ASB Biodiesel (Hong Kong) Limited

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Monthly EM&A Report (version 1.0)

February 2010

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

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EXECUTIVE SUMMARY

Introduction

- 1. This is the 9th monthly Environmental Monitoring and Audit (EM&A) 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 in February 2010.
- 2. The major site activities undertaken in the reporting month included:
 - Pile cap construction.

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. 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. The contractor has applied for the Registration of Chemical Waste Producer (WPN-5113-839-C1186-15), Construction Noise Permit (GW-RE0561-09) and Wastewater Discharge License (WT00004508-2009).

Key Information in the Reporting Month

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

Table I Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark	
Event	Number	Nature	Action Taken	Status	Kemark	
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	1	Monthly EM&A Report for January 2010	Submitted to EPD on 12 February 2010 (EP condition 4.2)	Verified by IEC		
Notifications of any summons & prosecutions	0		N/A	N/A		

Future Key Issues

- 6. Major site activities for the coming month will include:
 - Pile cap construction;
 - Reinforcement concrete structure;
 - Superstructure building process;
 - Steel equipment installation;
 - · Steel structure erection and
 - Bunwall construction.
- 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 Layout plan of tank farm **2A**, **2B** to **2E** is revised and a report is made by Environmental Resources Management (ERM) regarding such change. The report concluded that no deviation is found from the approved EIA report.
 - 1.5 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.
 - 1.6 Cinotech Consultants Limited was commissioned by ASB Biodiesel (Hong Kong) Limited to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. China Harbour Engineering Company Limited is the Managing Contractor of the Project. This is the 9th Monthly EM&A report summarizing the EM&A works for the Project in February 2010.

Project Organizations

- 1.7 Different parties with different levels of involvement in the project organization include:
 - Project Proponent ASB Biodiesel (Hong Kong) Limited
 - Contractor China Harbour Engineering Company Limited (CHEC)
 - Environmental Team (ET) Cinotech Consultants Limited
 - Independent Environmental Checker (IEC) Mannings (Asia) Consultants Ltd.
- 1.8 The responsibilities of respective parties are detailed in Section 1.10 of the Final EM&A Manual of the Project.
- 1.9 The key contacts of the Project are shown in Table 1.1.

Table 1.1 Key Project Contacts

Party	Role	Name	Position	Phone No.	Fax No.	
ASB	Permit Holder	Mr. Eddie Chung	Project Manager	9189 8118	37411661	
		Dr. HF Chan	ET Leader	2151 2088		
Cinotech	Environmental Team	Ms. Ivy Tam	Project Coordinator	2151 2090	3107 1388	
		Ms. Cara Heung	Audit Team Leader	2151 2078		
Mannings	Independent Environmental Checker	Mr. Mark Cheung	Independent Environmental Checker	3168 2028	3168 2022	
Mannings		Mr. Gavin Kwok	Assistant to Independent Environmental Checker	3168 2028	3108 2022	
CHEC	Contractor	Mr. Stephen Tse	Project Manager	8106 1848	2623 9226	
CHEC	Contractor	Mr. Fred Ho	Environmental Officer	9279 6226	2023 9220	

Construction Programme

- 1.10 The site activities undertaken in the reporting month were:
 - Pile cap construction.

Summary of EM&A Requirements

- 1.11 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.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 3 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 A**.
- 2.2 Site audit was conducted on 23th February 2010 by ET in the reporting month. No non-compliance was observed during the site audits.

Status of Environmental Licensing and Permitting

2.3 All permits/licenses obtained for the Project are summarized in **Table 2.1**.

Status of Waste Management

2.4 No Construction and Demolition (C&D) Waste and Chemical Waste are generated in the reporting month. The quantities of waste generated in this reporting month are summarized in **Appendix C**.

Implementation Status of Environmental Mitigation Measures

2.5 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 B**.

