

DRAINAGE SERVICES DEPARTMENT

CONTRACT NO. DC/2011/06

REPROVISIONING OF BOUNDARY PATROL ROAD AND ASSOCIATED SECURITY FACILITIES BETWEEN PING YUEN RIVER AND PAK FU SHAN AND DRAINAGE WORKS IN NORTH DISTRICT

THIRD QUARTERLY EM&A SUMMARY REPORT FOR ADVANCED WORKS UNDER EP-430/2011 (MARCH - MAY 2013)

PREPARED FOR SANG HING CIVIL CONSTRUCTORS CO., LTD.

Quality Index

Date	Reference No.	Prepared By	Approval By
	TCS00599/12/600/R0122	F. N. Wong	T. W. Tam
		Senior Environmental Consultant	Environmental Team Leader

Version	Date	Description
0	27 June 2013	First submission.
1	3 July 2013	Amended against IEC's comments

This report has been prepared by Action-United Environmental Services & Consulting with all reasonable skill, care and diligence within the terms of the Agreement with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.



Ref.: DSDBPRNDEM00 0 0155L.13

3 Jul 2013

By Post and Fax (2959 6079)

Action-United Environmental Services & Consulting Unit A, 20/F, Gold King Industrial Building, New Territories, Hong Kong

Attention: Mr. TW Tam

Dear Sir,

Re: Contract No. DC/2011/06 Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District Third Quarterly EM&A Summary Report for Drainage Works under EP-430/2011 (March – May 2013)

Reference is made to the Environmental Team's submission of the captioned report (Version 1) dated 3 July 2013 received through E-mail on 3 July 2013 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr. Simon Cheung at 3465 2810.

Yours sincerely,

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Roger Leung Independent Environmental Checker

c.c.	DSD
	SHCCCL

Mr. Eric Cheng Mr. Raymond W.M. Yau by fax: 2827 8700 by fax: 2403 1162

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EXECUTIVE SUMMARY

REPORTING OF THE CONTRACT

- ES01. In order to ease reporting of the Contract, it has been agreed among the Engineer, IEC, Contractor and ET that the EM&A reports for the Contract are split into three stand-alone reports, namely EM&A Report for Advanced Works under EP-430/2011, EM&A Report for Drainage Works under EP-277/2007/A and EM&A Report for Drainage Works at Ma Wat Wai.
- ES02. This is the third quarterly EM&A summary report for Advanced Works under EP-430/2011, covering the construction period of the Works from 1 March to 28 to 31 May 2013.
- *ES03.* The structure of this Report is as follows:
 - EXECUTIVE SUMMARY
 - 1 Introduction
 - 2 *Requirements for Construction Impact monitoring*
 - *3* Environmental monitoring Results
 - *4 Solid and liquid Waste Management*
 - 5 Complaints, Notification of Summons and Successful Prosecution
 - 6 *Conclusions and Recommendations*

<u>Annex</u>

- Annex A Location plan for the Works
- Annex B Environmental Management Organization and Communication Lines
- Annex C Implementation Schedule for Environmental Mitigation Measures
- Annex D Construction Program
- Annex E Monthly Summary Waste Flow Table and Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

NON-CONFORMANCE WITH ENVIRONMENTAL REGULATIONS / STANDARDS

- ES04. No environmental monitoring was performed for the Advanced Works.
- ES05. No non-conformance with environmental regulations/standards was identified during the site inspection in the Reporting Period.

COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES06. No environmental complaints, notifications of summons and successful prosecutions were registered during the Reporting Period.

CONCLUSIONS

ES07. Neither non-conformance with environmental regulations/standards nor written or verbal environmental complaints, notification of summons and successful prosecutions were recorded during the Reporting Period, indicating the implemented environmental mitigation measures were effective and efficient to alleviate adverse environmental impacts generated from the construction activities of the Works.

RECOMMENDATIONS

- ES08. Nevertheless, fully implementation of the required environmental mitigation measures is reminded, in particular construction dust suppression measures during dusty construction activities under dry and windy conditions, as well as water quality mitigation measures during rainy conditions.
- ES09. In addition, attention should also paid to implementation of the construction noise mitigation measures during noisy construction works.



1 BACKGROUND INFORMATION

1.1 **REGULATION OF SHENZHEN RIVER STAGE 4**

- 1.1.1 Changjiang Water Resources Protection Institute (長江水資源保護科學研究所) in association with ERM-Hong Kong Ltd was jointly commissioned by Shenzhen River Regulation Office of Shenzhen Municipal Government (深圳市治理深圳河辨公室) and Drainage Services Department of the HKSAR Government (hereinafter "DSD" or "the Engineer") to undertake an environmental impact assessment study (hereinafter "the EIA") for a construction project *Regulation of Shenzhen River Stage 4*. Layout Plan for the Project is shown in *Annex A*.
- 1.1.2 The *Regulation of Shenzhen River Stage 4* will be constructed under two separate contracts, Advanced Works within the HKSAR and River Modification Works within both the HKSAR and the Shenzhen Municipality, comprising:
 - 1) Improvement of an approximately 4.5 km long section of Shenzhen River;
 - 2) Re-provision of the boundary patrol road and about 4.5km of boundary fence affected by the Project;
 - 3) Dry weather flow interception of the sewage discharging from Shenzhen side into the Project area; and
 - 4) The associated landscaping works.
- 1.1.3 The construction programme proposed in the EIA is summarized in *Table 1-1* as follow

Table 1.1 Summary of Construction Programme for the Project

Item	Phase	Period	Duration	Works Description
1	Advanced Works	February 2012 to January 2015	36 months	Construction of boundary fence and boundary patrol road on HK side
2	Preparation	March to July 2013	5 months	Tendering; land resumption
3	Reconstruction	August to September 2013	2 months	Construction of site access roads and site office, site clearance, site preparation works etc.
4	Construction	October 2013 to December 2016	39 months	Main construction works of the Project such as dredging of river sediment and soil excavation, construction of flood retardation pond, boundary fence and boundary patrol road on Shenzhen side, river modification works, dry weather flow interception works etc.
5	Post- construction	January to March 2017	3 months	Demolition of temporary structures, landscaping works etc.

1.2 DSD CONTRACT NO. DC/2011/06

- 1.2.1 Sang Hing Civil Contractors Company Limited (hereinafter "SHCCCL" or "the Contractor") has been awarded by Drainage Services Department of the HKSAR Government (hereinafter "DSD" or "the Engineer") since 31 March 2012 DSD Contract No. DC/2011/06 Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District (hereafter "the Contract").
- 1.2.2 The Contract comprises:
 - A. <u>Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen</u> <u>River and Pak Fu Shan</u>, which is one of the two parts of Regulation of Shenzhen River Stage 4, i.e. the Advanced Works within the HKSAR to be implemented under Environmental Permit No. EP-430/2011 (hereinafter "EP-430/2011") (hereinafter "the Advanced Works under EP-430/2011" or "the Works"). The Works include:
 - 1) Reprovisioning of approximately 4.3 kilometres (km) long and 3.5 metres (m) wide boundary patrol road between Ping Yuen River and Pak Fu Shan;
 - 2) Reprovisioning of approximately 4.3 km long primary boundary fence with associated lighting and Fence Protection System between Ping Yuen River and Pak Fu Shan;
 - 3) Reprovisioning of the Hong Kong Police Force Lo Fong Bridge Post; and
 - 4) Construction of about 3.3 km long secondary boundary fence.
 - B. Drainage Works in North District to be implemented under Environmental Permit No. EP-<u>277/2007/A</u>, which has been commenced in May 2012 and is scheduled to be completed by May 2013, including



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- Construction of about 400m of drainage channel at Man Uk Pin under Environmental Permit No. 1) EP-277/2007/A (hereinafter "EP-277/2007/A");
- 2) The associated ancillary works including drainage and landscaping works.
- Drainage Works in North District, which is a non-designated project of drainage works at Ma С. Wat Wai in North District for construction of about 110 m of drainage channel at Ma Wat Wai.
- 1.2.3 Drawing of the area within the Works showing is shown in Annex A, whereas project organization, environmental management structure and communication lines, including contacts of key personnel under the Contract as well as the 3-monthly rolling program covering the Reporting Period are shown in Annex B.
- 1.2.4 Construction of the Advanced Works under EP-430/2011 has been commenced on 21 August 2012, and are scheduled to be completed in August 2014 within 29 months.

CONCURRENT PROJECTS IN THE VICINITY OF THE WORKS

- 1.3 The following projects are anticipated to be carried out concurrently in the vicinity of the Works:
 - The River Modification Works within HKSAR, which is part of the Regulation of Shenzhen 1) River Stage 4 and to be implemented under EP-430/2011, is scheduled for commencement in mid-2013.
 - 2) The development of the proposed Liantang/Heung Yuen Wai Boundary Control Point (hereinafter "the LT/HYW BCP") and the associated works. It is anticipated that the construction of the LT/HYW BCP and connecting roads will commence at the end of 2013 and be completed in end 2018. The planned construction period for the resite of Chuk Yuen Village is from late 2010 to early 2012 for population intake by early 2013.
 - Construction of a Secondary Boundary Fence and New Sections of Primary Boundary fence and 3) Patrol Road. Based on the advice from ArchSD, the latest tentative construction programme shall be from end 2011 to early 2013 (section from Ng Tung River to Ping Yuen River) and from end 2011 to end 2013 (section from Pak Fu Shan to Lin Ma Hang Road).
 - Drainage Improvement in Northern New Territories, Package C (Remaining Works). The 4) construction work is scheduled to commence in late 2012 and completed by 2016.

CUMULATIVE ENVIRONMENTAL IMPACTS

- 1.4 As concluded in the EIA report for Regulation of Shenzhen River Stage 4, adverse environmental impacts generated from the River Modification Works within HKSAR are predicted to be minimal provided the required environmental mitigation measures are fully implemented.
- 1.5 There is a potential of cumulative environmental impacts during construction phase, including construction dust, noise, water quality, waste, ecology and landscape and visual, to be generated from the concurrent works LT/HYW BCP and the associated works as well as construction of a secondary boundary fence and new sections of primary boundary fence and patrol road.
- However, as the schedules and programs of those concurrent projects are subject to private initiatives 1.6 and market-driven factors, it is not possible to assess the cumulative impact at this stage.
- 1.7 On the other hand, the Drainage Improvement in Northern New Territories, Package C (Remaining Works) project is subject to another future detailed EIA Study and detailed construction program is not available to date. The cumulative impact cannot be assessed at this stage. However, since the drainage improvement works is located at about 500 m from the Site and given its nature and scale of works, adverse cumulative environmental impacts are not anticipated.

2 SUMMARY OF EM&A REQUIREMENTS FOR THE WORKS

2.1 **CONSTRUCTION ACTIVITIES UNDER THE WORKS**

- 2.1.1 Construction activities under the Works comprise:
 - Approximately 4,300 m of 3.5 m wide Boundary Patrol Road on filled embankment along the 1) Shenzhen River from Ping Yuen River estuary and Pak Fu Shan, Ta Kwu Ling; Approximately 4,300 m of Primary Boundary Fence with XPM mesh; Approximately 3,300 m of Secondary Boundary Fence with XPM mesh; Approximately 4,300 m of border security lighting system including the associated electrical and
 - 2) 3)

 - 4) mechanical works;
 - 4 box culverts and 12 drainage pipes under the proposed Boundary Patrol Road, and the associated 5) inlets and outlets; Reconstruction of Lo Fong Bridge Post for Hong Kong Police Force;
 - 6) 7)
 - Peripheral drainage system associated with the above items;



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- 8) Irrigation systems including associated electrical and mechanical works;
- 9) Landscaping works and environmental mitigation works;
- 10) Other ancillary works associated with the above items;
- 2.1.2 The construction areas under the Works are divided into the following three portions:
 - 1) Portion A Area between CH_R 0+000 and 2+050 for reprovisioning of Boundary Patrol Road and the associated security facilities;
 - 2) Portion B Area between CH_R 2+050 and 2+840 for reprovisioning of Boundary Patrol Road and the associated security facilities;
 - 3) Portion C Area between CH_R 2+840 and 4+300 approximately for reprovisioning of Boundary Patrol Road and the associated security facilities;

2.2 EM&A REQUIREMENTS FOR THE WORKS

CONSTRUCTION PHASE

2.2.1 The EIA report has concluded that, with full implementation of the recommended environmental mitigation measures, adverse environmental impacts are not envisaged during construction and operation of the Works. No environmental monitoring is therefore required for air quality, noise, water quality, ecology, cultural heritage as well as landscape and visual throughout the whole construction phase of the Works.

OPERATIONAL PHASE

2.2.2 No environmental monitoring and audit is required during operational phase of the Works.

BASELINE ENVIRONMENTAL MONITORING

2.2.3 Baseline monitoring is required for establishment of the environmental quality criteria, i.e. Action/limit Levels, for the River Modification Works under EP-430/2010. The baseline monitoring was conducted upon confirmation of the acquirement of all access to the monitoring locations for air quality including 1-Hr and 24-Hr TSP and construction noise.

ENVIRONMENTAL QUALITY PERFORMANCE CRITERIA

2.2.4 The Action and Limit Levels have been established and presented in the *Baseline Environmental Monitoring Report* submitted to EPD after completion and upon certification by the ET and verification by the IEC, using the data obtained in the baseline environmental monitoring.

EVENT & ACTION PLAN

2.2.5 The Event and Action Plan (EAP) recommended in the EIA and summarized in the EM&A Manual will be used as a monitoring and response mechanism for handling exceedances of environmental standards during the construction phase of the River Modification Works in collaboration with relevant parties of other concurrent projects in the vicinity during construction of River Modification Works.

