

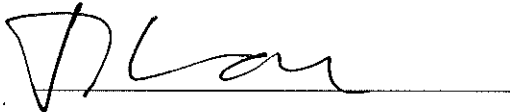
ASB Biodiesel (Hong Kong) Limited

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Quarterly EM&A Summary Report

September 2011 to November 2011

(Version 1.0)

Certified By 
(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

CINOTECH CONSULTANTS LTD

Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong
Tel: (852) 2151 2083 Fax: (852) 3107 1388
Email: info@cinotech.com.hk



MANNINGS
(Asia) Consultants Limited

Address: 5/F, Winning Commercial Building, 46-48 Hillwood Road, Tsim Sha Tsui, Kowloon
Tel: 852 - 3168 2028 Fax: 852 - 3168 2022

<i>To:</i>	Cinotech	<i>Date:</i>	22 December 2011
<i>Attn:</i>	Ms. Ivy Tam / Mr. Felix Kwan	<i>Fax:</i>	3107 1388
<i>From:</i>	Mr. Mark Cheung	<i>Ref:</i>	D1067/F04880
<i>Job No.</i>	D1067	<i>Total Pages:</i>	1

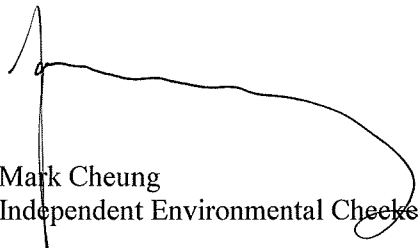
**SUBJECT: Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate
Quarterly EM&A Summary Report (September 2011 to November 2011)**

Dear Sir / Madam,

We refer to your submission of the Quarterly EM&A Summary Report (September 2011 to November 2011) via email dated 19 December 2011.

We write to advise that we have no comment on the captioned report.

Regards,



Mark Cheung
Independent Environmental Checker

KTC/gk

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EXECUTIVE SUMMARY

Introduction

1. This is the 10th Quarterly Environmental Monitoring and Audit (EM&A) Summary Report prepared by Cinotech Consultants Limited for Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate". This report documents the findings of EM&A Works conducted from September 2011 to November 2011.
2. The major site activities undertaken in the reporting quarter included:
 - General site cleaning and tidying;
 - Bamboo scaffolding at Processing Building replacement works;
 - FRP Painting Works at Processing Building;
 - Tower Crane Erection Works;
 - Zone 1A Administration Building – RC Superstructure Construction Works;
 - Zone 1B Fat Preparation and Steam Boiler Room Building – RC Superstructure Works;
 - Zone 2A Tank Farm – RC Footing Construction Works; and
 - Zone 2A GTWSR – Sheet Piling Works for ELS.

Environmental Monitoring and Audit Works

3. Environmental monitoring and audit works for the Project were performed regularly as stipulated in the EM&A Manual and the results were checked and reviewed. Site audits were conducted once per month. The implementation of the environmental mitigation measures and environmental complaint handling procedures were also checked.

Environmental Licenses and Permits

4. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, an Environmental Permit No. EP-319/2009 and EP-319/2009/A was issued on 11 March 2009 and 7 April 2009 respectively. Registration of Chemical Waste Producer (WPN-5113-839-C1186-15), Construction Noise Permit (GW-RE0401-11 and GW-RE0828-11) and Wastewater Discharge License (WT00004508-2009).

Key Information in the Reporting Quarter

5. Summary of key information in this reporting quarter is tabulated in **Table I**.

Table I Summary Table for Key Information in the Reporting Quarter

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0	---	N/A	N/A	---
Changes to the assumptions and key construction / operation activities recorded	0	---	N/A	N/A	---
Status of submissions under EP	3	Monthly EM&A Report for September 2011, October 2011 and November 2011	---	---	---
Notifications of any summons & prosecutions	0	---	N/A	N/A	---

Future Key Issues

6. Major site activities for the coming two months will include:
- General site cleaning and tidying;
 - Administration Building – RC Superstructure Construction Works;
 - Processing Building – Cladding Wall Works;
 - Fat Preparation Building – RC Superstructure Construction Works;
 - Steam Boiler Room – RC Superstructure Construction Works;
 - Tank Farm 2A – Footing and Bund Wall concrete works;
 - Tank Farm 2A – Tank Erection Works;
 - Grease Trap Waste Screening Room (GTWSR) – ELS and Foundation Construction Works;
 - Tank Farm 2B-2E Bund Wall Concreting Works;
 - Jetty – Temporary Construction and Bored Piles Works; and
 - Pipe Bridge – Pipe Bridge Erection Works.
7. The future environmental concerns are air quality, waste management and surface runoff from construction works.