Table 2.1 Summary of Environmental Licensing and Permit Status

D	Valid	Period	D.A. H.	Status	
Permit / License No.	From	To	Details	Status	
Environmental Permit (EP)	1				
EP-319/2009/A	07/04/2009	N/A	Construction and operation of	Valid	
			(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 transhipment 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		
Registration of Chemical Was	te Producer		l		
WPN-5113-839-C1186-15	12/06/2009	-	Spent Lubrication oil.	Valid	
Construction Noise Permit (C)	NP)				
GW-RE0561-09	10/12/2009	26/05/2010	Use of Powered Mechanical Equipment during 0000-2400 hours on general holidays (including Sundays), 0000-0700 hours on any day not being a general holiday.	Valid	
Wastewater Discharge License	e				
WT00004508-2009	07/09/2009	-	-	Valid	

2.6 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarized in Table 2.2.

Table 2.2 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up	
Waste / Chemical Management	23-02-10	Reminder Provide proper label and temporary storage for chemical container.	Rectification photo received from Contractor 04/03/2010.	was The on

Summary of Complaint and Prosecution

- 2.7 No environmental related complaint, prosecution or notification of summons was received in the reporting month.
- 2.8 There was no environmental complaint, prosecution or notification of summons received since the Project commencement. The Complaint Log is attached in **Appendix D**.

3 FUTURE KEY ISSUES

Key Issues for the Coming Month

- 3.1 Key issues to be considered in the coming month 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.

Construction Program for the Next Month

- 3.2 A tentative construction programme is provided in **Appendix E**. The major construction activities in the coming month will include:
 - Pile cap construction;
 - Reinforcement concrete structure;
 - Superstructure building process;
 - Steel equipment installation;
 - Steel structure erection and
 - Bunwall construction.

4 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 4.1 Environmental audit works were conducted in the reporting month. Site inspections were conducted on a monthly basis. The results of were reviewed and checked.
- 4.2 There was no environmental complaint, prosecution or notification of summons received.

Recommendations

4.3 According to the environmental audit performed in the reporting month, 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.

