Contract No. : EP/SP/52/06 Development of EcoPark in Tuen Mun Area 38

ENVIRONMENTAL MONITORING AND AUDIT MONTHLY EM&A REPORT for

October 2009

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APPROVAL SHEET

DOCUMENT DATE: 31 October 2009	
Prepared and Certified by: ET Leader (E	Environmental Pioneers & Solutions Limited)
Signature: Miss Patricia Chung	Date:
Verified by: IEC*	Date:

TABLE OF CONTENTS

EX	ECUTIVE SUMMARY	4
1.	BASIC PROJECT INFORMATION	6
2.	SUMMARY OF WORK ACTIVITIES AND CONSTRUCTION STATUS	8
3.	STATUS OF ENVIRONMENTAL PROTECTION AND SITE INSPECTIONS	10
4.	SUMMARY OF ENVIRONMENTAL PERMIT AND LICENCES	21
5.	CUMULATIVE LOG OF COMPLAINTS AND REMEDIAL ACTION	21
6.	CUMULATIVE LOG OF NOTIFICATION OF SUMMONS AND	
	PROSECUTIONS	21
7.	CONCLUSION	21
AP	PENDIX 1 - SITE LAYOUT PLAN	23
AP	PENDIX 2 - THE CONTACT PERSONS, TELEPHONE NUMBERS OF KEY	
	PERSONNEL FOR DEVELOPMENT OF ECOPARK IN TUEN MUN AREA	38
		24
AP	PENDIX 3 – REVISED SITE LAYOUT PLAN FOR REFUSE COLLECTION	
	POINTS	25
AP	PENDIX 4 - ORIGINAL LANDFILL GAS FIELD MEASUREMENT	
	RECORDING SHEETS	26
AP	PENDIX 5 – CUMULATIVE LOG OF COMPLAINTS	31

EXECUTIVE SUMMARY

This is the fortieth monthly Environmental Monitoring and Audit (EM&A) Report for the Environmental Protection Department Contract No. EP/SP/52/06 entitled "Development of EcoPark in Tuen Mun Area 38". (Environmental Permit No. EP-226/2005/A).

This report contains the results and findings of site inspection activities and EM&A works carried out by the Environmental Team (ET) of the Works Contractor as required in the contract during October 2009.

The site activities in the reporting period mainly consisted of excavation and site formation works and construction of drainage in Phase II construction site.

Several environmental issues, such as the removed hoardings on Road A and the damaged wheel washing machine installed at the construction site entrance, have been identified by ET during weekly site inspections in the reporting month. Contractor has implemented some mitigation measures to address those problems as advised by ET. Some of the measures taken by the contractor were considered as effective to minimize negative impact to the environment. On-going investigation will be carried out to observe performance and effectiveness of those measures. Outstanding environmental items will be inspected in the following month.

Weekly LFG monitoring on point S3 is being carried out in the reporting month. Monitoring points Lot 7 pt1 and pt2 are added due to newly formed excavation pits, since 16 October 2009. Furthermore Lot 7 pt3 is added on 30 October 2009. The measurement results from ET shown in Table 3.5 were within Action and Limit Levels in accordance with EM&A manual.

There were no notifications of summons or successful prosecution during October 2009.

Planned activities for November 2009 with regard to development of EcoPark consist of:

- 1) Site formation works,
- 2) Excavation works,
- 3) Road formation works and
- 4) Construction of drainage, sewerage & water mains

1. BASIC PROJECT INFORMATION

1.1 Introduction

This is the fortieth monthly Environmental Monitoring and Audit (EM&A) Report for the Environmental Protection Department Contract No. EP/SP/52/06 entitled "Development of EcoPark in Tuen Mun Area 38". The site layout plan is shown in Appendix 1. The report was prepared by the Environmental Team, Environmental Pioneers & Solutions Limited, of the Works Contractor, Kaden Construction Limited. The report is to be submitted to the Works Contractor, the Engineer and the Environmental Protection Department for the project.

This report presents the results of the environmental monitoring of the project activities conducted during the month of October 2009. This included regular site inspections once per week for verification of implementation of the mitigation measures as recommended in the EM&A Manual and the Contractor's Environmental Management Plan (EMP).

The construction works of Phase I have already commenced in July 2006 and have been completed in November 2008.