1 INTRODUCTION

Background

- 1.1 Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate is a Designated Project (hereafter referred to as “the Project”) under the Environmental Impact Assessment Ordinance (Cap. 449). A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, ecological and identify possible mitigation measures associated with the works. An EIA Report was approved by the Environmental Protection Department (EPD) on 26 February 2009.
- 1.2 The project is to construct and operate a 100,000 tonnes per annum biodiesel plant at Tseung Kwan O Industrial Estate. The plant will use a multi-feedstock which consists of waste cooking oil (WCO), oil and grease recovered from grease trap waste (GTW), Palm Fatty Acid Distillate (PFAD) and animal fats. The proposed biodiesel plant not only offers a convenient recycling outlet for GTW and WCO but also converts the oil and grease recovered from these wastes into useful products. The Project also offers a cleaner alternative to diesel fuel to the Hong Kong market. The main processes include the followings:-
- Construction of feedstock reception and storage facilities, and offices;
 - Construction of a grease trap waste pre-treatment facility (with a designated treatment capacity of about 200,000 tonnes per annum);
 - Construction of a wastewater treatment plant (with a designed treatment capacity of about 170,000 m³ per annum);
 - Installation of biodiesel production and glycerine purification system;
 - Construction of product storage and ancillary facilities;
 - Pretreatment of grease trap waste;
 - Treatment of wastewater generated from feedstock pre-treatment and glycerine dewatering process, and filtrates from dewatering process of sludge treatment;
 - Transesterification of feedstock with alcohol-catalyst; and
 - Purification of biodiesel.
- 1.3 The general layout of the Project is shown in **Figure 1.1**.
- 1.4 An Environmental Permit (EP) No. EP-319/2009 and EP-319/2009/A was issued on 11 March 2009 and 7 April 2009 respectively for Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate to ASB Biodiesel (Hong Kong) Limited as the Permit Holder.
- 1.5 Cinotech Consultants Limited was commissioned by the Contractor to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. This is the 10th Quarterly EM&A Summary Report summarizing the EM&A works for the Project in from September 2011 to November 2011.

Project Organizations

- 1.6 Different parties with different levels of involvement in the project organization include:
- Project Proponent – ASB Biodiesel (Hong Kong) Limited
 - Engineer’s Representative (ER) – AECOM
 - Contractor – China Harbour Engineering Company Limited (CHEC)
 - Environmental Team (ET) – Cinotech Consultants Limited
 - Independent Environmental Checker (IEC) – Mannings (Asia) Consultants Ltd.
- 1.7 The responsibilities of respective parties are detailed in Section 1.10 of the Final EM&A Manual of the Project. The contact details of the project organisation are shown in **Appendix A**

Construction Programme

- 1.8 The construction programme is presented in **Appendix B**. The site activities undertaken in the reporting quarter were:
- General site cleaning and tidying;
 - Bamboo scaffolding at Processing Building replacement works;
 - FRP Painting Works at Processing Building;
 - Tower Crane Erection Works;
 - Zone 1A Administration Building – RC Superstructure Construction Works;
 - Zone 1B Fat Preparation and Steam Boiler Room Building – RC Superstructure Works;
 - Zone 2A Tank Farm – RC Footing Construction Works; and
 - Zone 2A GTWSR – Sheet Piling Works for ELS.

Summary of EM&A Requirements

- 1.9 The EM&A requirements are described in the following sections, including:
- Environmental mitigation measures, as recommended in the project EIA study final report; and
 - Environmental requirements in contract documents.
- 1.10 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 2 of this report.

2 ENVIRONMENTAL AUDIT

Site Audits

- 2.1 Site audit was carried out by ET on monthly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix C**.
- 2.2 Site audits were conducted on 28th September 2011, 21st October 2011 and 24th November 2011 by ET in the reporting quarter. No non-compliance was observed during the site audits. The observations and recommendations made during the audit sessions are summarized in **Table II**.

