

PROJECT NO.: TCS/00408/08

DSD CONTRACT NO. DC/2007/17 DRAINAGE IMPROVEMENT WORKS IN CHEUNG PO, MA ON KONG, YUEN KONG SAN TSUEN AND TIN SAM TSUEN OF YUEN LONG DISTRICT AND SEWERAGE AT TSENG TAU CHUNG TSUEN, TUEN MUN

3rd Quarterly EM&A Summary Report – KT14A April – June 2009

PREPARED FOR CHINA ROAD & BRIDGE CORPORATION

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1	8 July 2009	Nicola Hon	Andrew Lau	First submission
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Executive Summary

ES.01. This is the Third (3rd) Quarterly EM&A Report for Channels KT14A (Designated Project works) summarizing the key environmental monitoring results during the period from 26 March 2009 to 25 June 2009 on air quality, construction noise, water quality and waste management.

Progress of the EM&A Programme

ES.02. The impact EM&A program was undertaken in accordance with the relevant EM&A manuals. A summary of the monitoring activities in this quarter is listed below:

Environmental Issues	Channels KT14A
1-hour TSP Monitoring	42 events monitoring
24-hour TSP Monitoring	14 events monitoring
Noise Monitoring	14 monitoring events
Water Quality Monitoring	38 monitoring days
Site Inspection Audit	14 occasions

Breaches of Environmental Quality Criteria

- ES.03. In this quarter, one Action Level exceedance of construction noise due to a complaint was recorded on 26 March 2009. Investigation showed that the complaint was about the noise and vibration generated from sheet piling work. Investigation report concluded that it was due to the sheetpiling work of the project and the report is being viewed by IEC.
- ES.04. For air quality, no exceedances were recorded in both 1-hour and 24-hour TSP monitoring in this reporting quarter.
- ES.05. A total of 25 exceedances of water quality A/L Levels of which 1 was exceedance of Action Levels and 24 Limit Levels, were recorded. The overall compliance rate of water quality monitoring in the third quarter is 89.0%. Investigation showed that all exceedances were not works related. A summary of all environmental exceedances is presented as follows:

Parameter	Channels KT14A	
	No. of Exceedances	Compliance%
Suspended Solids	21	44.7%
Turbidity	4	89.5%
Dissolved Oxygen	0	100%
pН	0	100%
Ammonia	0	100%
Zinc	0	100%
Overall	25	89.0%

Environmental Complaint, Notifications of Summons and Prosecutions

ES07 A complaint about the construction noise from the sheetpiling works of the project was received on 26 March 2009. Investigation report concluded that it was due to the sheetpiling work of the project and the report is being viewed by IEC. No notification of summons and successful prosecution was received during the Reporting Period. Minor deficiencies found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.

Reporting Changes

ES08 No reporting changes were made during the Reporting Period.

Future key issues

ES09 As wet season has come, water quality mitigation measures to avoid ingress of runoff into Channel KT14A should be properly installed and maintained as stipulated in the EIA and summarized in the EM&A Manual. In addition, implemented mitigation measures such as sand bags downstream of the excavation site may also be improved to cater for additional water flows during the coming wet season.



ES11 It is noted that abnormally high frequency of exceedance of the existing water quality criteria has occurred since the commencement of the water quality monitoring at W8B of KT14A. A proposal on the revision of the A/L levels has been submitted for agreement of the ER and IEC prior to seek formal approval from EPD. Percentile approach as recommended in the EM&A Manual is applied to the baseline monitoring data with replenishment of the most recent monitoring data obtained under zero construction impacts.

END OF TEXT

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1 INTRODUCTION

1.1 BASIC PROJECT BACKGROUND

CRBC has been awarded the DSD Contract No. DC/2007/17 (hereinafter "the Project'). The works to be executed under the Project are located in Kam Tin, Pat Heung and Tuen Mun, New Territories. The location plan of the Project is shown in *Appendix A*.

The Project involves construction of five drainage channels, namely Channels KT12, KT13 (under Environmental Permit No. EP231/2005A), KT14B and KT14C in Kam Tin and Pat Heung and the sewerage works at Tseng Tau Chung Tsuen in Tuen Mun. As the environmental monitoring requirements for the two Environmental Permits and those not under a permit are different, the EM&A report under the Project is split to the following three stand-alone parts:

- 1. EM&A Report Channel KT13 (under EP No.EP263/2007);
- 2. EM&A Report Channel KT14A (under EP No. EP231/2005A); and
- 3. EM&A Report Channels KT12, KT14B and KT14C (Non-Designated Project works with no Environmental Permit)

This report presents the EM&A results of the Designated Projects works for Channels KT14A. It is the Third Quarterly EM&A Summary Report covering a three month period from 26 March 2009 to 25 June 2009 (the Reporting Period).

1.2 REPORT STRUCTURE

This Report is structured as follows:

- Section 1 Introduction
- Section 2 Summary of Impact Environmental Monitoring and Audit Requirements
- Section 3 Monitoring Results and Breaches of Environmental Quality Criteria
- Section 4 Non-compliance, Complaints, Notifications of Summons and Successful Prosecutions
- Section 5 Conclusion
- 1.3 PROJECT ORGANISATION AND CONSTRUCTION PROGRESS
- 1.3.1 Environmental Management Organization

The environmental management team comprises: DSD (Project Proponent), CRBC (main Contractor), EPD and AFCD (supervisory departments in Government), BVHKL (ER); ARUP (IEC) and AUES (ET). Detailed management organization including organisation structure and key personnel contacts is presented in *Appendix B.*

1.3.2 WORKS UNDERTAKEN DURING THE QUARTER REPORTING PERIOD

Construction activities implemented during the Reporting Period are presented in *Appendix C*. In addition to the preparation works and site clearance, including underground utility investigation, tree survey, tree pruning and tree transplant, major construction activities are summarized as follows:

26 March 2009 – 25 April 2009

- Excavation of channel formation;
- Construction of rectangular channel structure;
- Construction of manholes and catchpits; and
- Installation of type 2 railing

26 April to 25 May 2009

- Excavation of channel formation;
- Construction of rectangular channel structure;
- Construction of manholes and catchpits; and
- Installation of type 2 railing

26 May to 25 June 2009

- Construction of manholes and catchpits;
- Gabion blocks laying; and
- Installation of type 2 railing

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1.3.3 Environmental Licensing Status

The environmental licensing status in the quarter reporting period is summarized in *Table 1*.

Table 1	Status of Environmental Licenses and Permits	
Item	License / Permit Description	Status
1	Air Pollution Control (Construction Dust)	Notified EPD on 14-Feb-08
2	Water Pollution Control (Discharge License) License No. 1U461/1	Valid
3	Chemical Waste Producer Registration WPN: 5611-531-C3124-28	Registration on 2-May-08
4	Construction Waste Disposal Billing Account Number 7006524	Valid on 9 Jan 2008

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2 SUMMARY OF IMPACT ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 MONITORING PARAMETERS

The ET has compiled the EM&A requirements set out in the associated EM&A Manuals in the *Environmental Monitoring Methodology*, which has been agreed by the ER and IEC. The monitoring parameters are summarized below.

	Table 2-1	Summary	of Monitoring	Parameters
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Environmental Aspect	nvironmental Aspect Monitoring Parameters	
Air Quality	 (a) 1-hour Total Suspended Particulate (hereinafter '1-Hr TSP'); and (b) 24-hour Total Suspended Particulate (hereinafter '24-Hr TSP'). 	
Construction Noise	 (a) A-weighted equivalent continuous sound pressure level (30min) (hereinafter 'Leq(30min)' during the normal working hours; and (b) A-weighted equivalent continuous sound pressure level (5min) (hereinafter 'Leq(5min)' for construction work during the restricted hours. 	
Water Quality	(a) In Situ t Measurement (b) Laboratory S	temperature, Dissolved Oxygen (hereinafter 'DO'), pH & Turbidity Suspended Solids (hereinafter 'SS'), Ammonia Nitrogen (hereinafter 'NH ₃ -N') and Zinc (hereinafter 'Zn')

2.2 MONITORING LOCATIONS

Monitoring locations are summarized in Table 2-2 and shown in Appendix A.

Table 2-2 Summary of Monitoring Location	ions
--	------

Env. Aspect	Monitoring Location ID	Identified Address / Co-ordinates
Air	A8(a)	Entrance of Strong Sing Garden
Noise	N8	Ground floor of Strong Sing Garden H502
Water	W8A	E825274 / N831712
	W8B	E825143 / N831786

2.3 MONITORING FREQUENCY

The impact monitoring frequency and duration for air quality, construction noise, water quality, ecology and other parameters are summarized below.

2.3.1 Air Quality

<u>Frequency</u>: Once every 6 days for 24-hour TSP and three times every 6 days for 1-hour TSP, when the highest construction dust impacts are anticipated.

Duration: Throughout the construction period

2.3.2 Construction Noise

<u>Frequency:</u> Measurement of Leq 30min: Once a week during 0700-1900 on normal weekdays for Leq30min

If the construction work is undertake at restrict hour, the frequency of noise monitoring will be conducted in accordance with the requirements under the related Construction Noise Permit issued by EPD as follows:

- 3 consecutive Leq5min at restrict hour from 1700 2300;
- 3 consecutive Leq5min for restrict hour from 2300 0700 next day;
- 3 consecutive Leq5min for Sunday or public holiday from 0700 1900;

Duration: Throughout the construction period

2.3.3 Water Quality

- *Frequency:* Three times a week with at least 36 hour intervals between any two consecutive monitoring events
- **Depths:** As the water columns in the stream water within KT14A is generally less than 3 m, measurement is performed at the mid-depths of the monitoring locations. In case the water columns are deeper than 6 m, measurement shall be carried out at three water



depths, namely, 1 m below water surface, mid-depth, and 1 m above river bed. If the water depths are between 3 to 6 m, the mid-depth measurement is omitted.

Duration: Throughout the construction period.

2.4 ENVIRONMENTAL QUALITY CRITERIA

The Environmental Quality Criteria i.e. Action and Limit levels (herein after 'A/L levels') are summarized as follows:

Table 2-4-1	Summarv	of Air Quality	v Monitorina	Results at KT14A-A8(a)
			,	

Monitoring Location ID	Action Lev	vel (µg /m³)	Limit Level (µg/m³)		
Monitoring Edeation ID	1-hr TSP	24-hr TSP	1-hr TSP	24-hr TSP	
KT14A - A8(a)	310	144	500	260	

Table 2-4-2 Action and Limit Levels of Construction Noise Monitoring

Time Period	Action Level in dB(A)			Limit Level in dB(A)
0700-1900 hrs on normal weekdays	When complain	one It is receiv	documented	75* dB(A)

Note: * Reduces to 70dB(A) for schools and 65dB(A) during the school examination periods.

Table 2-4-3Water Quality Action and Limit Levels

Parameter	Monitoring Location	Type of Station	Action Level	Limit Level
DO	W8A	Control	NA	NA
(mg/L)	W8B	Impact	6.378	4.00
Turbidity	W8A	Control	NA	NA
(NTU)	W8B	Impact	120% of the results of upstream control station's of the same day	130% of the results of upstream control station's of the same day
nH	W8A	Control	NA	NA
рН	W8B	Impact	9.2 (95%-ile of baseline results)	9.3 (99%-ile of baseline results)
SS	W8A	Control	NA	NA
(mg/L)	W8B	Impact	120% of the results of upstream control station's of the same day	130% of the results of upstream control station's of the same day
Ammonia	W8A	Control	NA	NA
(µg/L)	W8B	Impact	120% of the results of upstream control station's of the same day	130% of the results of upstream control station's of the same day
Zinc	W8A	Control	NA	NA
(µg/L)	W8B	Impact	120% of the results of upstream control station's of the same day	130% of the results of upstream control station's of the same day

2.5 Environmental Mitigation Measures

CRBC has committed to implement environmental protection and pollution control and mitigation measures as recommended in the PP, EP and the EM&A Manual. Continuous up-dating of the Mitigation Measures Implementation Schedules attached in the EM&A Manual is required under the PS. The updated Environmental Mitigation Measures Schedule is enclosed in *Appendix D*. The implemented mitigation measures include:

- (a) Watering of exposed dry and dusty surface, including stock piles of dusty materials;
- (b) Covering of the loose soil to minimize water quality impacts;
- (c) Hard pavement of haul road leading to public roads;
- (d) Wheel washing facility at to avoid construction dust impacts on the public roads; and
- (e) Construction of noise barriers.
- (f) During construction works nearly the seasonal wetland, mitigation measures of Ecology will be followed in accordance with EM&A Manual Annex A ECO.1 and ECO.3;

3 MONITORING RESULTS AND BREACHES OF ENVIRONMENTAL QUALITY CRITERIA

The environmental monitoring results will be compared against the Action and Limit Levels established based on the baseline monitoring results and statutory criteria. In case the measured data exceed the environmental quality criteria, remedial actions will be triggered according to the Event and Action Plan. In the report quarter, the graphical plots of the treads pf monitored parameter over the past four months are presented in *Appendix E*.

3.1 AIR QUALITY

In this quarter reporting period, there were total of 42 sampling events for 1-hour TSP and 14 sampling events for 24-hour TSP at the designated location KT14A-A8(a). The summary of Air Quality of 1-hour and 24-hour TSP in this quarterly report are presented in *Table 3-1-1 and 3-1-2*.

Table 2.1.1 Summariae of Air (Ouglity of 1 hour and 24 hour	TSP in the Quarter Reporting period
Table 3-1-1 Summaries of All V	Quality of 1-11001 and 24-11001	

Channel	Station	1-hour TSP				24-hour TSP	
Charmer	Station	Max	Min	Mean	Max	Min	Mean
KT14A	A8(a)	110	34	79	88	11	33
Recorded i	n the date	31 Mar 09	23 May 09	42 events	15 Apr 09	6 Apr 09	14 events

Table 3-1-2 Summaries of Breaches of Air Quality A/L Levels

Location	Exceedance	1-hour TSP	24-hour TSP	Total
A8(a)	Action Level	0	0	0
Ao(a)	Limit Level	0	0	0

As shown in **Table 3-1-1 and 3-1-2** and **Appendix E**, the 1-hour TSP and 24-hour TSP of the Reporting Period fluctuated below the Action levels of 310 and 144 respectively. Neither NOE of air quality nor corrective action was therefore required.

3.2 CONSTRUCTION NOISE

Monitoring results are presented in graphic plots in *Appendix E*. Breaches of construction noise A/L levels during the Reporting Period are summarized in *Table 3-2*.

