011, but none of the new tenants are yet on-site and so have not been audited.

7.1 August 2011

Environmental audits of active tenants and the general EcoPark audit were carried out by the ET on 26 August 2011.

7.1.1 Tenant Audits

The audits were conducted based on the approved site inspection checklist. The completed audit checklists for tenants are provided in [Appendix 6](#).

1. **Champway.** Previous observation of stagnant water on containers was rectified, whereas observations of oil leakage/stains around the lot, oil stains at the corner of the lot, improper storage of activated carbon and odour nuisance remained outstanding. Consequently the Tenant was reminded to remove the oil leakage/stains, clear the contaminated soil properly, prevent the leaked oil from entering the surface channels, store the activated carbon in a dry and weatherproof environment, and apply mitigation measures to reduce the odour. One new observation of oil stain at the reserved area for EcoPark's Wastewater Treatment Plant (WWTP) was recorded during the audit. The Tenant was reminded to remove the oil stain and replace the drip tray which was almost full. The completed checklist for Champway is provided in [Appendix 6.1](#).
2. **Shiu Wing.** Previous observation of stagnant water on the metal cover was rectified, and no new observations were recorded during the audit. The completed checklist for Shiu Wing is provided in [Appendix 6.2](#).
3. **Hung Wai.** Previous observation of emitting fugitive dust from the metal separation outlet of the shredding machine remained outstanding, and the Tenant was again reminded to consider enclosing the outlet with a transparent rigid cone that enters the collection bag. No new observations were recorded during the audit. The completed checklist for Hung Wai is provided in [Appendix 6.3](#).
4. **Li Tong.** Previous observation of storing non-chemical waste inside the chemical waste storage room and opening the doors of the storage room was rectified, and no new observations were recorded during the audit. The completed checklist for Li Tong is provided in [Appendix 6.4](#).
5. **Yan Oi Tong.** Previous observation of littering and colour stains at Lot P6 was rectified, and no new observations were recorded during the audit. The completed checklist for Yan Oi Tong is provided in [Appendix 6.5](#).
6. **St. James' Settlement.** No follow-up action was required from the previous site audit, and no new observations were recorded during the audit. The completed checklist for St. James' Settlement is provided in [Appendix 6.6](#).

7.1.2 General EcoPark Audit

Following the site audit in July 2011, the environmental deficiencies at Telford's lot remained outstanding. The Tenant was again reminded to implement appropriate mitigation measures to address these issues. One new environmental observation of a bucket inside the surface channel of Telford was recorded during the audit, and the

Tenant was reminded to remove the bucket as soon as possible. The completed general checklist for EcoPark (and non-active tenants) is provided in [Appendix 7](#). The remedial status shall be followed up in the next audit.

7.2 September 2011

Environmental audits of active tenants and the general EcoPark audit were carried out by the ET on 30 September 2011.

7.2.1 Tenant Audits

The audits were conducted based on the approved site inspection checklist. The completed audit checklists for tenants are provided in [Appendix 6](#).

1. **Champway.** Previous observations of oil stains at the corner and odour nuisance were rectified, whereas the observations of oil leakage/stains around the lot, improper storage of activated carbon and stagnant water in an uncovered bucket remained outstanding. Therefore the Tenant was reminded to remove the oil stains, dispose of waste materials properly, store activated carbon in a dry and weatherproof environment, and clear the stagnant water as soon as possible. No new observations were recorded during the audit. The completed checklist for Champway is provided in [Appendix 6.1](#).
2. **Shiu Wing.** No follow-up action was required from the previous site audit, and no new observations were recorded during the audit. The completed checklist for Shiu Wing is provided in [Appendix 6.2](#).
3. **Hung Wai.** Previous observation of emitting fugitive dust from the metal separation outlet of the shredding machine was considered to be rectified, because of operational difficulties of enclosing the outlet with a transparent rigid cone as well as a fully enclosed recycling system to-be-provided by the new machine. Thus significant dust impact on nearby air sensitive receivers is not anticipated. No new observations were recorded during the audit. The completed checklist for Hung Wai is provided in [Appendix 6.3](#).
4. **Li Tong.** No follow-up action was required from the previous site audit, and no new observations were recorded during the audit. The completed checklist for Li Tong is provided in [Appendix 6.4](#).
5. **Yan Oi Tong.** No follow-up action was required from the previous site audit. Two new observations of storing waste engine oil on-site and piling up waste plastics in large size were recorded during the audit. The tenant has registered as a Chemical Waste Producer for spent mineral oil and spent lubricating oil under the Waste Disposal Ordinance. The tenant would handle and store the waste oil properly in accordance with the relevant guidelines and the waste oil would be collected by a licensed Chemical Waste Collector. The completed checklist for Yan Oi Tong is provided in [Appendix 6.5](#).
6. **St. James' Settlement.** No follow-up action was required from the previous site audit, and no new observations were recorded during the audit. The completed checklist for St. James' Settlement is provided in [Appendix 6.6](#).

7.2.2 General EcoPark Audit

Following the site audit in August 2011, previous observation of a bucket inside the surface channel of Telford was rectified, whereas other environmental deficiencies at Telford's lot remained outstanding. The Tenant was again reminded to implement

appropriate mitigation measures to address these issues. One new observation of using wood pellets as fuel for the recently installed plastic extruding/pelletizing machine was found at Telford's lot during the audit. Since combustion of wood pellets was not included in the Tenant's original design of plastic recycling, the Process Review Checklist (PRC) should be updated and a Design Audit (DA) may be required to further assess the associated air quality impact. No other new observations were recorded during the audit. The completed general checklist for EcoPark (and non-active tenants) is provided in [Appendix 7](#). The remedial status shall be followed up in the next audit.

7.3 October 2011

Environmental audits of active tenants and the general EcoPark audit were carried out by the ET and the IEC in a joint inspection on 27 October 2011.

7.3.1 Tenant Audits

The audits were conducted based on the approved site inspection checklist. The completed audit checklists for tenants are provided in [Appendix 6](#).

1. **Champway.** Previous observation of improper storage of activated carbon was rectified, whereas observations of the oil leakage/stains around the lot and stagnant water in an uncovered bucket remained outstanding. Therefore the Tenant was again reminded to remove the oil stains, dispose of the waste materials properly, and clear the stagnant water as soon as possible. One new observation of leakage from the containers was recorded during the audit, and the Tenant was reminded to replace the containers as soon as possible and clear the leaked materials. The completed checklist for Champway is provided in [Appendix 6.1](#).
2. **Shiu Wing.** No follow-up action was required from the previous site audit. Two new observations of mud/deposit inside the surface channels and dust emission from transferring the waste metal were recorded during the audit, and the Tenant was reminded to clear the mud/deposit, prevent such materials from entering the surface channels, and utilise an extra sprinkler to reduce the dust emission. The completed checklist for Shiu Wing is provided in [Appendix 6.2](#).
3. **Hung Wai.** No follow-up action was required from the previous site audit, and no new observations were recorded during the audit because the gate of the lot was closed. The completed checklist for Hung Wai is provided in [Appendix 6.3](#).
4. **Li Tong.** No follow-up action was required from the previous site audit. One new observation of storing non-chemical waste inside the chemical waste storage room was recorded during the audit. The Tenant was thus reminded to remove non-chemical waste from the storage room. The completed checklist for Li Tong is provided in [Appendix 6.4](#).
5. **Yan Oi Tong.** No follow-up action was required from the previous site audit. Two new observations of storing waste engine oil on-site and piling up waste plastics in large size were recorded during the audit. As a result, the Tenant was reminded to find out if it is necessary to apply for a Chemical Waste Disposal Licence for disposing waste engine oil and provide appropriate machine to process piles of plastics as soon as possible. The completed checklist for Yan Oi Tong is provided in [Appendix 6.5](#).
6. **St. James' Settlement.** No follow-up action was required from the previous site audit, and no new observations were recorded during the audit. The completed checklist for St. James' Settlement is provided in [Appendix 6.6](#).

7.3.2 General EcoPark Audit

Following the site audit in September 2011, the environmental deficiencies at Telford's lot remained outstanding. The Tenant was again reminded to implement appropriate mitigation measures to address these issues. No follow-up action was required for the other areas. Three new observations of poor housekeeping, refuse at surface channels and wastewater leakage from the plastic extruding/pelletizing machine were recorded at Telford's lot during the audit. Therefore the Tenant was reminded to maintain good housekeeping, clear and prevent the refuse from entering the surface channels, as well as clear the stagnant water and prevent the leakage. No new observations were recorded for other areas during the audit. The completed general checklist for EcoPark (and non-active tenants) is provided in [Appendix 7](#).

During the joint site audit, LFG monitoring was undertaken at the five monitoring locations (three in Phase 1 and two in Phase 2) agreed by the ET, IEC and the Operator. These five monitoring locations are listed in [Table 2-1](#) and shown in [Figure 2-1](#). The monitoring results are presented in [Section 5.4](#). No Action/Limit Level exceedance was recorded.

8 COMPLAINTS

No complaints related to recycling activities have been received in this reporting quarter.

9 CONCLUSIONS

This is the eighteenth quarterly EM&A report prepared for the operation phase of EcoPark and covers August to October 2011.

At present, there are eight tenants in EcoPark. As of end-October 2011, seven tenants (Champway, Shiu Wing, Hung Wai, Li Tong, Yan Oi Tong, St. James' Settlement and Telford) have formally commenced recycling activities within their lots. Cosmos has not formally commenced recycling activities and it was carrying out preparatory works within its lots.

The first batch of Phase 2 lots was awarded to new tenants in August 2011, but none of the new tenants are yet on-site and so there are no discuss in this quarterly report.

The following throughputs occurred during the reporting quarter:

1. **Champway.** 398 tonnes of cooking oil and 2,406 tonnes of grease-trap waste were delivered and processed. 569 tonnes of biodiesel and 17 tonnes of glycerine were produced in this reporting quarter. Waste with a total amount of 1,634 tonnes was disposed of.
2. **Shiu Wing.** 3,725 tonnes of waste metal was delivered and processed, producing the same amount of sheared heavy ferrous scrap on site. No significant amount of waste was generated.
3. **Hung Wai.** 477 tonnes of waste wood was received by Hung Wai in the reporting quarter. Together with the waste wood received and stored on site before the reporting quarter, wood chips with a total amount 1,260 tonnes were produced. No significant amount of waste was generated.
4. **Li Tong.** 168 tonnes of WEEE was delivered and processed, producing 13 tonnes of metals and 74 tonnes of non-metals. No significant amount of waste was generated.
5. **Telford.** 142 tonnes kg of waste plastics were delivered and some of the waste plastics was processed, producing 17 tonnes of PO/PE/PET/PWC. No significant amount of waste was generated.
6. **Cosmos.** No recycling activities were carried out and no waste was disposed of.
7. **Yan Oi Tong.** 289 tonnes of waste plastics were delivered and 262 tonnes were processed by PRRC. 18 tonnes of general refuse was generated from mixed waste plastics.
8. **St James' Settlement.** 74 tonnes of WEEE was delivered and processed, producing 1,125 pieces of repaired / refurbished Electrical and Electronic Equipment (EEE), 28 tonnes of metals and 10 tonnes of non-metals. A total of 8 tonnes of waste was generated and no chemical waste was disposed of.

In terms of monitoring during operation phase EM&A, only quarterly monitoring of landfill gas (LFG) is required at service voids and utility boxes "following construction". This is because part of EcoPark lies within the 250m "LFG consultation zone" for Siu Lang Shui Landfill, located to the north of EcoPark. Construction of Phase 1 was completed in July 2009, so LFG monitoring commenced in the next reporting quarter (August to October 2009). Construction of Phase 2 was completed in November 2010, so LFG monitoring commenced in the next reporting quarter (November 2010 to January 2011).

LFG monitoring was undertaken on 27 October 2011 in this reporting quarter, and no Action/ Limit Level exceedance was recorded.

The ET has conducted monthly site inspections based on the approved checklist. Since October 2009, the checklist has been used in the monthly site inspections for various tenants. Environmental deficiencies and general observations noted during the monthly site inspections were detailed in **Section 7**. Remedial actions were recommended to tenants, and the remedial status shall be followed up in the next monthly site inspection.

In the coming quarter, operation phase LFG monitoring for Phase 1 and Phase 2 shall 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 the 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 Quality					
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 Management					
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 Contaminated 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 style="list-style-type: none"> 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. 			
		<ul style="list-style-type: none"> 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. 			

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 style="list-style-type: none"> 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
		<ul style="list-style-type: none"> 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 Chem 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 Gas					
8.7.10 & 8.7.11	6.1.2	<ul style="list-style-type: none"> Alert workers and visitors of possible LFG hazards Prohibit smoking and open fires on site Conduct regular (quarterly) LFG monitoring at mobile offices, equipment stores, etc. 	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 Visual					
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 Agreement

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 – Application No.VEP-221/2006 (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 – Application No.VEP-221/2006 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 – Application No.VEP-221/2006 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 – Application No.VEP-221/2006 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 – Application No.VEP-221/2006 (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 – Application No.VEP-221/2006 (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 – Application No.VEP-221/2006 (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 – Application No.VEP-221/2006 (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 hereinbelow).
- 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 hereinbelow) 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 – Application No.VEP-221/2006 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 – Application No.VEP-221/2006 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

16. 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 – Application No.VEP-221/2006 (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 – Application No.VEP-221/2006 (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 – Application No.VEP-221/2006 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 – Application No.VEP-221/2006 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 3

Material and Waste Throughputs

A3.1 CHAMPWAY TECHNOLOGY LIMITED (EP07-03)

Date	Waste Input (tonnes)			Product Output (tonnes)			Waste Disposal (tonnes)			
	Cooking Oil	Grease Trap Waste	Total	Biodiesel	Glycerine	Total	Inorganic Waste	Organic Waste	Water Waste [Note 1]	Total
Oct-Dec 08	130	-	130	-	-	-	-	-	-	-
Jan-Dec 09 [Note 2]	1,277	726	2,003	-	-	1,863	-	100	40	140
Jan-Dec 10 [Note 2]	1,347	1,147	2,494	1,922	84	4,254	96	143	98	337
Jan-11	106	117	223	157	5	353	4	16	15	36
Feb-11	105	145	250	110	3	162	8	47	97	151
Mar-11	107	504	611	211	6	113	8	110	211	329
Apr-11	97	725	822	185	6	218	12	259	314	584
May-11	101	1,181	1,282	261	8	190	8	205	587	800
Jun-11	113	1,189	1,302	176	5	268	12	189	633	833
Jul-11	143	1,004	1,147	291	9	181	8	187	507	702
Aug-11	133	831	964	208	6	300	10	153	412	574
Sep-11	133	874	1,007	237	7	214	12	138	449	599
Oct-11	132	700	832	124	4	128	4	137	320	461

Notes:

1. Water waste includes slurry and semi-solid waste and is disposed of at landfill
2. Updated throughout data as advised by Tenant after the corresponding Quarterly EM&A Reports were submitted

A3.2 SHIU WING STEEL LIMITED (EP08-03)

Date	Waste Input (tonnes)	Product Output (tonnes)			Waste Disposal (tonnes)
	Waste Metal/Steel Scrap/ Construction Waste	Light Ferrous Scrap (Baled)	Heavy Ferrous Scrap (Sheared)	Total	Non-ferrous Scrap / General Refuse
Apr-Dec 10 ^[Note 1]	4,562	-	4,562	4,562	-
Jan-11	1,403	-	1,403	1,403	-
Feb-11	649	-	649	649	-
Mar-11	935	-	935	935	-
Apr-11	721	-	721	721	-
May-11	1,641	-	1,641	1,641	-
Jun-11	2,564	-	2,564	2,564	-
Jul-11	1,949	-	1,949	1,949	-
Aug-11	1,033	-	1,033	1,033	-
Sep-11	1,001	-	1,001	1,001	-
Oct-11	1,692	-	1,692	1,692	-

Note:

1. Updated throughout data as advised by Tenant after the corresponding Quarterly EM&A Report was submitted

A3.3 HONG KONG HUNG WAI WOODEN BOARD COMPANY (EP06-034)

Date	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposal (tonnes)
	Waste Wood	Wooden Board	General Refuse
Jun-Dec 08	38	-	-
Jan-Dec 09	0.1	-	-
Jan-Dec 10 ^[Note 1]	4,492	1,072	-
Jan-11	220	849	-
Feb-11	106	450	-
Mar-11	182	1,398	-
Apr-11	196	396	-
May-11	176	699	-
Jun-11	151	736	-
Jul-11	102	-	-
Aug-11	114	660	-
Sep-11	343	-	-
Oct-11	20	600	-