Table II Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	21/10/2011	Weed in the U-channel should be cleared regularly to avoid blockage.	Follow up action was taken by the Contractor.
Waste / Chemical Management	21/10/2011	The oil drum should be stored in a drip tray.	Follow up action was taken by the Contractor.
Water Quality	24/11/2011	A proper temporary ditch should be provided for discharging cement water runoff into the soak-away pit.	Follow up action was taken by the Contractor.

Status of Environmental Licensing and Permitting

- 2.3 All permits/licenses obtained for the Project are summarized in **Appendix D**

Implementation Status of Environmental Mitigation Measures

- 2.4 According to the EIA Study Report, Environmental Permit and the EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the EMIS is provided in **Appendix E**.

Summary of Complaint and Prosecution

- 2.5 No environmental related complaint, prosecution or notification of summons was received in the reporting quarter.

- 2.6 There was no environmental complaint, prosecution or notification of summons received since the Project commencement. The Complaint Log is attached in **Appendix F**.

3 CONCLUSIONS AND RECOMMENDATIONS

Key Issues for the Coming Month

3.1 Key issues to be considered in the coming quarter include:

- Noise from operation of the equipment and machinery on-site;
- Effluent discharge generated from surface runoff;
- Dust generated from excavation works and stockpile of dusty materials;
- Maintenance of de-silting facilities and drainage system, such as U-channels;
- Storage of chemicals/fuel and chemical waste/waste oil on site;
- Accumulation of stagnant water in the site areas; and
- Accumulation of C&D waste and general waste on site.

Conclusions

3.2 Environmental audit works were conducted in the reporting quarter. Site inspections were conducted on a monthly basis. The results were reviewed and checked.

3.3 There was no environmental complaint, prosecution or notification of summons received.

Recommendations

3.4 According to the environmental audit performed in the reporting quarter, the following recommendations were made:

Water Impact

- To identify any wastewater discharges from site.
- To ensure properly maintenance for de-silting facilities.
- To clear the silt and sediment in the sedimentation tanks.
- To review the capacity of de-silting facilities for discharge.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.
- To avoid accumulation of stagnant and ponding water on site.

Dust Impact

- To remove fugitive dusty material on the haul road periodically.
- Excavated dusty materials or stockpile of dusty materials should be covered by impervious sheeting, or sprayed with water so as to maintain entire surface wet.

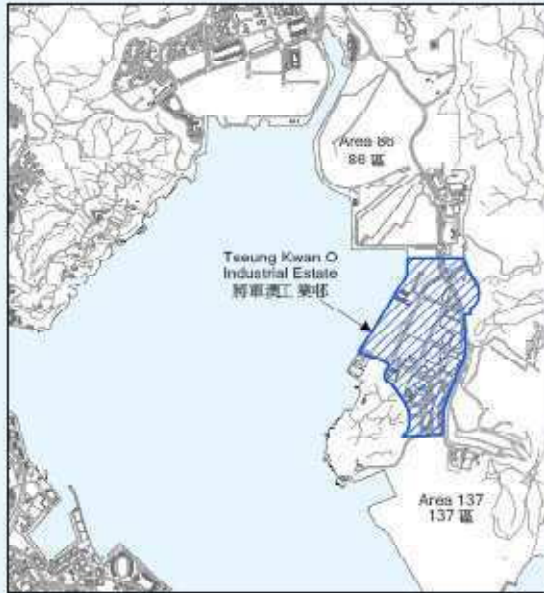
Noise Impact

- To space out noisy equipment and position as far away as possible from sensitive receivers.
- To inspect the noise sources inside the site.

Waste / Chemical Management

- To provide proper rubbish bins / skips for waste collection.
- To provide proper storage area for oil container on site.
- To avoid and check for any accumulation of waste materials or rubbish on site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment.

FIGURES



Key 圖例

 Proposed Site



Meters 米

0 100 200 400



Title Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Site Layout Plan

Scale

N.T.S

Project

No.