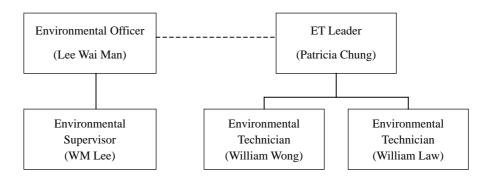
The construction works of Phase II commenced in December 2008 and is anticipated to be completed in December 2009.

The contact person and telephone number of key personnel for the captioned project are shown in Appendix 2.

1.2 Project Organization and Management

The Works Contractor has commissioned Environmental Pioneers & Solutions Limited as the Environmental Team, which comprises the environmental team leader and the environmental technicians to undertake the environmental monitoring and audit work for this project. The project Organization Chart of Environmental Team is shown in Figure 1.1.

Figure 1.1 Organization Chart of Environmental Team



2. SUMMARY OF WORK ACTIVITIES AND CONSTRUCTION STATUS

2.1 Works Undertaken during the Month

A summary of the site installation works in this month, with the information of locations, activities, equipment/materials and dates of occurrence, is provided by the Contractor, as shown in Table 2.1.

Table 2.1 Work Activities for October 2009						
Item	Work Activities & Location	Date of Occurrence				
1	Site formation works	01 October 2009 – 31 October 2009				
2	Excavation works	01 October 2009 – 31 October 2009				
3	Road Formation works	01 October 2009 – 31 October 2009				
4	Construction of drainage	01 October 2009 – 31 October 2009				

	Machineries					
	Equipment/ Plant	Quantity				
1	Mobile Crane	0				
2	Excavator	6				
3	Generator	2				
4	Air Compressor	1				
5	Roller	0				
6	Loader	1				
7	Grab Lorry	0				
8	Crane Lorry	1				
9	Water Truck	1				
10	Dump Truck	1				

Remarks:

- As informed by the Contractor, most equipment is mobile at site subject to work progress.
- Refer to Appendix 1 Site layout plan for location of construction activities.

2.2 Future Key Issues

The Contractor has provided an updated construction program in Table 2.2 to show the planned activities for the coming month (November 2009). The anticipated environmental issues are summarized as follow:

Table	Table 2.2 Construction Program and Anticipated Environmental Issues							
Item	Works		Anticipated Environmental Issues					
		-	Generation of C&D waste; excavated material should be reused as much as practicable.					
	Site formation works, excavation works & road works	-	Dust may be generated; the wheel washing machine should be in operation.					
			Haul road should be sprayed regularly, by truck or sprinkler.					
		-	Stagnant water should be removed.					
		-	Mosquito mitigation measures should be implemented.					
		_	Landfill gas monitoring should be carried out.					
	Construction of drainage, sewerage & water mains	-	Generation of C&D waste; excavated material should be used as much as practicable					
		-	Dust may be generated; the wheel washing machine should be in operation					

The site inspection schedule for the next month (November 2009) is designated on 6^{th} , 13^{th} , 20^{th} and 27^{th} of November 2009.

3. STATUS OF ENVIRONMENTAL PROTECTION AND SITE INSPECTIONS

3.1 Environmental Site Inspections

Environmental site inspections are required to inspect the construction activities of the Development of EcoPark in order to ensure that appropriate environmental protection and pollution control mitigation measures are properly implemented. Regular site inspections should be carried out by the ET once per week during construction phase.

Outstanding issues at the end of September 2009 includes:

- 1) The automatic wheel washing machine was found to be severely damaged on 18 September 2009. Contractor was reminded to manually wash the vehicles leaving the construction site before automatic wheel washing machine is repaired or replaced. The wheel washing machine shall be repaired by December 2009, tentatively.
- 2) The doors for the chemical waste storage were bent and did not close and lock properly. Contractor was reminded to monitor and maintain the chemical waste storage facilities.
- 3) Drip pan has not yet been provided for the three plastic chemical drums adjacent to the cooling tower in the administration building. ET was informed that a proper drip pan has been designed and will be constructed in October.
- 4) Diesel overflowed into the drip tray for the power generator and surrounding areas on 18 September 2009. Contractor was reminded to monitor the diesel filling process to prevent overflow and make sure the valves on the drip tray shuts completely.
- 5) Sections of hoardings and fabric wraps along Road A were damaged by the typhoon on 18 September 2009. Contractor was reminded to repair the damaged hoardings and replace the fabric wraps to prevent dirt and dust being brought outside the construction site by wind.
- 6) Pools of stalled water are found near lot P10 on 25 September 2009. Contractor was reminded that accumulated water should be treated properly to meet requirements specified in the issued discharge license, if appropriate.