SITE INSPECTION

- 2.2.6 The ET will undertake site inspection of on-site practices and procedures each month. Joint site inspection is required to be conducted by related parties of the environmental management to verify the implementation status and evaluate the effectiveness and stability of the environmental mitigation measures, in collaboration with relevant parties of other concurrent projects in the vicinity.
- 2.2.7 Details of the scope and range of issues to be designed and addressed in the site inspection are presented in *Section 6* of this Report.

ENVIRONMENTAL REPORTING OF THE WORKS

- 2.3 In order to ease environmental reporting of the Contract, it has been agreed among the Engineer, IEC, Contractor and ET that the environmental reporting for the Contract is split into three stand-alone reports, namely Environmental Report for Advanced Works under EP-430/2011, EM&A Report for Drainage Works under EP-277/2007/A and EM&A Report for Drainage Works at Ma Wat Wai. They will be prepared and submitted separately.
- 2.4 This is the third Quarterly EM&A Summary Report for the Works (herein after "this Report"), covering construction period from 1 March to 31 May 2013 (hereinafter "the Reporting Period").

3 DATA MANAGEMENT AND DATA QA/QC CONTROL

3.1 The impact monitoring data is handled by the ET's systematic data recording and management, which complies with an in-house certified (ISO 9001:2000) Quality Management System. Standard Field Data Sheets (FDS) are used in the EM&A program.



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- 3.2 The monitoring data recorded in the equipment e.g. 1-Hour TSP meters and noise meters are downloaded directly at the end of each monitoring day. The downloaded monitoring data are input into a computerized database properly maintained by the ET. The laboratory results are input directly into the computerized database and QA/QC checked by personnel other than those who input the data.
- 3.3 For monitoring activities which require laboratory analysis, the responsible laboratory, ALS, follows the QA/QC requirements as set out under their HOKLAS scheme for all laboratory testing.

4 ENVIRONMENTAL LICENSES AND PERMITS

4.1 Status of environmental licenses and permit is summarized in the following *Table 4-1*.

Table 4-1Status of Environmental Licenses and Permit

Permit Type	Licenses / Permit No.	Date Issued by EPD	Expiry Date	Concerned Location	Status
Environmental Permit	EP-430/2011	09 July 2007	N.A.	Ping Yuen River	Valid
Notification pursuant to Section 3(1) of the Air Pollution Control Ordinance (APCO) (Construction Dust) Regulation	N.A.	N.A.	N.A.	Contract Area: Man Uk Pin, Ma Wat Wai & Ping Yuen River	Notification was made on 28 May 2012
Account for Disposal of Construction Waste	7015003	07 May 2012	N.A.	Contract Area: Man Uk Pin, Ma Wat Wai & Ping Yuen River	Valid
Application for Wastewater Discharge License under Water Pollution Control Ordinance (WPCO)	W5/1G41/1	3 October 2012	31 October 2017	Portions A, B and C near Lin Ma Hang Road, Ta Kwu Ling, N.T.	Valid
Register as a Chemical Waste Producer under Waste Disposal Ordinance	5123-642- S3565-03	3 October 2012	N.A	3 October 2012	N.A

SUBMISSION OF LAYOUT PLANS

4.2 Pursuant to *Clause* 2.7 of EP-430/2011, 3 sets of the Layout Plans of scale 1:1000 with an explanatory statement detailing the works schedule, works boundary and the works areas have been submitted since 21 July 2012 to the Director of Environmental Protection of the HKSAR Government (hereinafter "DEP") upon certification by the ET Leader and verification by the Independent Environmental Checker (hereinafter "the IEC") as confirming to the information and recommendations contained in the EIA report.

SUBMISSION OF LANDSCAPE PLAN

4.3 Pursuant to *Clause 2.8* of EP-430/2011, 3 sets of the Landscape Plan have been submitted to the Director of Environmental Protection of the HKSAR Government (hereinafter "DEP") since 21 July 2012 upon certification by the ET Leader and verification by the IEC as confirming to the information and recommendations contained in the approved EIA report.

SUBMISSION OF UPDATED ENVIRONMENTAL MONITORING AND AUDIT MANUAL

4.4 Pursuant to *Clause 2.10* of EP-430/2011, an updated environmental monitoring and audit manual for the Project, namely Updated EM&A Manual for Advanced Works under EP-430/2011 (hereinafter "the Updated EM&A Manual"), has been submitted since 21 May 2012 to the DEP upon certification by the ET Leader and verification by the Independent Environmental Checker (hereinafter "the IEC") as confirming to the information and recommendations contained in the approved EIA report.

CONSTRUCTION ACTIVITIES

4.5

CONSTRUCTION ACTIVITIES DURING THE REPORTING PERIOD

- Major construction activities are detailed in the construction program enclosed in Annex D, including:
 - 1) Pruning, felling and transplanting of existing trees;
 - 2) Setting out of structure /fence/gate, underground utility detection and laying of blinding layer;
 - 3) Construction of base slabs, wall stems, drain pipe, box culvert and deep well;
 - 4) Installation of drain pipe and the associated manholes, extension of existing drain pipe;
 - 5) Temporary road diversion, filling works, road works and installation of temporary fence footing, fill rock embankment for eroded portion, road formation, pavement and EMSD cable diversion;



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- 6) Construct ion of wheel washing bay at Gate 58 and CH1+800;
- 7) Construction of primary and secondary fence footing;
- 8) Fill between security fence footing; and
- 9) Erection of permanent security fence;

EM&AACTIVITIES

BASELINE MONITORING AND ESTABLISHMENT OF ENVIRONMENTAL QUALITY CRITERIA

4.6 The baseline environmental monitoring of air quality and construction noise for the River Modification Works within the HKSAR was completed and the associated environmental quality criteria, i.e. A/L Levels of the monitored parameters, has been proposed in the baseline monitoring report, which was submitted to EPD upon verification by the IEC.

IMPACT MONITORING

4.7 No environmental monitoring was conducted during the Reporting Period.

5 WASTE MANAGEMENT

- 5.1 Pursuant to the Updated EM&A Manual, the waste management during the Reporting Period was carried out in close accordance with the Waste Management Plan, which has been submitted since 20 August 2012 to the Engineer for approval prior to commencement of the Works upon certification by the ET Leader and verification by the IEC.
- 5.2 The quantity of waste for disposal or reuse during the Reporting Period was summarized in Monthly Summary of Waste Flow Table and Disposal Records of Construction Waste in *Annex K*.
- 5.3 To ensure satisfactory performance of the waste management, the Contractor is reminded to comply with all relevant regulatory waste management requirements, including as appropriate those stipulated in the effluent discharge licenses and chemical waste producer registration, etc. The Contractor is also required to fully implement all the waste management mitigation measures recommended in the Updated EM&A Manual.
- 5.4 Where possible, construction materials should be reused on-site as far as practicable to reduce the construction waste, which should then be sorted or classified on site for proper recycling and disposal as recommended in the Environmental Management Plan and the associated Waste Management Plan.

6 SITE INSPECTION

6.1 Monthly site inspection was jointly conducted by representatives of the Engineer, IEC, ET and Contractor. During the Reporting Period, three occasions of the site inspection and audit were conducted on **7 March**, **26 April** and **24 May 2013** respectively.

FINDINGS/DEFICIENCIES OF THE SITE INSPECTION AND ENVIRONMENTAL AUDIT

6.2 Findings or deficiencies identified during the site inspection are summarized in *Table 6-1*.

 Table 6-1
 Observations of Site Inspection during the Reporting Period

Date	Findings / Deficiencies	Follow-Up
7 March 2013	No adverse environmental impacts were observed during the inspection. However, full implementation of the required environmental mitigation measures is reminded.	Not required for general reminders
26 April 2013	Stagnant water due to heavy rain was observed within the site. Clearance of the stagnant water after rain is required to prevent mosquito breeding. In addition, appropriate pre-treatment prior to discharge is reminded.	Situation was rectified by 24 May 2013.
24 May 2013	No adverse environmental impacts were observed during the inspection. However, full implementation of the required environmental mitigation measures is reminded.	Not required for general reminders

6.3 Site inspection checklists completed and endorsed by all related parties are kept by the ET and are available for inspection upon request.

DISCUSSION AND CONCLUSION

6.4 No deficiencies and non-compliance with the relevant regulatory requirements were identified during the regular site inspection and environmental audit, indicating no adverse environmental impacts were generated from the construction of the Works.

RECOMMENDATION

6.5 Although no adverse environmental impacts were identified during the regular site inspection and environmental audit conducted by representatives of the Engineer, IEC, ET and Contractor, full implementation of the recommended environmental mitigation measures, particularly construction dust



suppression measures e.g. watering during dusty activities under dry and windy conditions, as well as sedimentation of the site run off during rainy conditions, are reminded.

7 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

7.1 No environmental complaint was received during the Reporting Period. Summary of environmental complaint is presented in *Table 7-1* below.

Table 7-1Summary of Environmental Complaints

Departing Month	Environmental Complaint Statistics			
Reporting Month	Frequency	Cumulative	Complaint Nature	
December 2012 to February 2013	0	0	Not Applicable	
March to May 2013	0	0	Not Applicable	

7.2 No summons and prosecution was received during the Reporting Period. Summary of summon and prosecution is presented in *Table 7-2* and *Table 7-3* below.

Table 7-2Summary of Environmental Summons

Reporting Month	Environmental Summons Statistics			
Reporting Month	Frequency	Cumulative	Nature	
December 2012 to February 2013	0	0	Not Applicable	
March to May 2013	0	0	Not Applicable	

Table 7-3Summary of Environmental Prosecution

Departing Month	Environmental Prosecution Statistics			
Reporting Month	Frequency	Cumulative	Nature	
December 2012 to February 2013	0	0	Not Applicable	
March to May 2013	0	0	Not Applicable	

8 IMPACT FORECAST

KEY ENVIRONMENTAL ISSUES

- 8.1 Potential environmental issues to be considered in the coming month include:-
 - 1) Air quality In dry season under dry and windy conditions, dusty construction activities may generate potential construction dust impacts and dry/loose/exposure soil surface/stock piles of dusty material within the site may pose fugitive dust under dry and windy weather conditions;
 - 2) Water quality In wet season, surface runoff during heavy storm/rain may pollute the surrounding water bodies with high suspended solids or turbidity, and concrete washing may increase alkalinity or pH value of the water bodies;
 - 3) Chemical oil & grease spillage or leakage from construction equipment and the associated oil containers within site areas may contaminate lands or other environment;
 - 4) Noise Construction noise impacts may be caused from noisy construction activities;

ENVIRONMENTAL MITIGATION MEASURES FOR THE COMING MONTH

- 8.2 Environmental Mitigation Measures to be considered in the coming month includes:-
 - 1) Dust suppression measures, in particular proper watering during dusty construction activities under dry and dusty conditions, should be fully implemented;
 - 2) Sedimentation or silt removal facilities of adequate capacity should be used, for proper treatment of any site effluent generated from stockpiles of construction materials/waste or dusty haul roads or excavated surfaces within the site during storm rain, prior to discharge to nearby water bodies in order to remove suspended solids or turbidity;
 - 3) Good management of chemical wastes should be maintained;
 - 4) Follow-up actions for any defects identified during regular site inspection should be promptly taken to rectify the situation; and
 - 5) As high noise levels were sometimes recorded during the Reporting Period, special attention is drawn to implementation of the construction noise mitigation measures during noisy construction works.



9 CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

- 9.1 No environmental monitoring was conducted during the Reporting Period.
- 9.2 No non-compliance with the regulatory requirements was recorded in the IEC and ET regular site inspection jointly conducted by representatives of the Engineer, IEC, ET and Contractor during the Reporting Period, indicating no adverse environmental impacts were generated from construction activities under the Works during the Reporting Period.
- 9.3 Defects of minor environmental significance were sometimes observed. The identified defects were normally rectified on site or within the specified time prior to the next site inspection.
- 9.4 No environmental complaint, notification of summons or successful prosecution was registered during the Reporting Period.