Channel	Station	Leq30min		Action Level in dB(A)	Limit Level in dB(A)
		Мах	Min	When one	
KT14	N8	69.6	47.9	documented	75* dB(A)
Recorded	I in the date	18 May 09	17 Jun 09	complaint is received	70 ab(ri)

 Table 3-2
 Summaries of Breaches of Construction Noise A/L Levels

As shown in **Tables 3-2** and **Appendix E**, all the construction noise results fluctuated below the Limit level. One Action Level exceedance in construction noise due to a complaint was received on 26 March 2009 and a Notice of Exceedance of environmental quality criteria (NOE) was issued accordingly. It was reported that during the exceedance day, sheet piling was carried out to provide lateral support to an excavated trench. Investigation found that high levels of noise and vibration were generated when the sheet piles struck some unexpected hard materials during the incident. The frontline staff had been reminded to stop attempting further sheet piling when excessive levels of noise and vibration were experienced. The sheet piling work was completed on 31 March 2009 and no further complaint related to the work was received. The monitoring result on 31 March 2009 is 55.5dB which well below the Limit level, it demonstrated that the noise compliance of sheet-piling work after complaints was noticed. In order to avoid similar complaints in the future, the contractor is advised to improve and review the methodology and to enhance the noise mitigation awareness of the frontline staff.



3.3 WATER QUALITY

Monitoring results are presented in graphic plots in *Appendix E*. Breaches of water quality A/L levels during the Reporting Period are summarized in *Table 3-3-1 and 3-3-2*, taken into account that W8A is set as the up-stream control station for W8B.

location	Exceedance	DO	Turbidity	рН	SS	NH4+-N	Zn	Total
W8B	Action Level	0	0	0	0	0	0	0
(April 2009)	Limit Level	0	4	0	10	0	0	14
W8B	Action Level	0	0	0	0	0	0	0
(May 2009)	Limit Level	0	0	0	4	0	0	4
W8B	Action Level	0	0	0	1	0	0	1
(June 2009)	Limit Level	0	0	0	6	0	0	6
Total	Action Level	0	0	0	1	0	0	1
TOTAL	Limit Level	0	4	0	20	0	0	24

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Table 3-3-1	Summaries of Water Qualit	y monitoring in the Quarter	Reporting period

Parameter	Ch	annels KT14A
	No. of Exceedances	Compliance%
Suspended Solids	21	44.7%
Turbidity	4	89.5%
Dissolved Oxygen	0	100%
рН	0	100%
Ammonia	0	100%
Zinc	0	100%
Overall	25	89.0%

As shown in **Tables 3-3-1** and **Appendix E**, a total of 25 exceedances of water quality A/L levels, namely 1 exceedance of Action levels and 24 exceedances of Limit levels, were recorded during the Reporting Period. Summary of breaches of the existing water quality A/L at W8B is shown in **Table 3-3-2**.

The NOE and the associated investigation report have been issued upon confirmation of the results and construction information. Investigation concluded that all of the exceedances are not related to the works under the Project. No corrective actions were recommended.

It is noted that abnormally high frequency of exceedance of the existing water quality criteria has occurred since the commencement of the water quality monitoring at W8B of KT14A. Particular attention has been paid to the water quality exceedances during 26 August to 2 October 2008, when no construction activities were commenced. This implies that the exceedances are not related to the works under the Project but due to changes of the ambient conditions and up-stream control station.

A proposal on the revision of the A/L levels has been submitted for agreement of the ER and IEC prior to seek formal approval from EPD. Percentile approach as recommended in the EM&A Manual is applied to the baseline monitoring data with replenishment of the most recent monitoring data obtained under zero construction impacts. The recommended A/L levels are summarized in *Table 3-3-3*.

Parameter	Monitoring Location	Type of Station	Action Level	Limit Level
DO*	W8A	Impact Monitoring Station	2.22	1.80
(mg/L)	W8B	Impact Monitoring Station	4.06	4.04
Turbidity (NTU)	W8A	Impact Monitoring Station	36.5	39.6
Turbluity (NTO)	W8B	Impact Monitoring Station	18.6	52.0
pH+	W8A	Impact Monitoring Station	6.5 – 8.5	6.0 - 9.0
pri+	W8B	Impact Monitoring Station	6.5 – 8.5	6.0 - 9.0
SS	W8A	Impact Monitoring Station	70	95
(mg/L)	W8B	Impact Monitoring Station	29	39
Ammonia	W8A	Impact Monitoring Station	40.8	43.7
(mg/L)	W8B	Impact Monitoring Station	3.46	4.44
Zinc	W8A	Impact Monitoring Station	136	166
(µg/L)	W8B	Impact Monitoring Station	54	63

Table 3-3-3 Recommended Water Quality Action and Limit Levels for KT14A

A/L levels of DO are respectively set at 5%-ile and 1%-ile of baseline level

+ A/L levels of pH are respectively set at out side the ranges of 6.5 - 8.5 and 6 – 9 as generally used for environmental water quality standards.

Zn obtained at W8A on 18 March (458 ug/L) and 2 September 2008 (228 ug/L), as well as Turbidity, SS and Zn obtained at W8B on 2 September 2008 (161.5 NTU, 473 mg/L and 492 ug/L respectively) and SS and Zn obtained at W8B on 24 September 2008 (492 mg/L and 107 ug/L respectively) are considered as outliers and excluded from A/L level calculation

3.4 SUMMARIES WEATHER CONDITIONS DURING THE QUARTER REPORTING PERIOD

April 2009

April 2009 was drier and cooler than usual. The mean temperature was 22.0 degrees, 0.5 degrees below the normal figure of 22.5 degrees. The total rainfall in the month was 108.7 millimetres, about 42 percent below the normal figure of 188.5 millimetres. The accumulated rainfall since 1 January was 230.5 millimetres, about 32 percent below the normal figure of 337.1 millimetres for the same period.

<u>May 2009</u>

May 2009 was drier and sunnier than usual. The total rainfall of 245.2 millimetres in the month, which was mainly recorded in the last 10 days, was about 26 percent below the normal figure of 329.5 millimetres. The accumulated rainfall since 1 January was 475.7 millimetres, about 29 percent below the normal figure of 666.6 millimetres for the same period. The total bright sunshine duration was 169.8 hours, about 23 percent above normal. The mean temperature was 25.5 degrees, 0.3 degrees below the normal figure of 25.8 degrees.

June 2009

June 2009 was drier than usual. The total rainfall of 341.8 millimetres in the month was about 12 percent below the normal figure of 388.1 millimetres. The accumulated rainfall since 1 January was 817.5 millimetres, about 22 percent below the normal figure of 1054.7 millimetres for the same period. The mean temperature was 28.1 degrees, 0.2 degrees above the normal figure of 27.9 degrees.

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NON-COMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS 4

4.1 NON-COMPLIANCE

> Apart from the exceedances of water quality A/L levels summarized in section 3 above and 1 action level exceedance of construction noise due to complaint was received on 26 March 2009, no non-compliance or deficiency was identified during regular site inspection and environmental audit. No associated remedial actions were recommended. No other non-compliance or deficiency was identified during regular site inspection and environmental audit. No associated remedial actions were recommended.

ENVIRONMENTAL COMPLAINTS 4.2

> One construction noise complaint was recorded on 26 March 2009 at designated station N8. NOE were issued upon verbal notice about the noise complaint by CRBC on 28 March 2009. According to the site information provided by the contractor, investigation report was conducted and concluded that the complaint was due to the noise and vibration generated from sheetpiling work when the pile struck some unexpected hard materials. To mitigation the noise exceedance, the contractor has immediately reminded the frontline staff to stop attempting further sheet piling when excessive levels of noise and vibration were experienced. The sheetpiling work was completed on 31 March 2009 and no further complaint was received. The investigation is being reviewed by IEC for IEC's comment and case closure.

4.3 NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

> No notifications of summons and successful prosecutions were recorded during the Reporting Period. No associated remedial actions were recommended.

OTHERS 4.4

4.4.1 Waste Management Status

Table 4-3

All types of waste arising from the construction work are classified into the following:

- Construction & Demolition (C&D) Material; .
- Chemical Waste: •
- General Refuse; and
- Excavated Soil and sediment

Waste generated, re-used, recycled and disposed of during the Reporting Period is shown in Appendix F: Monthly Summary Waste Flow Table.

4.4.2 Site Inspection and Environmental Audit

A total of fourteen (14) occasions of weekly environmental site inspection and audit were conducted jointly by the ER, EO and ET during the Reporting Period. Minor deficiencies found during the site inspection and audit were in general rectified within the specified deadlines. Findings of the site inspection and environmental audit are summarized in Table 4-3.

Date	Findings / Deficiencies	Follow-Up Status
26 March 2009	No adverse environmental impacts were observed during the site inspection	Recommendations observation on 17 M

Summary of Findings of Site Inspection and Environmental Audit

26 March 2009	No adverse environmental impacts were observed during the site inspection	Recommendations based on the observation on 17 March 2009 were followed.
31 March 2009	Construction waste was observed scattered within the site. Good site practice to avoid excessive accumulation of the waste is recommended.	Recommendations based on the observation on 26 March 2009 were followed.
8 April 2009	No adverse environmental impacts were observed during the site inspection	Recommendations based on the observation on 31 March 2009 were followed.
16 April 2009	No adverse environmental impacts were observed during the site inspection	Recommendations based on the observation on 8 April 2009 were followed.
23 April 2009	Exposed stockpiles shall be covered with tarpaulin sheets or similar materials and remove asap, especially during wet season, to avoid excessive	Recommendations based on the observation on 16 April 2009 were followed.

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	surface run and potential water pollution.	
28 April 2009	No adverse environmental impacts were observed during the site inspection	Recommendations based on the observation on 23 April 2009 were followed.
6 May 2009	Construction materials were found exposed in the air at Channel. The contractor shall cover the materials properly	Recommendations based on the observation on 28 April 2009 were followed.
12 May 2009	The contractor was reminded to keep a good site tidiness practice with regularly disposal of waste	Recommendations based on the observation on 6 May 2009 were followed.
20 May 2009	No adverse environmental impacts were observed during the site inspection	Recommendations based on the observation on 12 May 2009 were followed.
26 May 2009	Timber was found inside the channel of KT14A, the Contractor is reminded to check and clean the waste more frequently to prevent blockage of the channel.	Recommendations based on the observation on 26 May 2009 were followed.
2 June 2009	No adverse environmental impacts were observed during the site inspection	N/A
10 June 2009	Water accumulated within the drip tray and eye-holes of concrete blocks shall be drained or filled with soil.	Recommendations based on the observation on 10 June 2009 were followed.
16 June 2009	Watering at haul road is recommended for the dust suppression when the vehicle in motion.	Recommendations based on the observation on 16 June 2009 were followed.
25 June 2009	No adverse environmental impacts were observed during the site inspection	N/A



5 CONCLUSIONS

This is the Third (3rd) Quarterly EM&A Report for Designated Project works during the period from 26 March 2009 to 25 June 2009 summarising the environmental impact monitoring and audit results on air quality, construction noise, water quality and waste management.

Monitoring results demonstrated that no exceedance of environmental quality criteria of air quality during the Reporting Period.

There was one Action Level exceedance in construction noise due to a complaint logged on 26 March 2009. Investigation concluded that the complaint was caused by sheet piling work of the project. The contractor has been advised to review the methodology of the sheetpiling and to enhance the noise mitigation awareness of the frontline staff. The investigation report is being review by IEC and RE.

A total of 25 exceedances of water quality A/L Levels of which 1 was exceedance of Action Levels and 24 Limit Levels, were recorded. The overall compliance rate of water quality monitoring in the third quarter is 89.0%. Investigation showed that all exceedances were not works related. No corrective actions were recommended.

One construction noise complaint was received on 26 March 2009, investigation report has been completed and being reviewed by IEC and RE for case closure. No notification of summons and successful prosecution was received during the Reporting Period

No adverse environmental impacts were observed during the weekly site inspection and environmental audit which indicated that the implemented mitigation measures for air quality, construction noise, water quality and ecology were effective. Minor deficiencies were found in the weekly site inspection and audit which were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.

As wet season has come, water quality mitigation measures to avoid ingress of runoff into Channel KT14A should be properly installed and maintained, as appropriate. In particularly, open stockpiles and exposed slope should be covered thoroughly with tarpaulin sheet and applied with hydroseeding, as appropriate.

In addition, attention should also be paid to construction noise and other environmental issues identified in the EM&A Manual. Mitigation measures recommended in the Environmental Study Report and summarized in the Mitigation Measure Implementation Schedule should be fully implemented.

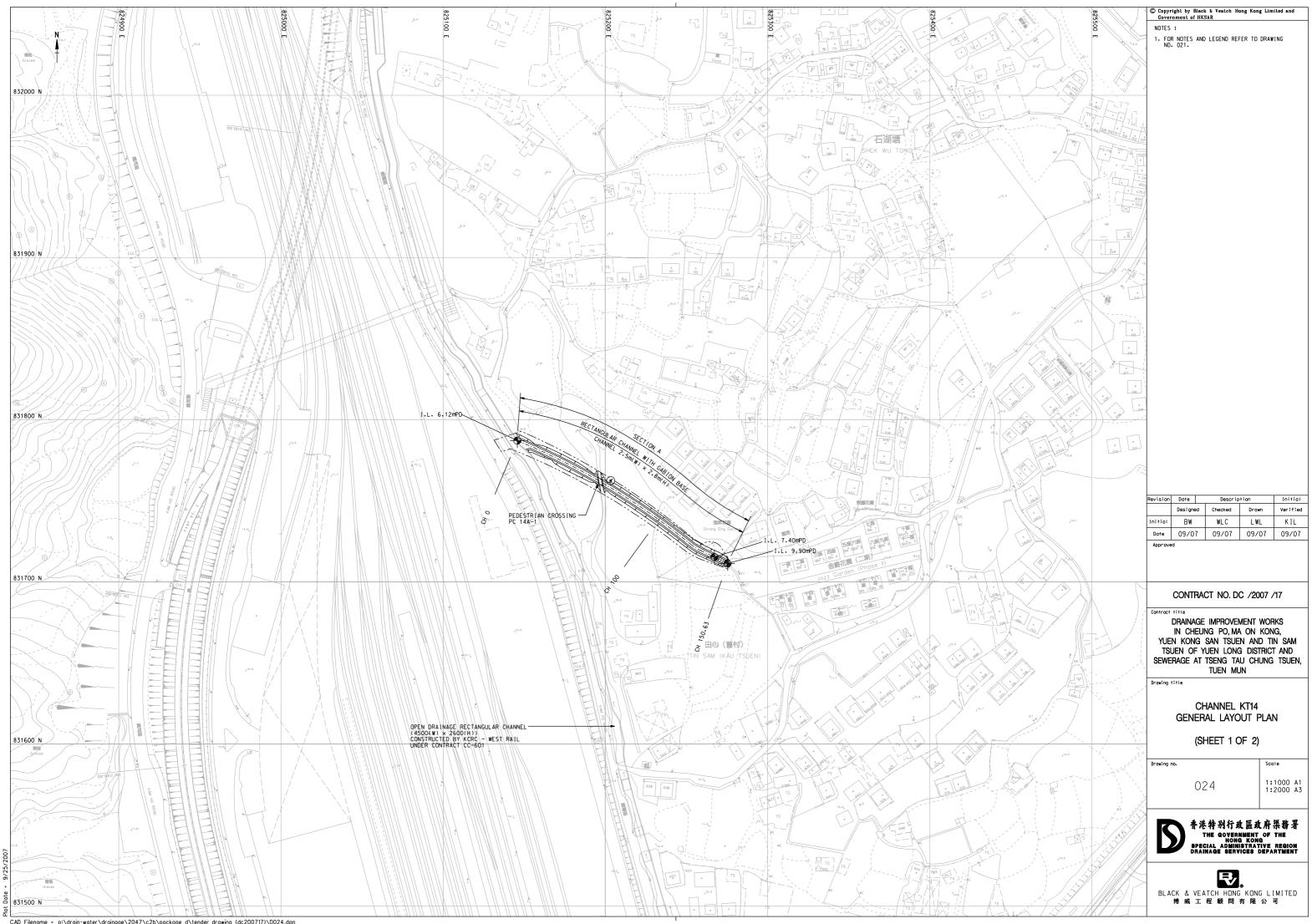
It is noted that abnormally high frequency of exceedance of the existing water quality criteria has occurred since the commencement of the water quality monitoring at W8B of KT14A. A proposal on the revision of the A/L levels has been submitted for agreement of the ER and IEC prior to seek formal approval from EPD. Percentile approach as recommended in the EM&A Manual is applied to the baseline monitoring data with replenishment of the most recent monitoring data obtained under zero construction impacts.