Site inspections for Phase II construction site were conducted on 2^{nd} , 9^{th} , 16^{th} , 23^{rd} and 30^{th} of October 2009.

A detailed checklist of each site inspection together with comments, relevant photos and maps have been filed and kept.

The findings and results of site inspections are provided in Table 3.1:

Table 3.1 Summary of Site Inspections for Phase II construction site during October 2009							
Date	Observations	Advice from ET	Action taken	Closing Date			
	The automatic wheel washing machine malfunctioned on 11 September and found to be severely damaged on 18 September 2009.	Contractor was reminded to repair the automatic wheel washing machine and instruct workers to properly wash wheels of construction vehicles by hand.	Contractor reminded instructed drivers and workers to manually wash wheels of vehicles until further notice.	reporting month. (Tentative closing date: 30			
18 September 09 25 September 09 16 October 09 23 October 09 30 October 09		Contractor was reminded to monitor and maintain the chemical waste storage facilities and properly to ensure the storage facilities are secured.	Contractor immediately appointed a worker to fix the doors. However the doors are still bent and did not close properly.	To be followed in the next reporting month. (Tentative closing date: 30 November 2009)			
18 September 09	Diesel overflowed into the drip tray for the power generator and surrounding areas.	Contractor was advised to monitor the diesel filling process and ensure the valves on the drip trays shuts completely.	Contractor reminded the workers to be careful on the filling process and overflowing did not occur again.	02 October 09 (Photographic proof will be available in the next reporting month)			
18 September 09	Sections of hoardings and fabric wraps along Road A were damaged by typhoon.	Contractor was reminded to repair the damaged hoardings and replace the fabric wraps to prevent dirt and dust being brought outside of the construction site by wind.	Contractor took action to replace the fabric wraps along the damaged sections.	02 October 09 (See Fig. 1)			
25 September 09	Pools of stalled water are found near lot P10.	appropriate.	Contractor took action to remove and treated the muddy water near lot P10.	02 October 09 (See Fig. 2)			
02 October 09 09 October 09 16 October 09	Sections of hoardings on Road A are loosened.	Contractor was reminded to repair and mount the loosened sections properly to prevent dirt and dust being brought outside of the construction site by wind.	Contractor took action to re-mount the hoardings properly.	To be followed in the next reporting month. (Tentative closing date: 30 November 2009)			
09 October 09	Road A near waterfront is covered with dirt and dust, due to construction vehicles using the exit without any wheel washing facilities.	Contractor was reminded to properly fence off the site entrances and exits without any wheel washing facilities.	Contractor took action to wash dirt off the road and to block off the site entrance near waterfront to prevent heavy vehicle to pass through.	16 October 09 (See Fig. 3)			

Table 3.1 Summary of Site Inspections for Phase II construction site during October 2009							
Date	Observations	Advice from ET	Action taken	Closing Date			
09 October 09 23 October 09	Road A near construction site exit is covered with dirt and dust.	Contractor is reminded to manually wash the vehicles leaving the construction site before the automatic wheel washing machine is repaired or replaced.	Contractor reminded instructed drivers and workers to manually wash wheels of vehicles until further notice.				
09 October 09 16 October 09 23 October 09	A few oil containers are found near the chemical drum storage cabinet without a drip tray.	Contractor was reminded to place chemical containers on a drip tray or inside the chemical drum storage cabinet immediately after use.	Contractor instructed workers to place drums into the chemical storage cabinets. However, drums were not placed in the chemical storage soon after.	To be followed in the next reporting month. (Tentative closing date: 30 November 2009)			
	Packs of cement are found hardened and without covers.	Contractor was reminded to properly dispose of the hardened cement and to provide adequate storage.		To be followed in the next reporting month. (Tentative closing date: 30 November 2009)			
09 October 09 16 October 09	Numerous dusty stockpiles without sufficient effective dust suppression measures were observed.	Contractor was reminded to control height of stockpiles and provide effective dust suppression measure as far as practicable.	Contractor took action to spray water onto the stockpiles to suppress any dust being brought into air.	23 October 09			
23 October 09	Hoardings beside Road A have been removed temporarily due to construction program.	Contractor was reminded to re-install hoardings to prevent dirt and dust being brought outside of construction site by wind.		To be followed in the next reporting month. (Tentative closing date: 30 November 2009)			



Fig 1. Hoardings damaged by typhoon were restored.