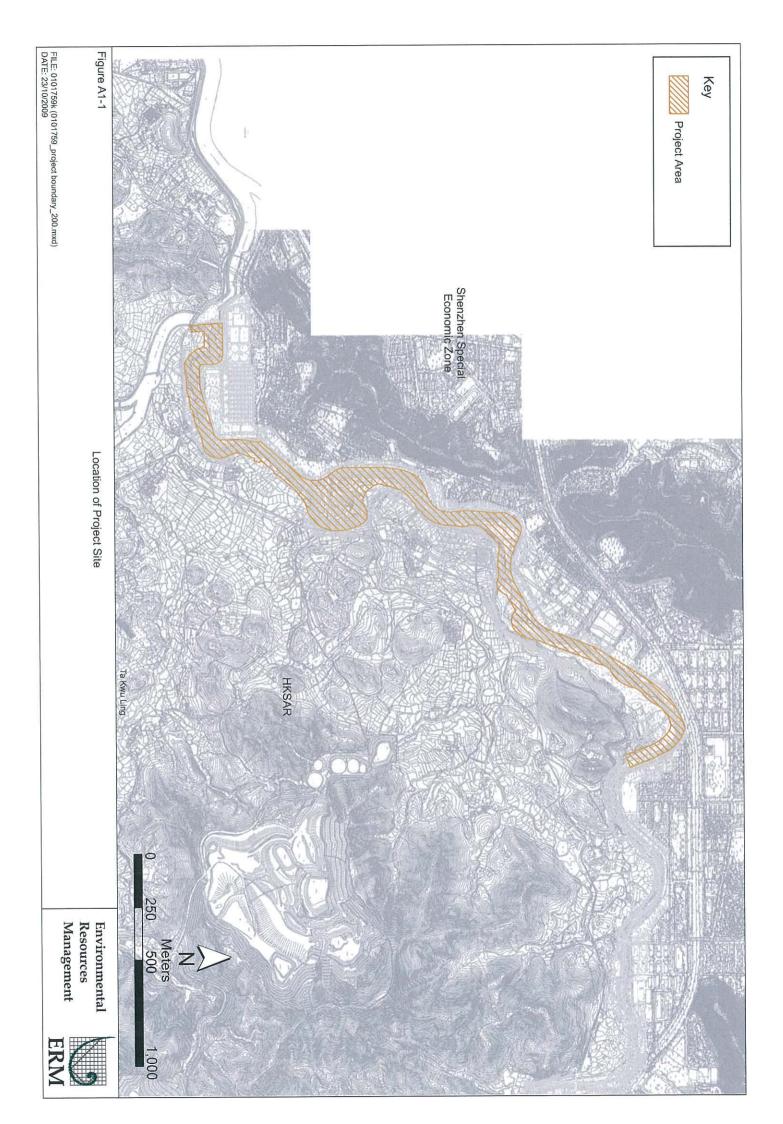
RECOMMENDATION

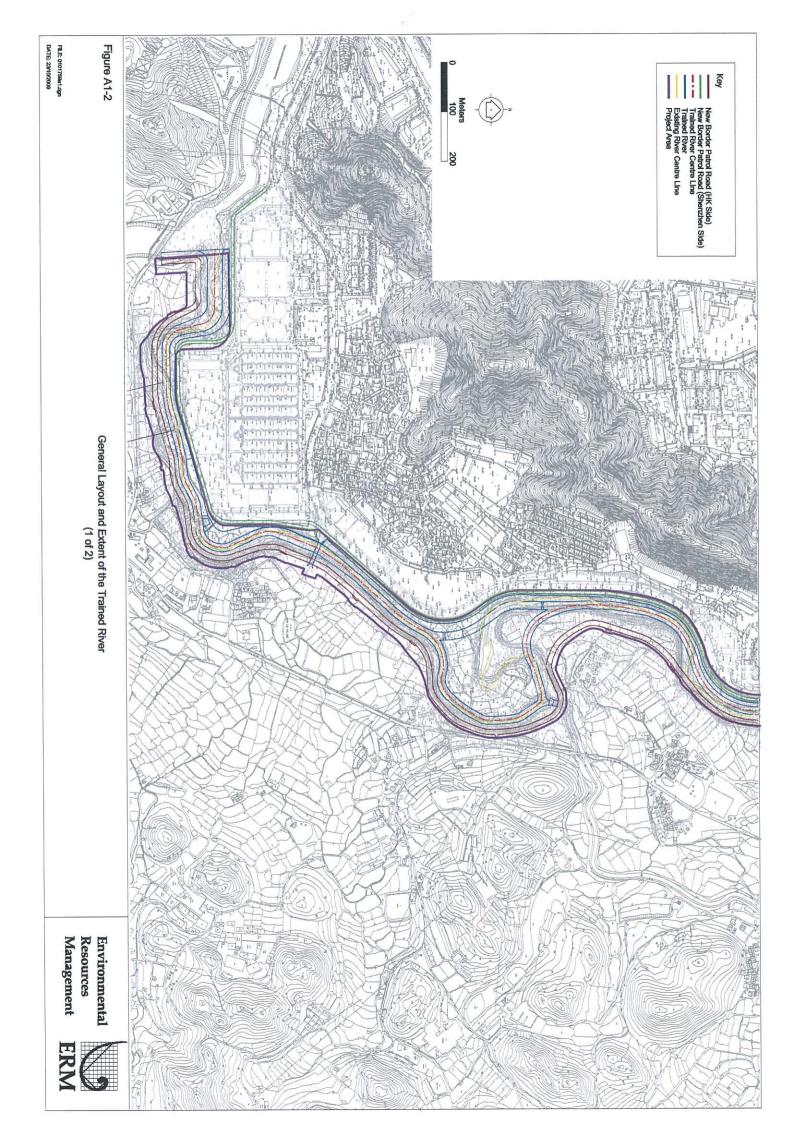
- 9.5 The Contractor is reminded to fully comply with all the relevant regulatory environmental requirements, including environmental mitigation measures stipulated in all the environmental ordinances, EM&A Manual, EMP and the associated WMP, effluent discharge license and the chemical waste producer registration, etc.
- 9.6 Attention is drawn to implementation of air quality mitigation measures, in particular construction dust suppression measures during dusty construction activities under dry and windy conditions.
- 9.7 In addition, full implementation of the required water quality mitigation measures is reminded to eliminate adverse water quality impacts generated from site water runoff, surfaces of haul roads, stock pile of excavated materials, etc.
- 9.8 Attention is also drawn to implementation of the construction noise mitigation measures during noisy construction works.