END OF TEXT



Appendix A

Location Plan of the Project and Environmental Monitoring Locations



CAD Filename = p:\drain-water\drainage\2047\c2b\package d\tender drawing (dc200717)\D024.dgn



Legends Construction Noise Monitoring Location Air Quality Monitoring Location Vater Quality Monitoring Location Monitoring Location access is not allow (Air or Noise or Water) for measurment

Table

1onitoring 'arameter	Location ID	Address	Remarks
Water	W8A	E825274 / N831712	
Water	W8B	E825143 / N831786	
Air	A8		Replaced by A8(a)
Air	A8(a)	Extrance of Strong Sing Garden	Recommended Location
Noise	N8	No. 205H of Strong Sing Garden	

Note:

Air Monitoring Location A8 are proposed to relocate at the extrance of Strong Sing Garden A8(a) due to request of the property management. The relocated monitoring point is considered suitable as representative sensitive receiver for Strong Sing Garden.

Contract No. DC/2007/17-Drainage Improvement Works in Cheung Po, Ma Dn Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun





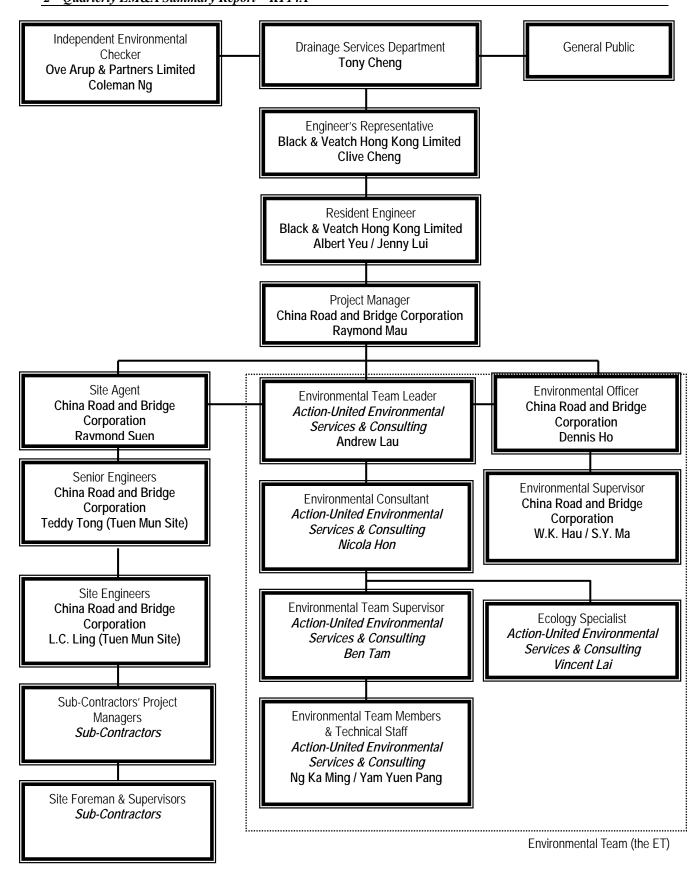
Appendix B

Environmental Management Organization and

Contacts of Key Personnel

DSD Contract No. DC/2007/17 - Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun. 2nd Quarterly EM&A Summary Report – KT14A





Environmental Management Organization

DSD Contract No. DC/2007/17 - Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun. 2^{nd} Quarterly EM&A Summary Report – KT14A



Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Employer	Mr. Tony Cheng	2594-7264	2827-8526
B&V	Engineer's Representative	Mr. Clive Cheng	2478-9161	2478-9369
B&V	Resident Engineer	Mr. Albert Yeu	2478-9161	2478-9369
B&V	Resident Engineer	Mr. Jenny Lui	2478-9161	2478-9369
OAP	Independent Environmental Checker	Mr. Coleman Ng	2268-3097	2268-3950
CRBC	Project Director	Mr. Wang Yanhua	2283-1688	2283-1689
CRBC	Project Manager	Mr. Raymond Mau	9048-3669	2283-1689
CRBC	Site Agent	Mr. Raymond Suen	9779-8871	2283-1689
CRBC	Senior Engineer (Tuen Mun Site)	Mr. Teddy Tong	6283-9684	2283-1689
CRBC	Site Engineer (Tuen Mun Site)	Mr. L.C. Ling	6770-4010	2283-1689
CRBC	Environmental Officer	Mr. Dennis Ho	6474-6975	2283-1689
CRBC	Environmental / Construction Supervisor (Tuen Mun and Yuen Long site)	Mr. W.K. Hau	6283-9696	2283-1689
CRBC	Environmental / Construction Supervisor (Yuen Long site)	Mr. S.Y. Ma	9401-6296	2283-1689
CRBC	Safety Officer	Kenny Sze	9374-8954	2283-1689
AUES	Environmental Team Leader	Mr. Andrew Lau	2959-6059	2959-6079
AUES	Environmental Consultant	Miss Nicola Hon	2959-6059	2959-6079
AUES	Environmental Site Inspector	Mr. Ben Tam	2959-6059	2959-6079
AUES	Ecologist	Mr. Vincent Lai	2959-6059	2959-6079

Legend:

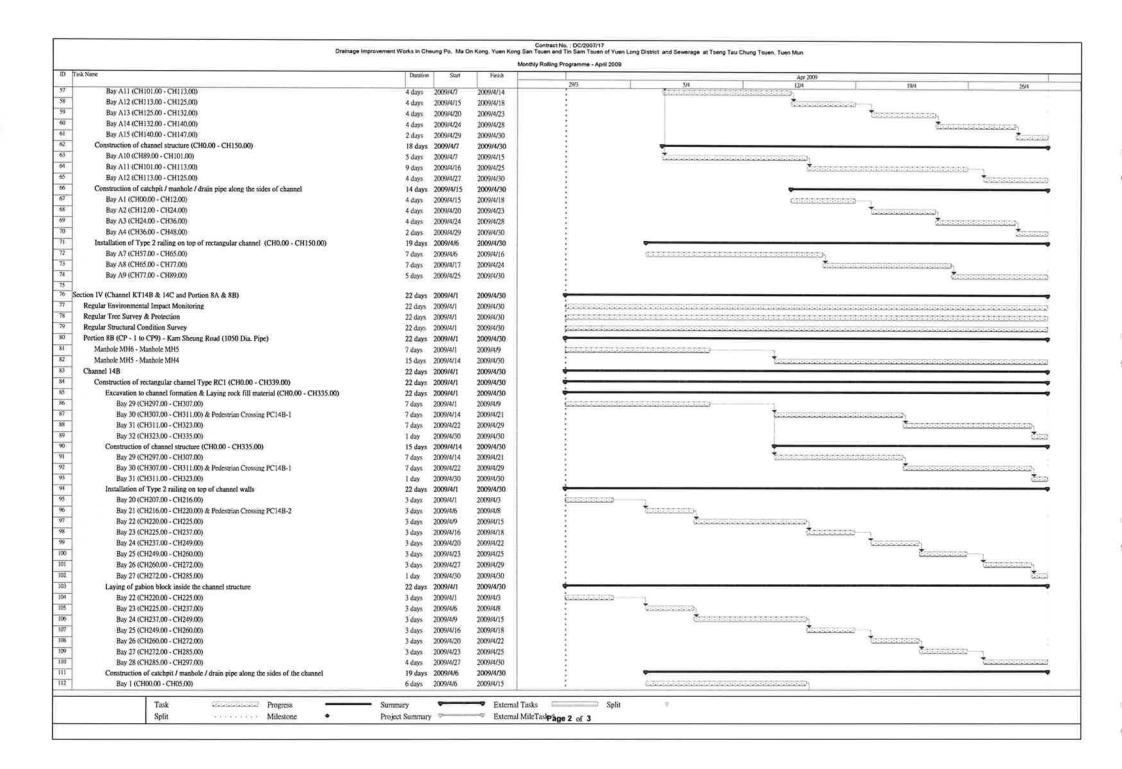
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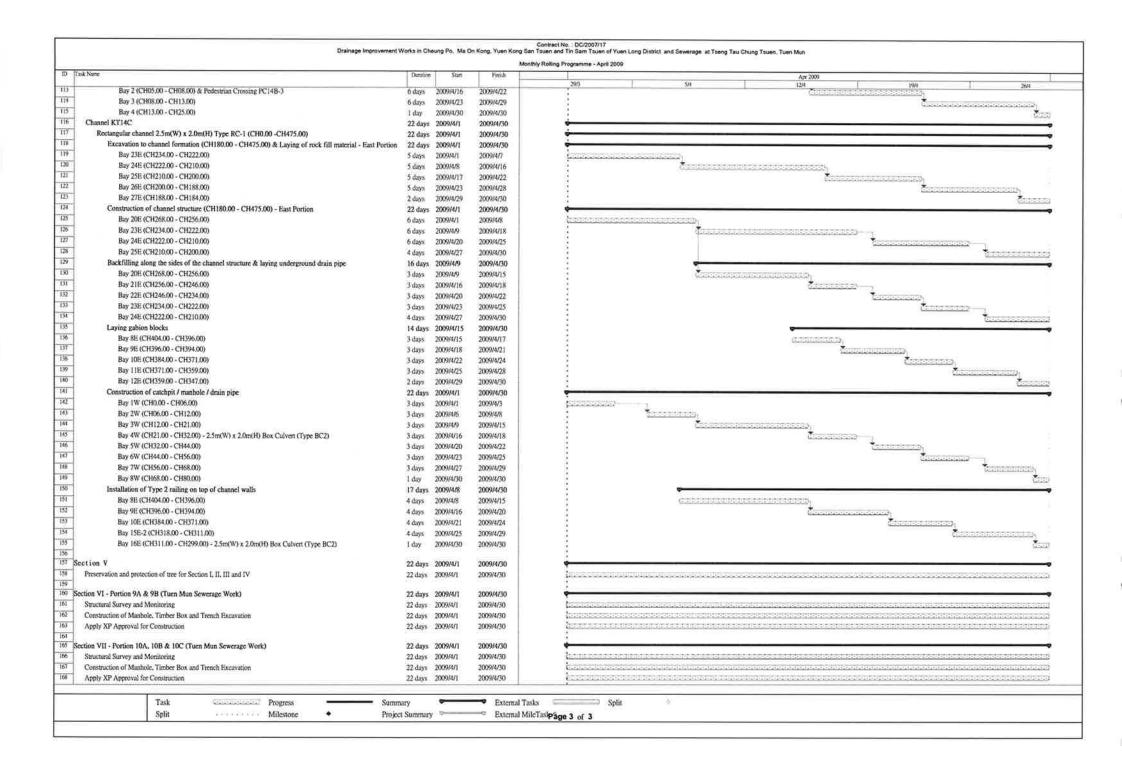
- B&V (Engineer) Black & Veatch Hong Kong Limited
- CRBC (Main Contractor) China Road and Bridge Corporation
- OAP (IEC) Ove Arup & Partners Ltd
- AUES (ET) Action-United Environmental Services & Consulting