MA9021

Date

Jun-09

Figure

1.1

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**APPENDIX A
CONTACT DETAILS OF THE PROJECT
ORGANISATION**

APPENDIX A – Contact Details of the Project Organisation

Party	Role	Name	Position	Phone No.	Fax No.
ASB	Project Proponent	Ms. Sylvia Har	Senior Plant Engineer	9479 0949	3741 1661
Cinotech	Environmental Team	Dr. HF Chan	ET Leader	2151 2088	3107 1388
		Ms. Ivy Tam	Project Coordinator	2151 2090	
		Mr. Felix Kwan	Audit Team Leader	2151 2077	
Mannings	Independent Environmental Checker	Mr. Mark Cheung	Independent Environmental Checker	3168 2028	3168 2022
		Mr. Gavin Kwok	Assistant to Independent Environmental Checker	3168 2028	
AECOM	Project Manager	Mr. Matthew Lau	Construction Manager	9363 5586	N/A
CHEC	Contractor	Mr. Peter Chung	Project Manager	9471 2438	2623 9226
		Mr. Anson Wong	Safety and Environmental Officer	9656 3837	
		Mr. Simon Li	Environmental Supervisor (Ass. Planning Engineer)	6152 7867	

APPENDIX B
CONSTRUCTION PROGRAMME

Activity ID	Activity Name	Duration	Start	Finish	2011					2012				
					Oct -1	Nov 1	Dec 2	Jan 3	Feb 4	Mar 5	Apr 6	May 7	Jun 8	
C270MC-3M-Rolling Programme Ver.1.0-(021211)														
Key Dates														
Contract Period														
A15700	Date of Commencement of the Works	0	04-Nov-11 A											
Milestones														
CHEC Subletting Works														
Remaining Construction Works														
1A - Administration Building														
Administration Building Structural and Builder's Work														
A17000	AB-Superstructure Construction Works upto +10.15mPD (1st Floor)	60	04-Nov-11 A	02-Jan-12										
A17010	AB-Superstructure Construction Works upto +14.17mPD (2nd Floor)	38	03-Jan-12	09-Feb-12										
A17020	AB-Superstructure Construction Works upto +17.05mPD (Roof Floor)	12	10-Feb-12	21-Feb-12										
A17030	AB-Superstructure Construction Remaining Works	11	22-Feb-12	03-Mar-12										
1B - Process Building														
Processing Building Structural and Builder's Work														
A18090	PB-Material procurement	60	04-Nov-11 A	02-Jan-12										
A18100	Primary support modification	60	04-Nov-11 A	02-Jan-12										
A18110	PB-Cladding wall for Processing Building	31	03-Jan-12	02-Feb-12										
A18120	PB-Cladding roof for Processing Building	31	03-Feb-12	04-Mar-12										
PB-Processing Works														
A17900	PB-BDI Piping, Electrical, Insulation & Instrumentation Works	175	03-Jan-12	25-Jun-12										
1B - Fat Preparation Building														
Fat Preparation Structural and Builder's Work														
A18510	FP-RC superstructure construction works upto +10.4mPD (1st floor)	60	04-Nov-11 A	02-Jan-12										
A18520	FP-RC superstructure construction works upto +15.1mPD (2nd floor)	20	02-Jan-12	22-Jan-12										
A18530	FP-RC superstructure construction works upto +20.0mPD (roof floor)	5	22-Jan-12	27-Jan-12										
A18600	FP-Fat Preparation Steel Works	30	27-Jan-12	26-Feb-12										
A18700	FP-Cooling Tower Installation	62	10-Feb-12	12-Apr-12										
A19140	FP-Installation of roof waterproofing system works	30	27-Jan-12	26-Feb-12										
FP-Processing Works														
A18800	FP-BDI Fat Prep. Equipment Installation Works	29	26-Feb-12	26-Mar-12										
1B - Boiler Room														
Boiler Room Structural and Builder's Work														
A19410	BR-RC superstructure construction works 1st stage	59	04-Nov-11 A	01-Jan-12										
A19420	BR-RC superstructure construction works 2nd stage	17	01-Jan-12	18-Jan-12										
A19430	BR-RC superstructure construction works 3rd stage	7	18-Jan-12	25-Jan-12										
A19500	BR-Boiler Room Steel Works	70	08-Feb-12	18-Apr-12										
A20140	BR-Installation of roof waterproofing system works	30	27-Jan-12	26-Feb-12										
BR-Processing Works														
A19600	BR-BDI Boiler Room & Utility Equipment Installation Works	70	25-Jan-12	04-Apr-12										