Fig 2. Lot P10 has been flattened and no stalled water can be found.



Fig 3. Contractor blocked off temporary site entrance near waterfront.

3.2 Air Dust

Excavation work is being carried out in Phase II construction site. Dust problem may be arisen when stockpiles of excavated materials are not enclosed, covered or dampened during dry or windy conditions. Dust suppression measures such as water spraying and coverings with tarpaulin on stockpiles have been observed in the reporting month.

As observed during inspection in the reporting month, many of the stockpile materials have been used for backfilling. Contractor was reminded to continue routine dust suppression measures such as regular water spraying on site.

Furthermore, sections of hoardings on Road A are loosened. Contractor was reminded to repair and mount the loosened sections properly to prevent dirt and dust being brought outside of the construction site by wind.

3.3 Noise

The major noise source was vehicle movement and machinery in the EcoPark. Since the nearby NSRs were remote, the noise impact was minimal. There was no specific observation noted regarding noise issue. The Contractor has obtained the Construction Noise Permit on 19 August 2009 and it will be expire on 18 Jan 2010.

3.4 Surface Water Quality

Since there was no water discharge at manhole, the Contractor removed the silt curtain installed at discharge point on 4 April 2007, as agreed by the Engineer's Representative. Muddy water was observed at discharge point for Phase I construction site on 14 August 2009. The contractor was reminded to consider using a slit curtain if the discharge continues. As informed by Engineer's Representative, there was no direct water discharge at manhole in Phase II construction site. No muddy water discharge is expected.

Chemical toilets (1 nos.) have been provided in Phase II construction site by a licensed contractor, of which sewage generated is collected every three to five days without causing contamination on surface water. The Effluent Discharge License was issued to the Contractor on 20 November 2006.

The temporary storage tank was used to store the effluent of aerobic wastewater treatment system and the stored effluent was pumped away regularly. As checked by the ET, there was no effluent discharge into the storm water drain. To avoid any sewage overflow, frequent checking is required after the commencement of Phase II construction works.

The automatic wheel washing machine was found to be severely damaged on 18 September 2009. Contractor was reminded to manually wash the vehicles leaving the construction site before automatic wheel washing machine is repaired or replaced. ET will continue to monitor in the coming month on this issue. Contractor shall repair the damaged automatic wheel washing machine in November 2009.

Road A near waterfront is covered with dirt and dust, due to construction vehicles using the exit without any wheel washing facilities. Contractor was reminded to properly fence off the site entrances and exits without any wheel washing facilities.

3.5 Visual and Landscape Impact

Hoarding was erected at the site egress and aligned along the site boundary along Lung Mun Road. Hoardings were specially designed to be movable for future re-use in other locations.

Hoardings beside Road A have been removed temporarily due to construction program. Contractor was reminded to re-install hoardings to prevent dirt and dust being brought outside of construction site by wind.

Sections of hoardings on Road A were loosened. Contractor was reminded to repair and mount the loosened sections properly or re-install hoardings to prevent dirt and dust being brought outside of construction site by wind.

3.6 Waste / Chemical Waste

The Contractor implemented visual inspection and distributed flyers/ notices to ensure all dump trucks have mechanical covers closed when leaving EcoPark site.

Separate waste collection bins were made available for collecting aluminum cans, waste paper and plastic bottles etc. The Contractor has provided the revised site layout plan for refuse collection points as shown in Appendix 3.

Waste dumpers were used for the collection and storage of general waste. Temporary storage areas for waste metals and waste tires were established in Phase I construction site. For Phase II construction site, a designated refuse collection point has been established and location is shown in Appendix 3.

Excavated materials are reused as back-fill material to balance cut and fill and hence reduce the generation of materials. Surplus materials are returned to stock in centralized area with suitable protective measures. The Contractor was reminded to comply with the requirements and conditions for disposal at public fill facility and all oversized aggregates should be crushed to less than 250mm before delivering to the public fill.