Appendix C

Construction Program





Name ion II (Channel KT13) Regular Environmental Impact Monitoring Regular Tree Survey & Protection Regular Structural Condition Survey Section A Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00) Bay A8 (A CH51.00 - A CH59.00) - Transition Bay A9 (A CH59.00 - A CH59.00) - TG2 Bay A10 (A CH71.00 - A CH83.00) - TG2 Bay A11 (A CH83.00 - A CH95.00) - TG2 Construction of channel structure (RC2, Transition, and TG2)	Duration 26 days 26 days 26 days 26 days 26 days 26 days 4 days 4 days 4 days 4 days 2 days	2009/6/1 2009/6/1 2009/6/1 2009/6/1	Finish 2009/6/30 2009/6/30 2009/6/30 2009/6/30 2009/6/30 2009/6/18 2009/6/18		daddadad	ubuluu		usuunuunu		21/6	19991993
 Regular Environmental Impact Monitoring Regular Tree Survey & Protection Regular Structural Condition Survey Section A Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00) Bay A8 (A CH51.00 - A CH59.00) - Transition Bay A9 (A CH59.00 - A CH71.00) - TG2 Bay A10 (A CH71.00 - A CH83.00) - TG2 Bay A11 (A CH83.00 - A CH95.00) - TG2 Construction of channel structure (RC2, Transition, and TG2) 	26 days 26 days 26 days 26 days 14 days 4 days 4 days 4 days	2009/6/1 2009/6/1 2009/6/1 2009/6/15 2009/6/15 2009/6/19	2009/6/30 2009/6/30 2009/6/30 2009/6/30 2009/6/18 2009/6/18		daddadad		andunta				
Regular Tree Survey & Protection Regular Structural Condition Survey Section A Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00) Bay A8 (A CH51.00 - A CH59.00) - Transition Bay A9 (A CH59.00 - A CH59.00) - TG2 Bay A10 (A CH71.00 - A CH83.00) - TG2 Bay A11 (A CH83.00 - A CH95.00) - TG2 Construction of channel structure (RC2, Transition, and TG2)	26 days 26 days 26 days 14 days 4 days 4 days 4 days	2009/6/1 2009/6/1 2009/6/1 2009/6/15 2009/6/15 2009/6/19	2009/6/30 2009/6/30 2009/6/30 2009/6/18 2009/6/18		daddadad	ubuluu	andunta	usuunuunu			19991993
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 Section A Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00) Bay A8 (A CH51.00 - A CH59.00) - Transition Bay A9 (A CH59.00 - A CH71.00) - TG2 Bay A10 (A CH71.00 - A CH83.00) - TG2 Bay A11 (A CH83.00 - A CH95.00) - TG2 Construction of channel structure (RC2, Transition, and TG2) 	26 days 14 days 4 days 4 days 4 days	2009/6/1 2009/6/15 2009/6/15 2009/6/19	2009/6/30 2009/6/30 2009/6/18 2009/6/23	ç	200330005						
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Bay A9 (A CH59.00 - A CH71.00) - TG2 Bay A10 (A CH71.00 - A CH83.00) - TG2 Bay A11 (A CH83.00 - A CH95.00) - TG2 Construction of channel structure (RC2, Transition, and TG2)	4 days 4 days	2009/6/19	2009/6/23								
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		2009/6/29	2009/6/30								100000
	26 days	2009/6/1	2009/6/30		_						
Bay A3 (A CH18.00 - A CH26.00) - RC2	3 days	2009/6/1	2009/6/3	And							
Bay A4 (A CH26.00 - A CH34.00) - Transition	7 days	2009/6/4	2009/6/11	1			h				
Bay A5 (A CH34.00 - A CH41.00) - Transition	7 days	2009/6/12	2009/6/19			1	100000000				
Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing	7 days	2009/6/20	2009/6/27						100000		-
Bay A7 (A CH44.00 - A CH51.00) - Transition	2 days	2009/6/29	2009/6/30								tunnos
Section B	26 days	2009/6/1	2009/6/30	-			_		_		
Excavation for channel formation & laying of rock fill material (B CH0.00 - B CH316.00)	26 days	2009/6/1	2009/6/30							-	
Bay B4 (B CH24.00 - B CH34.00) - TG3	5 days	2009/6/1	2009/6/5	Gattanatatata							
Bay B3 (B CH14.00 - B CH24.00) - TG3	5 days	2009/6/6	2009/6/11	1	0.4310.043		1				
Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing	5 days	2009/6/12	2009/6/17	1 1							
Bay B14 (B CH137.00 - B CH144.00) - Transition	5 days	2009/6/18	2009/6/23	1 1				(Tr.)	a de la contrata (153	
Bay B13 (B CH129.00 - B CH137.00) - Transition	6 days	2009/6/24	2009/6/30								102210
Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)	26 days	2009/6/1	2009/6/30	-		_	-		_		
Bay B8 (B CH68.00 - B CH80.00) - TG3	7 days	2009/6/1	2009/6/8	1011-01-01-02		331					
Bay B7 (B CH57.00 - B CH68.00) - TG3	7 days	2009/6/9	2009/6/16			<u>Čiususu</u>	<u>ilianan an</u>				
Bay B6 (B CH46.00 - B CH57.00) - TG3	7 days	2009/6/17	2009/6/24					diama a		STRAID -	
Bay B5 (B CH34.00 - B CH46.00) - TG3	5 days	2009/6/25	2009/6/30	1							0000000
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B CH24.00) - TG3 5 days Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing 5 days Bay B13 (B CH129.00 - B CH137.00) - Transition 5 days Bay B13 (B CH129.00 - B CH137.00) - Transition 6 days Construction of channel structure (Transition, TG3, TG4, TG5, and TG8) 26 days Bay B7 (B CH57.00 - B CH80.00) - TG3 7 days Bay B7 (B CH57.00 - B CH80.00) - TG3 7 days Bay B5 (B CH46.00 - B CH57.00) - TG3 7 days Bay B5 (B CH46.00 - B CH57.00) - TG3 5 days Bay B5 (B CH34.00 - B CH46.00) - TG3 5 days Bay B5 (B CH34.00 - B CH46.00) - TG3 5 days	Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 7 days 2009/6/20 Bay A7 (A CH44.00 - A CH51.00) - Transition 2 days 2009/6/29 Section B 26 days 2009/6/1 Bay B4 (B CH24.00 - B CH34.00) - TG3 5 days 2009/6/1 Bay B3 (B CH14.00 - B CH34.00) - TG3 5 days 2009/6/1 Bay B1 (B CH14.00 - B CH147.00) - Transition & Pedestrian Crossing 5 days 2009/6/12 Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing 5 days 2009/6/12 Bay B13 (B CH129.00 - B CH147.00) - Transition 5 days 2009/6/18 Bay B13 (B CH129.00 - B CH137.00) - Transition 6 days 2009/6/1 Bay B13 (B CH129.00 - B CH137.00) - Transition 6 days 2009/6/1 Bay B13 (B CH168.00 - B CH30.00) - TG3 7 days 2009/6/1 Bay B7 (B CH57.00 - B CH80.00) - TG3 7 days 2009/6/1 Bay B6 (B CH46.00 - B CH57.00) - TG3 7 days 2009/6/1 Bay B5 (B CH34.00 - B CH45.00) - TG3 7 days 2009/6/1 Bay B5 (B CH46.00 - B CH45.00) - TG3 7 days 2009/6/1 Bay B5 (B CH34.00 - B CH46.00) - TG3 5 days 2009/6/1 Bay B5 (B CH34.00 - B CH46.00) - TG3	Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 7 days 2009/6/20 2009/6/27 Bay A7 (A CH44.00 - A CH51.00) - Transition 2 days 2009/6/20 2009/6/20 Section B 26 days 2009/6/1 2009/6/30 Excavation for channel formation & laying of rock fill material (B CH0.00 - B CH316.00) 26 days 2009/6/1 2009/6/30 Bay B4 (B CH24.00 - B CH34.00) - TG3 5 days 2009/6/1 2009/6/1 2009/6/1 Bay B15 (B CH144.00 - B CH24.00) - TG3 5 days 2009/6/12 2009/6/17 Bay B15 (B CH144.00 - B CH147.00) - 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B CH316.00) 26 days 2009/6/1 2009/6/30 Bay B4 (B CH24.00 - B CH34.00) - TG3 5 days 2009/6/1 2009/6/1 2009/6/1 Bay B15 (B CH14.00 - B CH24.00) - TG3 5 days 2009/6/12 2009/6/17 2009/6/12 Bay B15 (B CH14.00 - B CH147.00) - Transition & Pedestrian Crossing 5 days 2009/6/18 2009/6/12 Bay B13 (B CH129.00 - B CH147.00) - Transition 5 days 2009/6/18 2009/6/12 2009/6/10 Bay B13 (B CH129.00 - B CH147.00) - Transition 6 days 2009/6/14 2009/6/10 2009/6/14 Bay B13 (B CH129.00 - B CH187.00) - TG3 7 days 2009/6/1 2009/6/14 2009/6/14 Bay B5 (B CH66.00 - B CH57.00) - TG3 7 days 2009/6/14 2009/6/16 2009/6/16 Bay B5 (B CH34.00 - B CH46.00) - TG3 5 days 2009/6/17 2009/6/16 Bay B5 (B CH34.00 - B CH46.00) - TG3 <td< td=""><td>Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 7 days 2009/6/20 2009/6/27 Bay A7 (A CH44.00 - A CH51.00) - Transition 2 days 2009/6/29 2009/6/30 Section B 26 days 2009/6/1 2009/6/30 Excavation for channel formation & laying of rock fill material (B CH0.00 - B CH316.00) 26 days 2009/6/1 2009/6/30 Bay B4 (B CH24.00 - B CH34.00) - TG3 5 days 2009/6/1 2009/6/1 2009/6/1 Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing 5 days 2009/6/12 2009/6/17 Bay B13 (B CH129.00 - B CH137.00) - Transition Pedestrian Crossing 5 days 2009/6/12 2009/6/30 Construction of channel structure (Transition, TG3, TG4, TG5, and TG8) 26 days 2009/6/1 2009/6/30 Bay B3 (B CH68.00 - B CH80.00) - TG3 7 days 2009/6/1 2009/6/30 Bay B3 (B CH68.00 - B CH80.00) - TG3 7 days 2009/6/1 2009/6/30 Bay B5 (B CH46.00 - B CH57.00) - TG3 7 days 2009/6/1 2009/6/30 Bay B5 (B CH46.00 - B CH50.00) - TG3 7 days 2009/6/1 2009/6/30 Bay B5 (B CH46.00 - B CH46.00) - TG3 5 days 2009/6/1 2009/6/30</td><td>Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 7 days 2009/6/20 2009/6/27 Bay A7 (A CH44.00 - A CH51.00) - Transition 2 days 2009/6/29 2009/6/30 Section B 26 days 2009/6/1 2009/6/30 Bay B4 (B CH24.00 - B CH34.00) - TG3 5 days 2009/6/1 2009/6/1 Bay B3 (B CH14.00 - B CH24.00) - TG3 5 days 2009/6/1 2009/6/1 Bay B15 (B CH144.00 - B CH24.00) - 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_	Autor and a second a	Monthly R	olling Program	me - June 2009	
)	Task Name	Duration	Start	Finish	6/2009 31/5 7/6 14/6 21/6
0	Section III (Channel KT14A - Tin Sam Tsuen)	26 days	2009/6/1	2009/6/30	31/5 7/6 14/6 21/6
31	Regular Environmental Impact Monitoring	26 days	2009/6/1	2009/6/30	
32	Regular Tree Survey	26 days	2009/6/1	2009/6/30	
33	Regular Structural Condition Survey	26 days	2009/6/1	2009/6/30	
34	Construction of rectangular channel 2.5m(W) x 2.8m(H) Type RC1 (CH0.00 - CH150.00) 26 days	2009/6/1	2009/6/30	
35	Backfilling along the sides of the channel structure	3 days	2009/6/1	2009/6/3	
36	Bay A14-1 (CH134.00 - CH145.00)	3 days	2009/6/1	2009/6/3	(IDDIES)
37	Laying of gabion block inside the channel structure	26 days	2009/6/1	2009/6/30	-
38	Bay A11 (CH101.00 - CH113.00)	5 days	2009/6/1	2009/6/5	(International)
39	Bay A12 (CH113.00 - CH119.00)	5 days	2009/6/6	2009/6/11	
40	Bay A13 (CH119.00 - CH134.00)	5 days	2009/6/12	2009/6/17	terrenter
41	Bay A14 (CH134.00 - CH145.00)	5 days	2009/6/18	2009/6/23	E
42	Bay A14-1 (CH134.00 - CH145.00)	6 days	2009/6/24	2009/6/30	
13	Construction of catchpit / manhole / drain pipe along the sides of channel	26 days	2009/6/1	2009/6/30	-
14	Bay A1 (CH00.00 - CH12.00)	4 days	2009/6/1	2009/6/4	100000000000
15	Bay A2 (CH12.00 - CH24.00)	4 days	2009/6/5	2009/6/9	
16	Bay A3 (CH24.00 - CH36.00)	4 days	2009/6/10	2009/6/13	Č
17	Bay A4 (CH36.00 - CH48.00)	4 days	2009/6/15	2009/6/18	Terretory,
8	Bay A5 (CH48.00 - CH53.00)	4 days	2009/6/19	2009/6/23	(Transmission)
19	Bay A7 (CH57.00 - CH65.00)	4 days	2009/6/24	2009/6/27	time the second s
0	Bay A8 (CH65.00 - CH77.00)	2 days	2009/6/29	2009/6/30	Sector 1
51	Installation of Type 2 railing on top of rectangular channel (CH0.00 - CH150.00)	18 days	2009/6/10	2009/6/30	
52	Bay A10 (CH89.00 - CH101.00)	3 days	2009/6/10	2009/6/12	(222222)
53	Bay A11 (CH101.00 - CH113.00)	3 days	2009/6/13	2009/6/16	and the second se
54	Bay A12 (CH113.00 - CH119.00)	3 days	2009/6/17	2009/6/19	termer (
55	Bay A13 (CH119.00 - CH134.00)	3 days	2009/6/20	2009/6/23	1 () () () () () () () () () (
56	Bay A14 (CH134.00 - CH145.00)	3 days	2009/6/24	2009/6/26	all second
57	Bay A14-1 (CH134.00 - CH145.00)	3 days	2009/6/27	2009/6/30	
58					
	Task Progress	Milestone •	Su	mmary 🖛	

1	Fask Name		olling Program		1.1						
		Duration	Start	Finish	31/5	7/6	6/200	09 14/6		21/6	28/0
9	Section IV (Channel KT14B & 14C and Portion 8A & 8B)	26 days	2009/6/1	2009/6/30	-		_1	1.40	-	2110	
0	Regular Environmental Impact Monitoring	26 days	2009/6/1	2009/6/30	lander sectores					nomentation in the	HERRICH, J
1	Regular Tree Survey & Protection	26 days	2009/6/1	2009/6/30	den den sterner						
	Regular Structural Condition Survey	26 days	2009/6/1	2009/6/30	Galacteration						000000
3	Portion 8B (CP1 to CP9) - Kam Sheung Road (1050 Dia. Pipe)	26 days	2009/6/1	2009/6/30	-			_			
4	Manhole MH2 - Manhole MH3	10 days	2009/6/1	2009/6/11		000000000000					
5	Manhole MH1 - Manhole MH2	10 days	2009/6/12	2009/6/23		Te.	istructure:		usalatus		
5	Catchpit CP1 - Manhole MH1	6 days	2009/6/24	2009/6/30	1					(11)(11)(10)(10)	0000000
7	Channel 14B	22 days	2009/6/5	2009/6/30	-					_	
8	Construction of rectangular channel Type RC1 (CH0.00 - CH335.00)	22 days	2009/6/5	2009/6/30	-		_		-		
9	Excavation to channel formation & Laying rock fill material (CH0.00 - CH335.00)	21 days	2009/6/5	2009/6/29	-			-			
0	Bay 31A (CH309.00 - CH317.00)	7 days	2009/6/5	2009/6/12	CIERCIA		2				
1	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	7 days	2009/6/13	2009/6/20	1		Taxanan		9330		
2	Bay 31 (CH303.00 - CH309.00)	7 days	2009/6/22	2009/6/29					612		11111111
3	Construction of channel structure (CH0.00 - CH335.00)	15 days	2009/6/13	2009/6/30			-	_			
4	Bay 31A (CH309.00 - CH317.00)	10 days	2009/6/13	2009/6/24	1				and all the	102207	
5	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	5 days	2009/6/25	2009/6/30						Distances of the	-
6	Laying of gabion block inside the channel structure	18 days	2009/6/10	2009/6/30	:	-			_		
7	Bay 18 (CH183.00 - CH195.00)	2 days	2009/6/10	2009/6/11	1404	(Internetion)					
8	Bay 19 (CH195.00 - CH207.00)	2 days	2009/6/12	2009/6/13		Č.					
9	Bay 20 (CH207.00 - CH216.00)	2 days	2009/6/15	2009/6/16			1000	3			
0	Bay 22 (CH220.00 - CH225.00)	2 days	2009/6/17	2009/6/18				tino ti			
1	Bay 23 (CH225.00 - CH237.00)	2 days	2009/6/19	2009/6/20				Č	200) - I		
2	Bay 24 (CH237.00 - CH249.00)	2 days	2009/6/22	2009/6/23					100	30	
33	Bay 25 (CH249.00 - CH260.00)	2 days	2009/6/24	2009/6/25							
34	Bay 26 (CH260.00 - CH272.00)	2 days	2009/6/26	2009/6/27						disc	2
35	Bay 27 (CH272.00 - CH285.00)	2 days	2009/6/29	2009/6/30							Tutato
36	Construction of catchpit / manhole / drain pipe along the sides of the channel	20 days	2009/6/8	2009/6/30		-	_	-	-		
87	Bay 1 (CH00.00 - CH05.00)		2009/6/8	2009/6/12			Et-				