Note:

1. Updated throughout data as advised by Tenant after the corresponding Quarterly EM&A Reports were submitted

A3.4 LI TONG GROUP (EP07-02)

Date	Waste Input (tonnes)	Product Output (tonnes)			Waste Disposal (tonnes)
	WEEE	Metals (e.g. ferrous metals, aluminium)	Non-metals (e.g. fibres, plastics)	Total	General Refuse
Sep-Dec 10 ^[Note 2]	85	3	34	12	-
Jan-11 ^[Note 2]	36	2	6	8	-
Feb-11 ^[Note 2]	21	2	6	7	-
Mar-11	33	9	2	11	-
Apr-11	38	11	6	16	-
May-11	39	-	18	18	-
Jun-11 ^[Note 2]	37	6	18	24	-
Jul-11 ^[Note 2]	31	9	30	39	-
Aug-11	50	8	28	36	-
Sep-11	53	2	35	37	-
Oct-11	65	4	11	14	-

Note:

1. All figures are rounded and presented in integer form
2. Updated throughout data as advised by Tenant after the corresponding Quarterly EM&A Reports were submitted

A3.5 HONG KONG TELFORD ENVIROTECH GROUP LIMITED (EP08-01)

Date	Waste Input (tonnes)	Product Output (tonnes) [Note 1]	Waste Disposal (tonnes) [Note 1]
	Waste Plastic	PO, PE, PET, PWC	General Refuse
Jul-Dec 09	20	-	-
Jan-Dec 10	124	-	-
Jan-11	30	5	-
Feb-11	8	-	-
Mar-11	24	10	-
Apr-11	34	56	-
May-11	93	43	-
Jun-11	99	35	-
Jul-11	57	63	-
Aug-11	26	17	-
Sep-11	46	-	-
Oct-11	70	-	-

Note:

1. Tenant has not yet commenced formal recycling process within the lot

A3.6 YOT EcoPark Plastic Resources Recycling Centre (P7)

Date	Waste Input (tonnes)	Product Output (tonnes)	Waste Disposal (tonnes)
	Waste Plastic	Processed Plastic	General Refuse
Apr-Dec 10 ^[Note 1]	615	417	111
Jan-11 ^[Note 1]	99	67	14
Feb-11 ^[Note 1]	59	53	12
Mar-11 ^[Note 1]	60	78	16
Apr-11 ^[Note 1]	92	69	22
May-11 ^[Note 1]	86	87	18
Jun-11 ^[Note 1]	90	94	15
Jul-11 ^[Note 1]	99	75	12
Aug-11	116	79	7
Sep-11	78	85	5
Oct-11	96	98	6

Note:

1. Updated throughout data as advised by Tenant after the corresponding Quarterly EM&A Report was submitted

A3.7 St. James' Settlement "WEEE GO GREEN" EcoPark (P5)

Date	Waste Input (tonnes)	Product Output (tonnes)					Waste Disposal (tonnes)		
	WEEE	Repaired / Refurbished EEE (pieces) ^[Note 2]	Reusable Parts	Metals (e.g. ferrous metals, aluminium)	Non-metals (e.g. fibres, plastics)	Total	General Refuse	Chemical Waste	Total
Oct-Dec 10 ^[Note 2]	52	1,023	-	-	0.6	1,023 pieces + 0.6 tonnes	1.9	0.2	2.2
Jan-11 ^[Note 2]	27	344	-	16	7.2	344 pieces + 23 tonnes	1.0	0.6	1.6
Feb-11 ^[Note 2]	19	323	-	-	0.1	323 pieces + 0.1 tonnes	0.5	-	0.5
Mar-11 ^[Note 2]	36	415	-	-	0.8	415 pieces + 0.8 tonnes	1.3	0.1	1.4
Apr-11 ^[Note 2]	16	310	-	9	0.1	310 pieces + 8.9 tonnes	0.7	0.6	1.3
May-11	14	328	-	-	12.2	328 pieces + 12.2 tonnes	1.0	-	1.0
Jun-11	29	590	-	21	0.1	590 pieces + 21 tonnes	1.6	-	1.6
Jul-11	26	486	-	-	4.5	486 pieces + 4.5 tonnes	0.7	0.6	1.3
Aug-11	30	555	-	12	0.0	555 pieces + 11.6 tonnes	1.7	-	1.7
Sep-11	27	286	-	3	7.4	286 pieces + 10.8 tonnes	-	-	-
Oct-11	17	284	-	13	2.4	284 pieces + 15.6 tonnes	6.6	-	6.6

Notes:

1. All figures are rounded and presented in integer form
2. Updated unit as advised by Tenant after the corresponding Quarterly EM&A Report was submitted

APPENDIX 4

Calibration Certificate of Infrared Gas Analyser

FUGRO TECHNICAL SERVICES LIMITED

MaterialLab Division,
Fugro Development Centre,
5 Lok Yi Street, 17 M.S. Castle Peak Road,
Tai Lam, Tuen Mun, N.T., Hong Kong.

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

MaterialLab

REPORT ON CALIBRATION OF INFRA RED GAS ANALYSER

Client : Fugro Technical Services Limited – MaterialLab 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 : 23/06/2011

Next calibration date : 23/12/2011

Method used : In-house method (Comparison with Standard Gas)

Results :

Parameters	Standard Gas Concentration, % volume	Infra Red Gas Analyser Reading, % volume	Deviation, % volume
Methane (CH ₄)	1.02	0.9	-0.12
Carbon dioxide (CO ₂)	15.1	15.1	0.0
Oxygen (O ₂)	1.03	0.9	-0.13

Calibrated by : C. F. Leung

Certified by : Raymond K. F. Wong

Approved Signatory : Raymond K. F. Wong
Assistant Manager – Chemical & Environmental

Date

** End of Report **

23/06/2011

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

APPENDIX 5

Graphical Plots of LFG Monitoring

Contract No. EP/SP/53/06

Provision of Management Services for EcoPark in Tuen Mun Area 38

EM&A Services

Landfill Gas Monitoring Results - October 2011

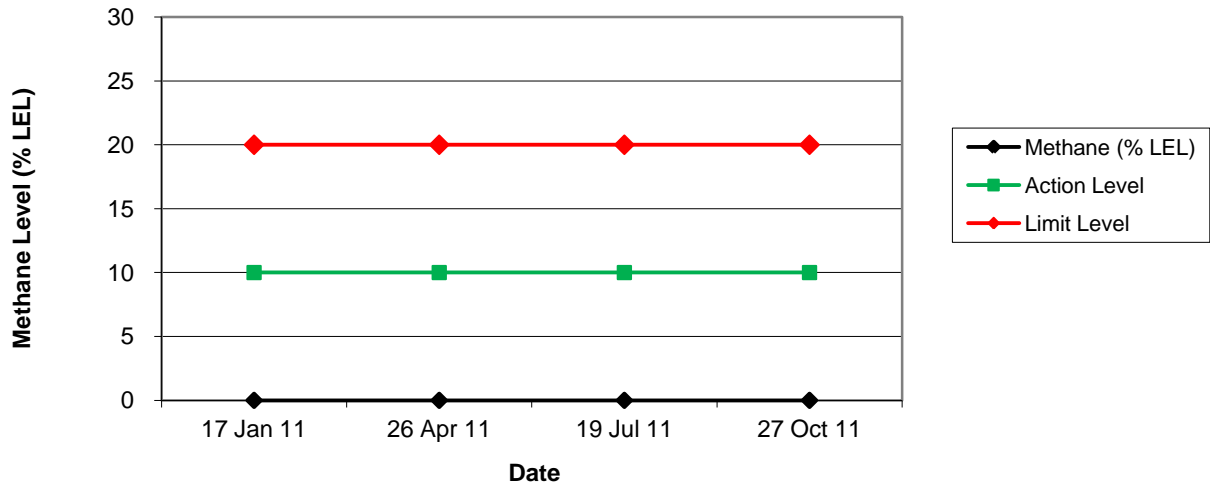
Monitoring Station ID	Monitoring Locations	Date	Weather Conditions	Temperature (degree)	Start Time	End Time	Measurement Results					Action Level			Limit Level			Remarks
							Methane		Oxygen	Carbon Dioxide	Barometric Pressure	Methane	Oxygen	Carbon Dioxide	Methane	Oxygen	Carbon Dioxide	
							% v/v	% 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	27 Oct 11	Fine	24	10:49	10:53	0.0	0	21	0.0	1018	> 10	< 19	> 0.5	> 20	< 18	> 1.5	Nil
EP1-2	PCCW below-ground chamber outside Lot EP08-01			24	10:34	10:38	0.0	0	21	0.1	1020							Nil
EP1-3	HGC Broadband below-ground chamber outside Lot EP08-03			24	10:26	10:30	0.0	0	21	0.0	1020							Nil
EP2-1	HGC Broadband below-ground chamber outside Lot P1			24	10:39	10:43	0.0	0	21	0.0	1020							Nil
EP2-2	HGC Broadband below-ground chamber outside Lot P3			24	10:42	10:46	0.0	0	21	0.0	1020							Nil

Note:

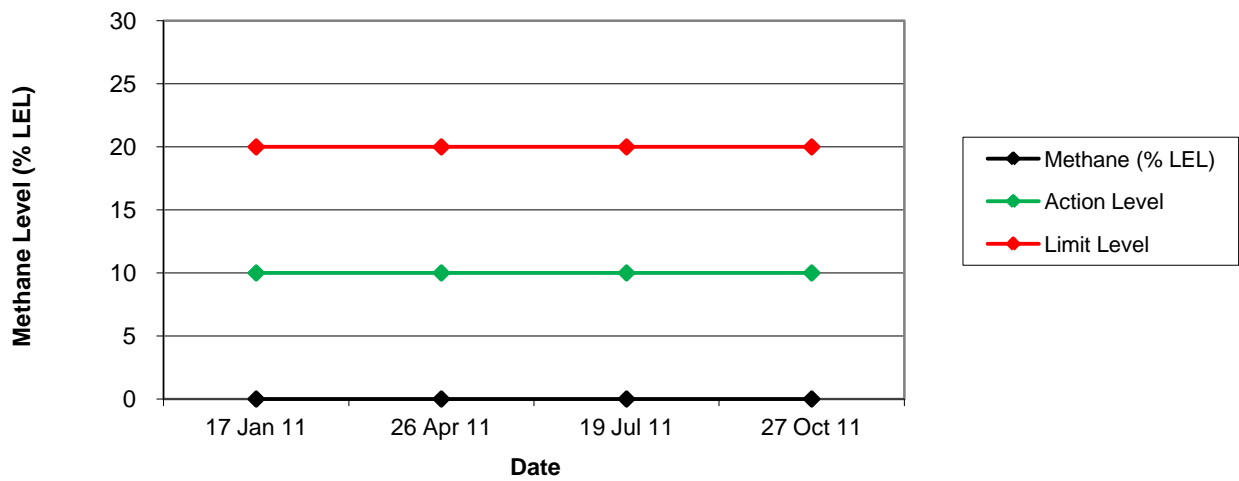
(1) Underlined figure indicates an exceedance of Action Level