Materials are recycled and re-used at site as much as practicable to minimize waste generation. Timbers are recycled to make temporary tools and assess ladders etc. Excavated rocks, concrete and asphalts are stored for future re-use in land formation and structural construction etc.

Registered waste collectors will be arranged to collect and transport the wastes whenever necessary.

Table 3.4 provides a summary table of waste disposal in October 2009. The Contractor has been reminded to keep good record at site in order to have a clear presentation of waste disposal.

Table 3.4 Summary of Waste Disposal in October 2009								
Type of Waste Disposal Site Quantity Remarks								
General Waste	WENT Landfill	7.5 tonnes	-					
Inert C&D Material	Inert C&D Material Public Fill Facility 0 tonnes -							

3.7 Landfill Gas

New excavation pits are formed in Lot 7 on 16 October 2009. Hence, new LFG measurement points are being done from that day onwards. Furthermore, point S3 is still being monitored.

Measurement results are summarized in Table 3.5. All results are within the Action / Limit Levels in accordance with the EM&A Manual, as shown in Table 3.6.

Table 3.5 Summary of LFG Measurement for October 2009							
Sampling Location	Date of Measurement	Sampling Time	Weather Condition	Methane (CH ₄) %LEL	Carbon Dioxide (CO ₂) %LEL	Oxygen (O ₂)	
S3	2 October 09	11:28	Sunny	0.00%	0.00%	20.6	
S3	9 October 09	11:46	Sunny	0.00%	0.00%	20.9	
S3	16 October 09	11:26	Sunny	0.00%	0.00%	20.3	
Lot 7 Pt 1	16 October 09	11:18	Sunny	0.00%	0.00%	20.5	
Lot 7 Pt 2	16 October 09	11:22	Sunny	0.00%	0.00%	20.5	
S3	23 October 09	11:41	Sunny	0.00%	0.00%	20.2	
Lot 7 Pt 1	23 October 09	11:34	Sunny	0.00%	0.00%	20.7	
Lot 7 Pt 2	23 October 09	11:31	Sunny	0.00%	0.00%	20.8	
S3	30 October 09	11:27	Sunny	0.00%	0.00%	20.0	
Lot 7 Pt 1	30 October 09	11:18	Sunny	0.00%	0.00%	20.4	
Lot 7 Pt 2	30 October 09	11:14	Sunny	0.00%	0.00%	20.7	
Lot 7 Pt 3	30 October 09	11:22	Sunny	0.00%	0.00%	20.2	

Remarks: New excavation pits are formed in Lot 7 on 16 October 2009. Hence, new LFG measurement points are being done from that day onwards.

Table 3.6 Action Levels, Limit Levels and Event and Action Plan for LFG (From EM&A Manual)

Parameter	Level	Action		
Oxygen	Action Level < 19% O ₂	Ventilate trench/void to restore O ₂ to >19%		
	Limit Level < 18% O ₂	Stop works		
		Evacuate personnel/prohibit entry		
		Increase ventilation to restore O_2 to > 19%		
Methane	Action Level >10% LEL	Post "No Smoking" signs		
(CH_4)		Prohibit hot works		
		Increase ventilation to restore CH ₄ to <10%		
		LEL		
	Limit Level >20% LEL	Stop works		
		Evacuate personnel/prohibit entry		
		Increase ventilation to restore CH ₄ to <10%		
		LEL		

Table 3.5 Summary of LFG Measurement for October 2009									
Sampling	Date of	Sampling		ther		Carbon Dioxide	Oxygen (O ₂)		
Location	Measurement	Time	Cond	ition	(CH ₄) %LEL	(CO ₂) %LEL	Oxygen (O ₂)		
Carbon Action Level $>0.5\%$ CO ₂ Ventilate to restore CO ₂ to $<0.5\%$					6				
Dioxide									
(CO ₂) Limit Level >1.5% CO ₂				Stop works					
Evacuate personnel/prohibit entry							y		
				Incre	ease ventilatio	on to restore CC	O_2 to $< 0.5\%$		

4. SUMMARY OF ENVIRONMENTAL PERMIT AND LICENCES

ET has checked with the Contractor for the status of all environmental permits and licenses for this project as at October 2009, which is summarized in Table 4.1. ET will follow the application process of the outstanding permits / licenses and will provide suitable assistance whenever appropriate.