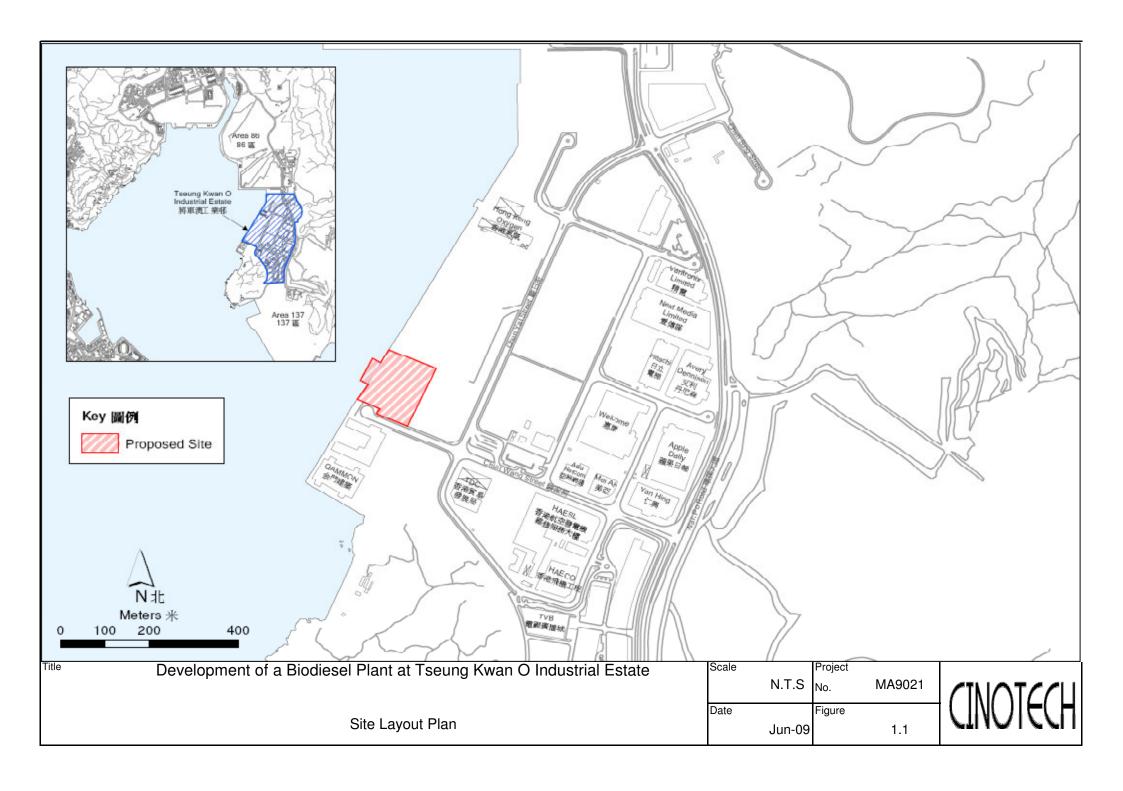
Noise Impact

- 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



APPENDIX A SITE AUDIT SUMMARY

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Monthly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	000223
Date	23 February 2010 (Tuesday)
Time	15:00 – 16:00

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

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	No environmental deficiency was identified during site inspection.	
	B. Air Quality	
	No environmental deficiency was identified during site inspection	
	C. Noise	A.A. Militaria de Santos
	No environmental deficiency was identified during site inspection.	
	D. Waste / Chemical Management	
	Reminder	F2'
000223-R01	Provide proper label and temporary storage for chemical container.	E2i.
	E. Permit / Licenses	
	No environmental deficiency was identified during site inspection.	Adapta de la constanta de la c
	F. Reminders	
	No environmental deficiency was identified during site inspection.	
	G. Others	
	• Follow-up on previous audit section (Ref. No.:000126), all environmental	
	deficiencies were improved/rectified by contractor.	

	Name	Signature	Date
Recorded by	Cara Heung	m	25 February 2010
Checked by	Dr. HF Chan	M	25 February 2010

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APPENDIX B UPDATED ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

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

Types of Impacts	Mitigation Measures	Status
	• 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;	٨
	• Effective dust screens, sheeting or netting will be provided to enclose the scaffolding from the ground level of the facility during the building construction;	N/A
	 All debris and materials will be covered or stored in a sheltered debris collection area; 	^
Construction	 Hoarding from ground level will be provided along the entire length of the site boundary except for a site entrance or exit; 	^
Dust	• 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. 	٨
	Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction program;	٨
	• 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; 	٨
Construction	 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; 	^
Noise	• 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. 	٨

Types of Impacts	Mitigation Measures	Status
	 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. Construction Site Run-off and Drainage 	N/A
Water Quality	• 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.	۸
	 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. 	^ ^
	 General Construction Activities 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
	Sewage generated from On-site Workforce	
	 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. 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. 	N/A
Ecology	 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. 	^

Remarks: ^ Compliance of mitigation measure;

N/A Not Applicable at this stage;

- X Non-compliance of mitigation measure;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 C WASTE GENERATION IN THE REPORTING MONTH

	Actu	al Quantities of Inc	ert C&D Materia	ls Generated / Impo	Actual Quantities of Other C&D Materials / Wastes Generated						
Month	Total Quantities Generated [a+b+c+d]	Broken Concrete (including rock for recycling into aggregates) (a)	Reused in the Contract	Reused in Other Projects (c)	Disposed as Public Fill (d)	Imported C&D Material	Metal (in '000 kg)	Paper/ cardboard packaging (in '000kg)	Plastics (bottles/containers, plastic sheets/ foams from package material) (in '000kg)	Chemical Waste (in '000kg)	Others (e.g. General Refuse etc.) (in '000m3)
January	1.3	0	0	0	1.3	0	0	0.05	0.01	0	0.02
February	0	0	0	0	0	0	0	0.05	0.01	0	0.02
March											
April											
May											
June											
Half-year Total											
July											
August											
September											
October											
November											
December											
Yearly Total											