(2) Shaded area indicates an exceedance of Limit Level

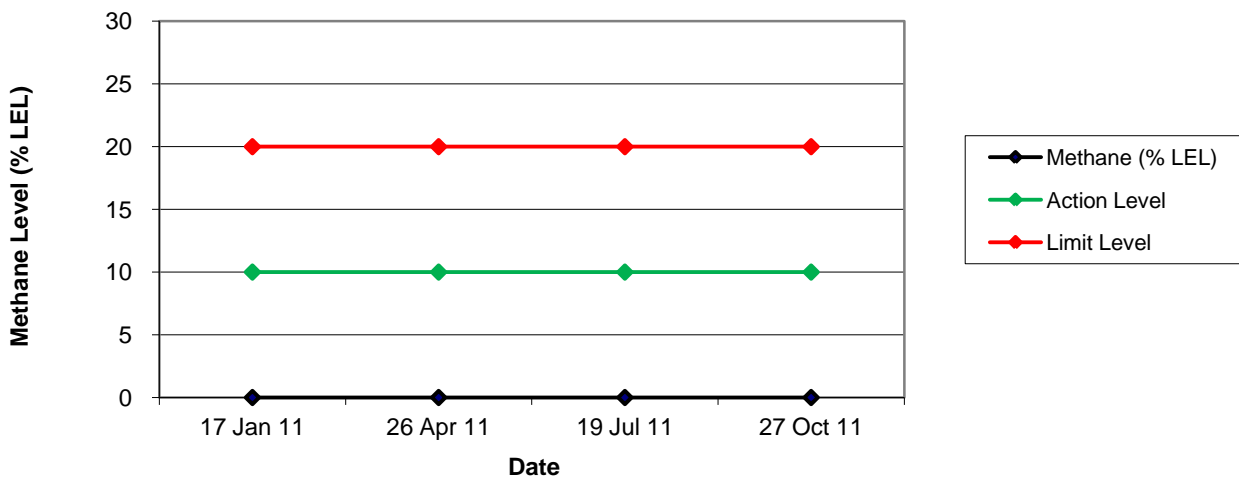
Measured Methane Level (% LEL) at EP1-1



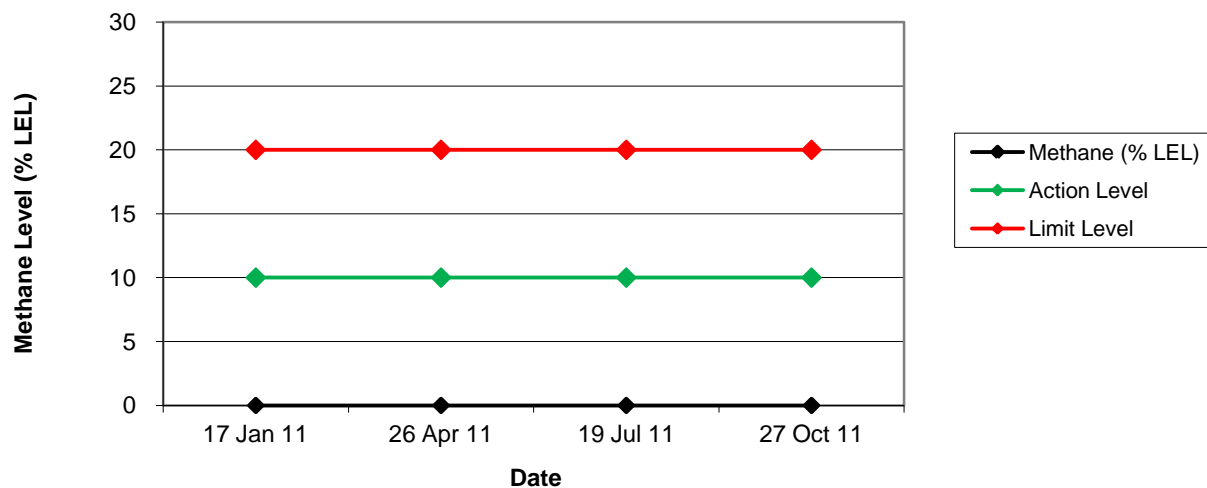
Measured Methane Level (% LEL) at EP1-2



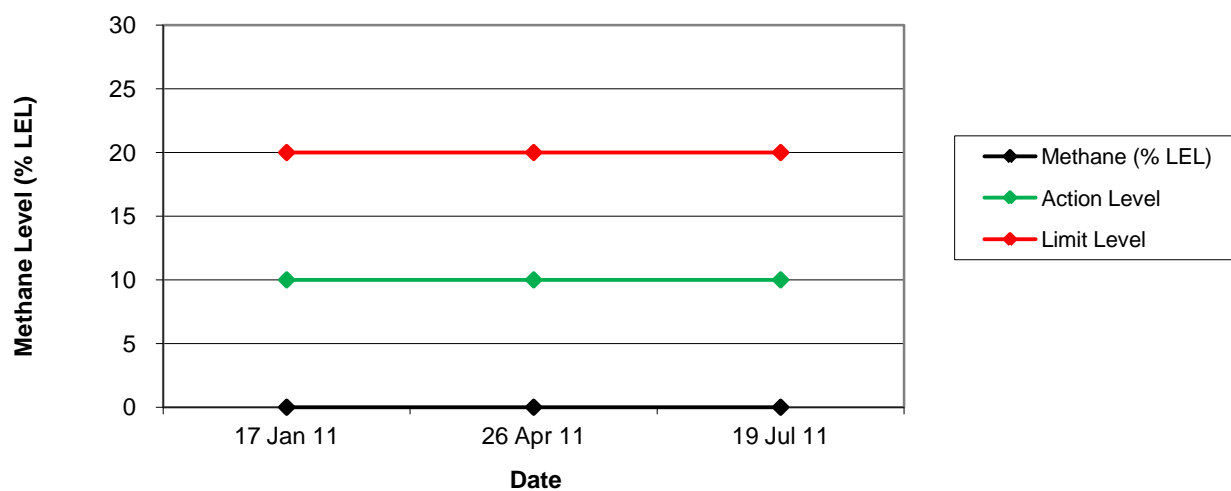
Measured Methane Level (% LEL) at EP1-3



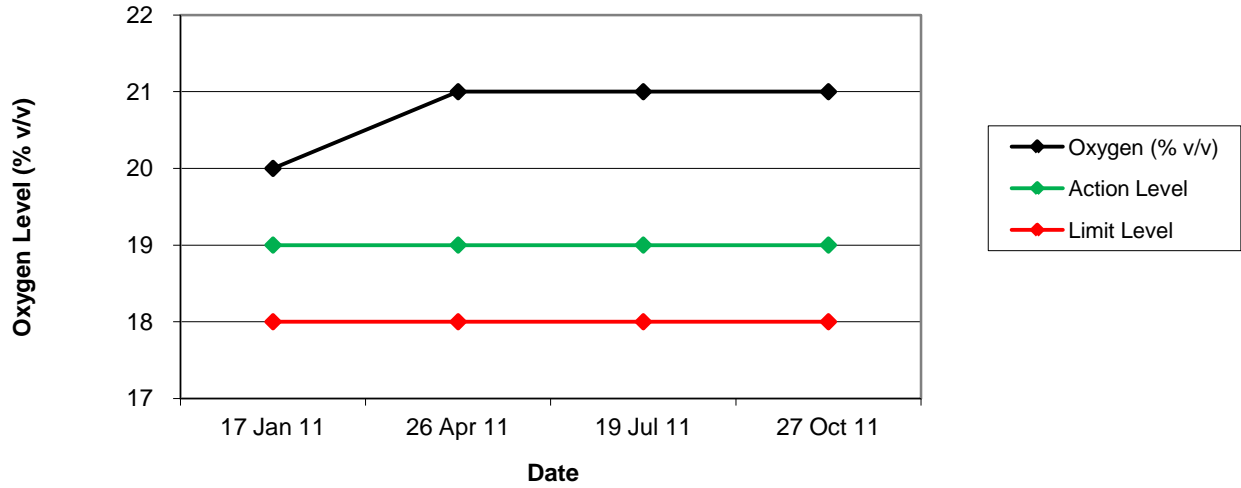
Measured Methane Level (% LEL) at EP2-1



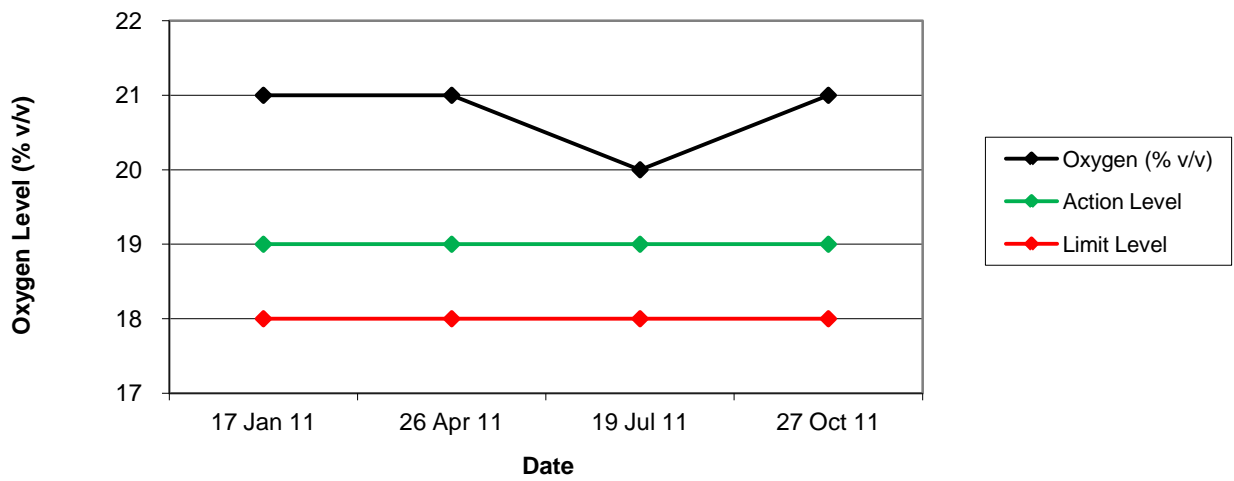
Measured Methane Level (% LEL) at EP2-2



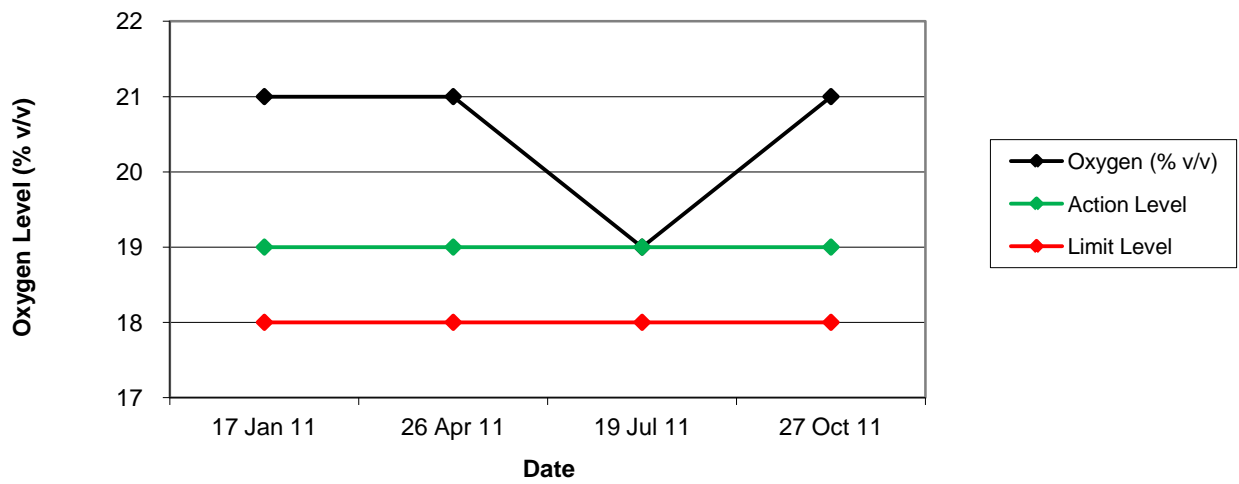
Measured Oxygen Level (% v/v) at EP1-1



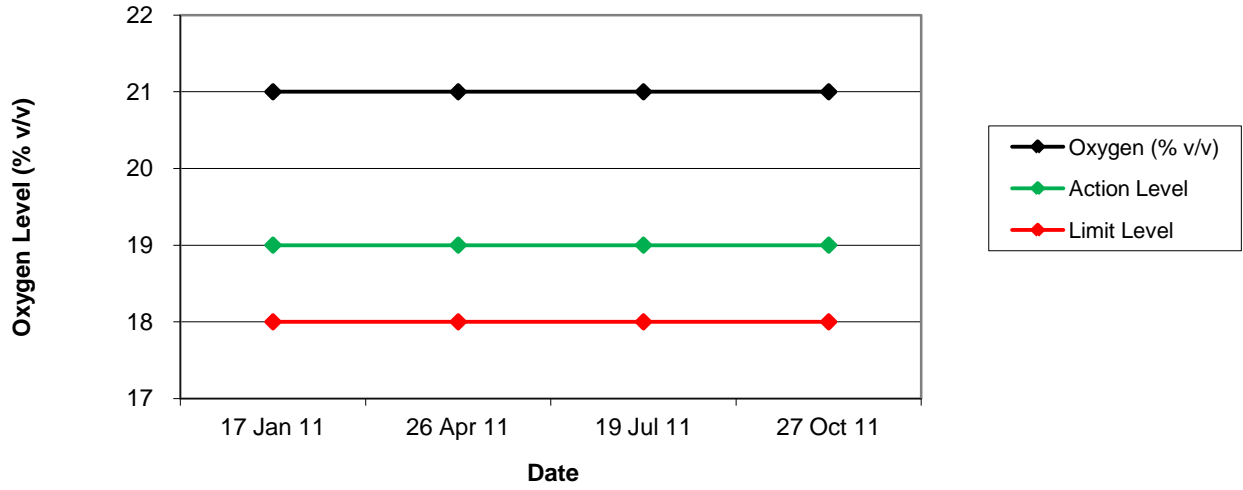
Measured Oxygen Level (% v/v) at EP1-2



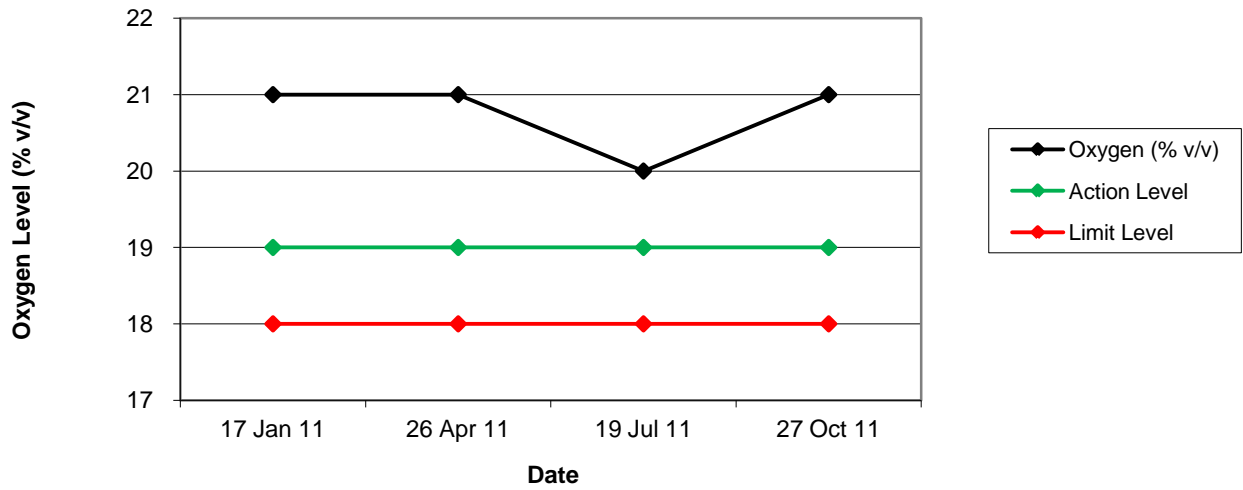
Measured Oxygen Level (% v/v) at EP1-3



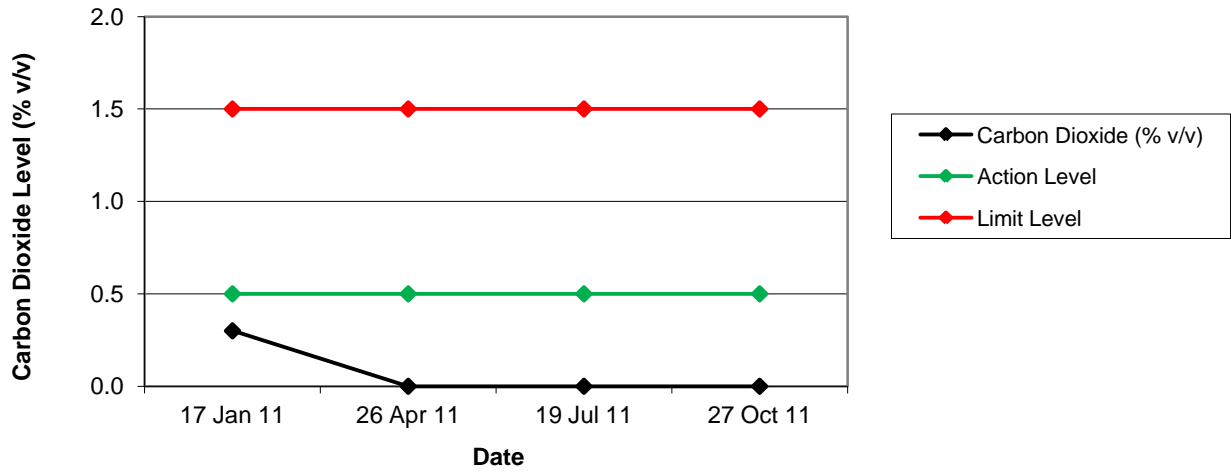
Measured Oxygen Level (% v/v) at EP2-1



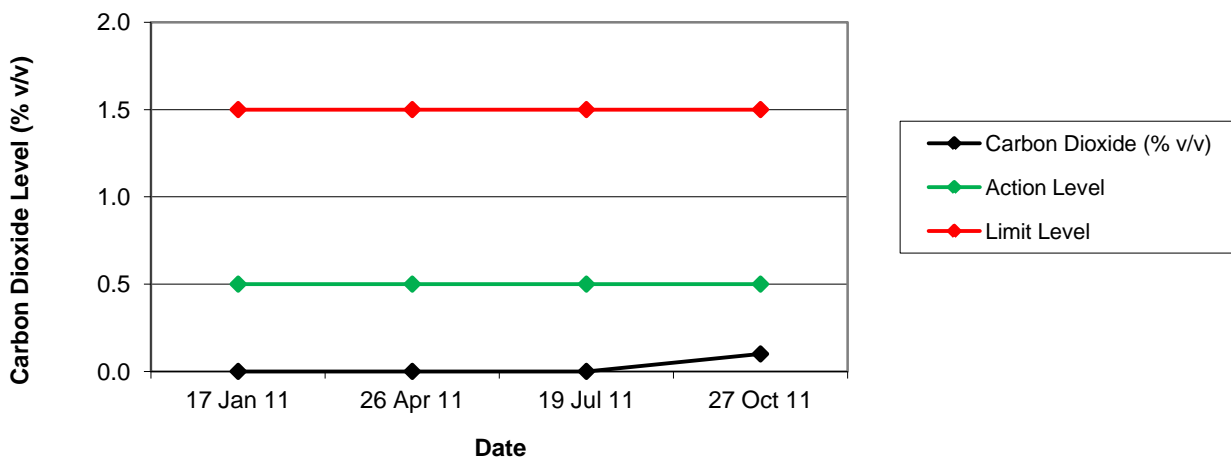
Measured Oxygen Level (% v/v) at EP2-2



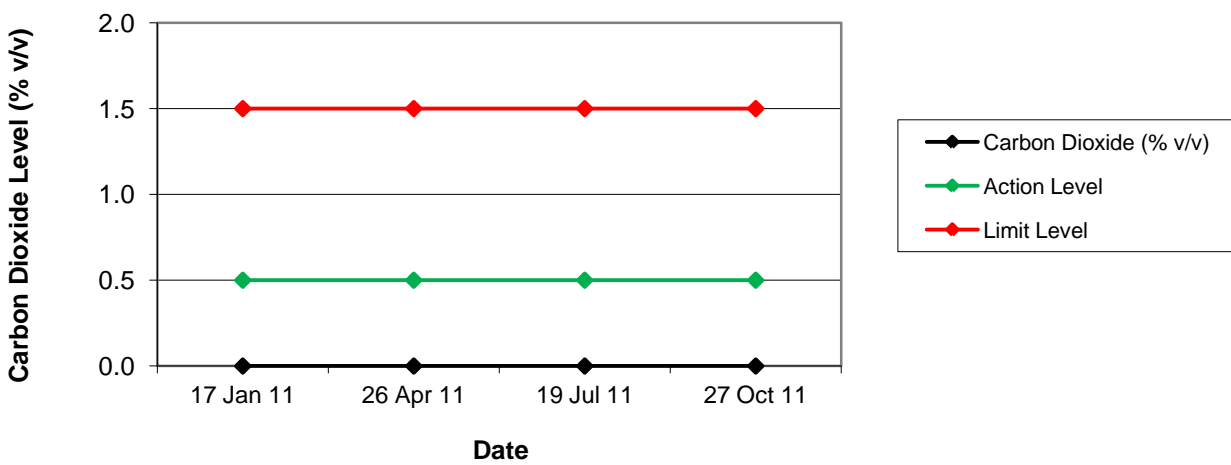
Measured Carbon Dioxide Level (% v/v) at EP1-1