Table 4.1 Summary of Environmental Permits/Licences								
Description	License / Permit No.#	Date of Issue	Date of Expiry	Status/Remarks				
Environmental Permit	EP-226/2005/A	9-Sept-2005		Issued				
Registration of Waste Producer	5111-421-K2869-02	27-Jul-2006		Issued				
Construction Noise Permit	GW-RW0352-09	19-Aug-2009	18-Jan-2010	Issued				
Effluent Discharge Licence	EP760/421/011762/I	20-Nov-2006	1-Dec-2011	Issued				

5. CUMULATIVE LOG OF COMPLAINTS AND REMEDIAL ACTION

The cumulative log of complaints is referred in Appendix 5.

6. CUMULATIVE LOG OF NOTIFICATION OF SUMMONS AND PROSECUTIONS

No notification of summons and no prosecutions occurred during October 2009.

7. CONCLUSION

There is no summon nor prosecutions reported during October 2009.

Several environmental issues, such as the removed hoardings on Road A and the damaged wheel washing machine installed at the construction site entrance, have been identified by ET during weekly site inspections in the reporting month. Contractor has implemented some mitigation measures to address those problems as advised by ET. Some of the measures taken by the contractor were considered as effective to minimize negative impact to the environment. On-going investigation will be carried out to observe performance and effectiveness of those measures. Outstanding environmental

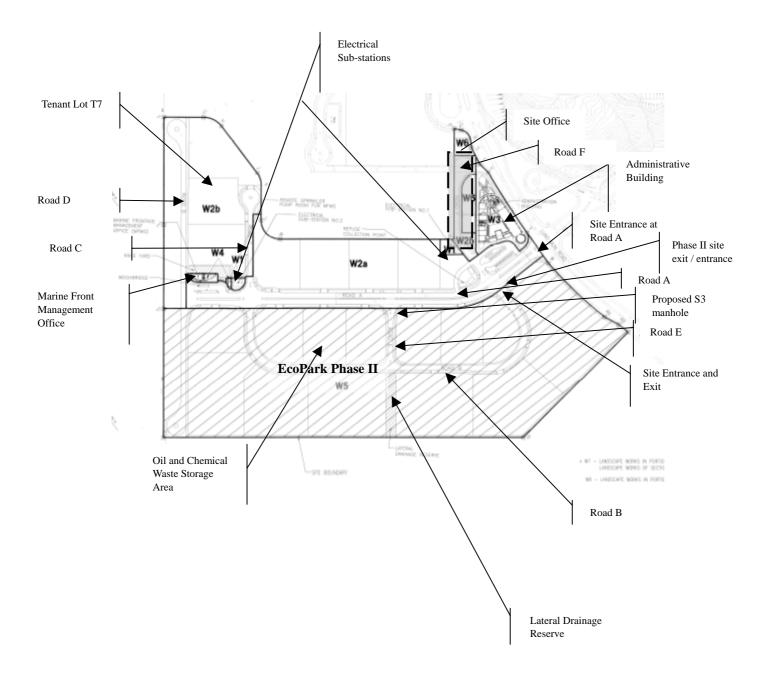
items will be inspected in the following month.

The Contractor has been using the waste management and record system including allocation of waste storage areas and the trip ticket system as proposed in the Environmental Management Plan.

Weekly LFG monitoring on point S3 is being carried out in the reporting month. Monitoring points Lot 7 pt1, pt2 and pt3 are added due to newly formed excavation pits, since 16 October 2009. The measurement results from ET shown in Table 3.5 were within Action and Limit Levels in accordance with EM&A manual.

The ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual and Environmental Permit requirement.