Contract No. : DC/2007/17 Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - July 2009

	ask Name Monthly	Duration	Start	Finish				2009/7		
5	1 TT (7) 1 TTTT (7)	_			28/6		5/7	12/7	19/7	26/7
	ection II (Channel KT13)		2009/7/2	2009/7/31	-					
	Regular Environmental Impact Monitoring		2009/7/2	2009/7/31	65					
4	Regular Tree Survey & Protection	-	2009/7/2	2009/7/31	(<u>111</u>	inin minic 42				
_	Regular Structural Condition Survey	26 days	2009/7/2	2009/7/31	<u>655</u>					
	Section A	26 days	2009/7/2	2009/7/31						
6	Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00)	26 days	2009/7/2	2009/7/31	φ	_				
	Bay A7 (A CH44.00 - A CH51.00) - Transition	2 days	2009/7/2	2009/7/3	- Auto	Ξ.) 1				
3	Bay A8 (A CH51.00 - A CH59.00) - Transition	2 days	2009/7/4	2009/7/6		Galan t	121) 			
)	Bay A9 (A CH59.00 - A CH71.00) - TG2	2 days	2009/7/7	2009/7/8			(inne)			
0	Bay A10 (A CH71.00 - A CH83.00) - TG2	2 days	2009/7/9	2009/7/10			(1990)			
1	Bay A11 (A CH83.00 - A CH95.00) - TG2	2 days	2009/7/11	2009/7/13						
2	Bay A12 (A CH95.00 - A CH108.00) - TG2	2 days	2009/7/14	2009/7/15				(1000)		
3	Bay A13 (A CH108.00 - A CH120.00) - TG2	2 days	2009/7/16	2009/7/17				0.00000	i	
4	Bay A14 (A CH120.00 - A CH133.00) - TG2	2 days	2009/7/18	2009/7/20						
5	Bay A15 (A CH133.00 - A CH145.00) - TG2	4 days	2009/7/21	2009/7/24					(1000000000)	
6	Bay A16 (A CH145.00 - A CH157.00) - TG2	4 days	2009/7/25	2009/7/29					×	aslataca)
7	Bay A17 (A CH157.00 - A CH170.00) - TG2	2 days	2009/7/30	2009/7/31		1				
8	Construction of channel structure (RC2, Transition, and TG2)	26 days	2009/7/2	2009/7/31	-					
9	Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing	3 days	2009/7/2	2009/7/4	933	192132)				
0	Bay A7 (A CH44.00 - A CH51.00) - Transition	8 days	2009/7/6	2009/7/14						
1	Bay A8 (A CH51.00 - A CH59.00) - Transition	8 days	2009/7/15	2009/7/23					accesses and the	
2	Bay A9 (A CH59.00 - A CH71.00) - TG2	4 days	2009/7/24	2009/7/28		÷			1010aa	annana),
3	Bay A10 (A CH71.00 - A CH83.00) - TG2	3 days	2009/7/29	2009/7/31						(11)
4	Bay A11 (A CH83.00 - A CH95.00) - TG2	4 days	2009/7/13	2009/7/16						
5	Bay A12 (A CH95.00 - A CH108.00) - TG2	4 days	2009/7/17	2009/7/21		-			889889999)	
6	Bay A13 (A CH108.00 - A CH120.00) - TG2	4 days	2009/7/22	2009/7/25)—,
17	Bay A14 (A CH120.00 - A CH133.00) - TG2	4 days	2009/7/27	2009/7/30		1				1111111111
8	Section of Box Culvert BC13-1	15 days	2009/7/15	2009/7/31						
9	Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00)	15 days	2009/7/15	2009/7/31						
0	Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00)	15 days	2009/7/15	2009/7/31				-		
1	Bay BC17 (BC CH202.00 - BC CH217.00)	7 days	2009/7/15	2009/7/22				(1011-101-00-00-00-00-00-00-00-00-00-00-0	
32	Bay BC18 (BC CH217.00 - BC CH232.00)	7 days	2009/7/23	2009/7/30					100000000	e an
Sec. 1.	Bay BC19 (BC CH232.00 - BC CH247.00)	l day	2009/7/31	2009/7/31		1				
33		-		2009/7/31						

Task Na		onthly Rolling Prog			
Task N	me	Duration	Start	Finish	2009/7 28/6 5/7 12/7 19/7 26/
	Excavation for channel formation & laying of rock fill material (B CH0.00 - B CH316.00)	14 days	2009/7/10	2009/7/25	28/6 5/7 12/7 19/7 26/
	Bay B2 (B CH07.00 - B CH14.00) - Transition	7 days	2009/7/10	2009/7/17	(<u>3533555555555</u>),
	Bay B1 (B CH00.00 - B CH07.00) - Transition	7 days	2009/7/18	2009/7/25	
	Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)	26 days	2009/7/2	2009/7/31	~
	Bay B13 (B CH129.00 - B CH137.00) - Transition	10 days	2009/7/2	2009/7/13	(CONTRACTOR CONTRACTOR)
	Bay B6 (B CH46.00 - B CH57.00) - TG3	7 days	2009/7/2	2009/7/9	
	Bay B5 (B CH34.00 - B CH46.00) - TG3	7 days	2009/7/10	2009/7/17	(Instruction of the second
	Bay B2 (B CH07.00 - B CH14.00) - Transition	10 days	2009/7/18	2009/7/29	
	Bay B1 (B CH00.00 - B CH07.00) - Transition	2 days	2009/7/30	2009/7/31	
	Backfilling along the sides of channel & laying of underground drain	26 days	2009/7/2	2009/7/31	·
	Bay B12 (B CH119.00 - B CH129.00) - TG3	3 days	2009/7/2	2009/7/4	GEORGE -
	Bay B11 (B CH107.00 - B CH119.00) - TG3	3 days	2009/7/6	2009/7/8	(MESSER)
	Bay B10 (B CH94.00 - B CH107.00) - TG3	3 days	2009/7/9	2009/7/11	i danaa -
	Bay B9 (B CH80.00 - B CH94.00) - TG3	3 days	2009/7/13	2009/7/15	Televisen 1
	Bay B8 (B CH68.00 - B CH80.00) - TG3	3 days	2009/7/16	2009/7/18	Constant -
	Bay B7 (B CH57.00 - B CH68.00) - TG3	3 days	2009/7/20	2009/7/22	
	Bay B6 (B CH46.00 - B CH57.00) - TG3	3 days	2009/7/23	2009/7/25	CEREERS-
	Bay B5 (B CH34.00 - B CH46.00) - TG3	3 days	2009/7/27	2009/7/29	
	Bay B4 (B CH24.00 - B CH34.00) - TG3	2 days	2009/7/30	2009/7/31	
	Installation of Type 2 railing on top of channel wall	26 days	2009/7/2	2009/7/31	
	Bay A15 (A CH133.00 - A CH145.00) - TG2	5 days	2009/7/2	2009/7/7	(accession)
	Bay A14 (A CH120.00 - A CH133.00) - TG2	5 days	2009/7/8	2009/7/13	(assurance)
	Bay B13 (B CH129.00 - B CH137.00) - Transition	4 days	2009/7/14	2009/7/17	Generation.
	Bay B12 (B CH119.00 - B CH129.00) - TG3	4 days	2009/7/18	2009/7/22	Čisteration,
	Bay B11 (B CH107.00 - B CH119.00) - TG3	4 days	2009/7/23	2009/7/27	Caseseeners)
	Bay B10 (B CH94.00 - B CH107.00) - TG3	4 days	2009/7/28	2009/7/31	Tana
					U
Section	III (Channel KT14A - Tin Sam Tsuen)	26 days	2009/7/2	2009/7/31	V
Re	gular Environmental Impact Monitoring	26 days	2009/7/2	2009/7/31	(10101010000000000000000000000000000000
	gular Tree Survey	26 days	2009/7/2	2009/7/31	
	gular Structural Condition Survey	26 days	2009/7/2	2009/7/31	
Co	nstruction of catchpit / manhole / drain pipe along the sides of channel	24 days	2009/7/2	2009/7/29	¢
	Bay A8 (CH65.00 - CH77.00)	3 days	2009/7/2	2009/7/4	
	Bay A9 (CH77.00 - CH89.00)	3 days	2009/7/6	2009/7/8	(manne)
	Bay A10 (CH89.00 - CH101.00)	3 days	2009/7/9	2009/7/11	Česso-
	Task Entrements Split Progress		Milestone •		Summary