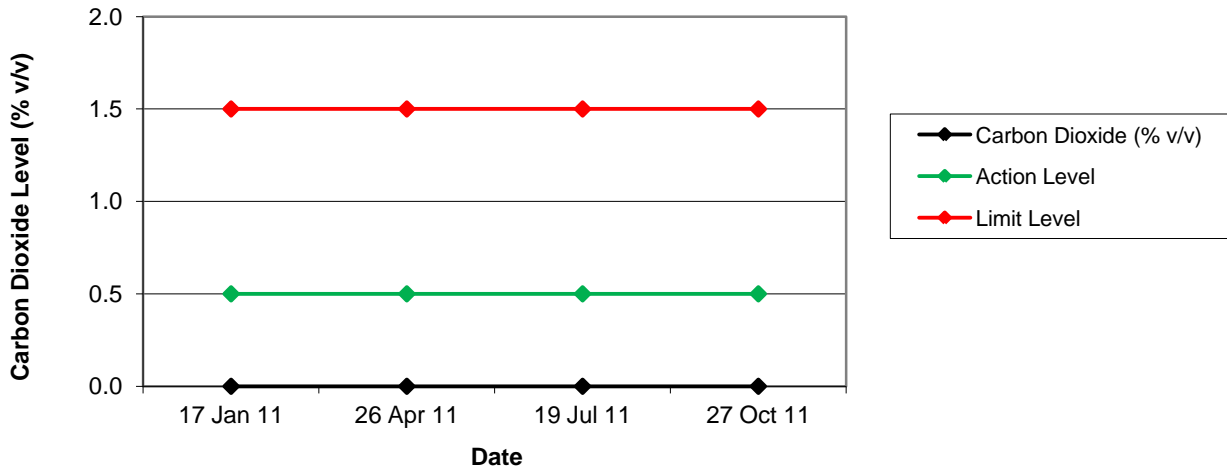
Measured Carbon Dioxide Level (% v/v) at EP1-2



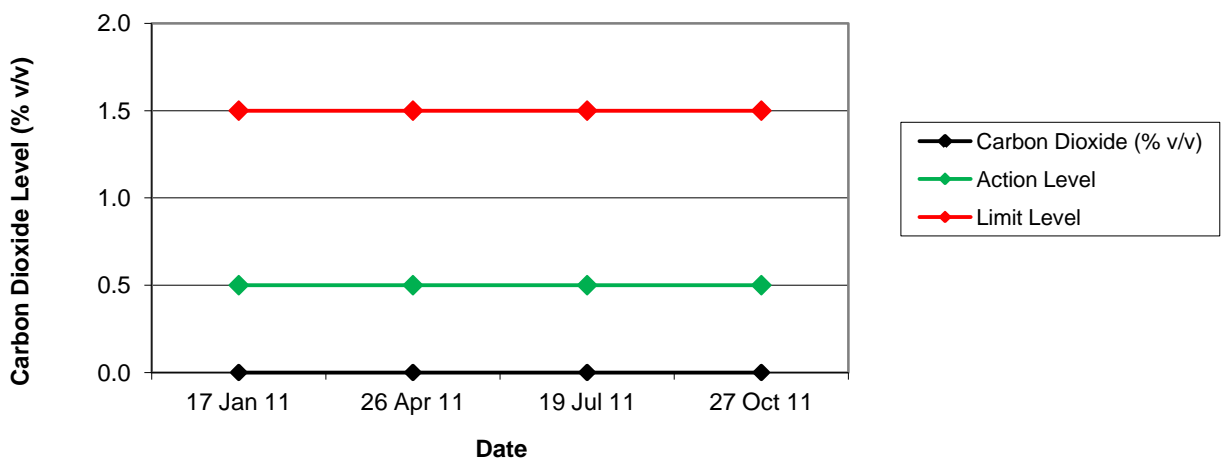
Measured Carbon Dioxide Level (% v/v) at EP1-3



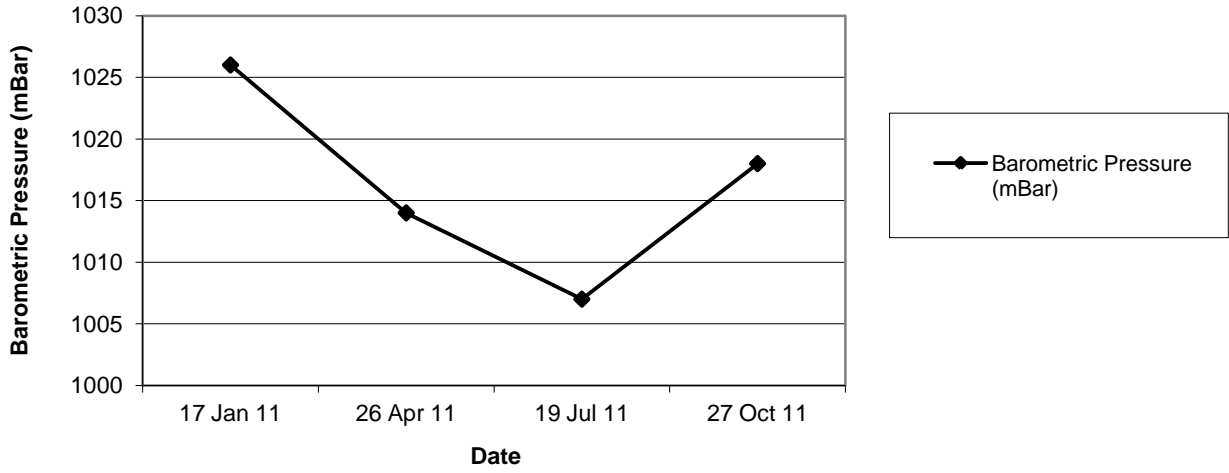
Measured Carbon Dioxide Level (% v/v) at EP2-1



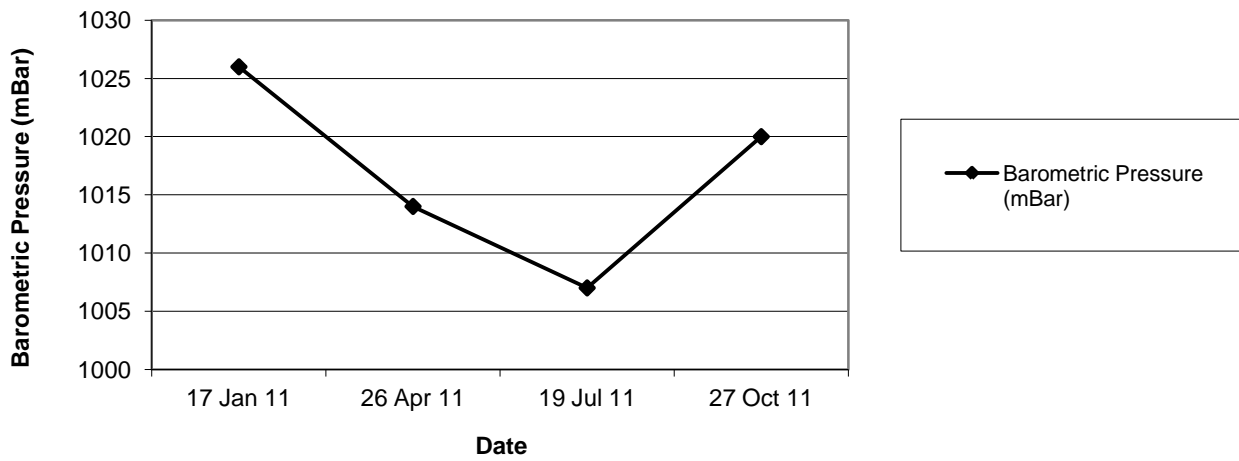
Measured Carbon Dioxide Level (% v/v) at EP2-2



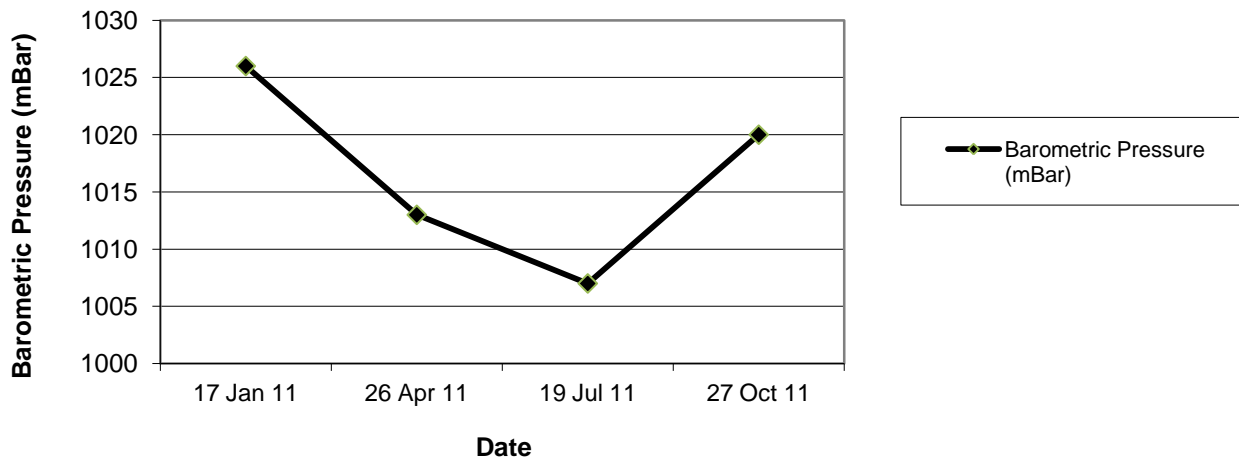
Measured Barometric Pressure (mBar) at EP1-1



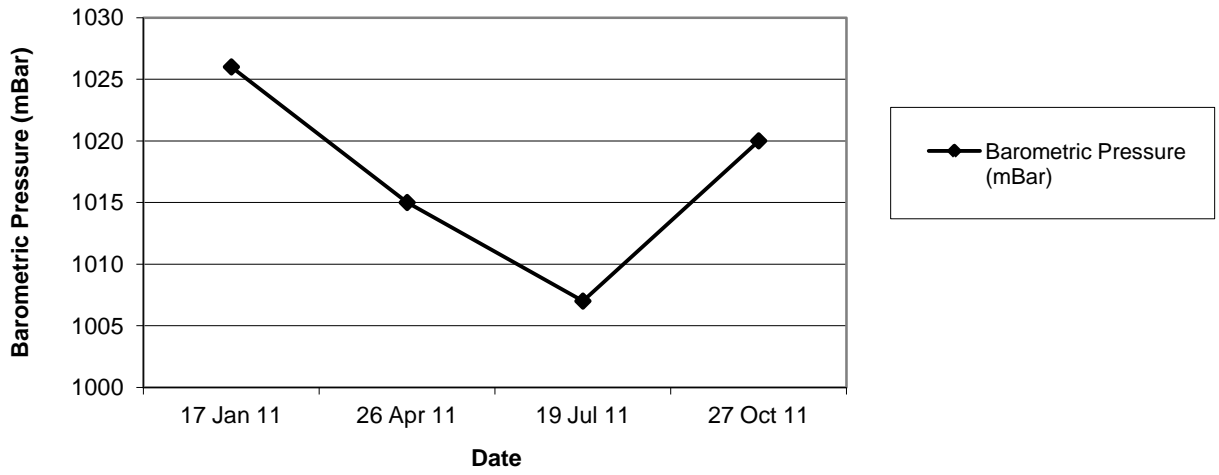
Measured Barometric Pressure (mBar) at EP1-2



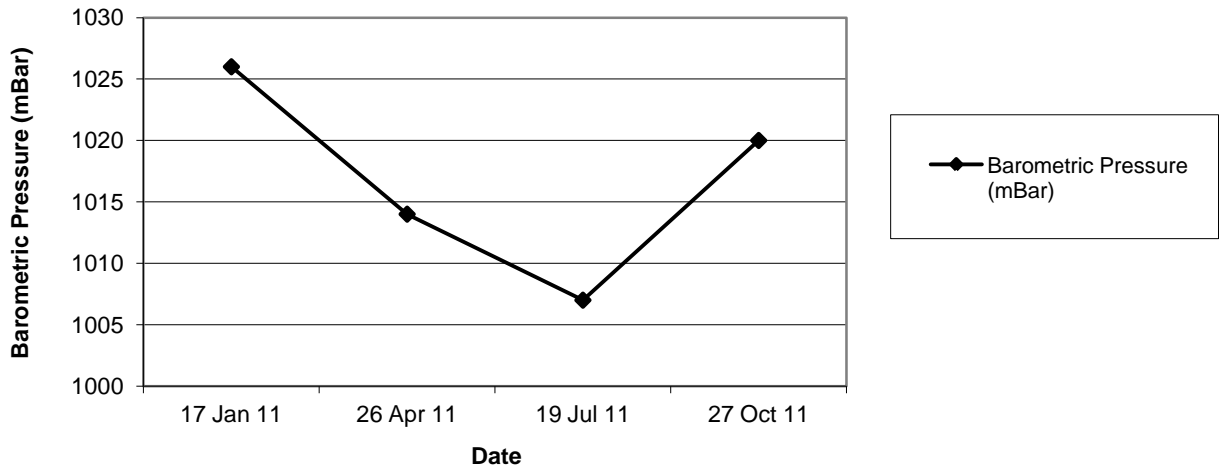
Measured Barometric Pressure (mBar) at EP1-3



Measured Barometric Pressure (mBar) at EP2-1



Measured Barometric Pressure (mBar) at EP2-2



APPENDIX 6

Tenant-specific Audit Checklists for the Reporting Quarter

APPENDIX 6.1

Tenant-specific Audit Checklists for the Reporting Quarter

Champway (EP07-03)

Audit Details

Tenant	Champway Technology Ltd		
Date & Time	Date 26 August 2011	Time 10:15am	
Lot No.	EP07-03		
Audit Ref.	13		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	30 °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

	Description	Yes	No	N/A	Remarks
1.1	EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Policy documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Management Plan updated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.4	a. Emergency Response Plan (ERP) documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's ERP is documented. Tenant follows this.
	b. Drill / training records available?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Tenant does not keep records for ERP training.
1.5	Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tenant keeps a training record for BPI.
1.6	Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Previous complaints 002 and 003 were closed on 19 July 2011.
1.7	Waste Management Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's WMP is documented. Tenant follows this.

2. Water Quality

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

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.9 a. Processes / activities are located under a covered area?				
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The stop-logs have been passed to Tenant, who shall install in the perimeter drainage channel as and when necessary.
c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oil replacement (of the heat (oil) 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. If yes, oil and grease removed regularly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Collected by licenced collector?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SP No. L-25-017 (1).
	b. SP License conditions / monitoring requirements met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Odour	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes – see Follow-up Action #5.
3.2	a. Any odour detected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b. If yes, can the source be identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	From the gaps of 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, grease trap waste storage tank, uncovered oil buckets and oil stains on ground.
	c. Odorous materials are covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If odour control system is installed, is it operating normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Odour is treated by activated carbon. Activated carbon will be replaced every week or when necessary. See Follow-up Action #3 for the storage of activated carbon.
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No dusty materials were found to be used on-site.
	Dust Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required according to the PRC.
3.4	a. Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b. Monitoring frequency met the requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.5	Enclosures are provided around the main dust-generating activities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.6	Open burning is avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.13 All air pollution control systems are properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Registration No. 6311-421-C3617-01 for spent lubricating oil and spent mineral oil.
4.2 Provision of sufficient waste disposal points/ receptacles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Waste disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2-3 times a week.
4.4 Sorting of materials on-site for reuse or disposal to designated outlet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.5 Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Sludge is collected by a licensed collector at regular intervals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Packaging of Chemical Waste				
4.7 a. Stored in suitable container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Container properly closed or sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Spillage cleaned up immediately through the use of an absorbent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No spillage.
d. Approval obtained for capacity of containers > 450L?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Labelling of Chemical Waste				
4.8 a. Label is securely attached, clean and visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Label is in proper dimension and bilingual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Information is accurate and sufficient?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management (continued)

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

5. Other Issues

Description	Yes	No	N/A	Remarks
Landfill Gas Hazard (within LFG Consultation Zone)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Outside the LFG Consultation Zone.
5.1 a. Workers and visitors alerted to possible LFG hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Smoking and open fires prohibited?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.3 Good housekeeping?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	There are a number of outstanding issues relating to oil stains and odour that need to be resolved.
5.4 Any areas within the lot to be used for recycling processes are concrete paved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.5 Valid calibration certificate for any monitoring equipment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No monitoring equipment.
Dangerous Goods	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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).
5.6 a. Valid license for manufacturing / storing dangerous goods?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Storage area in compliance with the approved plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Storage area(s) has been securely locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Total storage capacity in compliance with the relevant statutory requirement?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. Proper Labelling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f. Dangerous goods properly packaged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.7 Potential stagnant pools cleared and mosquito breeding prevented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Follow-up Action #4.