APPENDIX 1 - SITE LAYOUT PLAN



APPENDIX 2 - THE CONTACT PERSONS, TELEPHONE NUMBERS OF KEY PERSONNEL FOR DEVELOPMENT OF ECOPARK IN TUEN MUN AREA 38

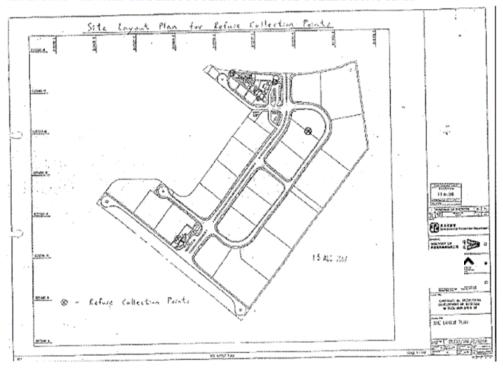
Company/Department	Name	Position	Telephone	
		Independent		
Scott Wilson Ltd.	Harold Insley	Environmental	2410 3858	
		Checker		
Scott Wilson Ltd.	Mr. Andy	Resident	6111 9703	
Scott Wilson Ltd.	Cheung	Engineer	0111 9703	
Scott Wilson Ltd.	Mr. T W Wong	Inspector	6111 9705	
	14 W 14 D 1	Project	0102 0600	
Kaden Construction Limited	Mr. K M Book	Manager	9193 8680	
Kaden Construction Limited	Mr. Stephen	Section Agent	9071 7657	
Raden Construction Limited	Leung	Section Agent	90/1/03/	
Environmental Pioneers & Solutions	Miss. Patricia	Environmental	2185 0123	
Limited	Chung	Team Leader	2185 0125	
Environmental Pioneers & Solutions	Mr. William	Environmental	2185 0154	
Limited	Wong	Technician	2103 0134	
Environmental Pioneers & Solutions	Mr. William	Environmental	2195 0172	
Limited	Law	Technician	2185 0172	

APPENDIX 3 – REVISED SITE LAYOUT PLAN FOR REFUSE COLLECTION POINTS

Development of EcoPark in Tuen Mun Area 38

Contract No. EP/SP/52/06 EM&A Report No. 30 (December 2008)

APPENDIX 3 - REVISED SITE LAYOUT PLAN FOR REFUSE COLLECTION POINTS



19

APPENDIX 4 - ORIGINAL LANDFILL GAS FIELD MEASUREMENT RECORDING SHEETS

Environmental Pioneers and Solutions Limited

Contract No.: EP/SP/52/06 - Development of EcoPark in Tuen Mun Area 38

Landfill Gas Monitoring - Field Measurement Recording Sheet

Date of Monitoring: 02/10/209

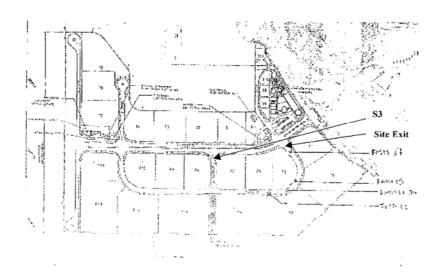
Weather condition: Survey

Monitoring performed by: William Land

Monitoring instrument:

Instruments	Model: GEM 2000	Last calibration:	03 April 2009
matunents	S/N: GM-08793106	Next calibration:	02 April 2010

		Results			,	
Location	Time	Methane (CH ₄) %	Carbon Dioxide (CO ₂) %	Oxygen (O ₂) %	Bal. Gas %	Baro. Pressure %
S3	l(= 2f	60.0	00 - O	20.6	79.4	29,82
Site exit	HIA	414	N/A	N/A	N/A	N/A



Contract No.: EP/SP/52/06 - Development of EcoPark in Tuen Mun Area 38

<u>Landfill Gas Monitoring - Field Measurement Recording Sheet</u>

Date of Monitoring: 9 0.4 2008

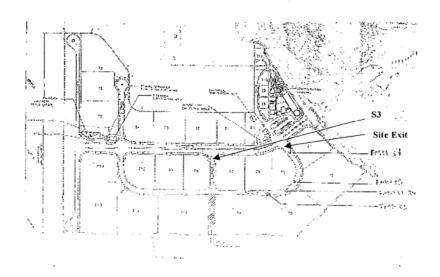
Weather condition: Surmy

Monitoring performed by: William Way

Monitoring instrument:

Instruments	Model: GEM 2000	Last calibration:	03 April 2009
mstruments	S/N: GM-08793106	Next calibration:	02 April 2010

		Results				
Location	Time	Methane (CH ₄) %	Carbon Dioxide (CO ₂) %	Oxygen (O ₂) %	Bal. Gas %	Baro. Pressure %
S3	1146	ه و . ه	0.00	20,9	79.1	z4.75
Site exit	NA			N.A.		