		Monthly Rolling Prog	ramme - July 2	009	
Bay A11 (CH104.00 - CH113.00) 3 days 2009/115 2009/116 Bay A12 (CH110.00 - CH113.00) 3 days 2009/112 2009/112 Bay A13 (CH119.00 - CH136.00) 3 days 2009/112 2009/112 Bay A14 (CH134.00 - CH145.00) 3 days 2009/112 2009/112 Bay A14 (CH134.00 - CH145.00) 4 days 2009/114 2009/114 Bay A14 (CH134.00 - CH145.00) 4 days 2009/114 2009/114 Bay A14 (CH134.00 - CH145.00) 4 days 2009/123 2009/124 Bay A14 (CH134.00 - CH145.00) 4 days 2009/123 2009/124 Bay A14 (CH134.00 - CH145.00) 4 days 2009/123 2009/124 Bay A14 (CH134.00 - CH145.00) 4 days 2009/123 2009/124 Bay A14 (CH134.00 - CH145.00) 4 days 2009/123 2009/124 Bay A14 (CH134.00 - CH145.00) 4 days 2009/123 2009/124 Bay A14 (CH134.00 - CH145.00) 4 days 2009/123 2009/124 Bay A14 (CH134.00 - CH145.00) 4 days 2009/123 2009/124 Register Envirosmental Inspect Maintering 2 days 2009/123 2009/124	Task Name	Duration	Start	Finish	
By A12 (CH11300 - CH11900) 3 days 20097/16 20097/16 By A13 (CH11900 - CH11500) 3 days 20097/12 20097/12 By A14 (CH11300 - CH1500) 3 days 20097/12 20097/12 By A14 (CH13100 - CH1500) 3 days 20097/12 20097/12 By A14 (CH13100 - CH1500) 4 days 20097/14 20097/14 By A14 (CH13100 - CH1500) 4 days 20097/14 20097/14 By A14 (CH13100 - CH1500) 4 days 20097/14 20097/14 By A14 (CH13100 - CH1500) 4 days 20097/13 20097/14 By A14 (CH13100 - CH1500) 4 days 20097/18 20097/14 By A14 (CH13100 - CH1500) 4 days 20097/13 20097/14 By A14 (CH13100 - CH1500) 4 days 20097/13 20097/14 By A14 (CH13100 - CH1500) 4 days 20097/13 20097/14 Companyor Planting 1 day 20097/13 20097/14 Section IV (Channel KT48 & AB) 2 days 20097/12 20097/14 Regate Environmental Ingract Monitorin fax 2 days 20097/12	Bay A11 (CH101.00 - CH113.00)	3 days	2009/7/13	2009/7/15	
By Al4 (CIII:400-CIII:4500) 3 days 2009/1725 Birs Al4-1 (CIII:400-CIII:4500) 3 days 2009/1721 Birs Al4-1 (CIII:300-CIII:4500) 4 days 2009/171 By Al4 (CIII:300-CIII:4500) 4 days 2009/171 By Al4 (CIII:300-CIII:500) 4 days 2009/171 2009/1721 By Al4 (CIII:300-CIII:500) 4 days 2009/171 2009/1721 By Al4 (CIII:300-CIII:500) 4 days 2009/1721 2009/1731 Compression: Planting 1 day 2009/1731 2009/1731 Section IV (Chanel KTH3 & L Cael Pertoins 8A & 8B) 2 days 2009/1731 2009/1731 Regular Tree Survey & Protection 2 days 2009/1731 2009/1731 Pertoins 8B (CP1 to CP3) - Kan Sheung Road (1050 Dia, Pipe) 2 days 2009/173 2009/1731 Constructino of Jacking P1 and Receiving P1 <	Bay A12 (CH113.00 - CH119.00)		2009/7/16	2009/7/18	(1223883)
Bay Al-1 (CH134.00 - CH145.00) 3 days 2009/7/27 2009/7/29 Installation of Type 2 railing on try of rectangular channel. (CH0.00 - CH150.00) 16 days 2009/7/14 2000/7/31 Bay Al 2 (CH13.00 - CH143.00) 4 days 2009/7/28 2009/7/27 2009/7/27 Bay Al 2 (CH13.00 - CH143.00) 4 days 2009/7/28 2009/7/27 2009/7/27 Bay Al 4 (CH13.40 - CH145.00) 4 days 2009/7/28 2009/7/28 2009/7/28 Bay Al 4 (CH13.40 - CH145.00) 4 days 2009/7/28 2009/7/28 2009/7/28 Bay Al 4 (CH13.40 - CH145.00) 4 days 2009/7/28 2009/7/28 2009/7/28 Bay Al 4 (CH13.40 - CH145.00) 4 days 2009/7/28 2009/7/28 2009/7/28 Compensatory Planting 1 day 2009/7/31 2009/7/31 2009/7/31 Regular Environmental Impact Monitoring 26 days 2009/7/2 2009/7/31 2009/7/31 Regular Environmental Impact Monitoring 26 days 2009/7/31 2009/7/31 2009/7/31 Regular Environmental Impact Monitoring 26 days 2009/7/12 2009/7/31	Bay A13 (CH119.00 - CH134.00)	3 days	2009/7/20	2009/7/22	CHARGED 1
Installation of Type 2-rilling on top of rectangular channel (CHB.00 - CH150.00) 16 days 2009/7/14 2009/7/14 2009/7/14 Bay A12 (CH11300 - CH150.00) 4 days 2009/7/14 2009/7/23 2009/7/27 Bay A14 (CH134.00 - CH155.00) 4 days 2009/7/23 2009/7/27 Bay A14 (CH134.00 - CH155.00) 4 days 2009/7/23 2009/7/21 Bay A14 (CH134.00 - CH155.00) 4 days 2009/7/23 2009/7/21 Bay A14 (CH134.00 - CH155.00) 4 days 2009/7/21 2009/7/21 Bay A14 (CH134.00 - CH155.00) 4 days 2009/7/21 2009/7/21 Hydrosecling 1 day 2009/7/21 2009/7/21 Compresstory Planting 1 day 2009/7/21 2009/7/21 Regular Evidenmental Impact Monitoring 26 days 2009/7/21 2009/7/31 Regular Evidenmental Impact Monitoring 26 days 2009/7/21 2009/7/31 Regular Evidenmental Impact Monitoring 26 days 2009/7/21 2009/7/31 Regular Evidencial Condition Survey 26 days 2009/7/21 2009/7/31 Manbole MH1 S days 2009/7/21 2009/7/31 Manbole MH1	Bay A14 (CH134.00 - CH145.00)	3 days	2009/7/23	2009/7/25	(1975) (1975) (1975)
Bay A12 (CH11300 - CH19.00) 4 days 2009/71/1 2009/71/1 Bay A13 (CH119.00 - CH134.00) 4 days 2009/71/8 2009/71/2 Bay A14 (CH13400 - CH145.00) 4 days 2009/71/8 2009/71/8 Bay A14 (CH13400 - CH145.00) 4 days 2009/71/8 2009/71/8 Installation of sign plate along the sides of chamel/Street furniture 8 days 2009/71/8 2009/71/8 Installation of sign plate along the sides of chamel/Street furniture 8 days 2009/71/8 2009/71/8 Compensatory Planting 1 day 2009/71/1 2009/71/8 2009/71/8 Regular Environmental Inspect Monitoring 26 days 2009/71/2 2009/71/8 Regular Environmental Conditions Surrey 26 days 2009/71/2 2009/71/8 Portion 88 (CP1 to CP3) - Kam Sheang Road (1050 Dia, Fipe) 26 days 2009/71/2 2009/71/8 Catchpit (CP2 - Mathole MH1) 5 days 2009/71/2 2009/71/8 Manhole MH7 - Mathole MH6 (Fipe Jacking) 19 day 2009/71/1 2009/71/8 Construction of Indexing Pit and Receiving Pit 15 days 2009/71/1 2009/71/8 Construction of Lacking Pit and Receiving Pit 15 days	Bay A14-1 (CH134.00 - CH145.00)	3 days	2009/7/27	2009/7/29	
Bay A13 (CH119.00 - CH134.00) 4 days 2009/7/18 2009/7/12 Bay A14 (CH134.00 - CH135.00) 4 days 2009/7/23 2009/7/23 2009/7/21 Bay A14 (CH134.00 - CH135.00) 4 days 2009/7/23 2009/7/21 2009/7/21 Bay A14 (CH134.00 - CH135.00) 4 days 2009/7/20 2009/7/21 2009/7/21 Bay A14 (CH134.00 - CH135.00) 4 days 2009/7/20 2009/7/21 2009/7/21 Compensatory Planting 1 day 2009/7/21 2009/7/21 2009/7/21 Section IV (Chanel KT148 & 1/4 cand Portion 8A & 8B) 26 days 2009/7/21 2009/7/21 2009/7/21 Regular Tree Survey & Protection 26 days 2009/7/21 2009/7/21 2009/7/21 2009/7/21 Regular Tree Survey & Protection 26 days 2009/7/21 2009/7/21 2009/7/21 2009/7/21 Catchpit CP2 - Manbiole MH1 5 days 2009/7/21 2009/7/13 2009/7/13 2009/7/13 Manbiole MH1 - Catchpit CP1 16 days 2009/7/14 2009/7/13 2009/7/13 2009/7/13 Construction of Insching Pit and Receiving Pit 15 days 2009/7/12 2009/7/13 2009/7/13	Installation of Type 2 railing on top of rectangular channel (CH0.00 - CH150.00)	16 days	2009/7/14	2009/7/31	P
Bay Al 4 (CH134.00 - CH145.00) 4 days 2009/7/23 2009/7/27 Bay Al 4.1 (CH134.00 - CH145.00) 4 days 2009/7/28 2009/7/28 Installation of sign plate along the sides of channel/Street furpiture 8 days 2009/7/28 2009/7/28 Hydroxecting 1 day 2009/7/28 2009/7/28 2009/7/28 Compensatory Planting 1 day 2009/7/21 2009/7/21 2009/7/21 Section IV (Channel KT14B & 14C and Portion 8A & 8B) 26 days 2009/7/21 2009/7/21 2009/7/21 Regular Environmental Impact Monitoring 26 days 2009/7/21 2009/7/21 2009/7/21 Regular Environmental Impact Monitoring 26 days 2009/7/21 2009/7/21 2009/7/21 Portion 8B (CP1 to CP5) - Kam Sheang Road (1050 Dia. Pipo) 26 days 2009/7/12 2009/7/11 2009/7/13 Catchpit CP2 - Mathole MH1 Scatys 2009/7/18 2009/7/18 2009/7/18 2009/7/18 Manble MH1 - Cathpit CP1 16 days 2009/7/18 2009/7/18 2009/7/18 2009/7/18 Construction of Exhing P1 at Reserving P1 15 days 2009/7/18 2009/7/18 2009/7/18 2009/7/18	Bay A12 (CH113.00 - CH119.00)	4 days	2009/7/14	2009/7/17	(0000000)
Bay Al 41 (CH134.00 - CH145.00) 4 days 2009/7/28 2009/7/31 Installation of sign plate along the sides of channel/Street furniture 8 days 2009/7/20 2009/7/28 Pydrosceding 1 day 2009/7/31 2009/7/31 2009/7/31 Compensatory Planting 1 day 2009/7/31 2009/7/31 2009/7/31 Section IV (Channel KT148 & 14C and Portion 8A & 8B) 26 days 2009/7/2 2009/7/31 2009/7/31 Regular Tree Survey & Protection 26 days 2009/7/2 2009/7/31 2009/7/31 Regular Tree Survey & Protection 26 days 2009/7/2 2009/7/31 2009/7/31 Portion 8B (CP1 to CP9) - Kan Sheung Road (1050 Dia, Pipe) 26 days 2009/7/2 2009/7/31 Catchpit CP2 - Mathole /1 5 days 2009/7/12 2009/7/31 Manbole MH1 - Atachole /1 5 days 2009/7/12 2009/7/31 Manbole MH1 - Catchpit CP1 16 days 2009/7/12 2009/7/31 Construction of Inski Frame and setting up of equipments 4 days 2009/7/12 2009/7/31 Construction of Ackangl Structure / Laying underground drain pipe 8 days 2009/7/2 2009/7/2 <	Bay A13 (CH119.00 - CH134.00)	4 days	2009/7/18	2009/7/22	(00000000000000000000000000000000000000
Installation of sign plate along the sides of channel/Street furnitare 8 days 2009/7/20 2009/7/20 Hydroseeding 1 day 2009/7/30 2009/7/31 Compensatory Planting 1 day 2009/7/31 2009/7/31 Regular Environmental Impact Monitoring 26 days 2009/7/21 2009/7/31 Regular Environmental Impact Monitoring 26 days 2009/7/22 2009/7/31 Regular Structural Condition Survey 26 days 2009/7/2 2009/7/31 Portion 8B (CP1 to CP9) - Kam Sheang Road (1050 Dia, Pipe) 26 days 2009/7/2 2009/7/31 Catchyli (CP2 - Machile MH1) 5 days 2009/7/2 2009/7/73 Manhole MH7A - Manhole 7 5 days 2009/7/12 2009/7/73 Manhole MH7 - Manhole 7 5 days 2009/7/10 2009/7/73 Manhole MH7 - Manhole 7 5 days 2009/7/10 2009/7/13 Construction of Incust Prame and setting up of equipments 4 days 2009/7/12 2009/7/31 Construction of retangular channel Type RC1 (CH0.00 - CH335.00) 18 days 2009/7/12 2009/7/13 Bay 31 (CH303.00 - CH317.00) 8 days 2009/7/12 2009/7/13 2009/7/14	Bay A14 (CH134.00 - CH145.00)	4 days	2009/7/23	2009/7/27	
Hydroseeding Compensatory Planting 1 day 2009/1/30 2009/1/30 Section IV (Channel KT14B & 14C and Portion & 8A & 8B) 26 days 2009/1/21 2009/1/31 Regular Environmental Impact Monitoring 26 days 2009/1/2 2009/1/31 Regular Tree Survey & Protection 26 days 2009/1/2 2009/1/31 Regular Tree Survey & Protection 26 days 2009/1/2 2009/1/31 Portion 8B (CP1 to CP9) - Kan Sheung Road (1050 Dia, Pipe) 26 days 2009/1/2 2009/1/31 Catchpit CP2 - Manhole MH1 5 days 2009/1/12 2009/1/31 Manhole MH1 - Catchpit CP1 16 days 2009/1/12 2009/1/31 Manhole MH1 - Catchpit CP1 16 days 2009/1/12 2009/1/31 Construction of Thrust Frame and setting up of equipments 4 days 2009/1/12 2009/1/31 Construction of channel structure (CH0.00 - CH335.00) 18 days 2009/1/2 2009/1/31 Bay 30 (CH290.00 - CH303.00) & Pedestrian Crossing PC14B-1 10 days 2009/1/31 2009/1/31 Bay 30 (CH290.00 - CH303.00) & Pedestrian Crossing PC14B-1 10 days 2009/1/31 2009/1/31 Bay 30 (CH290.00 - CH303.00) & Pedestrian Crossing PC14B-1	Bay A14-1 (CH134.00 - CH145.00)	4 days	2009/7/28	2009/7/31	i i i i i i i i i i i i i i i i i i i
Compensatory Planting 1 day 2009/7/31 2009/7/31 Section IV (Channel KT14B & 14C and Portion 8A & 8B) 26 days 2009/7/2 2009/7/31 Regular Tree Survey & Protection 26 days 2009/7/2 2009/7/31 Regular Structural Condition Survey 26 days 2009/7/2 2009/7/31 Portion 8B (CP1 to CP3) - Kam Sheung Road (1050 Dia. Pipe) 26 days 2009/7/2 2009/7/31 Catchpit CP2 - Manhole MH1 5 days 2009/7/12 2009/7/31 Manhole MH7 - Manhole 7 5 days 2009/7/12 2009/7/31 Manhole MH7 - Manhole MH6 (Pipe Jacking) 19 days 2009/7/14 2009/7/31 Construction of Thusk Frame and setting up of equipments 4 days 2009/7/2 2009/7/31 Construction of Tacking Pit and Receiving Pit 15 days 2009/7/2 2009/7/31 Construction of Tacking up of equipments 4 days 2009/7/2 2009/7/31 Construction of channel structure (CH0.0 - CH335.00) 18 days 2009/7/2 2009/7/2 Bay 31 (CH303.00 - CH317.00) 8 days 2009/7/2 2009/7/2 Bay 30 (CH2090.00 - CH303	Installation of sign plate along the sides of channel/Street furniture	8 days	2009/7/20	2009/7/28	(10000000000000000000000000000000000000
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	Existing U-channel to CP14B-13 (Upstream)	5 days	2009/1/2	2009/1/1	(receivered general)

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ID /		onthly Rolling Prog			
D	ask Name	Duration	Start	Finish	2009/7 28/6 5/7 12/7 19/7
05	Bay 1 (CH00.00 - CH05.00)	4 days	2009/7/8	2009/7/11	Geosegies)
6	Bay 2 (CH05.00 - CH08.00) & Pedestrian Crossing PC14B-3	4 days	2009/7/13	2009/7/16	CHERREN P
07	Bay 3 (CH08.00 - CH13.00)	4 days	2009/7/17	2009/7/21	(HERRER PROVIDENCE)
08	Bay 4 (CH13.00 - CH25.00)	4 days	2009/7/22	2009/7/25	distant distant
09	Bay 5 (CH25.00 - CH37.00)	5 days	2009/7/27	2009/7/31	
10	Channel KT14C	26 days	2009/7/2	2009/7/31	-
11	Rectangular channel 2.5m(W) x 2.0m(H) Type RC-1 (CH0.00 -CH475.00)	26 days	2009/7/2	2009/7/31	
12	Excavation to channel formation (CH180.00 - CH475.00) & Laying rock fill material	26 days	2009/7/2	2009/7/31	\$
13	Bay 18E (CH285.00 - CH279.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	5 days	2009/7/2	2009/7/7	destered as apply
14	Bay 19E (CH279.00 - CH267.00)	5 days	2009/7/8	2009/7/13	Sectores and
15	Bay 1E (CH475.00 - CH466.00) & Vehicular Crossing VC14C-1	2 days	2009/7/30	2009/7/31	
16	Construction of channel structure (CH180.00 - CH475.00)	24 days	2009/7/2	2009/7/29	•
17	Bay 17W-2 (CH178.00 - CH187.00) & Vehicular Crossing VC14C-3	10 d ay s	2009/7/2	2009/7/13	(ananananananananana)
18	Bay 18E (CH285.00 - CH279.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	7 days	2009/7/14	2009/7/21	(Transmission)
19	Bay 19E (CH279.00 - CH267.00)	7 days	2009/7/22	2009/7/29	
20	Backfilling along the sides of the channel structure & laying underground drain pipe	16 days	2009/7/14	2009/7/31	
21	Bay 17W-2 (CH178.00 - CH187.00) & Vehicular Crossing VC14C-3	4 days	2009/7/14	2009/7/17	E EEEEEE
22	Bay 18E (CH285.00 - CH279.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	l day	2009/7/30	2009/7/30	
23	Bay 19E (CH279.00 - CH267.00)	l day	2009/7/31	2009/7/31	
24	Installation of Type 2 railing on top of channel walls	15 days	2009/7/15	2009/7/31	
25	Bay 20E (CH267.00 - CH255.00)	5 days	2009/7/15	2009/7/20	
26	Bay 21E (CH255.00 - CH243.00)	5 days	2009/7/21	2009/7/25	
27	Bay 22E (CH243.00 - CH235.00)	5 days	2009/7/27	2009/7/31	
28					
29	Section V	26 days	2009/7/2	2009/7/31	\$
30	Preservation and protection of tree for Section I, II, III and IV	26 days	2009/7/2	2009/7/31	(Contraction of the second
31					
32	Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)	26 days	2009/7/2	2009/7/31	
33	Structural Survey and Monitoring	26 days	2009/7/2	2009/7/31	
34	Construction of Manhole, Timber Box and Trench Excavation	26 days	2009/7/2	2009/7/31	
35					
	Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)		2009/7/2	2009/7/31	× 1
37	Structural Survey and Monitoring		2009/7/2	2009/7/31	
38	Construction of Manhole, Timber Box and Trench Excavation	26 days	2009/7/2	2009/7/31	
	Task Progress -		Milestone •		Summary 🕶 🗢



Appendix D

Mitigation Measure Implementation Schedule



Construc	tion Noise Impact Mitigation				-			
Item	Mitigation Measures	Objectives of	Location/Duration of Measures/Timing of	Implementation	Implementation Stage			Relevant Legislation &
Ref:		Proposed Measures	Completion of Measures	Agent(s)	Design	Construction	Operation	Guidelines
Noise 1	 The Contractor is required to adopt Level 1 and 2 site-specific direct technical measures as specified below during the construction phase Level 1 Mitigation Measures The use of equipment with sound power level lower than that stipulated in the Technical Memorandum on Noise from Construction Works Other Than Percussive Piling is recommended as the first level mitigation (Level 1 mitigation) for all construction works under this Project. Quiet plant is defined as PME whose actual sound power level is less than the value specified in the Technical Memorandum on Noise from Construction Works Other Than Percussive Piling for the same piece of equipment. BS5228 also provides examples of quiet construction plant and their sound power level. The quiet plant used in the noise calculation including the BS5228 reference number is shown in Attachment 1 for reference 	Prevent noise impact at sensitive receivers	To be implemented at the works site of KT14 during the Construction Phase (Figure 5.4 show locations of proposed temporary noise barriers.)	Construction Contractor		√		EIAO
	Level 2 Mitigation Measures							
	• In addition to the use of quiet plant purpose-built site noise barriers shall be used as hoarding where construction works would be undertaken close (about 30m or less) to the NSRs (Figure 5.4). Temporary noise barrier with a minimum height of 3m shall be erected along the part of site boundary closest to the NSRs. Notwithstanding the required minimum height these barriers shall be constructed in a way such that no construction works and PME can be visible from the NSRs nearby. The minimum height is estimated assuming the construction equipment aactivities will be located on the channel bed 2m below the surrounding ground level.							