Action Items from This Audit

No. Action

Expected By

- Oil stain was found at the reserved area for EcoPark’s Wastewater Treatment Plant (WWTP). The Tenant was reminded to remove the oil stain and replace the drip tray which was almost full.

16 September
 2011



Follow-up from Previous Audits

No. Follow-up from Previous Audit Dated 19 July 2011

Status

- Oil leakage/stains were still found around the lot. Since these items are potential sources of odour, the Tenant was again reminded to remove the oil stains and dispose of waste materials properly (repeated observation since 22 February 2011).

Outstanding




- Oil stains were still found at the corner of the lot and inside the surface channels. The Tenant was again reminded to clear the contaminated soil properly and put sandbags at the edge so as to prevent the leaked oil from entering the surface channels (repeated observation since 21 June 2011).

Outstanding


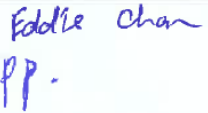



Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 19 July 2011	Status
3.	Most of the activated carbon has been stored indoor, but some of activated carbon was still stored in an open environment. The Tenant was again reminded to store such material in a dry and weatherproof environment so as to optimise its removal efficiency (repeated observation since 21 June 2011).	Outstanding
		
4.	Stagnant water was no longer found on containers during the audit.	Closed
5.	Odour nuisance with rotten, decayed and/or sour smell (酸餿氣味) was still noted around the lot. The Tenant was again reminded to implement mitigation measures suggested in Incident/Complaint Report 003. Two extraction fans and activated carbon filters were in use during the audit. The situation will be monitored in the next Monthly Site Audit in September 2011 (repeated observation since 19 July 2011).	Outstanding

Audit Summary and Sign-off

The Tenant should settle the odour nuisance as soon as possible. A number of observations remain outstanding from previous months – the Tenant is urged to address these issues without further delay.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Champway	Serco Guardian JV
Signed By	Lily LIU	-	Teddy CHOI	Morgan CHIU
Role	ET Representative	-	Executive Director	Park Manager
Signature	 pp		 PP.	

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

Audit Details

Tenant	Champway Technology Ltd		
Date & Time	Date 30 September 2011	Time 3:20pm	
Lot No.	EP07-03		
Audit Ref.	14		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	27 °C		
Humidity	<input type="checkbox"/> Low	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> High

1. General

	Description	Yes	No	N/A	Remarks
1.1	EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Policy documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Management Plan updated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.4	a. Emergency Response Plan (ERP) documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's ERP is documented. Tenant follows this.
	b. Drill / training records available?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Tenant does not keep records for ERP training.
1.5	Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tenant keeps a training record for BPI.
1.6	Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7	Waste Management Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's WMP is documented. Tenant follows this.

2. Water Quality

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

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.9 a. Processes / activities are located under a covered area?				
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oil replacement (of the heat (oil) 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. If yes, oil and grease removed regularly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Collected by licenced collector?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SP No. L-25-017 (1).
	b. SP License conditions / monitoring requirements met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Odour	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes – see Follow-up Action #4.
3.2	a. Any odour detected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b. If yes, can the source be identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	From the gaps of 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, grease trap waste storage tank, uncovered oil buckets and oil stains on ground.
	c. Odorous materials are covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If odour control system is installed, is it operating normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Odour is treated by activated carbon. Activated carbon will be replaced every week or when necessary. See Follow-up Action #3 for the storage of activated carbon.
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No dusty materials were found to be used on-site.
	Dust Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required according to the PRC.
3.4	a. Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b. Monitoring frequency met the requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.5	Enclosures are provided around the main dust-generating activities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.6	Open burning is avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.13 All air pollution control systems are properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Registration No. 6311-421-C3617-01 for spent lubricating oil and spent mineral oil.
4.2 Provision of sufficient waste disposal points/ receptacles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Waste disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2-3 times a week.
4.4 Sorting of materials on-site for reuse or disposal to designated outlet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.5 Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Sludge is collected by a licensed collector at regular intervals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Packaging of Chemical Waste				
4.7 a. Stored in suitable container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Container properly closed or sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Spillage cleaned up immediately through the use of an absorbent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No spillage.
d. Approval obtained for capacity of containers > 450L?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Labelling of Chemical Waste				
4.8 a. Label is securely attached, clean and visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Label is in proper dimension and bilingual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Information is accurate and sufficient?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management (continued)

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

5. Other Issues

Description	Yes	No	N/A	Remarks
Landfill Gas Hazard (within LFG Consultation Zone)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Outside the LFG Consultation Zone.
5.1 a. Workers and visitors alerted to possible LGF hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Smoking and open fires prohibited?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.3 Good housekeeping?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	There are a number of outstanding issues relating to oil stains and odour that need to be resolved.
5.4 Any areas within the lot to be used for recycling processes are concrete paved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.5 Valid calibration certificate for any monitoring equipment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No monitoring equipment.
Dangerous Goods	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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).
5.6 a. Valid license for manufacturing / storing dangerous goods?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Storage area in compliance with the approved plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Storage area(s) has been securely locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Total storage capacity in compliance with the relevant statutory requirement?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. Proper Labelling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f. Dangerous goods properly packaged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.7 Potential stagnant pools cleared and mosquito breeding prevented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Follow-up Action #5.

Action Items from This Audit

No.	Action	Expected By
1.	No critical issues were identified.	N/A

Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 26 August 2011	Status
-----	--	--------

- | | | |
|----|---|-------------|
| 1. | Oil leakage/stains were still found around the lot. Since these items are potential sources of odour, the Tenant was again reminded to remove the oil stains and dispose of waste materials properly (repeated observation since 22 February 2011). | Outstanding |
|----|---|-------------|



- | | | |
|----|---|--------|
| 2. | Most of the oil stains at the corner of the lot were removed. The Tenant was reminded to pay attention to such issues so as to prevent the leaked oil from entering the surface channels (repeated observation since 21 June 2011). | Closed |
|----|---|--------|



- | | | |
|----|--|-------------|
| 3. | As advised by the Tenant, some unused activated carbon was still stored in an open environment. The Tenant was again reminded to store such material in a dry and weatherproof environment so as to optimise its removal efficiency (repeated observation since 21 June 2011). | Outstanding |
|----|--|-------------|

- | | | |
|----|---|--------|
| 4. | Although odour nuisance with rotten, decayed and/or sour smell (酸餿氣味) was still noted around the lot, the smell has significantly improved compared with June and July 2011. As advised by the Tenant, two extraction fans and activated carbon filters were in use during the audit. The Tenant was reminded to switch on additional extraction fans and activated carbon filters if necessary. (repeated observation since 19 July 2011). | Closed |
|----|---|--------|

Follow-up from Previous Audits

No. Follow-up from Previous Audit Dated 26 August 2011

Status


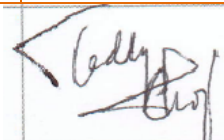

5. Oil stain was no longer found at the reserved area for EcoPark's Wastewater Treatment Plant (WWTP), yet stagnant water was found in an uncovered bucket. The Tenant was reminded to clear the stagnant water ASAP so as to prevent the breeding of mosquito.

Outstanding



Audit Summary and Sign-off

Several observations such as oil stains on ground, storage of activated carbon and stagnant water remain outstanding from previous months – the Tenant is urged to address these issues without further delay.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Champway	Serco Guardian JV
Signed By	Carman CHUNG	-	Teddy CHOI	Morgan CHIU
Role	ET Site Auditor	-	Executive Director	Park Manager
Signature				

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

Audit Details

Tenant	Champway Technology Ltd		
Date & Time	Date 27 October 2011	Time 10:20am	
Lot No.	EP07-03		
Audit Ref.	15		
IEC Joint Inspection	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	24 °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

	Description	Yes	No	N/A	Remarks
1.1	EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Policy documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's Environmental Policy is documented. Tenant follows this.
1.3	Environmental Management Plan updated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.4	a. Emergency Response Plan (ERP) documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's ERP is documented. Tenant follows this.
	b. Drill / training records available?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Tenant does not keep records for ERP training.
1.5	Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tenant keeps a training record for BPI.
1.6	Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7	Waste Management Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's WMP is documented. Tenant follows this.

2. Water Quality

Description	Yes	No	N/A	Remarks
2.1 Valid Effluent Discharge License available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Licence No.: WT00004430-2009 valid until 31 July 2014.
2.2 Any wastewater treatment facility prior to effluent discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil interceptor & grease trap.
If yes, facility is properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Effluent Monitoring				
2.3 a. Sampling / Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	As per the discharge licence, self-monitoring shall be performed when required.
b. Monitoring frequency met the license requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.4 Surface run-off control measures in place and adequately maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.5 Surface run-off discharging into drainage system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 All manholes are covered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7 Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Action #1.
2.8 Drainage system is well maintained to prevent flooding and overflow?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.9 a. Processes / activities are located under a covered area?				
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oil replacement (of the heat (oil) 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. If yes, oil and grease removed regularly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Collected by licenced collector?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SP No. L-25-017 (1).
	b. SP License conditions / monitoring requirements met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Odour	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes but the odour was relatively minor.
3.2	a. Any odour detected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b. If yes, can the source be identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	From the gaps of 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, grease trap waste storage tank, uncovered oil buckets and oil stains on ground.
	c. Odorous materials are covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If odour control system is installed, is it operating normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Odour is treated by activated carbon. Activated carbon will be replaced every week or when necessary. See Follow-up Action #2 for the storage of activated carbon.
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No dusty materials were found to be used on-site.
	Dust Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required according to the PRC.
3.4	a. Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b. Monitoring frequency met the requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.5	Enclosures are provided around the main dust-generating activities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.6	Open burning is avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.13 All air pollution control systems are properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Registration No. 6311-421-C3617-01 for spent lubricating oil and spent mineral oil.
4.2 Provision of sufficient waste disposal points/ receptacles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Waste disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2-3 times a week.
4.4 Sorting of materials on-site for reuse or disposal to designated outlet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.5 Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Sludge is collected by a licensed collector at regular intervals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Packaging of Chemical Waste				
4.7 a. Stored in suitable container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Container properly closed or sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Spillage cleaned up immediately through the use of an absorbent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No spillage.
d. Approval obtained for capacity of containers > 450L?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Labelling of Chemical Waste				
4.8 a. Label is securely attached, clean and visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Label is in proper dimension and bilingual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Information is accurate and sufficient?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management (continued)

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

5. Other Issues

Description	Yes	No	N/A	Remarks
Landfill Gas Hazard (within LFG Consultation Zone)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Outside the LFG Consultation Zone.
5.1 a. Workers and visitors alerted to possible LGF hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Smoking and open fires prohibited?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.3 Good housekeeping?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	There are a number of outstanding issues relating to oil stains and stagnant water that need to be resolved.
5.4 Any areas within the lot to be used for recycling processes are concrete paved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.5 Valid calibration certificate for any monitoring equipment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No monitoring equipment.
Dangerous Goods	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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).
5.6 a. Valid license for manufacturing / storing dangerous goods?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Storage area in compliance with the approved plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Storage area(s) has been securely locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Total storage capacity in compliance with the relevant statutory requirement?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. Proper Labelling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f. Dangerous goods properly packaged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.7 Potential stagnant pools cleared and mosquito breeding prevented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Follow-up Action #3.

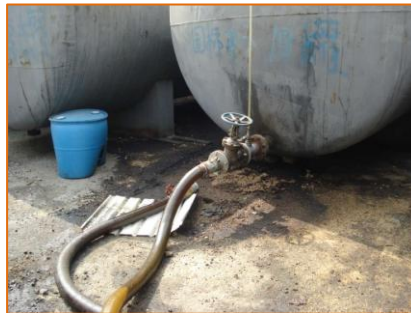
Action Items from This Audit

No.	Action	Expected By
1.	Leakage from containers was observed. The Tenant was reminded to replace the containers as soon as possible and clear the leaked material.	11 Nov 2011



Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 30 September 2011	Status
1.	Oil leakage/stains were still found around the lot. Since these items are potential sources of odour, the Tenant was again reminded to remove the oil stains and dispose of waste materials properly (repeated observation since 22 February 2011).	Outstanding



2.	As advised by the Tenant, the activated carbon observed to be stored in an open environment had already been used.	Closed
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Follow-up from Previous Audits

No. Follow-up from Previous Audit Dated 30 September 2011

Status



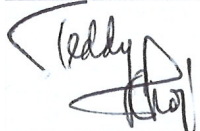

3. Stagnant water was still found in an uncovered bucket at the reserved area for EcoPark's Wastewater Treatment Plant (WWTP). The Tenant was again reminded to clear the stagnant water ASAP so as to prevent the breeding of mosquito (repeated observation since 26 August 2011).

Outstanding



Audit Summary and Sign-off

The Tenant should replace the leaking containers as soon as possible and clear the leaked material. Additionally, observations such as oil stains on ground and stagnant water remain outstanding from previous months – the Tenant is urged to address these issues without further delay.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Champway	Serco Guardian JV
Signed By	Antony WONG	Sharifah OR	Teddy CHOI	Morgan CHIU
Role	ET Leader	IEC	Executive Director	Park Manager
Signature				

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

APPENDIX 6.2

Tenant-specific Audit Checklists for the Reporting Quarter

Shiu Wing (EP08-03)

Audit Details

Tenant	Shiu Wing Steel Limited		
Date & Time	Date 26 August 2011	Time 9:40am	
Lot No.	EP08-03		
Audit Ref.	13		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	29 °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The Tenant is going to integrate the Environmental Policy into their Safety Operations Manual soon.
1.3 Environmental Management Plan updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The Tenant is going to integrate the EMP into their Safety Operations Manual soon.
1.4 a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The ERP has been included in the Tenant's Safety Operations Manual.
b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant advised the training records were kept at their HR department.
1.5 Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant keeps a training record for BPI.
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's WMP is documented.

2. Water Quality

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

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9 a. Processes / activities are located under a covered area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The stop-logs have been passed to Tenant, who shall install in the perimeter drainage channel as and when necessary.
c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water was found.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No equipment oil and lubrication replacement were performed inside the tenant lot.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

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

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Misting system and industrial dust collector are not yet installed.
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.13 All air pollution control systems are properly maintained and function normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not yet installed.
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management

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

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No on-site storage.
4.9 a. Proper "Chemical Waste" signs are displayed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Incompatible wastes separated by an impermeable partition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Adequacy of area ventilation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No on-site storage.
Storage of Liquid Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No on-site storage.
4.11 a. Storage area floor/surface permeation-proof?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Other Issues

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

Action Items from This Audit

No.	Action	Expected by
1.	No critical issues were identified.	NIL


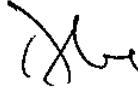
Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 19 July 2011	Status
1.	Stagnant water was no longer found on the metal cover over the gully. The tenant placed the containers upside-down to avoid collecting water.	Closed



Audit Summary and Sign-off

The site was generally tidy.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Shiu Wing	Serco Guardian JV
Signed By	Lily LIU	-	Alex WAI	Morgan CHIU
Role	ET Representative	-	Manager	Park Manager
Signature	 pp			

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

Audit Details

Tenant	Shiu Wing Steel Limited		
Date & Time	Date 30 September 2011	Time 2:30pm	
Lot No.	EP08-03		
Audit Ref.	14		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	27 °C		
Humidity	<input type="checkbox"/> Low	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The Tenant is going to integrate the Environmental Policy into their Safety Operations Manual soon.
1.3 Environmental Management Plan updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The Tenant is going to integrate the EMP into their Safety Operations Manual soon.
1.4 a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The ERP has been included in the Tenant's Safety Operations Manual.
b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant advised the training records were kept at their HR department.
1.5 Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant keeps a training record for BPI.
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's WMP is documented.