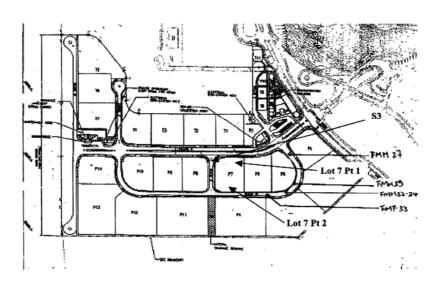
Contract No.: EP/SP/52/06 - Development of EcoPark in Tuen Mun Area 38

Landfill Gas Monitoring - Field Measurement Recording Sheet

Monitoring instrument:

Instruments	Model: GEM 2000	Last calibration:	03 April 2009
msuuments	S/N: GM-08793106	Next calibration:	02 April 2010

				Results		
Location	Time	Methane (CH ₄) %	Carbon Dioxide (CO ₂) %	Oxygen (O ₂) %	Bal. Gas %	Baro. Pressure %
S3	11:26	0D-P	00.0	20.3	79.7	29.86
Lot 7 Pt 1	11:18	00.0	00.0	20.5	79.5	29.86
Lot 7 Pt 2	11:22	DV . 0	00.0	20.5	79.5	29.86



Contract No.: EP/SP/52/06 - Development of EcoPark in Tuen Mun Area 38

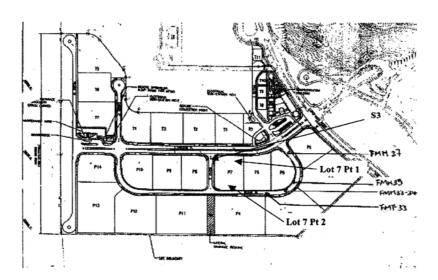
<u>Landfill Gas Monitoring - Field Measurement Recording Sheet</u>

Date of Monitoring:	23/10/2009
Weather condition:	Sunny
Monitoring performe	d by:

Monitoring instrument:

Instruments	Model: GEM 2000	Last calibration:	03 April 2009
	S/N: GM-08793106	Next calibration:	02 April 2010

			Results			
Location	Time	Methane (CH ₄) %	Carbon Dioxide (CO ₂) %	Oxygen (O ₂) %	Bal. Gas %	Baro. Pressure %
S3	11:41	00 · D	00.0	70-2	79-8	29.82
Lot 7 Pt 1	11:34	DO-D	00.0	20.7	79.3	29.82
Lot 7 Pt 2	11:31	00.0	00.0	70.8	79.2	29.82



Contract No.: EP/SP/52/06 - Development of EcoPark in Tuen Mun Area 38

<u>Landfill Gas Monitoring - Field Measurement Recording Sheet</u>

Date of Monitoring: 30/10/2009

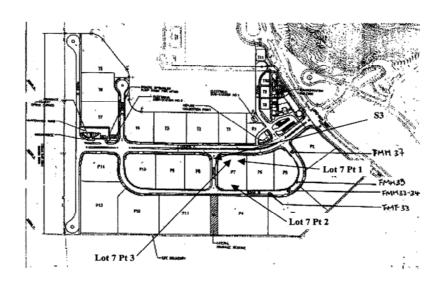
Weather condition: Shann

Monitoring performed by: Dilliam Law

Monitoring	instrument:

Instruments	Model: GEM 2000	Last calibration:	03 April 2009
	S/N: GM-08793106	Next calibration:	02 April 2010

	Time	Results				
Location		Methane (CH ₄) %	Carbon Dioxide (CO ₂) %	Oxygen (O ₂) %	Bal. Gas %	Baro. Pressure %
S3	11:27	00-0	00.00	20.0	80.0	29.98
Lot 7 Pt 1	11 - 18	00.0	00.0	20.4	79.6	9-78
Lot 7 Pt 2	11:14	00.0	00.0	20.7	79.3	29.98
Lot 7 Pt 3	[1:22	00.0	00.0	20.2	79.8	29.98



APPENDIX 5 – CUMULATIVE LOG OF COMPLAINTS

CUMULATIVE LOG OF COMPLAINTS

Environmental	No. of Outstanding	<u> </u>	Cumulative no. of complaints received since the
Parameters	Complaints		commencement of project
Air	0	0	2
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	2

DETAILS OF COMPLAINTS AND REMEDIAL ACTIONS

٠	Log Ref.	Date of Compliant received	Location	Complainant /Date	Details of Complaint	Investigation /Mitigation Action	Investigated by/ Date
	_	-	-	-	-	-	-