Mitigation Measure Implementation Schedule – Construction Noise

DSD Contract No. DC/2007/17 - Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun. EM&A Report - Appendix



Construction Noise Impact Mitigation										
	Objectives of	Location/Duration of	Implementation	I	Relevant					
Mitigation Measures	Proposed Measures	Measures/Timing of Completion of Measures	Agent(s)	Design	Construction	Operation	Legislation & Guidelines			
 Stationary equipment shall be placed on the channel bed during construction works. For the construction works which are predicted to exceed 75dB(A) (Leq30min) at nearby NSR and whose line of sight cannot be blocked by the temporary noise barrier (i.e. further away from the hoardings), movable (mobile) noise barrier of more than 3m high shall be provided. A typical example is shown in Figure 5.7. The noise barriers or screens shall be constructed of appropriate material with a minimum surface density of 10kg/m2. Generators and compressors, shall be completely screened by construction barriers giving a total noise reduction of 10dB(A) or more. The location of 	Prevent noise impact at sensitive receivers	To be implemented at the			√		EIAO			
	 Mitigation Measures Stationary equipment shall be placed on the channel bed during construction works. For the construction works which are predicted to exceed 75dB(A) (Leq30min) at nearby NSR and whose line of sight cannot be blocked by the temporary noise barrier (i.e. further away from the hoardings), movable (mobile) noise barrier of more than 3m high shall be provided. A typical example is shown in Figure 5.7. The noise barriers or screens shall be constructed of appropriate material with a minimum surface density of 10kg/m2. Generators and compressors, shall be completely screened by construction barriers giving a total noise 	Mitigation MeasuresObjectives of Proposed MeasuresStationary equipment shall be placed on the channel bed during construction works.Prevent noise impact at sensitive receiversFor the construction works which are predicted to exceed 75dB(A) (Leq30min) at nearby NSR and whose line of sight cannot be blocked by the temporary noise barrier (i.e. further away from the hoardings), movable (mobile) noise barrier of more than 3m high shall be provided. A typical example is shown in Figure 5.7.The noise barriers or screens shall be constructed 	Mitigation MeasuresObjectives of Proposed MeasuresLocation/Duration of Measures/Timing of Completion of MeasuresStationary equipment shall be placed on the channel bed during construction works.Prevent noise impact at sensitive receiversTo be implemented at the works site of KT14 during the Construction PhaseFor the construction works which are predicted to exceed 75dB(A) (Leq30min) at nearby NSR and whose line of sight cannot be blocked by the temporary noise barrier (i.e. further away from the hoardings), movable (mobile) noise barrier of more than 3m high shall be provided. A typical example is shown in Figure 5.7.The noise barriers or screens shall be constructed of appropriate material with a minimum surface density of 10kg/m2. Generators and compressors, shall be completely screened by construction barriers giving a total noise reduction of 10dB(A) or more. The location ofLocation/Duration of Measures	Mitigation MeasuresObjectives of Proposed MeasuresLocation/Duration of Measures/Timing of Completion of MeasuresImplementation Agent(s)Stationary equipment shall be placed on the channel bed during construction works.Prevent noise impact at sensitive receiversTo be implemented at the works site of KT14 during the Construction Phase (Figure 5.4 show locations of proposed temporary noise barriers.)Construction ContractorThe noise barrier of more than 3m high shall be provided. A typical example is shown in Figure 5.7.Prevent noise impact at sensitive receiversTo be implemented at the works site of KT14 during the Construction Phase (Figure 5.4 show locations of proposed temporary noise barriers.)Construction ContractorThe noise barrier of acompressors, shall be completely screened by construction barriers giving a total noise reduction of 10dB(A) or more. The location ofBenerators and completed noise total noise reduction of 10dB(A) or more.Construction Contractor	Mitigation MeasuresObjectives of Proposed MeasuresLocation/Duration of Measures/Timing of Completion of MeasuresImplementation Agent(s)IStationary equipment shall be placed on the channel bed during construction works.Prevent noise impact at sensitive receiversTo be implemented at the works site of KT14 during the Construction Phase (Figure 5.4 show locations of proposed temporary noise barriers.)Construction ContractorImplementation Agent(s)IImplementation MeasuresDesignThe noise barrier of and compressors, shall be completely screened by construction barriers giving a total noise reduction of 10dB(A) or more. The location ofPrevent noise a total noise total or processorsImplementation Agent(s)IImplementation MeasuresMitigation MeasuresPrevent noise impact at sensitive receiversTo be implemented at the works site of KT14 during the Construction Phase (Figure 5.4 show locations of proposed temporary noise barriers.)Construction ContractorThe noise barrier or screene shall be constructed of appropriate material with a minimum surface density of 10kg/m2.A typical econstruction of total or total or	Mitigation MeasuresObjectives of Proposed MeasuresLocation/Duration of Measures/Timing of Completion of MeasuresImplementation Agent(s)Implementation Agent(s)Stationary equipment shall be placed on the channel bed during construction works.Prevent noise impact at sensitive receiversTo be implemented at the works site of KT14 during the Construction Phase (Figure 5.4 show locations of proposed temporary noise barriers.)ConstructionFor the construction works which are predicted to exceed 75dB(A) (Leq30min) at nearby NSR and whose line of sight cannot be blocked by the temporary noise barrier (i.e. further away from the hoardings), movable (mobile) noise barrier of more than 3m high shall be provided. A typical example is shown in Figure 5.7.The noise barriers or screens shall be constructed of appropriate material with a minimum surface density of 10kg/m2. Generators and compressors, shall be completely screened by construction of 10dB(A) or more. The location ofLocation/Duration of MeasuresImplementation Agent(s)Implementation Agent(s)	Mitigation Measures Objectives of Proposed Measures Location/Duration of Measures/Timing of Completion of Measures Implementation Agent(s) Implementation Agent(s) Stationary equipment shall be placed on the channel bed during construction works. Prevent noise impact at sensitive receivers To be implemented at the works site of KT14 during the Construction Proposed temporary noise barriers.) Construction Operation For the construction works which are predicted to exceed 75dB(A) (Leq30min) at nearby NSR and whose line of sight cannot be blocked by the temporary noise barrier (i.e. further away from the hoardings), movable (mobile) noise barrier of more than 3m high shall be provided. A typical example is shown in Figure 5.7. The noise barriers or screens shall be constructed of appropriate material with a minimum surface density of 10kg/m2. Generators and compressors, shall be completely screened by construction of 10dB(A) or more. The location of Generators and compressors, shall be completely screened by construction of 10dB(A) or more. The location of Implementation Measures Implementation Measures			



Air Quality Impact Mitigation Location/Duration of Relevant Implementation Stage Objectives of Item Implementation Mitigation Measures Measures/Timing of Legislation & Ref: Proposed Measures Agent(s) Design Construction Operation Completion of Measures Guidelines The Contractor shall prevent dust nuisance arising from Air 1 Prevent dust nuisance To be implemented at all Construction Air Pollution the construction activities. The Contractor is required works are of KT14 site Contractor Control to follow all the requirements for dust control stipulated during the Construction Ordinance in the Air Pollution Control (Construction Dust) Phase. Regulation Air Pollution Control (Construction Dust Regulation) Air 2 The following dust suppression measures shall be Air Pollution Prevent dust nuisance To be implemented at all Construction $\sqrt{}$ installed as part of construction practice, and these shall works are of KT14 site Contractor Control be incorporated in the Contract Specification and the Construction Ordinance during implemented to minimize dust nuisance to within Phase. acceptable levels. Air Pollution Control i) The Contractor shall frequently clean and water (Construction the site to minimise fugitive dust emissions. Dust Regulation) Effective water sprays shall be used during the ii) delivery and handling of aggregate, and other similar materials, when dust is likely to be created and to dampen all stored materials during dry and windy weather. Watering of exposed surfaces shall be exercised at iii) least three times a day. Areas within the site where there is a regular iv) movement of vehicles must be regularly watered at minimum three times a day. The Contractor shall restrict all motorised v) vehicles within the site, excluding those on public roads, to a maximum speed of 15 km per hour and confine haulage and delivery vehicles to designated road ways inside the site. Any stockpiles of construction materials that are vi) likely to generate fugitive dust shall be covered with tarpaulins including the materials on lorries or trucks.

Mitigation Measure Implementation Schedule – Air Quality

DSD Contract No. DC/2007/17 - Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun. EM&A Report - Appendix



Air Qual	ity Im	pact Mitigation							
Item			Objectives of	Location/Duration of	Implementation	I	mplementation St	age	Relevant
Ref:		Mitigation Measures	Proposed Measures	Measures/Timing of Completion of Measures	Agent(s)	Design	Construction	Operation	Legislation & Guidelines
Air 2 (Cont'd)	vii) viii)	Wheel washing facilities shall be installed and used by all vehicles leaving the site. No earth, mud, debris, dust and the like shall be deposited on public roads. Water in the wheel cleaning facility shall be changed at frequent intervals and sediments shall be removed regularly. The Contractor shall submit details of proposals for the wheel cleaning facility. Such wheel washing facilities shall be usable prior to any earthworks excavating activity on the site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road. Any materials dropped on paved roads will need to be cleaned up immediately to prevent dust nuisance.	Prevent dust nuisance	To be implemented at all works are of KT14 site during the Construction Phase.	Construction Contractor		\checkmark		Air Pollution Control Ordinance Air Pollution Control (Construction Dust Regulation)



Item Ref:		Objectives of	Location/Duration of	Implementation	Implementation Stage			Relevant
	Mitigation Measures	Proposed Measures	Measures/Timing of Completion of Measures	Agent(s)	Design	Construction	Operation	Legislation & Guidelines
Water 1	Wash facilities for workers and wheel wash waste result in muddy construction site runoff. Temporary earth hunds and sand barriers shall be used to direct such runoff to a designated settlement area within the site.	Prevent additional pollution load being added to stream due to KT14 works	To be implemented at the works sites of KT14 during the Construction Phase	Construction Contractor		\checkmark		WPCO & ProPECC PN1/94
Water 1 (Cont'd)	The settlement area shall be located within the temporary site area. Construction site runoff shall be settled in this settlement area, while runoff from the surface should be channelled through a local site drainage system into the settlement area. When solids build up in the settlement area, and certainly before the onset of the wet season (Apr-Oct) solids shall be excavated from the base of the settlement area. No excavation shall be allowed in rainy weather.	Prevent additional pollution load being added to stream due to KT14 works	To be implemented at the works sites of KT14 during the Construction Phase	Construction Contractor				WPCO & ProPECC PN1/94
Water 2	All discharged waters, including sewage and site runoff, should comply with the appropriate standards in the Technical Memorandum on Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters, prior to discharge. Licensed contractors shall dispose the collected sewage to the government sewers. No sewage shall be allowed to enter wash facilities or sediment setting area.	Prevent additional pollution load being added to stream due to KT14 works	To be implemented at the works sites of KT14 during the Construction Phase	Construction Contractor		\checkmark		WPCO & ProPECC PN1/94

Mitigation Measure Implementation Schedule – Water Quality



Mitigation Measure Implementation Schedule – Waste Management

Waste M	anagement								
Item		Objectives of	Location/Duration of	Implementation	-	Relevant			
Ref:	Mitigation Measures	Proposed Measures Measures/Timing of Completion of Measures		Agent(s)	Design	Construction	Operation	Legislation & Guidelines	
	Waste Management Plan								
	Upon appointment, the main contractor of each construction contract should submit a Waste Management Plan (WMP) to the Engineer for approval. The WMP shall describe the arrangements for avoidance, reuse, recovery and recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities and shall take into account the recommended mitigation measures in the Project Profile report. Such a management plan shall incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. All mitigation measures numbered Waste 1 to 6 shall be included in the WMP	Planning for waste reduction, re-use, recycling and proper disposal and form compliance with Waste Disposal Ordnance and other guideline.	To be implemented at the works sites of KT14 during the Construction Phase.	Construction Contractor				WBTC No. 2/93, 2/93B, 16/96, 4/98, 4/98A, 25/99 25/99A, 25/99C, 12/2000, 19/2001 ETWB TC No. 33/2002, 34/2002, 15/2003, 31/2004	
Waste 1	 i) Trip-ticket system – In order to monitor the disposal of C&D and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be included. ii) Records of wastes – A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) shall be proposed. iii) Training – Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling. 	Planning for waste reduction, re-use, recycling and proper disposal and form compliance with Waste Disposal Ordnance and other guideline.	To be implemented at the works sites of KT14 during the Construction Phase.	Construction Contractor				WBTC No. 2/93, 2/93B, 16/96, 4/98, 4/98A, 25/99 25/99A, 25/99C, 12/2000, 19/2001 ETWB TC No. 33/2002, 34/2002, 15/2003, 31/2004	



Waste M	anagement							
Item Ref:	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Design	Implementation S Construction	tage Operation	Relevant Legislation & Guidelines
Waste 2	Site Clearance Waste / Demolition Waste All construction waste shall be sorted on site into inert and non-inert components. Non-inert materials (wood, glass, metals and plastics) shall be recycled or reused and disposed to landfill only as a last resort. Inert materials (soil, rubble, sand, rock, brick and concrete) shall be separated and reused on site prior to final disposal at public filling facilities. The final disposal site for public fill shall be the Public Filling Facility at Tuen Mun Area 38. The final disposal site for construction and demolition waste shall be the North East New Territories (NENT) Landfill.	Planning for waste reduction, re-use, recycling and proper disposal and form compliance with Waste Disposal Ordnance and other guideline.	To be implemented at the works sites of KT14 during the Construction Phase.	Construction Contractor		\checkmark		WBTC No. 2/93, 2/93B, 16/96, 4/98, 4/98A, 25/99 25/99A, 25/99C, 12/2000, 19/2001 ETWB(TC) W No. 33/2002, 34/2002, 15/2003, 31/2004
Waste 3	Excavated Material Any excavated material from the stream shall not be stockpiled, and shall be removed from site on the same day. The material shall be stored in covered impermeable skips while awaiting removal from site. Any leachate from skips shall be treated to meet discharge standard from Government sewers before being collected along with toilet waste by licensed contractor.	Planning for waste reduction, re-use, recycling and proper disposal and form compliance with Waste Disposal Ordnance and other guideline. Planning for waste reduction, re-use, recycling and proper disposal and form compliance with Waste Disposal Ordnance and other guideline.	To be implemented at the works sites of KT14 during the Construction Stage. To be implemented at the works sites of KT14 during the Construction Stage	Construction Contractor during Construction Stage Construction Contractor during Construction Stage		\checkmark		ETWB(TC) W No. 34/2002, WBTC 12/2000 ETWB(TC) W No. 34/2002, WBTC 12/2000