2. Water Quality

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

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9 a. Processes / activities are located under a covered area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water was found.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No equipment oil and lubrication replacement were performed inside the tenant lot.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

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

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Misting system and industrial dust collector are not yet installed.
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.13 All air pollution control systems are properly maintained and function normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not yet installed.
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management

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

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No on-site storage.
4.9 a. Proper "Chemical Waste" signs are displayed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Incompatible wastes separated by an impermeable partition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Adequacy of area ventilation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No on-site storage.
Storage of Liquid Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No on-site storage.
4.11 a. Storage area floor/surface permeation-proof?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Other Issues

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

Action Items from This Audit

No.	Action	Expected by
1.	No critical issues were identified.	N/A

Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 26 August 2011	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	Shiu Wing	Serco Guardian JV
Signed By	Carman CHUNG	-	Alex WAI	Morgan CHIU
Role	ET Site Auditor	-	Manager	Park Manager
Signature				

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

Audit Details

Tenant	Shiu Wing Steel Limited		
Date & Time	Date 27 October 2011	Time 9:30am	
Lot No.	EP08-03		
Audit Ref.	15		
IEC Joint Inspection	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	24 °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The Tenant is going to integrate the Environmental Policy into their Safety Operations Manual soon.
1.3 Environmental Management Plan updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The Tenant is going to integrate the EMP into their Safety Operations Manual soon.
1.4 a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The ERP has been included in the Tenant's Safety Operations Manual.
b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant advised the training records were kept at their HR department.
1.5 Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant keeps a training record for BPI.
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's WMP is documented.

2. Water Quality

Description	Yes	No	N/A	Remarks
2.1 Valid Effluent Discharge License available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No wastewater is generated from the recycling process.
2.2 Any wastewater treatment facility prior to effluent discharge?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, facility is properly maintained and function normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Effluent Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.3 a. Sampling / Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Monitoring frequency met the license requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.4 Surface run-off control measures in place and adequately maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.5 Surface run-off discharging into drainage system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 All manholes are covered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7 Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Action #1.
2.8 Drainage system is well maintained to prevent flooding and overflow?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Action #1.

2. Water Quality (continued)

Description		Yes	No	N/A	Remarks
Processes with high Risk of Contamination		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9	a. Processes / activities are located under a covered area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water was found.
2.10	Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No equipment oil and lubrication replacement were performed inside the tenant lot.
2.11	a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
	b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12	a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
	b. SP License conditions / monitoring requirements met?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Odour	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.2	a. Any odour detected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b. If yes, can the source be identified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Odorous materials are covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If odour control system is installed, is it operating normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Action #2.
	Dust Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.4	a. Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b. Monitoring frequency met the requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.5	Enclosures are provided around the main dust-generating activities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.6	Open burning is avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Misting system and industrial dust collector are not yet installed.
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.13 All air pollution control systems are properly maintained and function normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not yet installed.
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management

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

4. Waste / Chemical Management (continued)

Description		Yes	No	N/A	Remarks
Storage of Chemical Waste		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No on-site storage.
4.9	a. Proper "Chemical Waste" signs are displayed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b. Incompatible wastes separated by an impermeable partition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	f. Adequacy of area ventilation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10	Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No on-site storage.
Storage of Liquid Waste		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No on-site storage.
4.11	a. Storage area floor/surface permeation-proof?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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 LFG hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.3 Good housekeeping?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.4 Any areas within the lot to be used for recycling processes are concrete paved?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Most of the areas are covered by metal plates.
5.5 Valid calibration certificate for any monitoring equipment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No monitoring equipment.
Dangerous Goods				
5.6 a. Valid license for manufacturing / storing dangerous goods?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Diesel storage was 400L which is within the exempted quantity of 2,500L.
b. Storage area in compliance with the approved plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Storage area(s) has been securely locked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Total storage capacity in compliance with the relevant statutory requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Proper Labelling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Dangerous goods properly packaged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.7 Potential stagnant pools cleared and mosquito breeding prevented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Action Items from This Audit

- | No. | Action | Expected by |
|-----|---|-------------|
| 1. | Mud/deposit was found inside the surface channels. The Tenant was reminded to clear the mud/deposit and prevent such material from entering the surface channels. | 11 Nov 2011 |



- | | | |
|----|--|-------------|
| 2. | Although a sprinkler was in used when transferring waste metal, significant dust emission was still observed. The Tenant was reminded to utilise an extra sprinkler during dusty operation so as to minimise fugitive dust emission. | 11 Nov 2011 |
|----|--|-------------|



Follow-up from Previous Audits

- | No. | Follow-up from Previous Audit Dated 30 September 2011 | Status |
|-----|---|--------|
| 1. | NIL | N/A |

Audit Summary and Sign-off

The Tenant should clear the mud/deposit inside the surface channels and make use of an extra sprinkler during dusty operation.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Shiu Wing	Sercu Guardian JV
Signed By	Antony WONG	Sharifah OR	Alex WAI	Morgan CHIU
Role	ET Leader	IEC	Manager	Park Manager
Signature				

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

APPENDIX 6.3

Tenant-specific Audit Checklists for the Reporting Quarter

Hung Wai (EP06-034)

Audit Details

Tenant	Hong Kong Hung Wai Wooden Board Company		
Date & Time	Date 26 August 2011	Time 9:55am	
Lot No.	EP06-034		
Audit Ref.	12		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	30 °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's Environmental Policy is documented. Tenant follows this.
1.3 Environmental Management Plan updated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.4 a. Emergency Response Plan (ERP) documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's ERP is documented. Tenant follows this.
b. Drill / training records available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Training has been provided but the records are not available.
1.5 Employee's training record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Training has been provided but the records are not available.
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's WMP is documented. Tenant follows this.

2. Water Quality

Description	Yes	No	N/A	Remarks
2.1 Valid Effluent Discharge License available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No wastewater is generated from the recycling process.
2.2 Any wastewater treatment facility prior to effluent discharge?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, facility is properly maintained and function normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Effluent Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.3 a. Sampling / Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Monitoring frequency met the license requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.4 Surface run-off control measures in place and adequately maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.5 Surface run-off discharging into drainage system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 All manholes are covered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7 Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant has provided wooden plates covering the U-channel to prevent debris from entering the channel.
2.8 Drainage system is well maintained to prevent flooding and overflow?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant advised the U-Channel was regularly cleared.

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9 a. Processes / activities are located under a covered area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The stop-logs have been passed to Tenant, who shall install in the perimeter drainage channel as and when necessary.
c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water was found.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
	b. SP License conditions / monitoring requirements met?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Odour	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.2	a. Any odour detected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b. If yes, can the source be identified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Odorous materials are covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If odour control system is installed, is it operating normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not observed during the site audit.
	Dust Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
3.4	a. Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b. Monitoring frequency met the requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.5	Enclosures are provided around the main dust-generating activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Follow-up Action #1.
3.6	Open burning is avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The collected dust was the input material of the recycling process.
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.13 All air pollution control systems are properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The fabric filter is cleared every 3 days.
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management

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

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste				
4.9 a. Proper "Chemical Waste" signs are displayed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No chemical wastes were observed.
b. Incompatible wastes separated by an impermeable partition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Adequacy of area ventilation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No chemical wastes were observed.
Storage of Liquid Waste				
4.11 a. Storage area floor/surface permeation-proof?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Other Issues

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

Action Items from This Audit

No.	Action	Expected By
1.	No critical issues were identified.	NIL

Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 19 July 2011	Status
1.	Fugitive dust was still emitted from the uncovered metal separation outlet of the shredding machine. The Tenant was again reminded to consider enclosing the outlet with a transparent rigid cone that enters the collection bag, so as to reduce fugitive dust emissions.	Outstanding



Audit Summary and Sign-off

The Tenant could consider to enclose the metal separation outlet of the shredding machine with a transparent rigid cone that enters the collection bag so as to reduce fugitive dust emissions.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Hung Wai	Serco Guardian JV
Signed By	Lily LIU	-	Chun Nam CHAN	Morgan CHIU
Role	ET Representative	-	Representative	Park Manager
Signature	 pp		 pp	

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

Audit Details

Tenant	Hong Kong Hung Wai Wooden Board Company		
Date & Time	Date 30 September 2011	Time 2:45pm	
Lot No.	EP06-034		
Audit Ref.	13		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	27 °C		
Humidity	<input type="checkbox"/> Low	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's Environmental Policy is documented. Tenant follows this.
1.3 Environmental Management Plan updated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.4 a. Emergency Response Plan (ERP) documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's ERP is documented. Tenant follows this.
b. Drill / training records available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Training has been provided but the records are not available.
1.5 Employee's training record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Training has been provided but the records are not available.
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's WMP is documented. Tenant follows this.

2. Water Quality

Description	Yes	No	N/A	Remarks
2.1 Valid Effluent Discharge License available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No wastewater is generated from the recycling process.
2.2 Any wastewater treatment facility prior to effluent discharge?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, facility is properly maintained and function normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Effluent Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.3 a. Sampling / Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Monitoring frequency met the license requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.4 Surface run-off control measures in place and adequately maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.5 Surface run-off discharging into drainage system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 All manholes are covered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7 Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant has provided wooden plates covering the U-channel to prevent debris from entering the channel.
2.8 Drainage system is well maintained to prevent flooding and overflow?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant advised the U-Channel was regularly cleared.

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9 a. Processes / activities are located under a covered area?				
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water was found.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

	Description	Yes	No	N/A	Remarks
3.1	a. Valid Specified Process License for all specified process available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
	b. SP License conditions / monitoring requirements met?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Odour	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.2	a. Any odour detected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b. If yes, can the source be identified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Odorous materials are covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If odour control system is installed, is it operating normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.3	All dusty materials are sprayed with water or covered by impervious sheeting prior to any loading, unloading or transfer operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not observed during the site audit.
	Dust Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
3.4	a. Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b. Monitoring frequency met the requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.5	Enclosures are provided around the main dust-generating activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Follow-up Action #1.
3.6	Open burning is avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The collected dust was the input material of the recycling process.
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.13 All air pollution control systems are properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The fabric filter is cleared every 3 days.
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management

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

4. Waste / Chemical Management (continued)

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

5. Other Issues

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

Action Items from This Audit

No.	Action	Expected By
1.	No critical issues were identified.	N/A

Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 26 August 2011	Status
1.	As advised by the Tenant, it is not feasible to enclose the outlet of the shredding machine with a transparent rigid cone as this would cause operational difficulties. A new machine will soon begin operation, which will fully enclose the entire recycling process. As such, significant dust impact on the nearby air sensitive receivers is not anticipated. On this basis, this observation is considered to be closed.	Closed

Audit Summary and Sign-off

The site was generally tidy.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Hung Wai	Serco Guardian JV
Signed By	Carman CHUNG	-	William WONG	Morgan CHIU
Role	ET Site Auditor	-	Assistant General Manager	Park Manager
Signature				

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

Audit Details

Tenant	Hong Kong Hung Wai Wooden Board Company		
Date & Time	Date 27 October 2011	Time 9:50am	
Lot No.	EP06-034		
Audit Ref.	14		
IEC Joint Inspection	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	24 °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's Environmental Policy is documented. Tenant follows this.
1.3 Environmental Management Plan updated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.4 a. Emergency Response Plan (ERP) documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's ERP is documented. Tenant follows this.
b. Drill / training records available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Training has been provided but the records are not available.
1.5 Employee's training record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Training has been provided but the records are not available.
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator's WMP is documented. Tenant follows this.

2. Water Quality

Description	Yes	No	N/A	Remarks
2.1 Valid Effluent Discharge License available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No wastewater is generated from the recycling process.
2.2 Any wastewater treatment facility prior to effluent discharge?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, facility is properly maintained and function normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Effluent Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.3 a. Sampling / Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Monitoring frequency met the license requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.4 Surface run-off control measures in place and adequately maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.5 Surface run-off discharging into drainage system?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
2.6 All manholes are covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
2.7 Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
2.8 Drainage system is well maintained to prevent flooding and overflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9 a. Processes / activities are located under a covered area?				
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

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

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The collected dust was the input material of the recycling process.
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.13 All air pollution control systems are properly maintained and function normally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
3.14 Only Ultra-Low Sulphur Diesel is used?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.

4. Waste / Chemical Management

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

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste				
4.9 a. Proper "Chemical Waste" signs are displayed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
b. Incompatible wastes separated by an impermeable partition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Adequacy of area ventilation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
Storage of Liquid Waste				
4.11 a. Storage area floor/surface permeation-proof?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Other Issues

Description	Yes	No	N/A	Remarks
Landfill Gas Hazard (within LFG Consultation Zone)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Outside the LFG Consultation Zone.
5.1 a. Workers and visitors alerted to possible LFG hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Smoking and open fires prohibited?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.3 Good housekeeping?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.
5.4 Any areas within the lot to be used for recycling processes are concrete paved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.5 Valid calibration certificate for any monitoring equipment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No monitoring equipment.
Dangerous Goods	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There were no DGs stored on site.
5.6 a. Valid license for manufacturing / storing dangerous goods?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Storage area in compliance with the approved plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Storage area(s) has been securely locked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Total storage capacity in compliance with the relevant statutory requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Proper Labelling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Dangerous goods properly packaged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.7 Potential stagnant pools cleared and mosquito breeding prevented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed since the gate of the lot was closed.

Action Items from This Audit

No.	Action	Expected By
1.	No critical issues were identified since the gate of the lot was closed.	N/A




Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 30 September 2011	Status
1.	NIL	N/A

Audit Summary and Sign-off

No critical issues were observed since the gate of the lot was closed.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Hung Wai	Serco Guardian JV
Signed By	Antony WONG	Sharifah OR	William WONG	Morgan CHIU
Role	ET Leader	IEC	Assistant General Manager	Park Manager
Signature				

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

APPENDIX 6.4

Tenant-specific Audit Checklists for the Reporting Quarter

Li Tong (EP07-02)

Audit Details

Tenant	<u>Li Tong Group</u>		
Date & Time	Date <u>26 August 2011</u>	Time <u>10:05am</u>	
Lot No.	<u>EP07-02</u>		
Audit Ref.	<u>11</u>		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	<u>30</u> °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's Environmental Policy is documented.
1.3 Environmental Management Plan updated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's EMP is documented.
1.4 a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's ERP is documented.
b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's WMP is documented.

2. Water Quality

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

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9 a. Processes / activities are located under a covered area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The stop-logs have been passed to Tenant, who shall install in the perimeter drainage channel as and when necessary.
c. Contaminated water collected in the surface drainage systems is treated at water treatment facility / other appropriate treatment facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water was found.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

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

3. Air Quality (continued)

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

4. Waste / Chemical Management

Description	Yes	No	N/A	Remarks
4.1 Chemical Waste Producer Registration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Registration No. 3840-421-L2676-01 for various types of chemical waste.
4.2 Provision of sufficient waste disposal points/receptacles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Waste disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The municipal waste 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Sludge is collected by a licensed collector at regular intervals?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Packaging of Chemical Waste				
4.7 a. Stored in suitable container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Container properly closed or sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Spillage cleaned up immediately through the use of an absorbent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No spillage.
d. Approval obtained for capacity of containers > 450L?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Labelling of Chemical Waste				
4.8 a. Label is securely attached, clean and visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Label is in proper dimension and bilingual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Information is accurate and sufficient?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.9 a. Proper "Chemical Waste" signs are displayed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Incompatible wastes separated by an impermeable partition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Follow-up Action #1.
f. Adequacy of area ventilation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chemical waste was stored indoor.
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant itself is a licensed chemical waste collector (Licence No.: 3810-421-L2676-OS) for CRT and LCD monitors.
Storage of Liquid Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.11 a. Storage area floor/surface permeation-proof?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

5. Other Issues

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

Action Items from This Audit

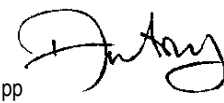


No.	Action	Expected By
1.	No critical issues were identified.	NIL

Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 19 July 2011	Status
1.	The doors of the chemical waste storage room were closed.	Closed

Audit Summary and Sign-off

The site was generally tidy.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Li Tong	Serco Guardian JV
Signed By	Lily LIU	-	Teresa HO	Morgan CHIU
Role	ET Representative	-	Environmental Health and Safety Officer	Park Manager
Signature	 pp			

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

Audit Details

Tenant	Li Tong Group		
Date & Time	Date 30 September 2011	Time 3:05pm	
Lot No.	EP07-02		
Audit Ref.	12		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	27 °C		
Humidity	<input type="checkbox"/> Low	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's Environmental Policy is documented.
1.3 Environmental Management Plan updated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's EMP is documented.
1.4 a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's ERP is documented.
b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's WMP is documented.