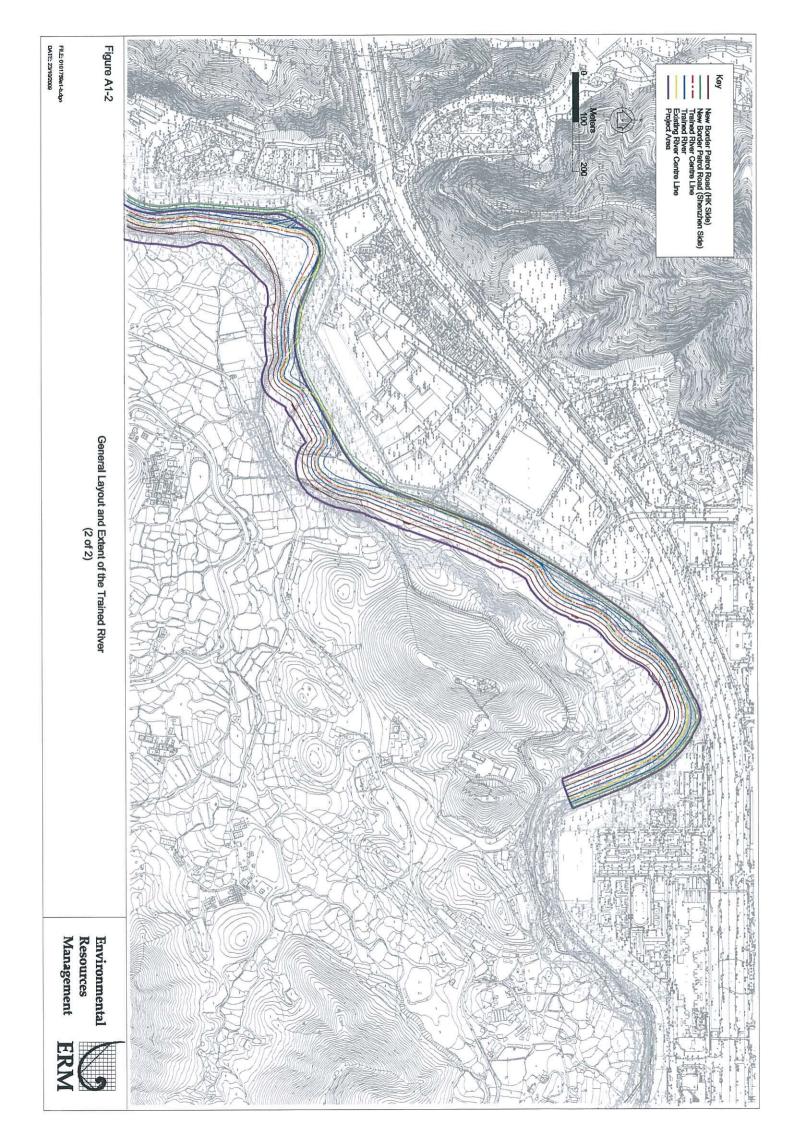


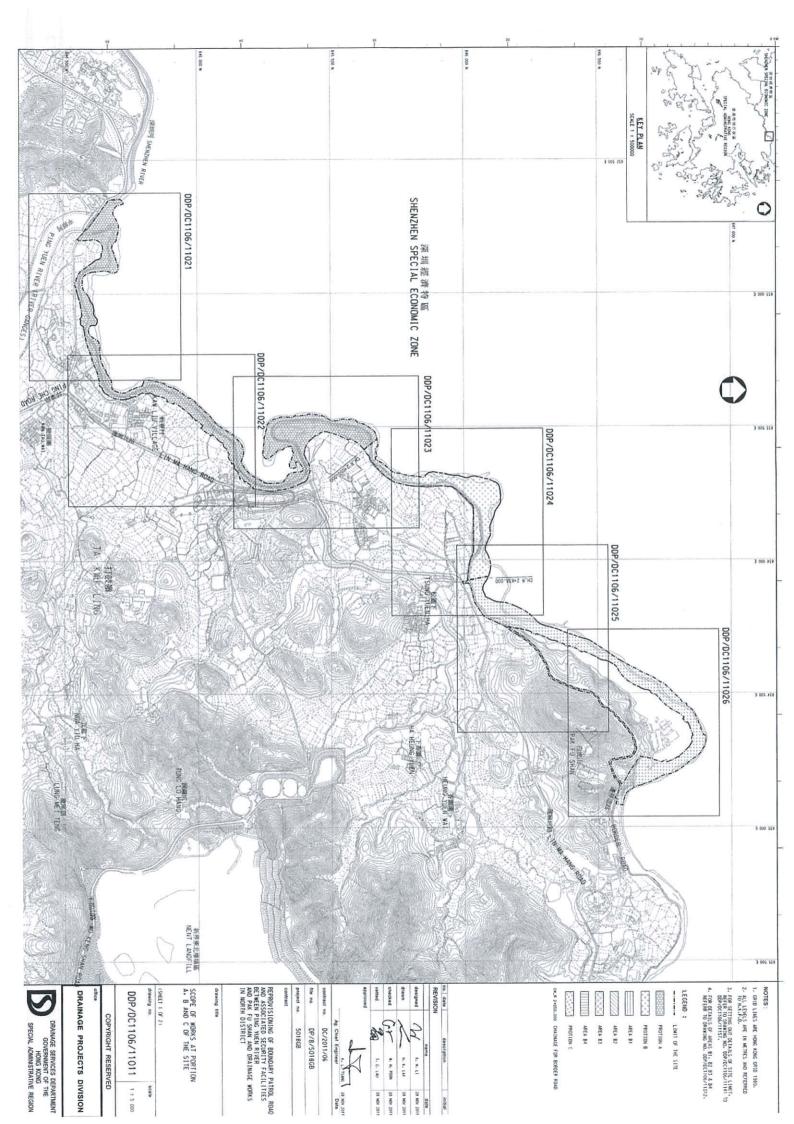
ANNEX A

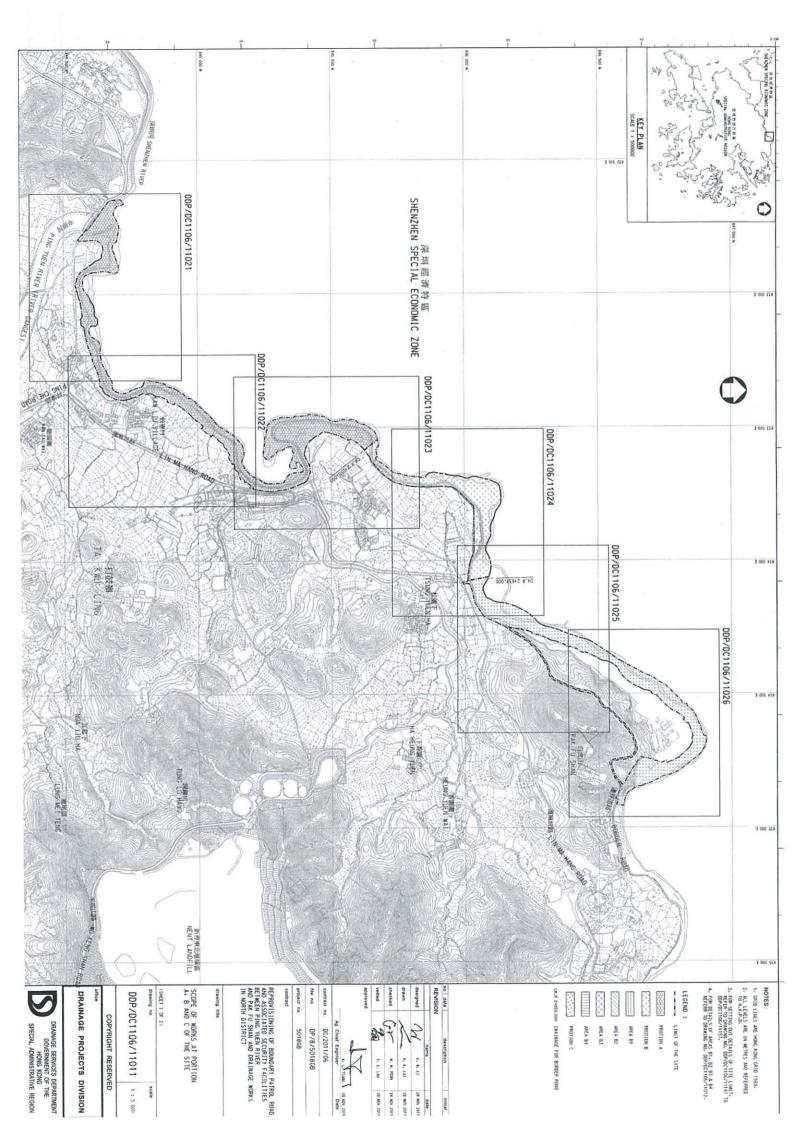
LOCATION PLAN FOR THE WORKS

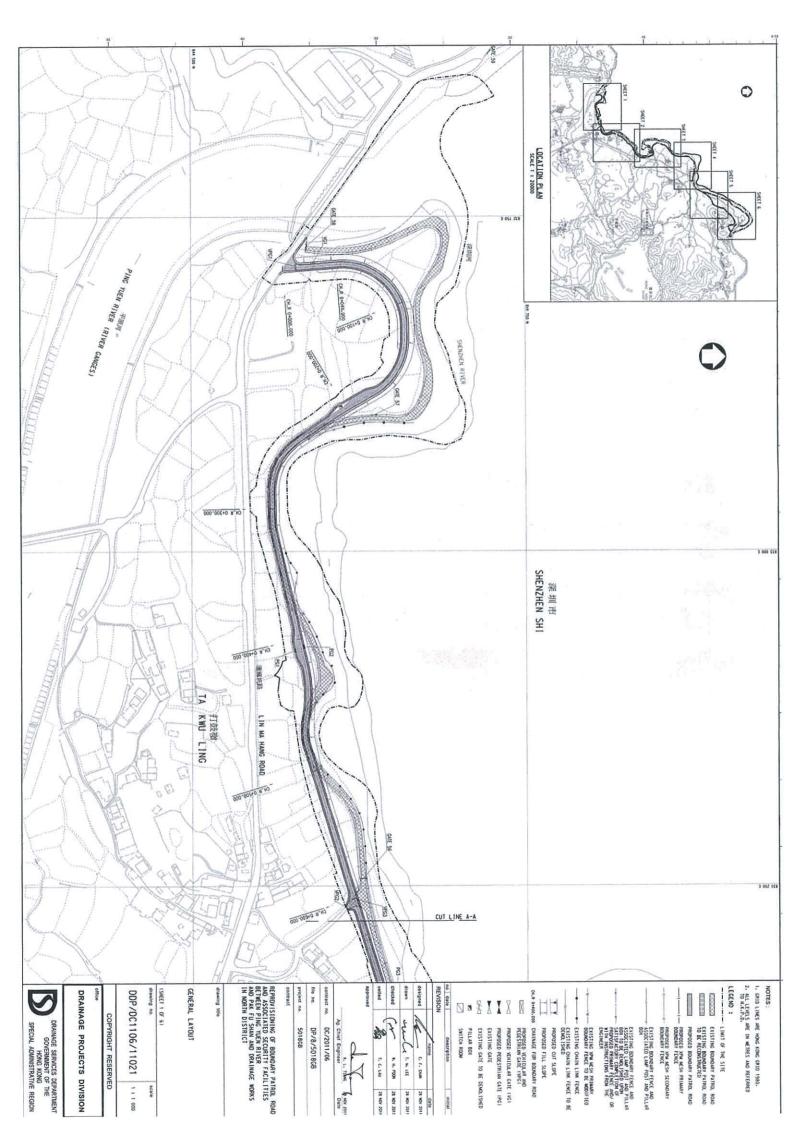


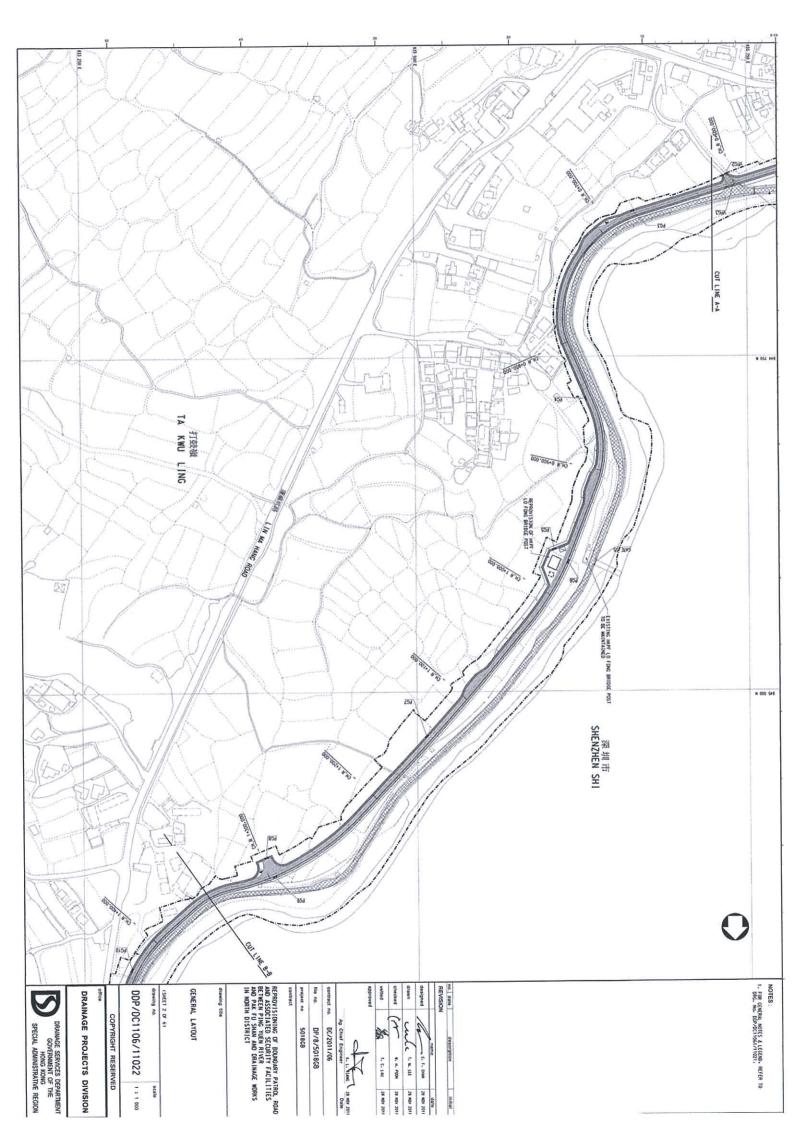


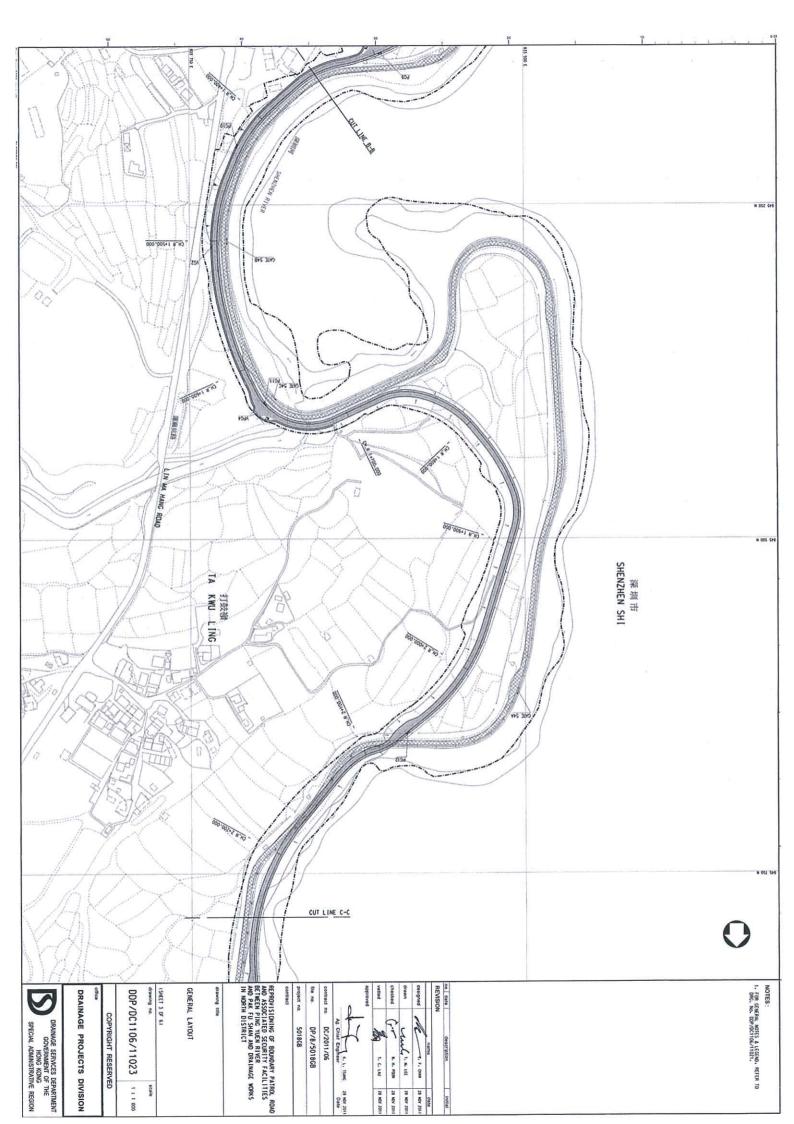


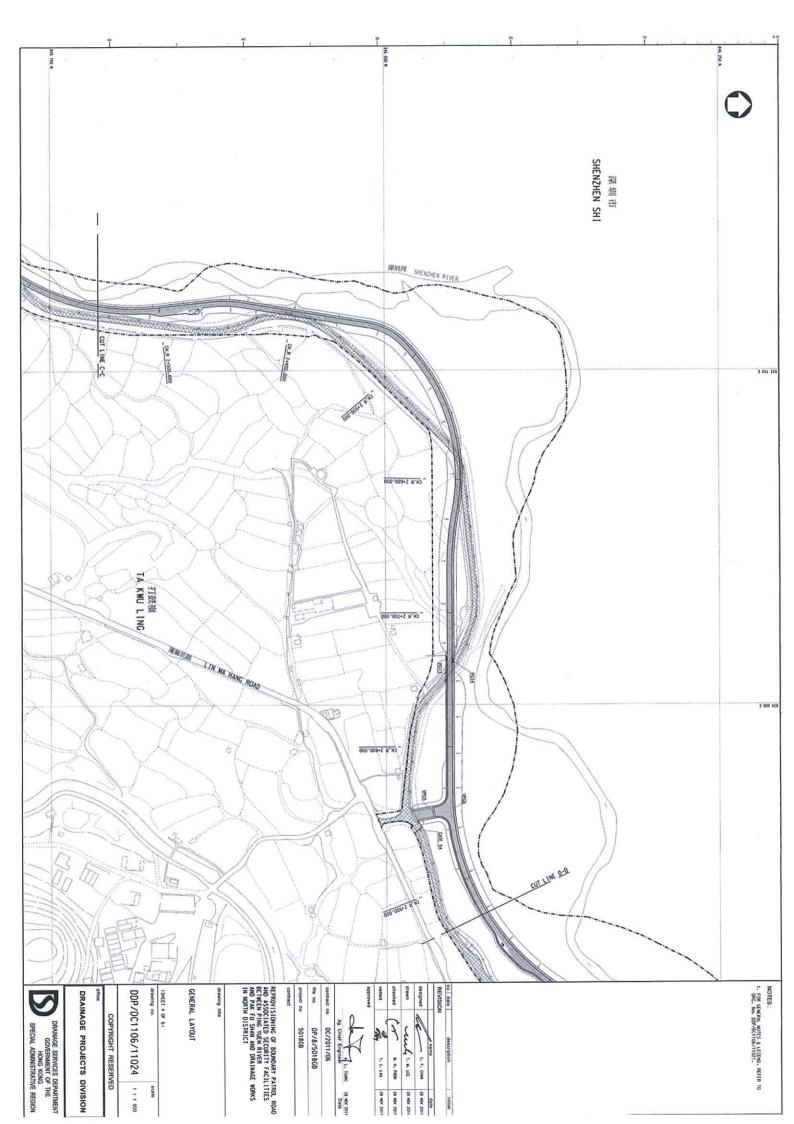


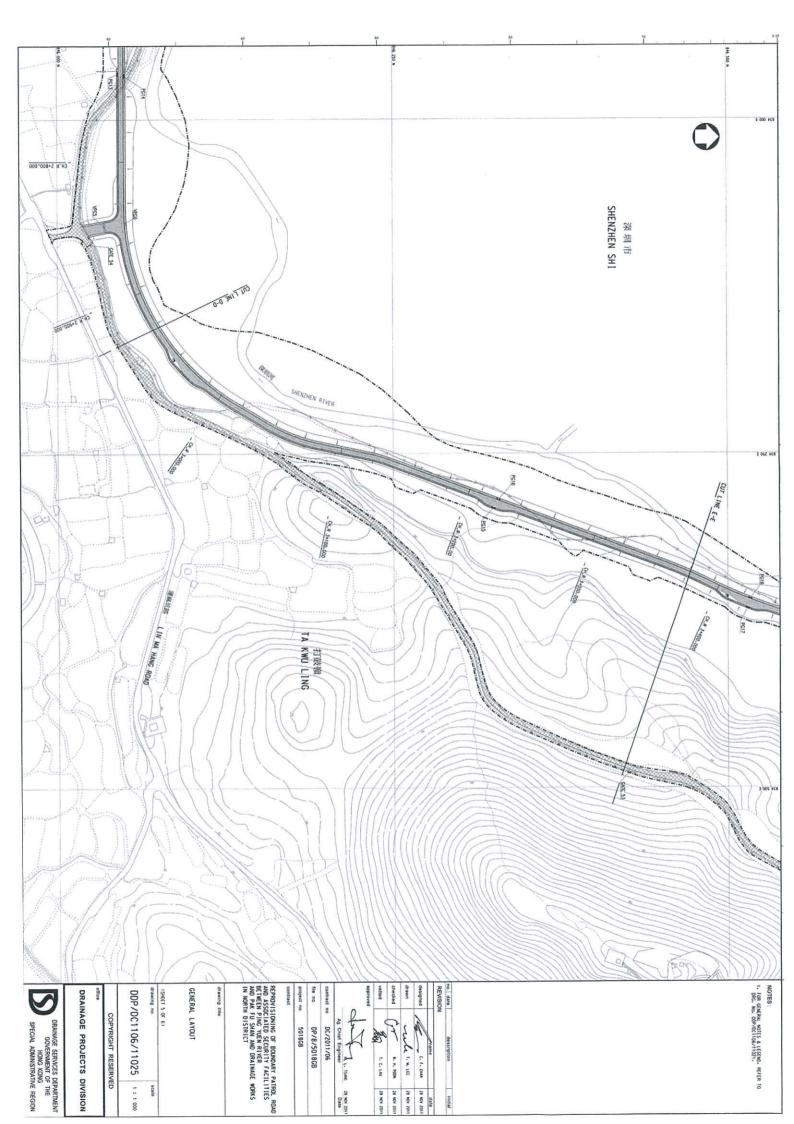


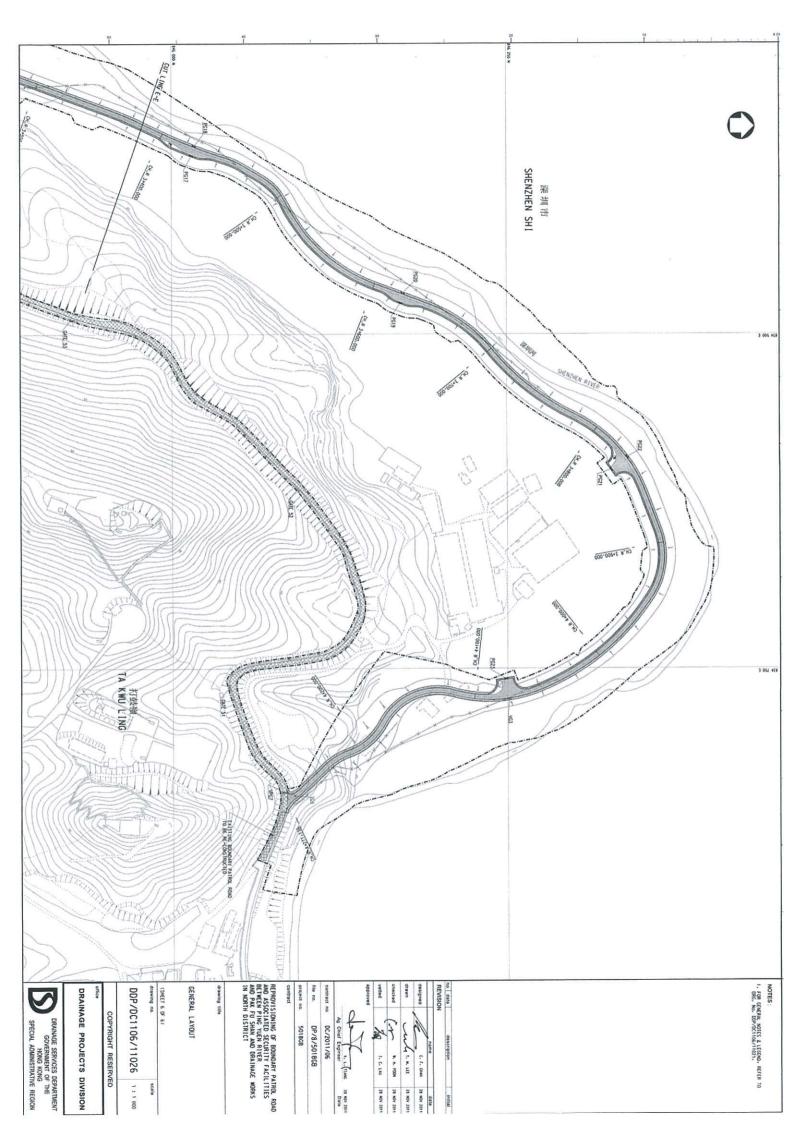








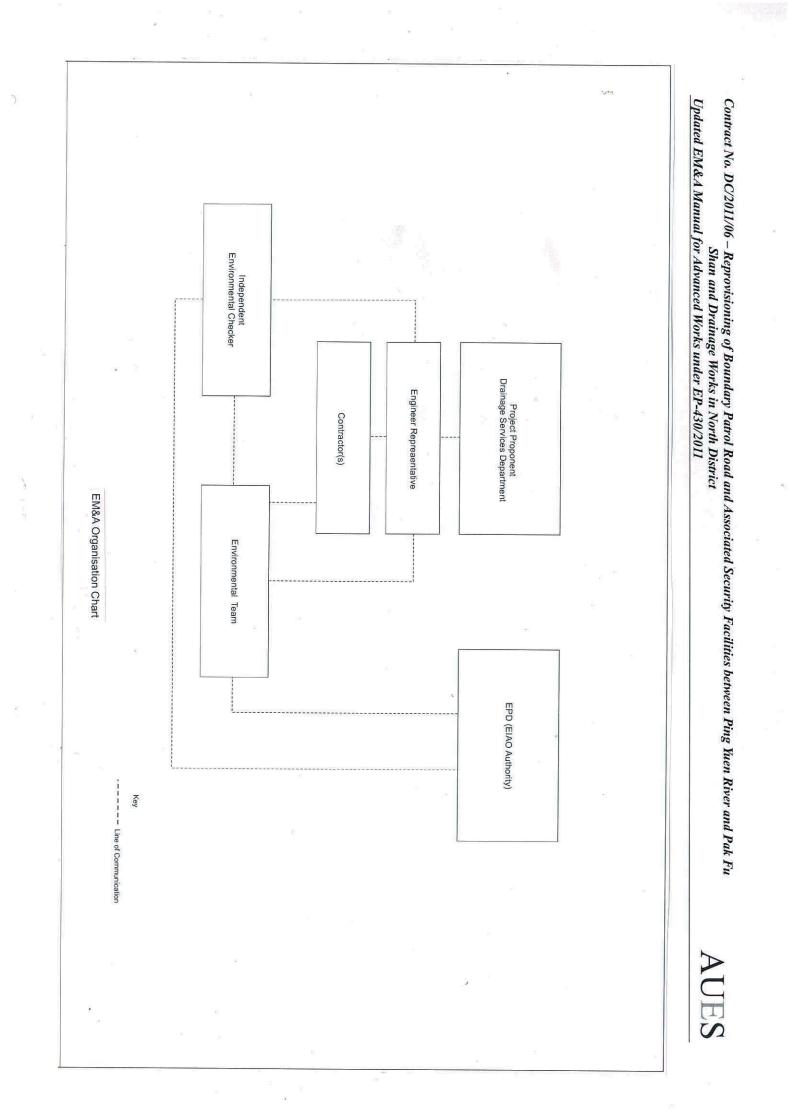






ANNEX B

ENVIRONMENTAL MANAGEMENT ORGANIZATION AND COMMUNICATION LINES





KEY CONTACT INFORMATION UNDER THE CONTRACT

Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Project Proponent / Employer	Mr. Eric Y. M. Cheng	2594-7341	2827-8700
Environ	Independent Environmental Checker	Mr. Roger W. K. Leung	3743-0754	3548-6988
СНСС	Project Manager	Mr. Raymond Yau	2403 1165	2403 1165
SHCC	Site Agent	Mr. Elvin Lam	2640 9286	2640 9286
AUES	Environmental Team Leader	Mr. T. W. Tam	2959-6059	2959-6079
AUES	Senior Environmental Consultant	Mr. Wong Fu Nam	2959-6059	2959-6079
AUES	Environmental Team Supervisor	Mr. Ben Tam	2959-6059	2959-6079

Project Proponents' Contact Numbers

Project Proponent	The Engineer	Telephone Number	Fax Number	24-Hour Hotline
DSD	Mr. Poon W. H.	2594 7450	2827 8700	6770 3827

24-Hour Hotline Telephone Number for the Public to Make Enquiries

24-Hour Hotline	
6770 3827	

Legends:

DSD (Project Proponent / Engineer) – Drainage Services Department

SHCC (Main Contractor) – Sang Hing Civil Constructors Co., Ltd

Environ (IEC) – Environ Hong Kong Limited

AUES (ET) – Action-United Environmental Services & Consulting



ANNEX C

IMPLEMENTATION SCHEDULE

FOR ENVIRONMENTAL MITIGATION MEASURES

Annex D	ex D Implementation Schedule for Environmental Protection Measures	Measures			
EIA Ref.		Location/Duration of Measures/Timing of Completion of Measures	Implementati on Agent	ImplementationStageDesCPost-O	Relevant Legislation & Guidelines
1.	Air Quality				
S4.8	Dust control measures stipulated in the <i>Air Pollution Control (Construction Dust)</i> <i>Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions. In particular: i. Water spaying on haul roads and dusty areas for every hour during construction, ii. Covering the stockpile areas of at least 70% area with tarpaulin sheet or impervious sheet; iii. Covering of dusty materials/spoils on trucks by impervious sheets; iv. Controlling the dropping height of fill materials; v. Covering or storing all debris and materials in a sheltered debris collection area; vi. Storing dredged sediment in a separate enclosed tank; and vii. Providing wheel washing facility at each exit of the works site.	Whole Site / During Construction	Contractor	>	Air Pollution Control (Construction Dust) Regulation
S4.8	Site practices such as regular maintenance and checking of the diesel powered mechanical equipment will be adopted to avoid any black smoke emissions and to minimize gaseous emissions.	Whole Site / During Construction	Contractor	>	
2.	Construction Noise				
S5.8	The following site practices should be followed during the construction of the Project: i. Only well-maintained plant should be operated on-site and plant should be serviced egularly during the construction phase; ii. Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction phase; iii. Mobile plant, if any, should be sited as far from NSRs as possible; iv. Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; v. Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and vi. Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities.	Whole Site / During Construction	Contractor	<u> </u>	
S5.8	Use quiet PME as far as practicable to mitigate the construction noise impacts.	Whole Site / During Construction	Contractor	>	
S5.8	Use temporary nosic barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. With reference to A Practical Guide for the Reduction of Noise from Construction Works, the noise barrier material should have a superficial surface density of at least 7 kg m-2 and have no openings or gaps.	Works Area III and IV/ During Construction	Contractor	>	A Practical Guide for the Reduction of Noise from Construction Works

CC Charles Magnitude Speed			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
	Monthly site inspection and audit of construction activities.	Whole Site / During Construction	ET & IEC	>	EIAO	
	Water Quality					
i i v pio	Maximum loss rate during the wet excavation should be kept at or below the limits specified in the EIA Report.	Excavation area / During Construction	Contractor	>		
र H ज	<i>Construction Site Runoff and Drainage</i> Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in Appendix A1 of ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Land Site / During Construction	Contractor	>	ProPECC PN 1/94 TM standard under the WPCO	MT