APPENDIX D COMPLAINT LOG

APPENDIX D - COMPLAINT LOG

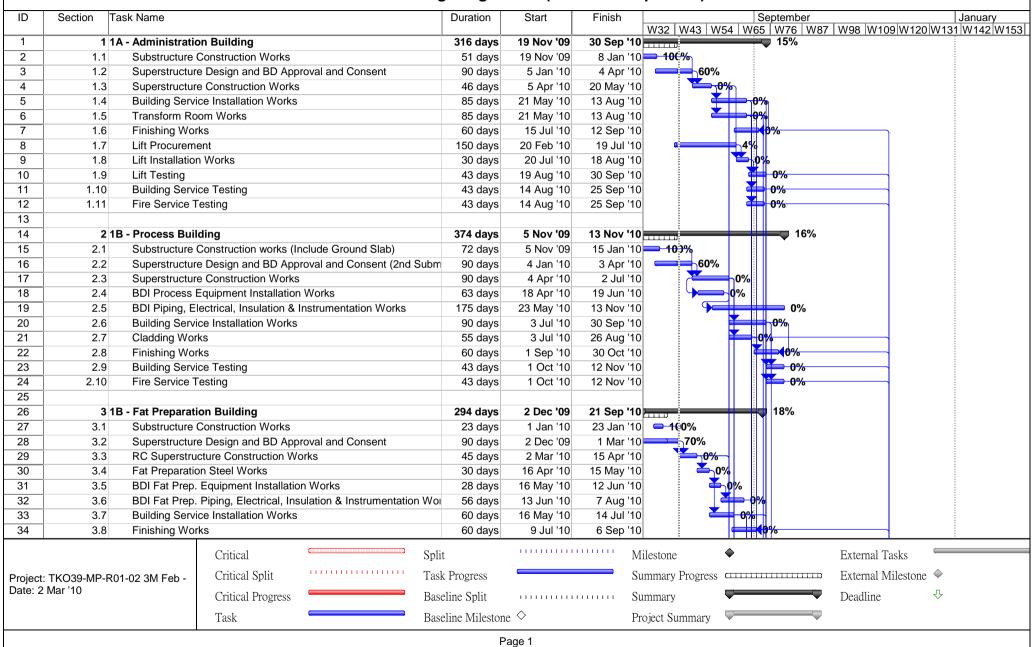
Reporting Month: February 2010

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

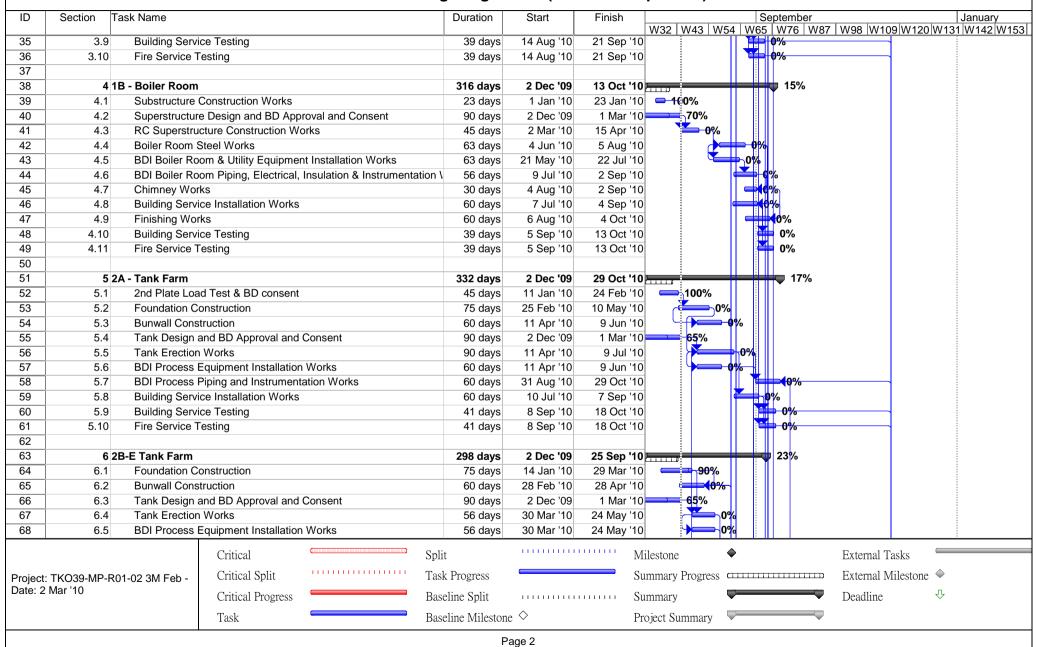
Remarks: No environmental complaint was received in the reporting month.