2. Water Quality

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

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9 a. Processes / activities are located under a covered area?				
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water was found.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

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

3. Air Quality (continued)

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

4. Waste / Chemical Management

Description	Yes	No	N/A	Remarks
4.1 Chemical Waste Producer Registration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Registration No. 3840-421-L2676-01 for various types of chemical waste.
4.2 Provision of sufficient waste disposal points/receptacles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Waste disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The municipal waste 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Sludge is collected by a licensed collector at regular intervals?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Packaging of Chemical Waste				
4.7 a. Stored in suitable container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Container properly closed or sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Spillage cleaned up immediately through the use of an absorbent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No spillage.
d. Approval obtained for capacity of containers > 450L?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Labelling of Chemical Waste				
4.8 a. Label is securely attached, clean and visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Label is in proper dimension and bilingual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Information is accurate and sufficient?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste				
4.9 a. Proper "Chemical Waste" signs are displayed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Incompatible wastes separated by an impermeable partition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f. Adequacy of area ventilation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chemical waste was stored indoor.
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant itself is a licensed chemical waste collector (Licence No.: 3810-421-L2676-OS) for CRT and LCD monitors.
Storage of Liquid Waste				
4.11 a. Storage area floor/surface permeation-proof?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

5. Other Issues

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

Action Items from This Audit

No.	Action	Expected By
1.	No critical issues were identified.	N/A

Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 26 August 2011	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	Li Tong	Serco Guardian JV
Signed By	Carman CHUNG	-	Teresa HO	Morgan CHIU
Role	ET Site Auditor	-	Environmental Health and Safety Officer	Park Manager
Signature				

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

Audit Details

Tenant	<u>Li Tong Group</u>		
Date & Time	Date <u>27 October 2011</u>	Time <u>10:00am</u>	
Lot No.	<u>EP07-02</u>		
Audit Ref.	<u>13</u>		
IEC Joint Inspection	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	<u>24</u> °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

	Description	Yes	No	N/A	Remarks
1.1	EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Policy documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's Environmental Policy is documented.
1.3	Environmental Management Plan updated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's EMP is documented.
1.4	a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's ERP is documented.
	b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5	Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6	Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7	Waste Management Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's WMP is documented.

2. Water Quality

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

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9 a. Processes / activities are located under a covered area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water was found.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

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

3. Air Quality (continued)

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

4. Waste / Chemical Management

Description	Yes	No	N/A	Remarks
4.1 Chemical Waste Producer Registration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Registration No. 3840-421-L2676-01 for various types of chemical waste.
4.2 Provision of sufficient waste disposal points/receptacles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Waste disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The municipal waste 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Sludge is collected by a licensed collector at regular intervals?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Packaging of Chemical Waste				
4.7 a. Stored in suitable container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Container properly closed or sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Spillage cleaned up immediately through the use of an absorbent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No spillage.
d. Approval obtained for capacity of containers > 450L?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Labelling of Chemical Waste				
4.8 a. Label is securely attached, clean and visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Label is in proper dimension and bilingual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Information is accurate and sufficient?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.9 a. Proper "Chemical Waste" signs are displayed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Incompatible wastes separated by an impermeable partition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Action #1.
f. Adequacy of area ventilation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chemical waste was stored indoor.
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant itself is a licensed chemical waste collector (Licence No.: 3810-421-L2676-OS) for CRT and LCD monitors.
Storage of Liquid Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.11 a. Storage area floor/surface permeation-proof?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

5. Other Issues

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

Action Items from This Audit

No.	Action	Expected By
1.	Both chemical and non-chemical wastes were stored inside the chemical waste storage room. The Tenant was reminded to remove non-chemical waste from the storage room.	11 Nov 2011



Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 30 September 2011	Status
1.	NIL	N/A

Audit Summary and Sign-off

The Tenant should remove non-chemical waste from the chemical waste storage room.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Li Tong	Serco Guardian JV
Signed By	Antony WONG	Sharifah OR	Teresa HO	Morgan CHIU
Role	ET Leader	IEC	Environmental Health and Safety Officer	Park Manager
Signature				

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

APPENDIX 6.5

Tenant-specific Audit Checklists for the Reporting Quarter

Yan Oi Tong (P7)

Audit Details

Tenant	Yan Oi Tong Limited		
Date & Time	Date 26 August 2011	Time 10:40am	
Lot No.	P7		
Audit Ref.	13		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	30 °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

	Description	Yes	No	N/A	Remarks
1.1	EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2	Environmental Policy documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The Operator's Environmental Policy is documented.
1.3	Environmental Management Plan updated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's EMP is documented.
1.4	a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's ERP is documented.
	b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5	Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6	Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7	Waste Management Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Licence No. WT00006013-2010 valid until 28 Feb 2015.
2.2 Any wastewater treatment facility prior to effluent discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If yes, facility is properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Effluent Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	As per the discharge licence, self-monitoring shall be performed when required.
2.3 a. Sampling / Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Monitoring frequency met the license requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.4 Surface run-off control measures in place and adequately maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.5 Surface run-off discharging into drainage system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 All manholes are covered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7 Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.8 Drainage system is well maintained to prevent flooding and overflow?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2. Water Quality (continued)

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

3. Air Quality

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

3. Air Quality (continued)

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

4. Waste / Chemical Management

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

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No chemical waste was produced.
4.9 a. Proper "Chemical Waste" signs are displayed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Incompatible wastes separated by an impermeable partition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Adequacy of area ventilation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Storage of Liquid Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No liquid waste was produced.
4.11 a. Storage area floor/surface permeation-proof?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Other Issues

Description	Yes	No	N/A	Remarks
Landfill Gas Hazard (within LFG Consultation Zone)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.
5.1 a. Workers and visitors alerted to possible LGF hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Smoking and open fires prohibited?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.3 Good housekeeping?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Follow-up Action #1.
5.4 Any areas within the lot to be used for recycling processes are concrete paved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The whole lot has been concrete-paved.
5.5 Valid calibration certificate for any monitoring equipment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Dangerous Goods	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There were no DGs stored on site.
5.6 a. Valid license for manufacturing / storing dangerous goods?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Storage area in compliance with the approved plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Storage area(s) has been securely locked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Total storage capacity in compliance with the relevant statutory requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Proper Labelling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Dangerous goods properly packaged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.7 Potential stagnant pools cleared and mosquito breeding prevented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Action Items from This Audit

No.	Action	Expected By
1.	No critical issues were identified.	NIL

Follow-up from Previous Audits

No.	Follow-up from Previous Audits Dated 19 July 2011	Status
1.	The housekeeping issue at Lot P6 was improved, and the colour stains were no longer found.	Closed



Audit Summary and Sign-off

The site was generally tidy.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Yan Oi Tong	Serco Guardian JV
Signed By	Lily LIU	-	Kenneth LEUNG	Morgan CHIU
Role	ET Representative	-	Manager	Park Manager
Signature	 pp			

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

Audit Details

Tenant	Yan Oi Tong Limited		
Date & Time	Date 30 September 2011	Time 3:45pm	
Lot No.	P7		
Audit Ref.	14		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	27 °C		
Humidity	<input type="checkbox"/> Low	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The Operator's Environmental Policy is documented.
1.3 Environmental Management Plan updated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's EMP is documented.
1.4 a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's ERP is documented.
b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Licence No. WT00006013-2010 valid until 28 Feb 2015.
2.2 Any wastewater treatment facility prior to effluent discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If yes, facility is properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Effluent Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	As per the discharge licence, self-monitoring shall be performed when required.
2.3 a. Sampling / Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Monitoring frequency met the license requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.4 Surface run-off control measures in place and adequately maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.5 Surface run-off discharging into drainage system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 All manholes are covered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7 Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.8 Drainage system is well maintained to prevent flooding and overflow?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Works for recycling were undertaken at covered areas.
2.9 a. Processes / activities are located under a covered area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Water is unlikely to be contaminated within the lot.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Only grease is used at the lot.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

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

3. Air Quality (continued)

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

4. Waste / Chemical Management

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

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No chemical waste was produced.
4.9 a. Proper "Chemical Waste" signs are displayed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Incompatible wastes separated by an impermeable partition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Adequacy of area ventilation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Storage of Liquid Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No liquid waste was produced.
4.11 a. Storage area floor/surface permeation-proof?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Other Issues

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

Action Items from This Audit

No.	Action	Expected By
1.	No critical issues were identified.	NIL

Follow-up from Previous Audits

No.	Follow-up from Previous Audits Dated 26 August 2011	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	Yan Oi Tong	Serco Guardian JV
Signed By	Carman CHUNG	-	Kenneth LEUNG	Morgan CHIU
Role	ET Site Auditor	-	Manager	Park Manager
Signature			 Toddall	

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

Audit Details

Tenant	Yan Oi Tong Limited		
Date & Time	Date 27 October 2011	Time	10:50am
Lot No.	P7		
Audit Ref.	15		
IEC Joint Inspection	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	24 °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The Operator's Environmental Policy is documented.
1.3 Environmental Management Plan updated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's EMP is documented.
1.4 a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's ERP is documented.
b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Licence No. WT00006013-2010 valid until 28 Feb 2015.
2.2 Any wastewater treatment facility prior to effluent discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If yes, facility is properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Effluent Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	As per the discharge licence, self-monitoring shall be performed when required.
2.3 a. Sampling / Monitoring Record available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Monitoring frequency met the license requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Any exceedance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. If yes, follow-up action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.4 Surface run-off control measures in place and adequately maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.5 Surface run-off discharging into drainage system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 All manholes are covered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7 Foam, oil, grease, litter or other objectionable matters in water of nearby drain / sewer are avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.8 Drainage system is well maintained to prevent flooding and overflow?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Works for recycling were undertaken at covered areas.
2.9 a. Processes / activities are located under a covered area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Water is unlikely to be contaminated within the lot.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Only grease is used at the lot.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

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

3. Air Quality (continued)

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

4. Waste / Chemical Management

Description	Yes	No	N/A	Remarks
4.1 Chemical Waste Producer Registration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Registration No. 9211-421-Y2453-03 for spent mineral oil and spent lubricating oil.
4.2 Provision of sufficient waste disposal points/ receptacles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Waste disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Twice a week. See Action #1.
4.4 Sorting of materials on-site for reuse or disposal to designated outlet?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.5 Record of quantities of waste generated, recycled and disposed properly kept and easily retrieved for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Sludge is collected by a licensed collector at regular intervals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sludge / debris from the wastewater treatment facility are collected by licensed collector regularly.
Packaging of Chemical Waste				
4.7 a. Stored in suitable container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No chemical waste was produced.
b. Container properly closed or sealed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Spillage cleaned up immediately through the use of an absorbent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Approval obtained for capacity of containers > 450L?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Labelling of Chemical Waste				
4.8 a. Label is securely attached, clean and visible?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No chemical waste was produced.
b. Label is in proper dimension and bilingual?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Information is accurate and sufficient?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No chemical waste was produced.
4.9 a. Proper "Chemical Waste" signs are displayed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Incompatible wastes separated by an impermeable partition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Adequacy of area ventilation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Storage of Liquid Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No liquid waste was produced.
4.11 a. Storage area floor/surface permeation-proof?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Capacity of retention structure sufficient to accommodate contents of the largest container or 20% volume of waste in storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Other Issues

Description	Yes	No	N/A	Remarks
Landfill Gas Hazard (within LFG Consultation Zone)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.
5.1 a. Workers and visitors alerted to possible LFG hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Smoking and open fires prohibited?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.3 Good housekeeping?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Action #2.
5.4 Any areas within the lot to be used for recycling processes are concrete paved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The whole lot has been concrete-paved.
5.5 Valid calibration certificate for any monitoring equipment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Dangerous Goods	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There were no DGs stored on site.
5.6 a. Valid license for manufacturing / storing dangerous goods?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Storage area in compliance with the approved plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Storage area(s) has been securely locked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Total storage capacity in compliance with the relevant statutory requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Proper Labelling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Dangerous goods properly packaged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.7 Potential stagnant pools cleared and mosquito breeding prevented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Action Items from This Audit

No.	Action	Expected By
1.	Waste engine oil was found on-site. The Tenant was reminded to find out if it is necessary to apply for a Chemical Waste Disposal Licence for disposing such material.	11 Nov 2011
2.	Several piles of waste plastics in large size were observed. In order to avoid further accumulation of plastics and maintain good housekeeping, the Tenant was suggested to provide appropriate machine to process these plastics as soon as possible.	11 Nov 2011



Follow-up from Previous Audits

No.	Follow-up from Previous Audits Dated 30 September 2011	Status
1.	Nil.	N/A

Audit Summary and Sign-off

The Tenant should find out if it is necessary to apply for a Chemical Waste Disposal Licence for disposing waste engine oil and provide appropriate machine to handle piles of plastics.

	ET	IEC*	Tenant	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Yan Oi Tong	Serco Guardian JV
Signed By	Antony WONG	Sharifah OR	Kenneth LEUNG	Morgan CHIU
Role	ET Leader	IEC	Manager	Park Manager
Signature				

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

APPENDIX 6.6

Tenant-specific Audit Checklists for the Reporting Quarter

St. James' Settlement (P5)

Audit Details

Tenant	St. James' Settlement		
Date & Time	Date 26 August 2011	Time 10:55am	
Lot No.	P5		
Audit Ref.	11		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	31 °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Operator's Environmental Policy is documented. Tenant follows this.
1.3 Environmental Management Plan updated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's EMP is documented.
1.4 a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's ERP is documented.
b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's WMP is documented.

2. Water Quality

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

2. Water Quality (continued)

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

3. Air Quality

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

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All relevant equipments are provided by EPD.
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Recorded by EPD.
3.13 All air pollution control systems are properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management

Description	Yes	No	N/A	Remarks
4.1 Chemical Waste Producer Registration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Registration No. 9211-421-S3222-08 for spent lubricating oil, unwanted refrigerant and CRT.
4.2 Provision of sufficient waste disposal points/ receptacles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Waste disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Waste from workshop are stored in temporary area and disposed of as general refuse twice a week via the Operator.
4.4 Sorting of materials on-site for reuse or disposal to designated outlet?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Sludge is collected by a licensed collector at regular intervals?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Packaging of Chemical Waste				
4.7 a. Stored in suitable container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Container properly closed or sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Spillage cleaned up immediately through the use of an absorbent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No spillage.
d. Approval obtained for capacity of containers > 450L?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Labelling of Chemical Waste				
4.8 a. Label is securely attached, clean and visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Label is in proper dimension and bilingual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Information is accurate and sufficient?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste				
4.9 a. Proper "Chemical Waste" signs are displayed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Incompatible wastes separated by an impermeable partition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f. Adequacy of area ventilation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Storage of Liquid Waste				
4.11 a. Storage area floor/surface permeation-proof?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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 LFG hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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 visitor centre.
b. Smoking and open fires prohibited?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.3 Good housekeeping?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.4 Any areas within the lot to be used for recycling processes are concrete paved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.5 Valid calibration certificate for any monitoring equipment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No monitoring equipment.
Dangerous Goods				
5.6 a. Valid license for manufacturing / storing dangerous goods?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There were no DGs stored on site.
b. Storage area in compliance with the approved plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Storage area(s) has been securely locked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Total storage capacity in compliance with the relevant statutory requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Proper Labelling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Dangerous goods properly packaged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.7 Potential stagnant pools cleared and mosquito breeding prevented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Action Items from This Audit




No.	Action	Expected By
1.	No critical issues were identified.	NIL

Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 19 July 2011	Status
1.	NIL	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	Lily LIU	-	Alex TAM	Morgan CHIU
Role	ET Representative	-	Manager	Park Manager
Signature	 pp		 pp	

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

Audit Details

Tenant	St. James' Settlement		
Date & Time	Date 30 September 2011	Time 4:05pm	
Lot No.	P5		
Audit Ref.	12		
IEC Joint Inspection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Weather Conditions	<input type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	27 °C		
Humidity	<input type="checkbox"/> Low	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Operator's Environmental Policy is documented. Tenant follows this.
1.3 Environmental Management Plan updated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's EMP is documented.
1.4 a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's ERP is documented.
b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's WMP is documented.