0 X 0	Non-active area along the river bank will be covered by impermeable sheets or hydroseeding completed sections mmediately whenever possible to minimise erosion of soil by runoff particularly during heavy rainstorms	River bank / During Construction	Contractor	>		
aı Fa	Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms.	Land Site / During Construction	Contractor	>		
edrop	Appropriate surface drainage will be designed and provided where necessary. In particular, surface runoff will be collected along the river bank and be diverted to sedimentation tank/pond before being discharged into the river.	Land Site / During Construction	Contractor	>		
ਸ਼੍ਰੋਤ	The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94.	Land Site / During Construction	Contractor	>	ProPECC PN 1/94 TM	MT
ffe un	Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.	Land Site / During Construction	Contractor	>		
is is	Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of storm flows	Land Site / During Construction	Contractor	>		
h, on	The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.	Land Site / During Construction	Contractor	>		
ЧÖ	An adequate number of portable toilets will be provided for the on-site construction workforce. Wastewater/sewage will be handled by registered collector in Hong Kong.	Whole Site / During Construction	Contractor	>		
)e D 2 Na	Debris and refuse generated on-site will be collected, handled and disposed of properly to avoid entering the nearby WSRs. Stockpiles of cement and other construction materials will be covered when not being used.	Whole Site / During Construction	Contractor	>		
	Oil leakage or spillage will be contained and clean up immediately. Waste oil will be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	Whole Site / During Construction	Contractor	>	Waste Disposal Ordinance	

4.	Terrestrial Ecology					
S7.11	Avoid potential impacts on the trees whenever possible during the detailed design stage. The retained trees will be fenced off as protection from the construction works. If the trees cannot be avoided due to the engineering constraint, the affected ndividual(s) will be transplanted to compensatory woodland planting site near Pak Fu Shan or a similar habitat in the vicinity of the Project Site if considered suitable (subject to the detailed assessment of the feasibility of transplantation).	Whole Site / During Construction	Contractor	>		
S7.11	A detailed vegetation survey on the trees within the impacted area would be conducted by a suitably qualified botanist' ecologist to identify and record the affected individuals prior to the commencement of site clearance works. Feasibility and suitability of transplanting the affected plant species of conservation interest would be carefully studied and suitable receptor sites would be identified during Tree Felling Application.	Whole Site / During Construction	Contractor	>		
S7.11	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal.	Whole Site / During Construction	Contractor	>		
S7.11	Regularly check the Site boundaries to ensure that they are not breached and that no damage occurs to surrounding areas Whole Site / During	Whole Site / During Construction	Contractor	>		
S7.11	Prohibit and prevent open burning within the site boundary during construction and provide temporary fire fighting equipment in the work areas.	Whole Site / During Construction	Contractor	>		
S7.11	Reinstate temporary work sites/disturbed areasimmediately after completion of the construction works	Whole Site / During Construction	Contractor	>		
S7.11	Provide additional stream/river habitat with natural bottom (\sim 2.1 ha) after the advanced works	Whole Site / During Construction	Contractor	>		
S7.14	Adopt proper ecological design for the landscape works along the river banks, including the floodplain (the 1.9ha marshy low-lying grassland will be reinstated in the floodplains at Hong Kong side.	Along river bank and water retardation pond / During Design Stage	Designer(s)	>		
S7.14	The implementation of landscape works (including compensatory planting) adopting ecological design at Hong Kong side shall be monitored.	Whole Site / During Construction	Designer(s)		>	
S7.14	One-year bird monitoring programme shall be conducted to monitor the effectiveness of the reprovisioned/reinstated habitats	Operation	Project Proponent/ Contractor			×
5.	Waste Management					
S9.6	<i>General</i> The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges	Contract mobilisation / During construction	Contractor	>		Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes; WBTC No 5/99, Trip ticket System for Disposal of Construction and Demolition Material; Water Pollution Control Ordinance