- Actual Work
- Remaining Work
- Critical Remaining Work
- Critical Milestone
- Milestone
- Summary

Proposed Biodiesel Plant at T.K.O.T. Lot 39 Main Contract for All Remaining Works

3 Months Rolling Programme (2 Dec 2011)

Date	Revision	Checked	Approved
18-Nov-11			
02-Dec-11			

Activity ID	Activity Name	Duration	Start	Finish	2011				2012		
					Oct -1	Nov 1	Dec 2	Jan 3	Feb 4	Mar 5	
2A - Tank Farm					124					04-Nov-11 A	13-Mar-12
Tank Farm 2A Structural and Builder's Work					124					04-Nov-11 A	13-Mar-12
A20410	2A-1st pour concrete of Tank Farm 2A Footing	30	04-Nov-11 A	08-Dec-11							
A20420	2A-2nd pour concrete of Tank Farm 2A Footing	31	21-Nov-11 A	21-Dec-11							
A20430	2A-3rd pour concrete of Tank Farm 2A Footing	31	22-Dec-11	21-Jan-12							
A20440	2A-Concreting works for RC pipe support wall	22	13-Jan-12	03-Feb-12							
A20510	2A-Bund walls structural concrete works 1st stage	39	04-Feb-12	13-Mar-12							
A20610	2A-Erection of tanks in Tank Farm 2A 1st stage	38	04-Feb-12	12-Mar-12							
2A - GTW Separation Room					114					04-Nov-11 A	04-Mar-12
GTWSR Structural and Builder's Work					114					04-Nov-11 A	04-Mar-12
A21210	GTWSR-Driving works of all sheet pile for ELS	30	04-Nov-11 A	04-Dec-11							
A21220	GTWSR-Excavation and dewatering system for ELS	54	04-Dec-11	27-Jan-12							
A21300	GTWSR-Foundation Construction	37	27-Jan-12	04-Mar-12							
2B-E Tank Farm					78					20-Jan-12	07-Apr-12
Tank Farm 2B-2E Structural and Builder's Work					78					20-Jan-12	07-Apr-12
A22410	2BE-Bund wall concreting works 1st stage	39	20-Jan-12	28-Feb-12							
A22420	2BE-Bund wall concreting works 2nd stage	39	28-Feb-12	07-Apr-12							
3 - Waste Water Treatment Plant					39					27-Jan-12	06-Mar-12
Waste Water Treatment Plant Structural and Builder's Work					39					27-Jan-12	06-Mar-12
A23200	WWTP-Foundation Construction	39	27-Jan-12	06-Mar-12							
4A - Jetty					124					22-Nov-11 A	13-Mar-12
Jetty Structural and Builder's Work					124					22-Nov-11 A	13-Mar-12
A24100	4A-Temporary works design for Jetty Piling Submission, Approval and Consent	28	22-Nov-11 A	19-Dec-11							
A24105	4A-Temporary works construction	20	20-Dec-11	08-Jan-12							
A24120	4A-Construct upto 6 nos of Jetty Bored Piles	65	09-Jan-12	13-Mar-12							
Pipe Bridge & Pipe Trench Works					57					05-Jan-12	01-Mar-12
A24910	Erection of steel pipe racks at Tank Farm 2A	30	05-Jan-12	03-Feb-12							
A24920	Erection of pipe bridge between Tank Farm 2A and Tank Farm 2B-2E	30	05-Jan-12	03-Feb-12							
A24930	Erection of steel pipe racks at Tank Farm 2B-2E	30	05-Jan-12	03-Feb-12							
A25000	Pipe Bridge Between PB and FP	34	27-Jan-12	01-Mar-12							

 Actual Work	 Critical Milestone
 Remaining Work	 Milestone
 Critical Remaining Work	 Summary

Proposed Biodiesel Plant at T.K.O.T. Lot 39 Main Contract for All Remaining Works

3 Months Rolling Programme (2 Dec 2011)

Date	Revision	Checked	Approved
18-Nov-11			
02-Dec-11			

APPENDIX C
SUMMARY OF SITE AUDITS

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate


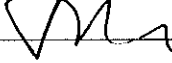
Monthly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	110928
Date	28 September 2011 (Wednesday)
Time	11:00 – 11:20

Ref. No.	Non-Compliance	Related Item No.
-	None	-

Ref. No.	Remarks/Observations	Related Item No.
	<p>A. Water Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>B. Air Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>C. Noise</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>D. Waste / Chemical Management</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>E. Permit / Licenses</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>F. Reminders</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>G. Others</p> <ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.:110819): All environmental deficiencies were improved/rectified by the Contractor. 	