APPENDIX E CONSTRUCTION PROGRAMME











ID	Section	Task Name			Duration	Start	Finish		1	S	Septer	mber	[January
69	6.6	RDI Process	Piping and Instrument	tation Works	62 days	25 May '10	25 Jul '1	W32 \	N43 W5	54 W65	5 W7	76 W87 W	98 W109	W120 W1	31 W142 W15
70	6.7		ice Installation Works		62 days	25 May 10	25 Jul '1		₹	0% 0%					
71	6.8	Building Serv			43 days	14 Aug '10	25 Sep '1			TT 👯	0%				
72	6.9	Fire Service 1	•		43 days	14 Aug 10	25 Sep 1				0%				
73	0.9	File Service i	esting		45 days	14 Aug 10	25 Sep 1				0 /8				
74	7	3 - Waste Water 1	reatment Plant		286 days	1 Feb '10	13 Nov '1	0				4%			
75	7.1	Foundation D	esign, BD Approval a	nd Consent	90 days	1 Feb '10	1 May '1		279	/					
76	7.2				30 days	2 May '10	31 May '1		<u> </u>)%					
77	7.3		e Design and BD App	proval and Consent	90 days	3 Mar '10	1 Jun '1			9%					
78	7.4		e Construction includi		76 days	1 Jun '10	15 Aug '1	0	*	09					
79	7.5		uipment Installation V		90 days	17 Jul '10	14 Oct '1				09	/ 0			
80	7.6	Process Equi	pment Installation Wo	orks.	90 days	17 Jul '10	14 Oct '1	0			09	/ 6			
81	7.7	Building Serv	ice Installation Works		45 days	16 Aug '10	29 Sep '1	0		*	0%				
82	7.8	Treatment Ins	stallation Testing		30 days	15 Oct '10	13 Nov '1	0				0%		-	
83	7.9	Building Serv	ice Testing		30 days	30 Sep '10	29 Oct '1	0			*	%			
84	7.10	Fire Service 7	esting		30 days	30 Sep '10	29 Oct '1	0			*	%			
85															
86	8	4A - Jetty			690 days	10 Feb '10	31 Dec '1	1 🖫							1%
87	8.1	Piling Design	BD Approval and Co	nsent	90 days	10 Feb '10	10 May '1		20	%					
88	8.2	Pile Cap Desi	gn, BD Approval and	Consent	90 days	12 Mar '10	9 Jun '1	0		0%					
89	8.3	Superstructur	e, BD Approval and C	Consent	90 days	11 Apr '10	9 Jul '1	0	—	0%					
90	8.4	SI and Found	ing Level determination	on	90 days	12 Mar '10	9 Jun '1	0		0%					
91	8.5	Piling For FS Pump House (assumed 8 nos.)			160 days	10 Jun '10	16 Nov '1	0	e	4=======	ш.	0 %			
92	8.6	FS Pump House Pile Cap Construction			30 days	17 Nov '10	16 Dec '1	0			4	− _0%			
93	8.7		use Supersturcture W	orks	30 days	17 Dec '10	15 Jan '1	1				<u></u> —`0%			
94	8.8	FS Pipe Bridg			90 days	17 Nov '10	14 Feb '1	1			4	0%			
95	8.9	•	use piping, E&M insta	llation works	90 days	16 Jan '11	15 Apr '1						0%		
96	8.10	FS Pump Hou			30 days	16 Apr '11	15 May '1	1					- 0%		
97	8.11		For Jetty (assumed		320 days	10 Jun '10	25 Apr '1		2	1			_0%		
98	8.12		Pile Cap Construction		30 days	26 Apr '11	25 May '1	_ :					_ 0%		
99	8.13		Supersturcture Constr		30 days	26 May '11	24 Jun '1						<u>~_0</u> %		
100	8.14			Building Service Works	30 days	25 Jun '11	24 Jul '1	_ =			$\ \ $,		<u> </u>	0%	
101	8.15		For Jetty (assumed	•	320 days	17 Nov '10	2 Oct '1				(0%	
102	8.16	Stage 2 Jetty	Pile Cap Construction	n	30 days	3 Oct '11	1 Nov '1	1						<u></u>	6
			Critical		Split			Milestone		♦		E	xternal Tas	ks =	
Project:	TKU30 MD 5	R01-02 3M Feb -	Critical Split		Task Progress			Summary I	rogress	(IIIIIII			kternal Mil		
	Mar '10	(01-02 SIVI F 60 -	Critical Progress		Baseline Split			Summary	1081000				eadline	- Stone	
			Task		Baseline Mileston			Project Sur	nmorr			——————————————————————————————————————	cadinic	v	
			Task		Daseille Milleston	E ~	F	Tojeci Sur	шпагу	~		•			