S9.6	Nomination of approved personnel to be responsible for standard site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the Project Site	Contract mobilisation / During construction	Contractor	>	
S9.6	Training shall be provided to site personnel in proper waste management and chemical handling procedures, the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	Contract mobilisation	Contractor	>	
S9.6	Provision of sufficient waste disposal points and regular collection for disposal.	Whole Site / During Construction	Contractor	>	WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness. Works Bureau, Hong Kong SAR Government
S9.6	Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers	Whole Site / During Construction	Contractor	>	
S9.6	Separation of chemical wastes for special handling and appropriate Treatment Chemical Waste Treatment Centre at Tsing Yi.	Whole Site / During Construction	Contractor	>	Waste Disposal (Chemical Waste) (General) Regulation
S9.6	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors	Whole Site / During Construction	Contractor	>	
S9.6	A recording system for the amount of wastes generated/recycled and disposal sites.	Whole Site / During Construction	Contractor	>	
S9.6	Waste Reduction Measures i. Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal. ii. Encourage collection of aluminium cans and waste paper by individual collectors during construction with separate labelled bins provided to segregate these wastes from other general refuse by the workforce iii. Any unused chemicals and those with remaining functional capacity will be recycled as far as possible	Whole Site / During Construction	Contractor	>	WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness
S9.6	iv. Use of reusable non-timber formwork to reduce the amount of $C\&D$ materials	Whole Site / During Construction	Contractor	>	Works Branch Technical Circular (WBTC) No.32/92, The Use of Tropical Hard Wood on Construction Site
S9.6	v. Prior to disposal of construction waste, wood, steel and other metals will be separated to the extent practical, for re-use and/or recycling to reduce the quantity of waste to be disposed of to landfill				
S9.6	vi. Proper storage and site practices shall be adopted to reduce the potential for damage or contamination of construction materials	Whole Site / During Construction	Contractor	>	
S9.6	vii. Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste				

S9.6	<i>Excavated Materials</i> The contractor of the advanced work should open a billing account with EPD for the payment of disposal charges. A trip-ticket system will be established in accordance with ETWB TC(W) No. 31/2004 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at landfills, and to control fly-tipping	Contract mobilisation / During construction	Contractor	>	Waste Disposal (Charges for Disposal of Construction Waste) Regulation ETWB TC(W) No.31/2004
S9.6	Ways to minimise generation of C&D materials include: (i) The Contractor is required to submit the Waste Management Plan (WMP) for approval by the Engineer with appropriate mitigation measures to deal with and allow space for waste segregation. Different C&D materials should be sorted into different categories for re-use/recycle. Day-to-day site operations of the Contractor should be closely monitored to ensure compliance with the approved WMP. (ii) The designer shall ensure that the design of levels and dimensions are reasonably accurate to avoid unnecessary demolition, excavation and fill. (iii) The Contractor shall be encouraged to use long lasting materials such as steel and poly-fibre for formwork on site. (iv) The RSS shall control the disposal of public fill and C&D waste to the designated public filling facilities and landfills respectively through the implementation of a trip-ticket system according to ETWB TC(W) No. 31/2004.	Whole Site / During Construction	Contractor	>	
	Ways to maximize the use of inert C&D material include: i. The Contractor shall review the WMP quarterly to improve the site practice and maximise the use of inert C&D material ii. Different sections of works shall be programmed to ensure the C&D materials generated could be re-used by the other sections of works or works contracts. iii. Temporary storage areas should be identified to resolve programming mismatch between excavation and filling works. iv. The excavated soft inert C&D materials should be reused for backfilling the boundary patrol road, channel embankment, etc.whenever practicable. v. Good quality top soil should be reused for landscaping.	Whole Site / During Construction	Contractor	>	
	Ways to maximise the re-use/recycle of C&D material and/or rock on site include: i. Recyclable materials such as wood and metal should be salvaged for reuse and inert materials utilized as public fill. ii. Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal. Prior to disposal of C&D waste, it is recommended that wood, steel and other metals be separated for re-use and/or recycling and inert waste utilized as fill material to minimize the quantity of waste to be disposed of at landfills.	Whole Site / During Construction	Contractor	>	
S9.6	Ways to maximise the use of recycled C&D materials include: i. Relevant clauses would be incorporated in the Particular Specifications to facilitate the use of recycled aggregates as far as practicable, such as, temporary works, general fills and road sub-base.	Whole Site / During Construction	Contractor	>	
S9.6	To reduce the potential dust impacts of the excavation works, the C&D materials will be wetted as quickly as possible to the extent practice after filling.	Whole Site / During Construction	Contractor	>	

✓ ✓ Waste Disposal (Chemical Waste)	✓ Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes	> 	Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes	✓ WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness.	✓ Air Pollution Control Ordinance	>	>	✓ ETWB TC(W) No.19/2005
Contractor	Contractor	Contractor	Contractor	Contractor	Contractor	Contractor	ET and IEC	Contractor
All facilities / During construction	All facilities / During construction	Land Site / During Construction	Chemical Waste Treatment Centre at Tsing Yi/ During construction	All areas / During construction	Land Site / During Construction	All areas / During construction	All facilities / During construction	All facilities / During construction
<i>Chemical Waste</i> Containters used for storage of chemical waste shall be: Containten used for storage of chemical waste shall be: i. Maintained in good condition and clearly labelled in both English and Chinese; ii. Suitable for the substance they are holding, resistant to corrosion, and securely closed; and iii. Capacity of less than 450 L unless the specifications have been approved by the EPD.	 Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; Have adequate ventilation; Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; and vi. Be covered to prevent rainfall from entering 	Any unused chemicals and those with remaining functional capacity shall be recycled to the extent practical.	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	<i>General Refuse</i> General refuse shall be timely cleared and shall be disposed of to the nearest licensed facility by reputable waste collector on regular basis to reduce odour, pest and litter impacts.	No waste shall be burnt on site. Wastes shall be collected by licensed waste haulier and be disposed of at licence sites.	Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the construction works.	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site inspection and audit programme shall be undertaken.	Waste Management Plan (WMP) will be prepared and implemented in accordance with ETWB TC(W) No. 19/2005.
S9.6	S9.6	S9.6	S9.6	S9.6	S9.6	S9.6	S9.8	S9.8

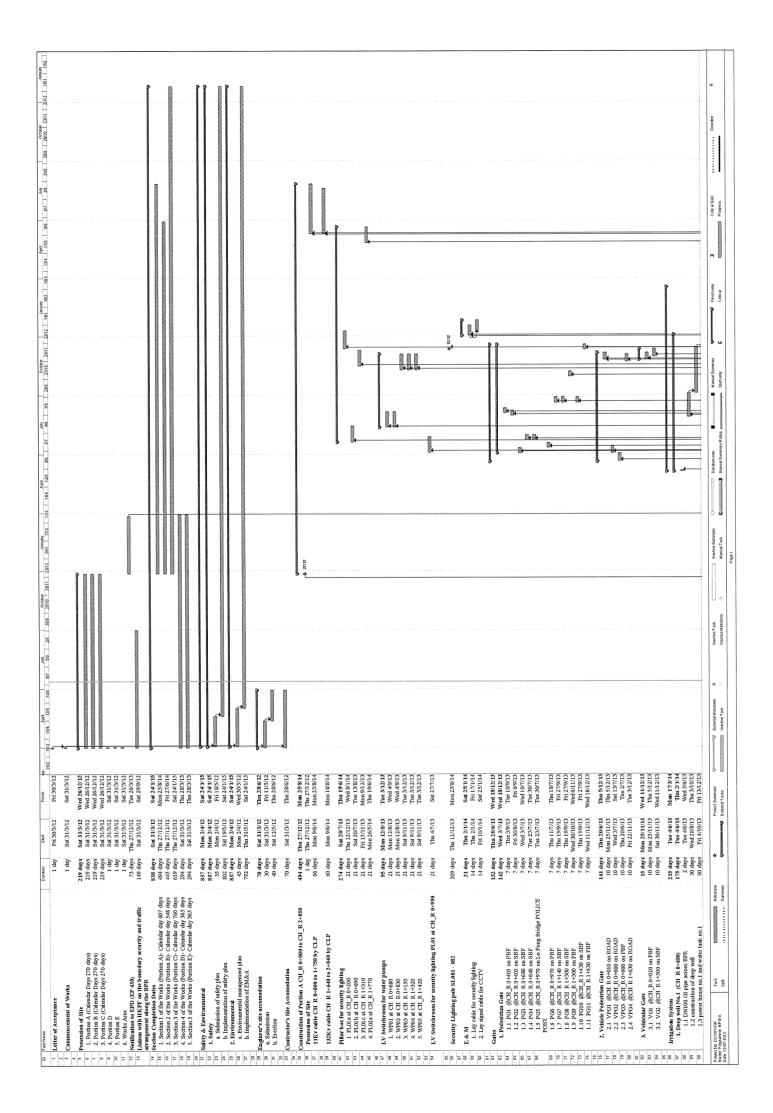
6.	Cultural Heritage				
S11.8.1	Pursuant to the Antiquities and Monuments Ordinance, the project proponent should inform the AMO immediately in case of discovery of antiquities or supposed antiquities in the course of soil excavation works in construction stage.	Whole Site / During Construction	Project Proponent	>	Antiquities and Monuments Ordinance
S11.8.1	In case the works boundary of the Project changes during the detailed design stage to cover additional area not being assessed, the need for further archaeological survey and subsequent impact assessment should be reviewed and AMO should be consulted.	Additional works boundary not covered in EIA / During design stage	Design Team and the Project Proponent (i.e. DSD)		EIAO TM, Guidelines for CHIA, Antiquities and Monuments Ordinance
7.	Landscape & Visual				
S12.6.10	MM1: Tree Protection and Preservation - Trees/ woodland within the Project Site will be protected and preserved as far as possible in accordance with ETWB TCW No. 29/2004 0 and 3/2006.	Land Site / During Construction	Contractor	>	
S12.6.10	MM2: Tree Transplantation – Should removal of trees be unavoidable due to construction impacts, trees will be transplanted or felled according to the Detailed Tree Survey and Tree Felling Application. Established trees of value are to be re-located where practically feasible.	Land site / During Construction	Contractor(s)	> >	
S12.6.10	MM3: Minimize Disturbance – temporary structures and construction works should be planned with care to minimize disturbance to existing built structures as well as vegetation including riparian vegetation along the river.	Land Site / During Construction	Contractor	>	
S12.6.10	10 MM4: Compensatory Tree Planting - Where loss of existing trees is unavoidable, compensatory planting of trees should be provided in accordance with ETWB TCW No. 03/2006 to compensate for those trees felled. Space is to be allowed within the Project Site (mainly planting in riverbank landscape areas of ~4.1 ha) for such planting. Plants will have 12 months to establish. Approximately 0.5 ha of compensatory woodland planting (in addition to the reinstatement of the woodland (LR4) if unavoidably affected) will be provided within the Project Site near Pak Fu Shan. The proposed compensatory woodland planting (in woodland planting stee will locate adjoining to the reinstated and existing (undisturbed by the Project) woodland on hillside. The selection of planting species shall be made with reference to the species identified in the Tree Survey and be native to Hong Kong or the South China region. The compensatory woodland planting species larvel food plant (Trema sp.), and further details refer to Section 7.11.3 of the EIA Report. The arrangement of the on-site compensatory planting plan, and recommended to be implemented prior to the construction activities as far as practical details and planting plan, and recommended to be implemented prior to the construction activities as far as practical	Compensatory planting area / During Construction	Contractor	>	
S12.6.10	MM5: Screening – Stockpiles of materials should be covered or hoarding erected where possible to reduce undesirable views of the construction site (such as stockpile areas), having consideration of safety and security. It is proposed that screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Hoarding should be taken down at the end of the construction period.	Land Site / During Construction	Contractor	>	