	Name	Signature	Date
Recorded by	Felix Kwan		28 September 2011
Checked by	Dr. HF Chan		28 September 2011

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

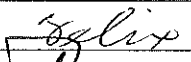
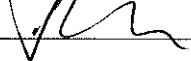
Monthly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	111021
Date	21 October 2011 (Friday)
Time	16:05 – 16:25

Ref. No.	Non-Compliance	Related Item No.
-	None	-

Ref. No.	Remarks/Observations	Related Item No.
111021-R01 111021-R02	<p>A. Water Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>B. Air Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>C. Noise</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>D. Waste / Chemical Management</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>E. Permit / Licenses</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>F. Reminders</p> <ul style="list-style-type: none"> Weed in the U-channel should be cleared regularly to avoid blockage. The oil drum should be stored in a drip tray. <p>G. Others</p> <p>Follow-up on previous audit section (Ref. No.:110928):</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	B8 E3i

	Name	Signature	Date
Recorded by	Felix Kwan		21 October 2011
Checked by	Dr. HF Chan		21 October 2011

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Monthly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	111124
Date	24 November 2011 (Thursday)
Time	15:40 – 16:45

Ref. No.	Non-Compliance	Related Item No.
-	None	-

Ref. No.	Remarks/Observations	Related Item No.
111124-R01	<p>A. Water Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>B. Air Quality</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>C. Noise</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>D. Waste / Chemical Management</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>E. Permit / Licenses</p> <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. <p>F. Reminders</p> <ul style="list-style-type: none"> A proper temporary ditch should be provided for discharging cement water runoff into the soak-away pit. <p>G. Others</p> <p>Follow-up on previous audit section (Ref. No.:111021);</p> <ul style="list-style-type: none"> All environmental deficiencies were improved/rectified by the Contractor. 	B3i

	Name	Signature	Date
Recorded by	Felix Kwan	<i>Felix</i>	24 November 2011
Checked by	Dr. HF Chan	<i>[Signature]</i>	24 November 2011

APPENDIX D
PERMITS AND LICENSES

Appendix D - Summary of Environmental Licensing and Permit Status

Permit / License No.	Valid Period		Details	Status
	From	To		
Environmental Permit (EP)				
EP-319/2009/A	07/04/2009	N/A	Construction and operation of (i) a biochemical plant with a storage capacity of more than 500 tonnes and in which substances are processed and produced; (ii) a storage, transfer and trans-shipment of oil facility with a storage capacity of not less than 1,000 tonnes; and (iii) a dangerous goods godown with a storage capacity exceeding 500 tonnes	Valid
Registration of Chemical Waste Producer				
WPN-5113-839-C1186-15	12/06/2009	-	Spent Lubrication oil.	Valid
Construction Noise Permit (CNP)				
GW-RE0401-11	02/06/2011	26/11/2011	Use of Powered Mechanical Equipment during 0000-2400 hours on general holidays (including Sundays), 0000-0700 hours and 1900-2400 hours on any day not being a general holiday.	Valid
GW-RE0828-11	27/11/2011	26/05/2012	Use of Powered Mechanical Equipment during 0000-2400 hours on general holidays (including Sundays), 0000-0700 hours and 1900-2400 hours on any day not being a general holiday.	Valid
Wastewater Discharge License				
WT00004508-2009	07/09/2009	-	-	Valid

**APPENDIX E
UPDATED ENVIRONMENTAL
MITIGATION IMPLEMENTATION
SCHEDULE**

Appendix E - Summary of Environmental Mitigation Implementation Schedule (Construction Phase)