Waste M	anagement							
Item Ref:	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of	Implementation Agent(s)	Implementation Stage Design Construction O		tage Operation	Relevant Legislation &
Waste 4	Recycling the Use of Non-Reusable Materials on Site		Completion of Measures		Design	Construction	operation	Guidelines
	Hoarding, shutters, form works and false works made of reusable materials such as steel or plastic concrete panels shall be used as a preferred alternative to non-reusable materials such as wood and timber, with reference to WBTC No. 19/2001 – Metallic Site Hoarding and Signboards.	Planning for waste reduction, re-use, recycling and proper disposal and form compliance with Waste Disposal Ordnance and other guideline	To be implemented at the works sites of KT14 during the Construction Phase	Construction Contractor		~		WBTC 19/2001
Waste 5	Chemical Waste Any Contractor generating waste oil, lubricants, paints or other chemicals as a result of his activities should register in a chemical waste producer. Storage, handling, transport and disposal of chemical waste should be arranged in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published by EPD. Chemical waste should be collected by licensed collector. The Contractor shall provide a storage area with hard standing, impermeable surface for storing chemicals on site to prevent inadvertent release of waste oil or other chemicals into nearby water bodies. Oil and fuel bunkers should be bunded and/or enclosed on three sides to prevent discharge due to accidental spillages or breaches of tanks. Bunded area should be of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste, whichever is largest. For construction plant that is likely to leak oil, absorbent inert materials e.g. sand, shall be placed beneath it. This material should be replaced on a regular basis and the contaminated material disposed as chemical wastes. Storage areas should have adequate ventilation and be covered to prevent rain entering.	Planning for waste reduction, re-use, recycling and proper disposal and form compliance with Waste Disposal Ordnance and other guideline	To be implemented at the works sites of KT14 during the Construction Phase	Construction Contractor				WDO Waste Disposal (Chemical Waste) General Regulation)



Waste Ma		Objectives of	Location/Duration of	Implementation	Implementation Stage			Relevant
Ref:	Mitigation Measures	Proposed Measures	Measures/Timing of Completion of Measures	Agent(s)	Design	Construction	Operation	Legislation & Guidelines
Waste 5 (Cont'd)	Grease traps shall be installed for site drains. These traps shall be cleared at least once a week. A licensed contractor shall regularly clear the traps and dispose waste oils. No chemicals should be allowed to discharge into water courses, either by direct discharge, or as contaminants carried in surface water runoff from the construction site. Training on safety codes and relevant manuals related to the chemicals stored on site should be obligatory for the personnel who handle the chemicals on site.	Planning for waste reduction, re-use, recycling and proper disposal and form compliance with Waste Disposal Ordnance and other guideline	To be implemented at the works sites of KT14 during the Construction Phase	Construction Contractor		\checkmark		WDO Waste Disposal (Chemical Waste) General Regulation)
Waste 6	Domestic garbage generated by site staff shall be stored at dry locations in covered impermeable skips. It should be collected daily and disposed to the nearest Refuse Collection Point or arranged for collection b licensed contractors. The Engineer is responsible for checking that no chemical waste, sewage, excavated material or sorted reusable material is disposed as domestic garbage.	Planning for waste reduction, re-use, recycling and proper disposal and form compliance with Waste Disposal Ordnance and other guideline	To be implemented at all of KT14 construction site	Construction Contractor		\checkmark		Public Health and Municipal Services Ordinance



Landscape / Visual Impact Mitigation										
Item		Objectives of	Location/Duration of	Implementation	I	Implementation Stage		Relevant		
Ref:	Mitigation Measures	Proposed Measures	Measures/Timing of Completion of Measures	Agent(s)	Design	Construction	Operation	Legislation & Guidelines		
Land 1	A survey of existing trees shall be completed in accordance with Works Branch Technical Circular No. 14/2002. Management and Maintenance of Natural Vegetation and Landscape Works, and Tree Preservation during detailed design stage. The results of the survey shall form consideration in the detail design for the proposed Secondary Channels KT14, in order that any significant trees shall be protected during both the design and construction periods. Parameters assessed in the survey shall include species, health, form, transplant-ability and amenity value (assessed according to form, size, age, condition and situation of the tree). All surveyed trees should be checked with species listed under the "Animals and Plants (Protection of Endangered Species) Ordinance (CAP 187)" and Forestry and Countryside Ordinance (CAP. 96)" to ensure that no endangered species are affected. Where tree felling is unavoidable, compensatory planting proposal shall be prepared and submitted to EPD and LandsD for approval.	Protect visual quality of project area and proposed works Ensure protection of trees. Protect visual quality of project area and proposed works Ensure protection of trees	To be implemented along KT14 during the Detail Design Phase and Construction Phase.	Design Engineer to conduct tree survey during detailed design stage. Construction Contractor to follow the results during construction Design Engineer to conduct tree survey during detailed design stage. Construction Contractor to follow the results during construction	\checkmark	\checkmark		Works Bureau Technical Circular No. 14/2002 Works Bureau Technical Circular No. 14/2002		

Mitigation Measure Implementation Schedule – Landscape / Visual

Note:

- EIAO Environmental Impact Assessment Ordinance
- WDO Waste Disposal Ordinance
- WPCO Water Pollution Control Ordinance
- TMEIA Technical Memorandum on Environmental Impact Assessment Process



Appendix E

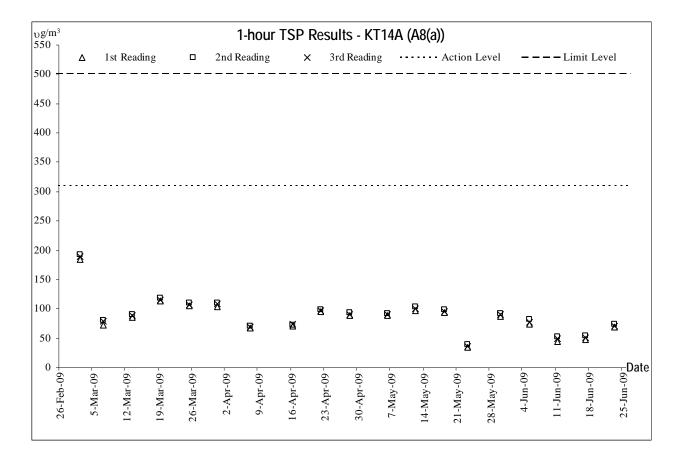
Graphic Plots of

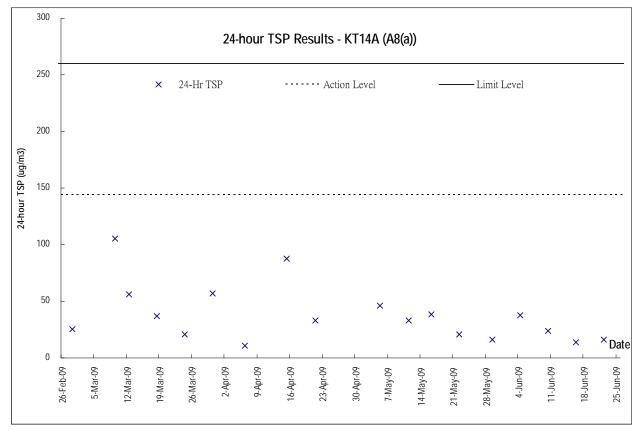
- (a) Air Quality
- (b) Construction Noise
- (c) Water Quality



Air Quality



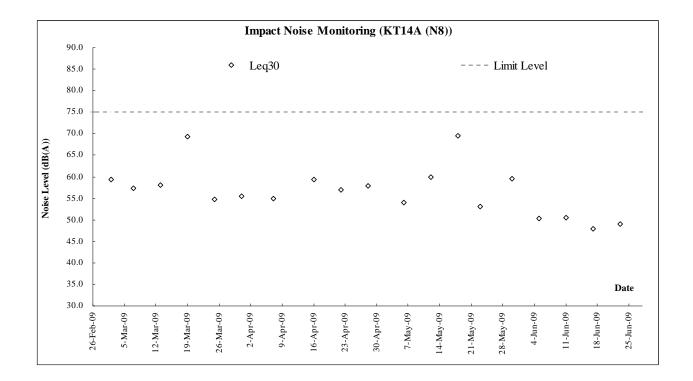






Construction Noise

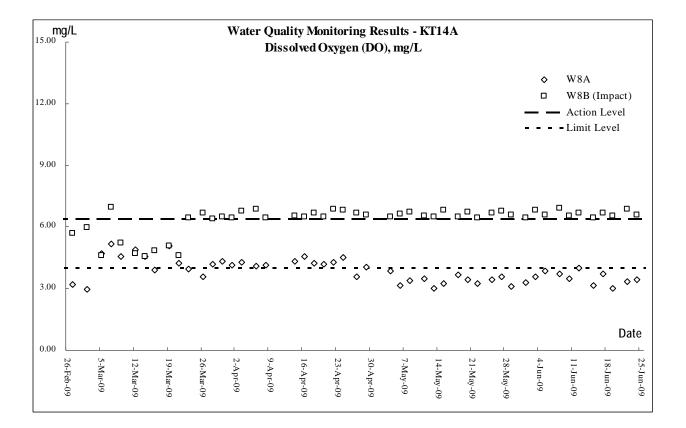


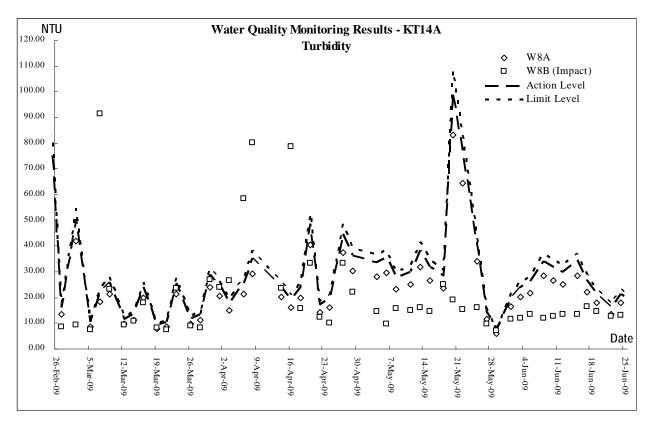




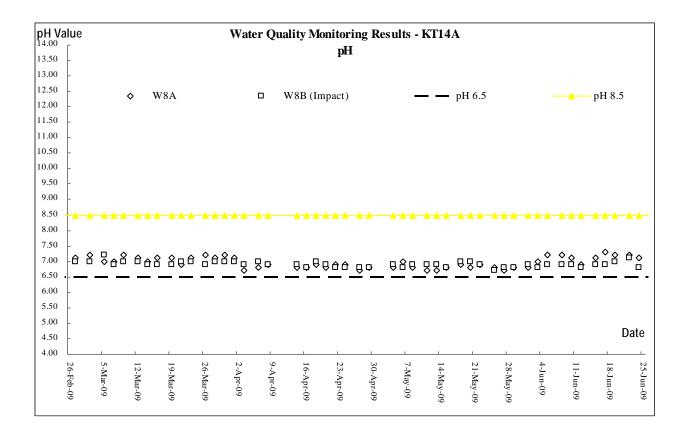
Water Quality

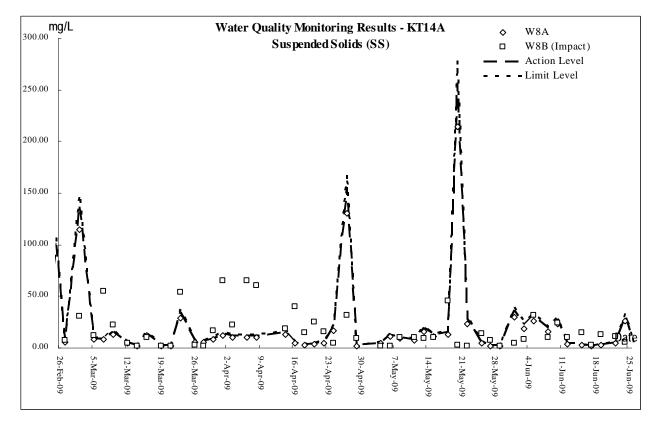




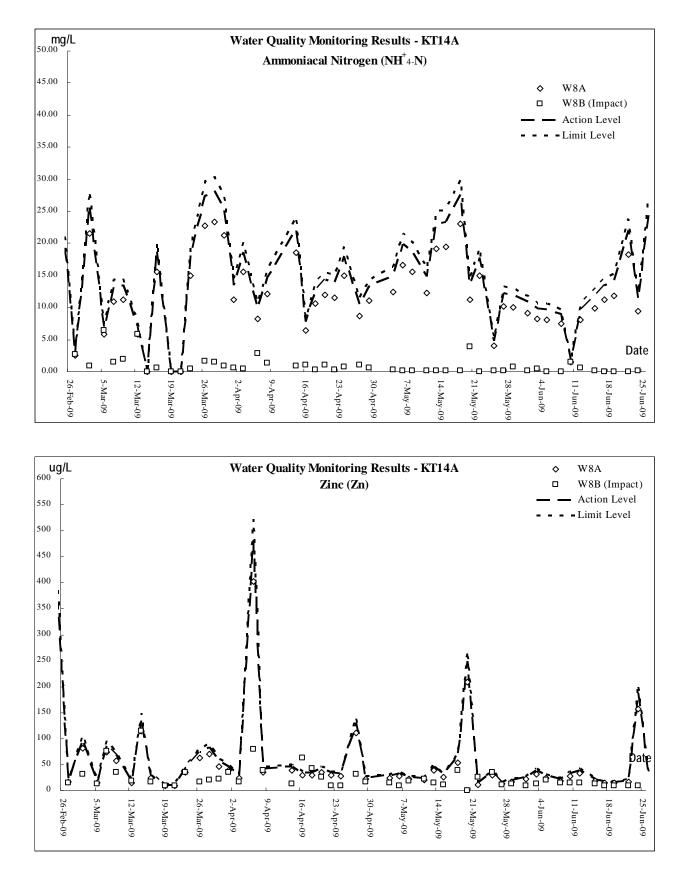








AUES





Appendix F

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table

Date: 30-Jun-09 Year/Month: Jun-09

				Monthly Summa	ary Waste Flov	v Table for Jun	2009					
Year	Actual Quantities of Inert C & D Materials Generated Monthly					Estimated Annual Quantities of C & D Wastes Generated Monthly						
	Total Quantitiy Generated	Broken Concrete (see note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ Cardboard packaging	Plastics (see note 3)	Chemical Waste	Others, e.g. General refuse		
	(in '000M ³)	(in '000M ³)	(in '000M ³)	(in '000M ³)	(in '000M ³)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000M ³)		
Jan	6.716	0.008	6.708	0	0	0	0	0	0	0		
Feb	8.001	0.009	7.632	0.360	0	0	0	0	0	0		
Mar	5.792	0.014	5.778	0	0	0	0	0	0	0		
Apr	6.376	0.004	6.864	-0.492	0	0	0	0	0	0		
May	7.632	0.006	7.674	-0.048	0	0	0	0	0	0		
Jun	6.00	0.008	5.676	-0.498	0.816	0	0	0	0	0		
Sub-Total	40.52	0.049	40.332	-0.678	0.816	0	0	0	0	0		
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
Total	40.519	0.049	40.332	-0.678	0.816	0.000	0.000	0.000	0.000	0.000		

Notes: (1) The performance targets are given in PS Clause 28.10(14)

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam form packaging material

(4) Broken concrete for recycling into aggregates