ID 103	Section	Task Name		Duration	Start	Finish	September January
103							W32 W43 W54 W65 W76 W87 W98 W109 W120 W131 W142
	8.17	Stage 2Jetty Superst		30 days	2 Nov '11	1 Dec '1	1
04	8.18	Stage 2 Jetty Furnitu	re, Lighting & Building Service Work	s 30 days	2 Dec '11	31 Dec '1	1 0%
05							
06		4B - Loading and Unload	_	265 days	1 Feb '10	23 Oct '1	
07	9.1		3D Approval and Consent	90 days	1 Feb '10	1 May '1	0
80	9.2	Foundation Construc		30 days	2 May '10	31 May '1	
109	9.3		n and BD Approval and Consent	90 days	3 Mar '10	1 Jun '1	_
10	9.4	RC Structure Constru		60 days	1 Jun '10	30 Jul '1	
11	9.5	Steel Structure Cons		25 days	31 Jul '10	24 Aug '1	
12	9.6	Cladding Roof Install		30 days	25 Aug '10	23 Sep '1	
13	9.7	Process Equipment I		60 days	25 Aug '10	23 Oct '1	_ _ _ _
14	9.8	Building Service Insta	allation Works	30 days	25 Aug '10	23 Sep '1	- 1 1
15	9.9	Finish Works		60 days	20 Aug '10	18 Oct '1	_
116	9.10	Building Service Test	ting	30 days	24 Sep '10	23 Oct '1	
17	9.11	Fire Service Testing		30 days	24 Sep '10	23 Oct '1	0%
118							
19		Pipe Bridge Works		299 days	8 Feb '10	3 Dec '1	
20	10.1		BD Approval and Consent	90 days	8 Feb '10	8 May '1	
21	10.2	Foundation Construc		30 days	9 May '10	7 Jun '1	0 - 9%
22	10.3		n and BD Approval and Consent	90 days	10 Mar '10	7 Jun '1	
123	10.4	Pipe Bridge at Tank F		70 days	8 Jun '10	16 Aug '1	
124	10.5	External Bridge Cons	struction	70 days	3 Jul '10	10 Sep '1	
125	10.6	Pipe Installation		84 days	11 Sep '10	3 Dec '1	0
126							
127	11 8	External works		126 days	3 Jul '10	5 Nov '1	
128	11.1	External Drainage W		90 days	3 Jul '10	30 Sep '1	
129	11.2	External Plumbing W		90 days	3 Jul '10	30 Sep '1	
130	11.3	External Service Cab	ole Works	90 days	3 Jul '10	30 Sep '1	
131	11.4	Boundary Wall		60 days	20 Aug '10	18 Oct '1	
132	11.5	Road Works		60 days	7 Sep '10	5 Nov '1	0
133							
134		Water Supply Works		324 days	11 Dec '09	30 Oct '1	
135	12.1	Water Supply Applica	ation	0 days	11 Dec '09	11 Dec '0	D9 <mark>⊳_11/1</mark> 2



ID	Section Ta	ask Name	Duration	Start	Finish	September	January
						W32 W43 W54 W65 W76 W87 W98 W109 W	120 W131 W142 W153
136	12.2	WSD XP Application	180 days	11 Dec '09	8 Jun '10	45%	
137	12.3	WSD pipe laying works	60 days	9 Jun '10	7 Aug '10	<u> </u>	
138	12.4	WSD inspection and installation of watermeter (WWO46)	30 days	1 Oct '10	30 Oct '10	- 0 %	
139							
140	13 FS	S & OP Inspection	56 days	25 Jul '11	18 Sep '11		₩ 0%
141	13.1	FS Inspection	28 days	25 Jul '11	21 Aug '11		0%
142	13.2	OP Inspection	28 days	22 Aug '11	18 Sep '11	<u> </u>	0%