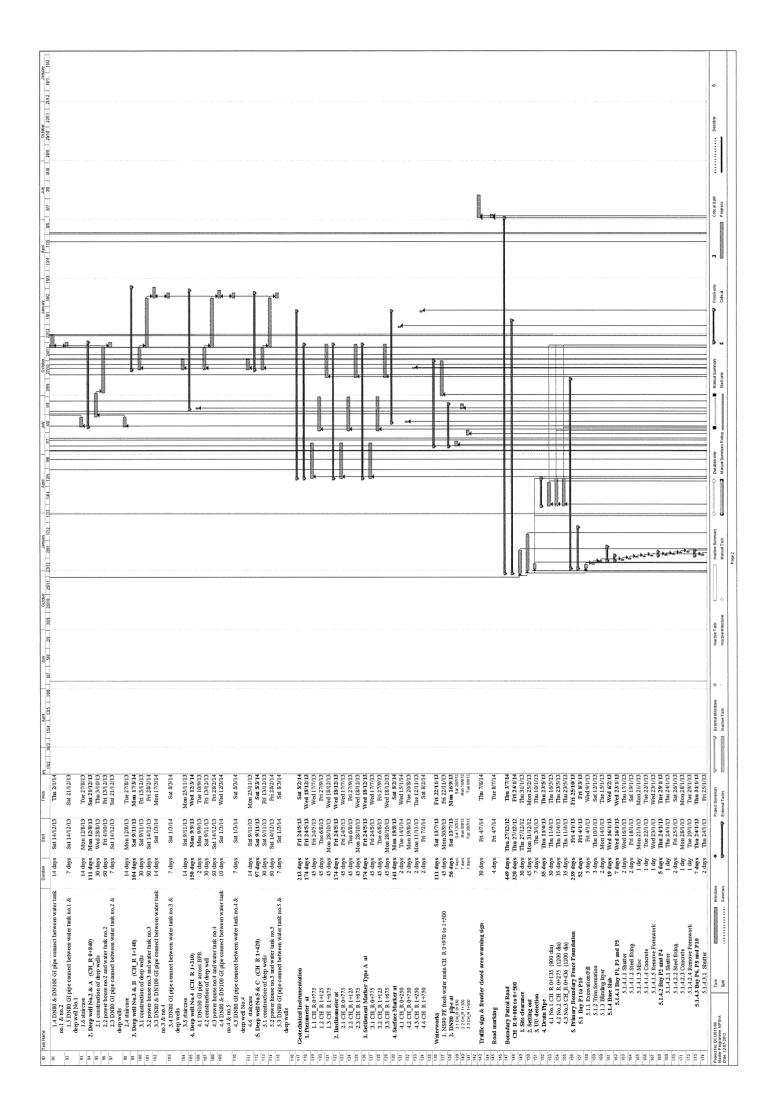
S12.6.10	MM6: Light Control – Control of night time lighting glare shall be implemented to minimize glare impact to adjacent VSRs.	Whole Site / During Construction	Contractor	>	
S12.6.10	MM7: Reinstatement – Terrestrial areas temporarily disturbed by the Project during construction, should be re-vegetated with shrubs, ground cover or grass in order to restore the green ambiance or LR as existed before the commencement of the Project to blend with the new environment, eg the earth embankment underneath the boundary patrol road near Pak Fu Shan should be planted to ensure the embankment structure blends in with the new environment.	Whole Site / During Construction	Contractor	>	
S12.6.10	MM8: Buffer Planting – Tree and Shrub planting shall be provided for screening the natural watercourse, woodland and shrubby grassland on lowland, proposed boundary control road and fencing, where needed and taking into account security and boundary control limitations.	Appropriate location / During Construction	Contractor	>	
S12.6.10	MM9: River Area Enhancement Landscaping – The river bed should be nonconcreted as far as practical. The River bank and margins of approximately 4.1 ha should be enhanced with vegetation to compensate for the loss of existing vegetation and to enhance the visual and landscape value of the river where slope gradient allows. The typical design of riverbank landscape value of the river where slope gradient allows. The typical design of riverbank landscape value of the river where slope gradient allows. The typical design of riverbank landscape value of the river where slope gradient allows. The typical design of riverbank landscape value of the river where slope gradient allows. The typical design of riverbank landscape vertall objectives for the landscaping works will be mainly concerned with ecological enhancement but also include landscape enhancement. For the sloping banks of the river, in order to guarantee safety of flood prevention, ecologically and environmentally friendly materials will be used as far as possible. The preliminary proposed landscape treatment along the sloping river banks can be classified into three types: natural vegetation, semi-natural and artificial. Further details of the river area enhancement plans can be found in Section 3 of the EIA Report, including protection of river bed with armour rock only where necessary and provision of grassed, cellular, reinforced concrete eco-friendly slope protection. Eco-bags are made of UV-resistant Polyethylene gas filled with fiber soil. Final details of the landscaping will be prepared during the detailed design stage of the Project.	Appropriate location / During Construction	Contractor	>	
S12.6.10	MM11: Floodplain Areas - The areas bound by sharp turns in the natural meander of the river should be made into floodplain areas to retain some of the riparian landscape at the river margins. The overall objectives for the landscaping works will be mainly concerned with ecological enhancement but also include landscape enhancement (also refer to Section 7.11.3 of the EIA Report). Further details will be developed during Detailed Design Stage.	Floodplain areas / During Constructio	Contractor	>	
S12.6.10	MM12: Colours of Structures - Colours for the structures eg fences should be chosen to complement the surrounding area. Lighter colours such as shades of light grey, off-white and light brown may be utilised where technically feasible to reduce the visibility of the structures.	Whole Site / During Construction	Contractor	>	
S12.6.10	MM13: Topsoil Reuse - Excavated topsoil should be conserved for re-use by the Project or other projects.	Whole Site / During Construction	Contractor	>	
S12.9	The completed landscape works adopting ecological design on the Hong Kong side will be monitored during the one year establishment period.	Whole site / During 1 year Establishment period	Landscape Contractor	>	



ANNEX D

CONSTRUCTION PROGRAM

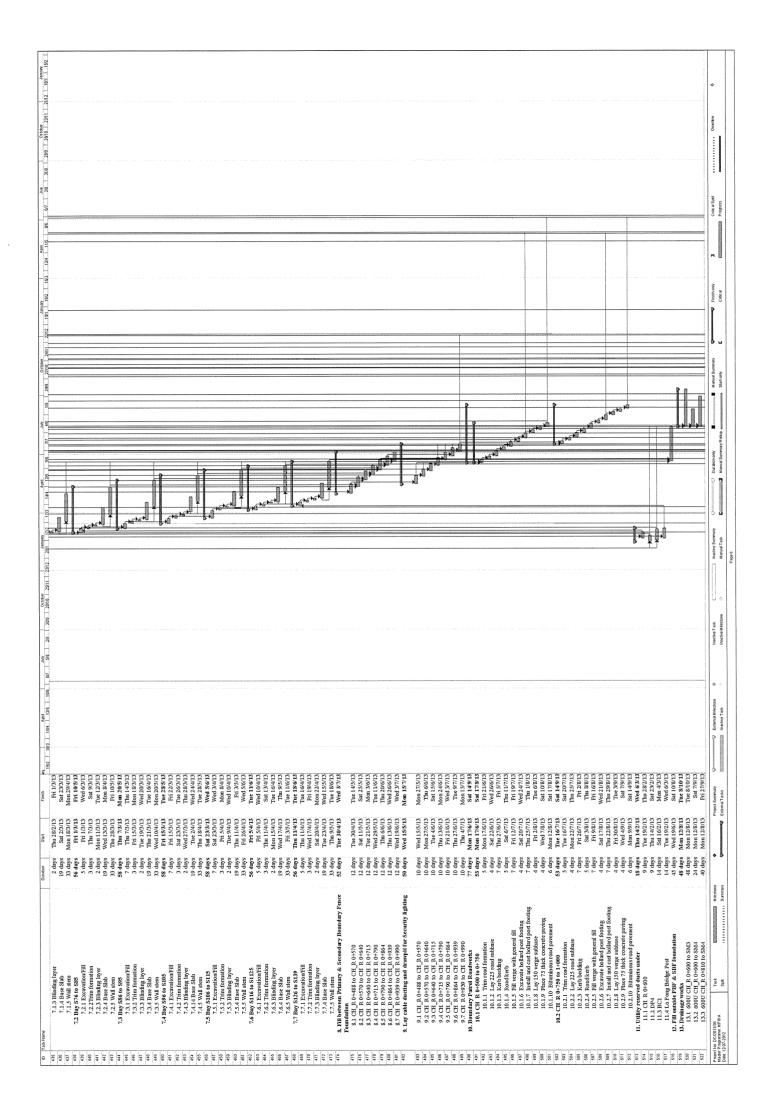




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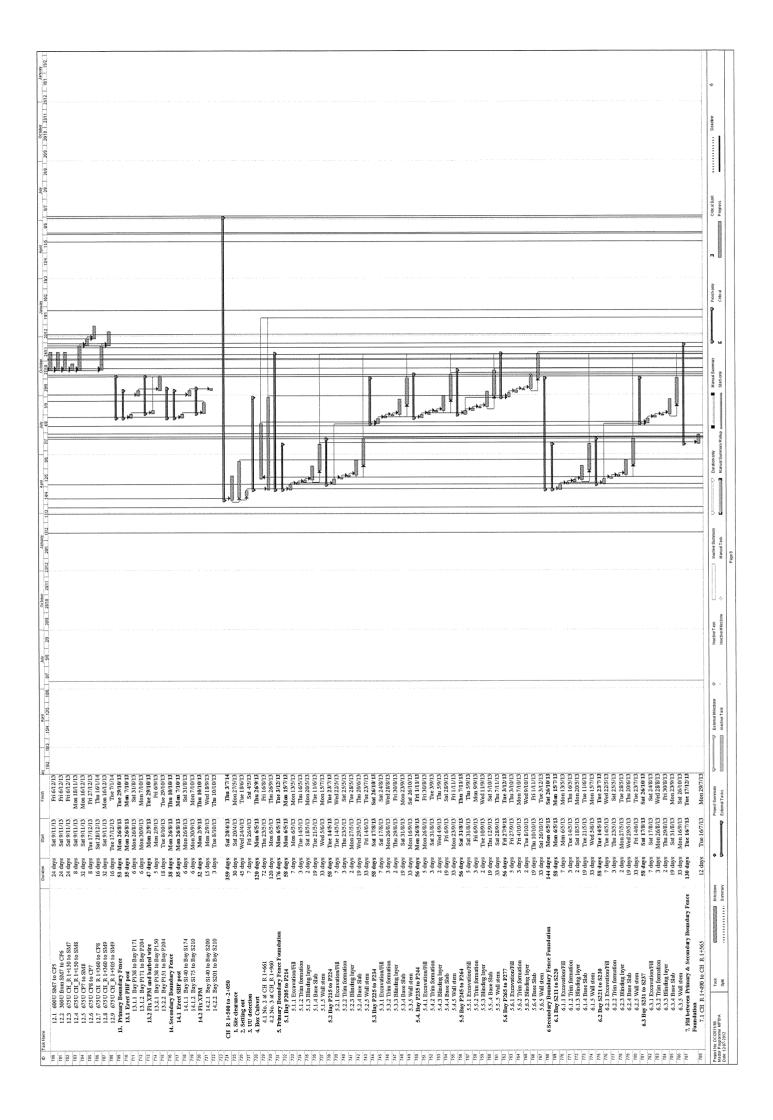
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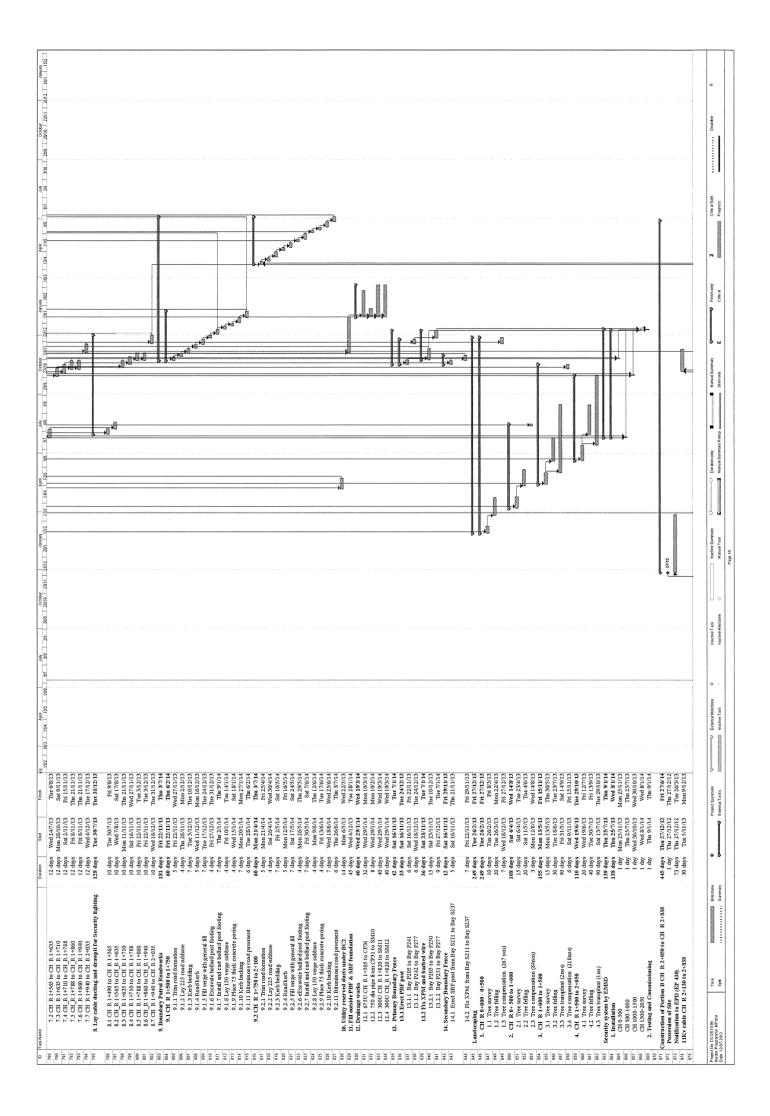
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			500U CH_R 0+370 to SM2 (90m) 500U CH_R 0+370 to SM3 (60m)	24 days Wed 1 16 days Wed 1	i 17/1/14 d 8/1/14		
			· Boundary Fence # PBF nost	80 days Tue 63 days Tue	23/11/13 4/11/13		
			Bay P1 to Bay P35 Bay P16 to Bay P35		14/11/13		
			XPM and barbed wire		23/11/13		
			Bay P51 to Bay P50 Bay P51 to Bay P69		c1/1/c7		
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			rect SEF post 5.1.1 Bay S1 to Bay S35		14/11/13		
			5.1.2 Bay S36 to Bay S65		1 24/8/13		
			TX XPM		19/11/13		
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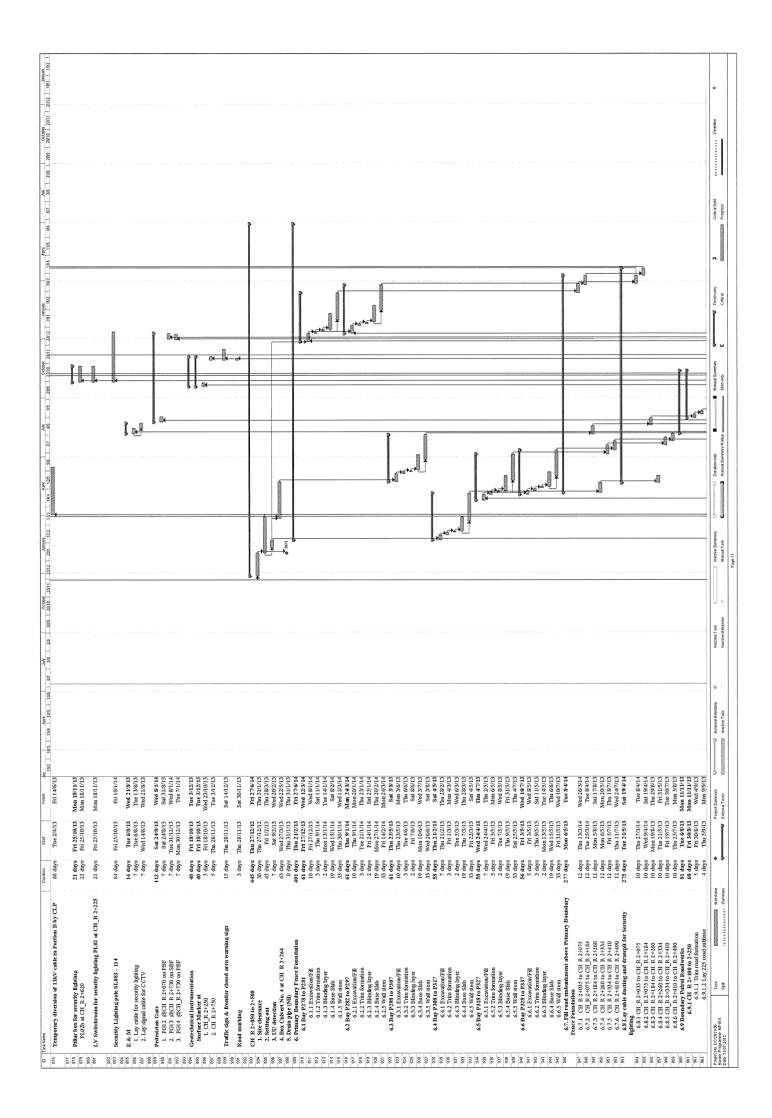