Types of Impacts	Mitigation Measures	Status
<p align="center">Construction Dust</p>	<ul style="list-style-type: none"> • Dust control measures such as water spaying on roads and dusty areas, covering of lorries by impervious sheets and controlling of the falling height of fill materials will be implemented; • Effective dust screens, sheeting or netting will be provided to enclose the scaffolding from the ground level of the facility during the building construction; • All debris and materials will be covered or stored in a sheltered debris collection area; • Hoarding from ground level will be provided along the entire length of the site boundary except for a site entrance or exit; • Every stockpile of dusty materials will be covered entirely by impermeable sheeting or placed in an area sheltered on the top and the 3 sides; • Regular maintenance and checking of the diesel powered mechanical equipment will be adopted to avoid any black smoke emissions and to minimize gaseous emissions. • Monthly site audits will be conducted to ensure the implementation of suitable dust control measures and good site practices. 	<p align="center">^</p> <p align="center">^</p> <p align="center">^</p> <p align="center">^</p> <p align="center">^</p> <p align="center">^</p> <p align="center">^</p>
<p align="center">Construction Noise</p>	<ul style="list-style-type: none"> • Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction program; • Silencers or mufflers on construction equipment will be utilized and will be properly maintained during the construction program; • Mobile plant, if any, will be sited as far from NSRs as possible; • Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; • Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and • Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from onsite construction activities. 	<p align="center">^</p> <p align="center">^</p> <p align="center">^</p> <p align="center">^</p> <p align="center">^</p> <p align="center">^</p>

Types of Impacts	Mitigation Measures	Status
Water Quality	<p><u>Piling Activities</u></p> <ul style="list-style-type: none"> Silt curtain will be installed around the marine piling area to contain any suspended mud and sediments generated during the piling works. Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from groundwater (if pumping is required) to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. 	N/A
	<p><u>Construction Site Run-off and Drainage</u></p> <ul style="list-style-type: none"> Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Careful programming of the works to minimise surface excavations for the construction works during the wet season. If excavation of soil cannot be avoided during the wet season, exposed slope surfaces will be covered by a tarpaulin or other means. Other measures that need to be implemented before, during, and after rainstorms are summarised in ProPECC PN 1/94. Exposed soil surfaces will be protected by paving or fill material as soon as possible to reduce the potential of soil erosion. Open stockpiles of construction materials or construction wastes on-site of more than 50m³ will be covered with tarpaulin or similar fabric during rainstorms. These materials will not be placed near the seawall area. 	^ ^ ^ ^
	<p><u>General Construction Activities</u></p> <ul style="list-style-type: none"> Debris and refuse generated on-site will be collected, handled and disposed of properly to avoid entering the nearby water sensitive receivers (WSRs). Stockpiles of cement and other construction materials will be kept covered when not being used. Oils and fuels will only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas will be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund will be drained of rainwater after a rain event. 	^ ^

Types of Impacts	Mitigation Measures	Status
	<p data-bbox="394 225 902 252"><u>Sewage generated from On-site Workforce</u></p> <ul data-bbox="443 296 1977 427" style="list-style-type: none"> <li data-bbox="443 296 1977 360">• Temporary sanitary facilities, such as portable chemical toilets, will be provided on-site. A specialised contractor will be responsible for regular collection and appropriate disposal of the sewage and maintenance of these facilities. <li data-bbox="443 363 1977 427">• Monthly site inspections will be carried out during construction to ensure that the mitigation measures listed above are properly implemented. The site audit frequency will be increased to weekly intervals during the piling works. 	<p data-bbox="2040 296 2101 323">N/A</p> <p data-bbox="2040 363 2078 391">^</p>
<p data-bbox="215 488 315 515">Ecology</p>	<ul data-bbox="443 472 1977 563" style="list-style-type: none"> <li data-bbox="443 472 1977 563">• Mitigation measures for minimising water quality impacts are presented in detail above. These measures will be properly implemented and good construction practices will be adopted to minimise potential adverse impacts to marine ecological resources. 	<p data-bbox="2040 488 2078 515">^</p>

Remarks: ^ Compliance of mitigation measure; X Non-compliance of mitigation measure;
 N/A Not Applicable at this stage; • Non-compliance but rectified by the contractor;
 * Recommendation was made during site audit but improved/rectified by the contractor;
 # Non-compliance but rectified/improved by the contractor and awaiting IEC's further comment.

**APPENDIX F
COMPLAINT LOG**

APPENDIX F – COMPLAINT LOG**Reporting Quarter:** September 2011 to November 2011

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint was received in the reporting quarter.