2. Water Quality

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

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9 a. Processes / activities are located under a covered area?				
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water was found.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

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

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All relevant equipments are provided by EPD.
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Recorded by EPD.
3.13 All air pollution control systems are properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management

Description	Yes	No	N/A	Remarks
4.1 Chemical Waste Producer Registration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Registration No. 9211-421-S3222-08 for spent lubricating oil, unwanted refrigerant and CRT.
4.2 Provision of sufficient waste disposal points/ receptacles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Waste disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Waste from workshop is stored in temporary area and disposed of as general refuse twice a week via 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Sludge is collected by a licensed collector at regular intervals?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Packaging of Chemical Waste				
4.7 a. Stored in suitable container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Container properly closed or sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Spillage cleaned up immediately through the use of an absorbent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No spillage.
d. Approval obtained for capacity of containers > 450L?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Labelling of Chemical Waste				
4.8 a. Label is securely attached, clean and visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Label is in proper dimension and bilingual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Information is accurate and sufficient?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management (continued)

Description	Yes	No	N/A	Remarks
Storage of Chemical Waste				
4.9 a. Proper "Chemical Waste" signs are displayed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Incompatible wastes separated by an impermeable partition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Enclosed on 3 sides with no less than 2m in height or height of tallest container or stack of containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. Containers with chemical waste are properly stored and locked at designated area which is clean and dry?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f. Adequacy of area ventilation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
g. Outdoors storage area should be covered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10 Chemical wastes are collected by a licensed chemical waste collector? (retention of trip ticket copies for 12 months)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Storage of Liquid Waste				
4.11 a. Storage area floor/surface permeation-proof?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Walls or partitions of stacked container storage area constructed of impermeable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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 LFG hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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 visitor centre.
b. Smoking and open fires prohibited?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.2 Security lighting directed downward into the work areas to prevent glare to the surrounding receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.3 Good housekeeping?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.4 Any areas within the lot to be used for recycling processes are concrete paved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.5 Valid calibration certificate for any monitoring equipment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No monitoring equipment.
Dangerous Goods				
5.6 a. Valid license for manufacturing / storing dangerous goods?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There were no DGs stored on site.
b. Storage area in compliance with the approved plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Storage area(s) has been securely locked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Total storage capacity in compliance with the relevant statutory requirement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Proper Labelling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Dangerous goods properly packaged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.7 Potential stagnant pools cleared and mosquito breeding prevented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Action Items from This Audit

No.	Action	Expected By
1.	No critical issues were identified.	NIL

Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 26 August 2011	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	Carman CHUNG	-	Alex TAM	Morgan CHIU
Role	ET Site Auditor	-	Manager	Park Manager
Signature				

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

Audit Details

Tenant	St. James' Settlement		
Date & Time	Date 27 October 2011	Time 11:10am	
Lot No.	P5		
Audit Ref.	13		
IEC Joint Inspection	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast <input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind
Temperature	24 °C		
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High

1. General

Description	Yes	No	N/A	Remarks
1.1 EP for Tenant displayed on notice boards / at entrance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP for EcoPark (EP-226/2005/A) is displayed at the entrance of EcoPark. EP for Tenant is not required.
1.2 Environmental Policy documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Operator's Environmental Policy is documented. Tenant follows this.
1.3 Environmental Management Plan updated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's EMP is documented.
1.4 a. Emergency Response Plan (ERP) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's ERP is documented.
b. Drill / training records available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Employee's training record available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Any record of prosecution / complaint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Waste Management Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Tenant's WMP is documented.

2. Water Quality

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

2. Water Quality (continued)

Description	Yes	No	N/A	Remarks
Processes with high Risk of Contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The risk of contamination for the recycling process is low.
2.9 a. Processes / activities are located under a covered area?				
b. Stop-logs installed in the perimeter drainage system for uncovered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No contaminated water was found.
2.10 Equipment oil and lubrication replacements are performed only in bunded maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not observed.
2.11 a. Oil interceptor provided for drainage discharging from maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
b. If yes, oil and grease removed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Collected by licenced collector?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cargo Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required.
2.12 a. Cargo Handling Guideline available and followed to minimise chance of accidental spillage when loading or unloading?				
b. Materials and bulk cargo are properly packed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

3. Air Quality

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

3. Air Quality (continued)

Description	Yes	No	N/A	Remarks
3.7 Dark smoke emitted from chimney or powered plant is avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no chimney installed on-site.
3.8 Vehicles and equipment are switched off while not in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9 Approval certificate issued by the Authority is available for furnace, oven or chimney consuming:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
a. >25L of conventional liquid fuel per hour				
b. >35kg of conventional solid fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. >1,150 MJ of any gaseous fuel per hour	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11 Dust collected by any air pollution control equipment installed by tenants must be tested to ensure compliance for landfill disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.12 a. Approval from Authority for the use of controlled refrigerant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All relevant equipments are provided by EPD.
b. If yes, record of refrigeration equipment service available?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Recorded by EPD.
3.13 All air pollution control systems are properly maintained and function normally?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14 Only Ultra-Low Sulphur Diesel is used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management

Description	Yes	No	N/A	Remarks
4.1 Chemical Waste Producer Registration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Registration No. 9211-421-S3222-08 for spent lubricating oil, unwanted refrigerant and CRT.
4.2 Provision of sufficient waste disposal points/ receptacles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Waste disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Waste from workshop is stored in temporary area and disposed of as general refuse twice a week via 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Sludge is collected by a licensed collector at regular intervals?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Packaging of Chemical Waste				
4.7 a. Stored in suitable container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Container properly closed or sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Spillage cleaned up immediately through the use of an absorbent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No spillage.
d. Approval obtained for capacity of containers > 450L?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Labelling of Chemical Waste				
4.8 a. Label is securely attached, clean and visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Label is in proper dimension and bilingual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Information is accurate and sufficient?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Waste / Chemical Management (continued)

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

5. Other Issues

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

Action Items from This Audit





No.	Action	Expected By
1.	No critical issues were identified.	NIL

Follow-up from Previous Audits

No.	Follow-up from Previous Audit Dated 30 September 2011	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	Antony WONG	Sharifah OR	Ken FUNG	Morgan CHIU
Role	ET Leader	IEC	Assistant Manager	Park Manager
Signature				

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

APPENDIX 7

General EcoPark Checklists for the Reporting Quarter

Audit Details

Date & Time **Date** 26 August 2011 **Time** 9:30am to 11:30pm



Weather Conditions **Fine** **Hazy** **Overcast** **Rain**

Wind **Calm** **Light Breeze** **Strong Wind**



Temperature 30 °C

Humidity **Low** **Medium** **High**

Action Items from This Audit


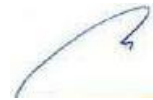
ID	ET Findings / Recommendations	Operator / Tenant Follow-up Action
Hong Kong Telford Envirotech Group Ltd.		
1.	A bucket was found inside the surface channel near the gate.	The Tenant was reminded to remove the bucket ASAP.
		
Cosmos Star Holdings Co.		
2.	The lot could not be accessed because the gate was locked and the representative of the Tenant was not present. No critical issues, however, were observed from outside.	NIL
		
Other Areas		
3.	No new observations.	NIL

Follow-up from Previous Audits

ID	ET Findings / Recommendations	Operator / Tenant Follow-up Action
Hong Kong Telford Envirotech Group Ltd.		
1.	Since the access to surface channels was blocked by piles of plastics, the issue of debris and refuse inside surface channels will be followed-up in the next Monthly Site Audit in September 2011.	The Tenant should remove the debris and refuse ASAP (if any) and provide regular maintenance to the surface channels. (Outstanding)
2.	Uncovered chemical drums / oil buckets were still found at the lot during the audit.	The Tenant should provide cover and secondary containment (drip tray, etc) underneath all chemical drums / oil buckets to prevent potential leakage. (Outstanding)
		
3.	Large numbers of oil stains were still found near the machines during the audit.	The Tenant was again reminded to clear the oil stains and oil-contaminated soil by absorbent and dispose of them properly. (Outstanding)
		
4.	No oil/water mixture from the baling machine was found to enter the surface channels during the audit.	NIL (Closed)
Cosmos Star Holdings Co.		
5.	NIL	NIL
Other Areas		
6.	NIL	NIL

Observations and Sign-off

The Tenant should implement appropriate measures to address the outstanding observations.



	ET	IEC*	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Serco Guardian JV
Signed By	Lily LIU	-	Morgan CHIU
Role	ET Representative	-	Park Manager
Signature	 pp		

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

Audit Details

Date & Time	Date 30 September 2011	Time 2:30pm to 4:30pm
Weather Conditions	<input type="checkbox"/> Fine	<input type="checkbox"/> Hazy
	<input checked="" type="checkbox"/> Overcast	<input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze
	<input type="checkbox"/> Strong Wind	
Temperature	27 °C	
Humidity	<input type="checkbox"/> Low	<input type="checkbox"/> Medium
	<input checked="" type="checkbox"/> High	

Action Items from This Audit

ID	ET Findings / Recommendations	Operator / Tenant Follow-up Action
Hong Kong Telford Envirotech Group Ltd.		
1.	<p>The recently installed plastic extruding/ pelletizing machine was fuelled by combustion of wood pellets. The exhaust from combustion was then treated by water spraying inside a water tank, and released to the atmosphere via a chimney. The efficiency of water spraying, however, is not known.</p> 	<p>As per the approved EIA Report, only ultra low sulphur diesel (ULSD) and gaseous fuel are recommended to be used within EcoPark due to air quality issues. Because combustion of wood pellets is not included in the Tenant's original design of plastic recycling, the Process Review Checklist (PRC) should be updated and a Design Audit (DA) may be required to further assess the associated air quality impact.</p> <p>As advised by the Tenant, the consumption rate of wood pellets is ~5 kg/hour, which is less than the amount of solid fuel (35 kg/hour) that requires approval under the <i>Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations</i>. In other words, approval for the installation of furnace and chimney from EPD is not required.</p> <p>The PRC and the DA should be completed before the Tenant continues to use wood pellets as fuel. In order to facilitate the drafting of PRC and DA, the Tenant should provide the control efficiency of air quality treatment device and the dimensions including height, width and length of the chimney to ET as soon as possible.</p>
Cosmos Star Holdings Co.		
2.	<p>The lot could not be accessed because the gate was locked and the representative of the Tenant was not present. No critical issues, however, were observed from outside.</p> 	Nil.
Other Areas		
3.	No new observations.	Nil.

Follow-up from Previous Audits

ID ET Findings / Recommendations

Operator / Tenant Follow-up Action

Hong Kong Telford Envirotech Group Ltd.

1. Since the access to surface channels was blocked by piles of plastics, the issue of debris and refuse inside surface channels will be followed-up in the next Quarterly Site Audit in October 2011.

The Tenant should remove the debris and refuse ASAP (if any) and provide regular maintenance to the surface channels.
(Outstanding)



2. Since the access to uncovered chemical drums / oil buckets was blocked by piles of plastics, the issue of not covering and providing secondary containment to chemical drums / oil buckets will be followed-up in the next Quarterly Site Audit in October 2011.
3. As the access to oil stains were blocked by piles of plastics, the issue of clearing the stains will be followed-up in the next Quarterly Site Audit in October 2011.
4. The bucket inside the surface channel near the gate has been removed.

The Tenant should provide cover and secondary containment (drip tray, etc) underneath all chemical drums / oil buckets to prevent potential leakage. **(Outstanding)**

The Tenant was again reminded to clear the oil stains and oil-contaminated soil by absorbent (if any) and dispose of them properly.
(Outstanding)

Nil. **(Closed)**





Cosmos Star Holdings Co.

5. Nil. Nil.
- Other Areas**
6. Nil. Nil.

Observations and Sign-off

The PRC and the DA should be completed before Hong Kong Telford Envirotech Group Ltd continues to use wood pellets as fuel. Housekeeping should be enhanced and appropriate mitigation measures should be implemented to address the outstanding observations (if applicable).




	ET	IEC*	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Serco Guardian JV
Signed By	Carman CHUNG	-	Morgan CHIU
Role	ET Site Auditor	-	Park Manager
Signature			

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

Audit Details

Date & Time	Date <u>27 October 2011</u>	Time <u>9:30am to 12:00am</u>		
Weather Conditions	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Hazy	<input type="checkbox"/> Overcast	<input type="checkbox"/> Rain
Wind	<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Light Breeze	<input type="checkbox"/> Strong Wind	
Temperature	<u>25</u> °C			
Humidity	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High	

Action Items from This Audit




ID	ET Findings / Recommendations	Operator / Tenant Follow-up Action
Hong Kong Telford Envirotech Group Ltd.		
1.	<p>Large amount of plastics lied around the lot, and the access to certain part of the lot was blocked by piles of plastics.</p> 	<p>The Tenant was reminded to maintain good housekeeping.</p>
2.	<p>Refuse was found at surface channels near the gate.</p> 	<p>The Tenant was reminded to maintain clear the refuse and prevent such material from entering the surface channels.</p>
3.	<p>As advised by the Tenant, the wastewater of the plastic extruding/pelletizing machine will be recycled and reused. Nevertheless, water dripping and leakage was found near the machine.</p> 	<p>The Tenant was reminded to clear the stagnant water, and prevent the dripping and leakage of water from happening again. In addition, the Tenant was suggested to apply for the Discharge License for industrial wastewater in case there is a leakage.</p>
Cosmos Star Holdings Co.		
4.	<p>The lot could not be accessed because the gate was locked and the representative of the Tenant was not present. No critical issues, however, were observed from outside.</p>	<p>Nil.</p>

Action Items from This Audit


ID	ET Findings / Recommendations	Operator / Tenant Follow-up Action
5.	<p>Other Areas No new observations.</p>	Nil.



Follow-up from Previous Audits

ID	ET Findings / Recommendations	Operator / Tenant Follow-up Action
Hong Kong Telford Envirotech Group Ltd.		
1.	<p>Debris and materials such as oil buckets were still found inside surface channels.</p>	<p>The Tenant should remove the debris and materials ASAP and provide regular maintenance to the surface channels (repeated observation since 17 January 2011). (Outstanding)</p>
		
2.	<p>Whilst uncovered chemical drums were not observed, no secondary containment was provided to chemical drums / oil buckets.</p>	<p>The Tenant should provide secondary containment (drip tray, etc) underneath all chemical drums / oil buckets to prevent potential leakage (repeated observation since 17 January 2011). (Outstanding)</p>
		
3.	<p>Oil stains were still found around the lot.</p>	<p>The Tenant was again reminded to clear the oil stains and oil-contaminated soil by absorbent (if any) and dispose of them properly (repeated observation since 17 January 2011). (Outstanding)</p>
		

Follow-up from Previous Audits

ID	ET Findings / Recommendations	Operator / Tenant Follow-up Action
4.	As observed on-site, combustion of wood pellets took place at a furnace. The exhaust from combustion was treated by water spraying inside a water tank, and then filtered by an air filter prior to releasing to the atmosphere via a chimney. Although the efficiency of air quality treatment device was not known, the Tenant provided the dimensions of chimney to ET. 	Before the Process Review Checklist (PRC) and the Design Audit (DA) are completed, the Tenant was reminded to stop using wood pellets as fuel. (Outstanding)
	Cosmos Star Holdings Co.	
5.	Nil.	Nil.
	Other Areas	
6.	Nil.	Nil.

Observations and Sign-off

Before the PRC and the DA are completed, Telford should stop using wood pellets as fuel. Housekeeping should be enhanced and appropriate mitigation measures should be implemented to address the outstanding observations (if applicable).

	ET	IEC*	Operator
Organisation	SMEC Asia Ltd	Atkins China Ltd	Serco Guardian JV
Signed By	Antony WONG	Sharifah OR	Morgan CHIU
Role	ET Leader	IEC	Park Manager
Signature			

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