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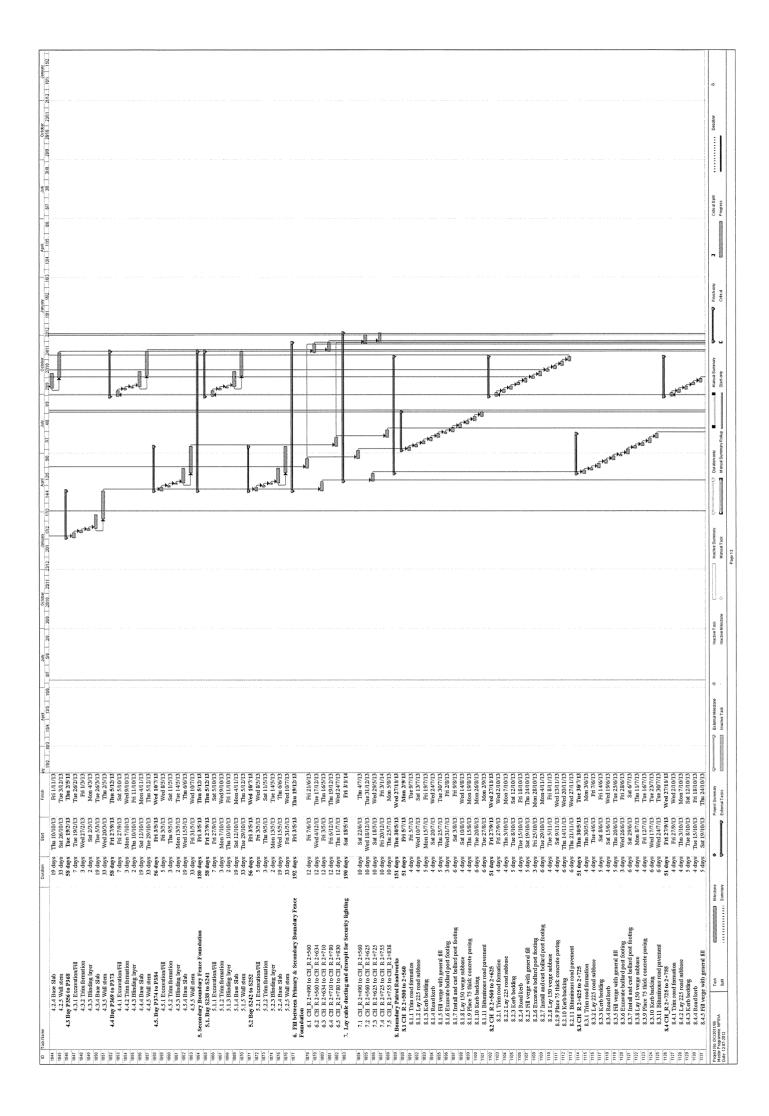
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670	9. Boundary Patrol Ro	adworks			Fri 13/12/13				1.14								
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nag	9.1.9 Place 75	thick concrete paving	4 days W		Sat 2/11/13						,F						
189	9.1.10 Bitumi.	nous road pavement	6 days h		Sat 9/11/13												
682	9.2 CH R 1+250 t	0 1+500	53 days S		Fri 13/12/13						,						
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686	9.2.4 Roadker	th	5 days		Wed 6/11/13						3						
687	9.2.5 Fill verge	e with general fill	7 days		Thu 14/11/13						¢,						
638	9.2.6 Excavate	e bollard post footing	4 days		Die 19/11/13						67						
683	9,2.7 Install an	nd cast bollard post footing	7 days W		Ved 27/11/13												
690	9.2.8 Lav 150	verge subbase	4 days T	Thu 28/11/13	Mon 2/12/13						4						
691	9.2.9 Place 75	thick concrete paving			Fri 6/12/13						<i></i>						
692	9.2.10 Bituminous road pavement	tous road pavement	6 days	Sat 7/12/13	Fri 13/12/13									T			
693	10. Utility reserved du	ets under			Man 15/4/13												
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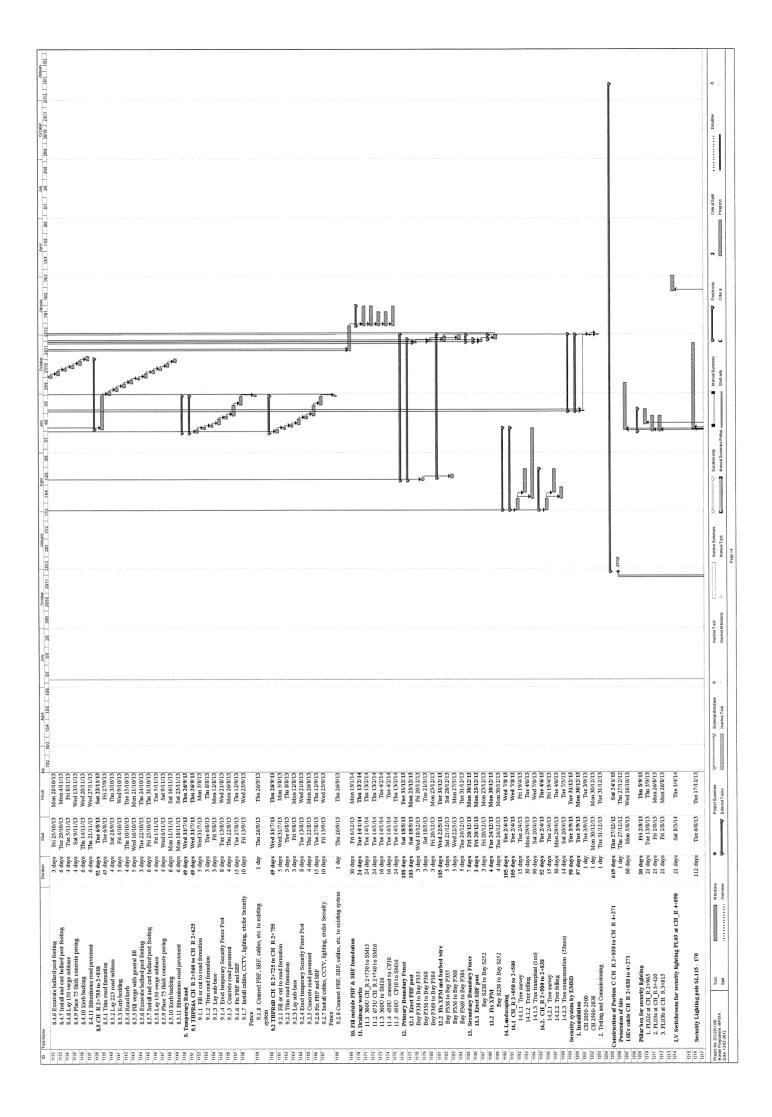


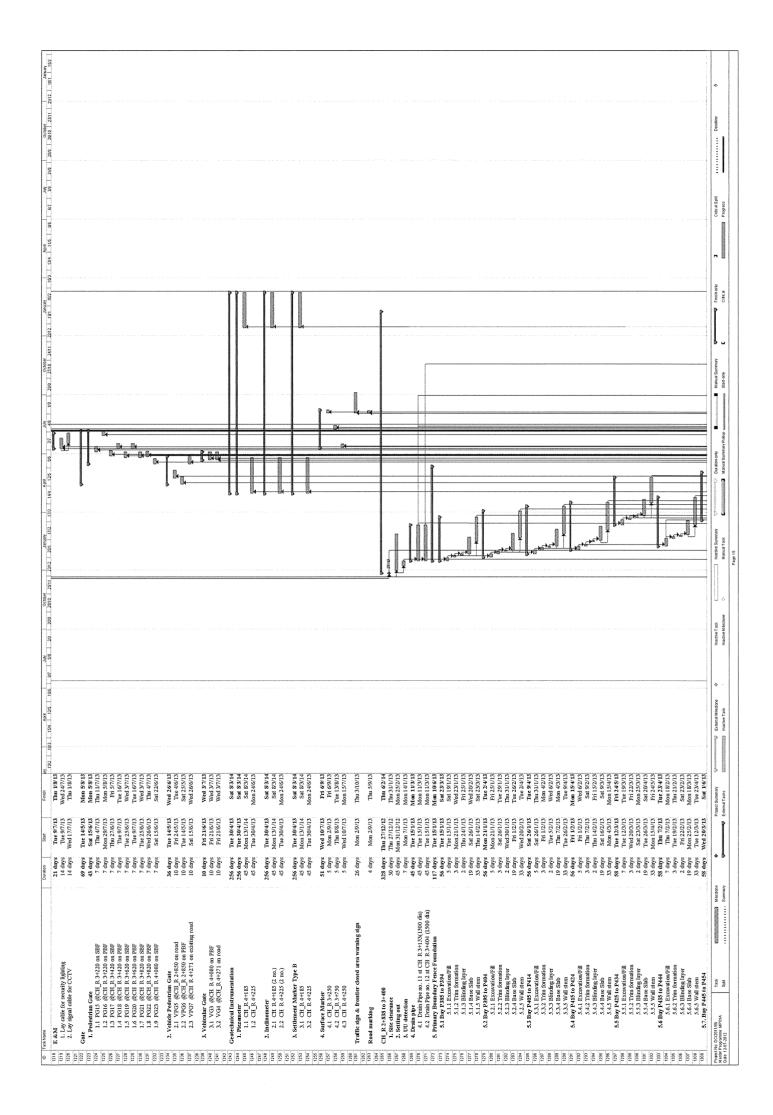




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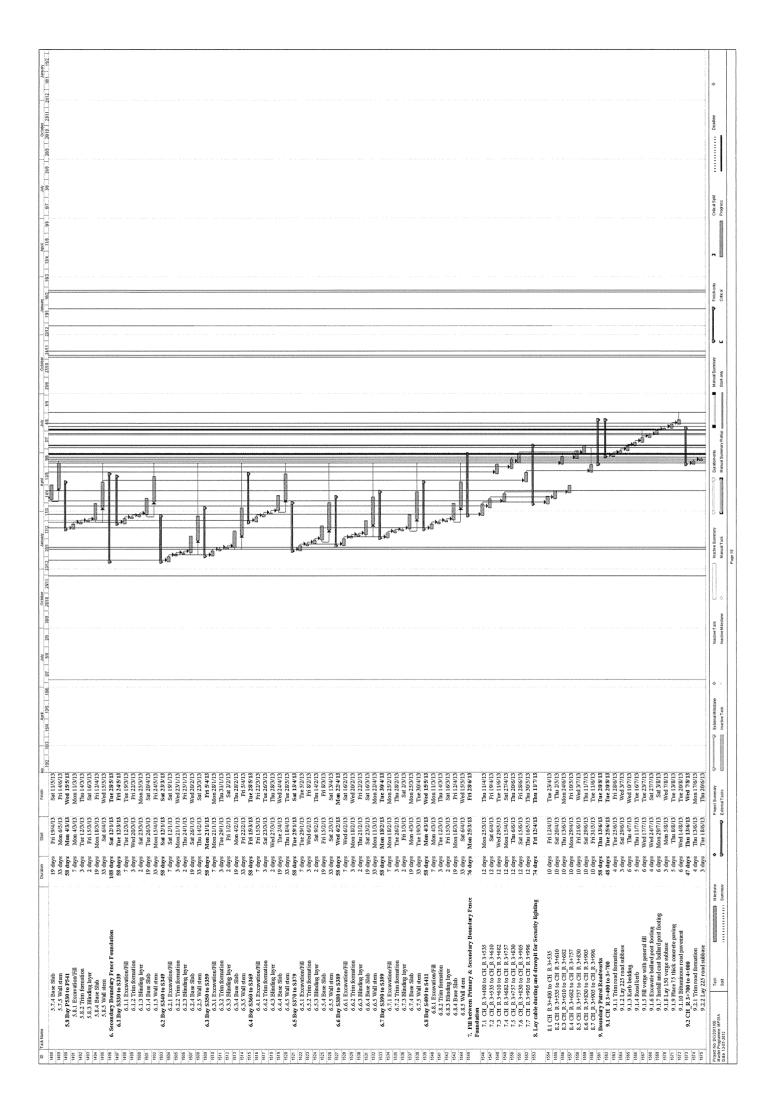


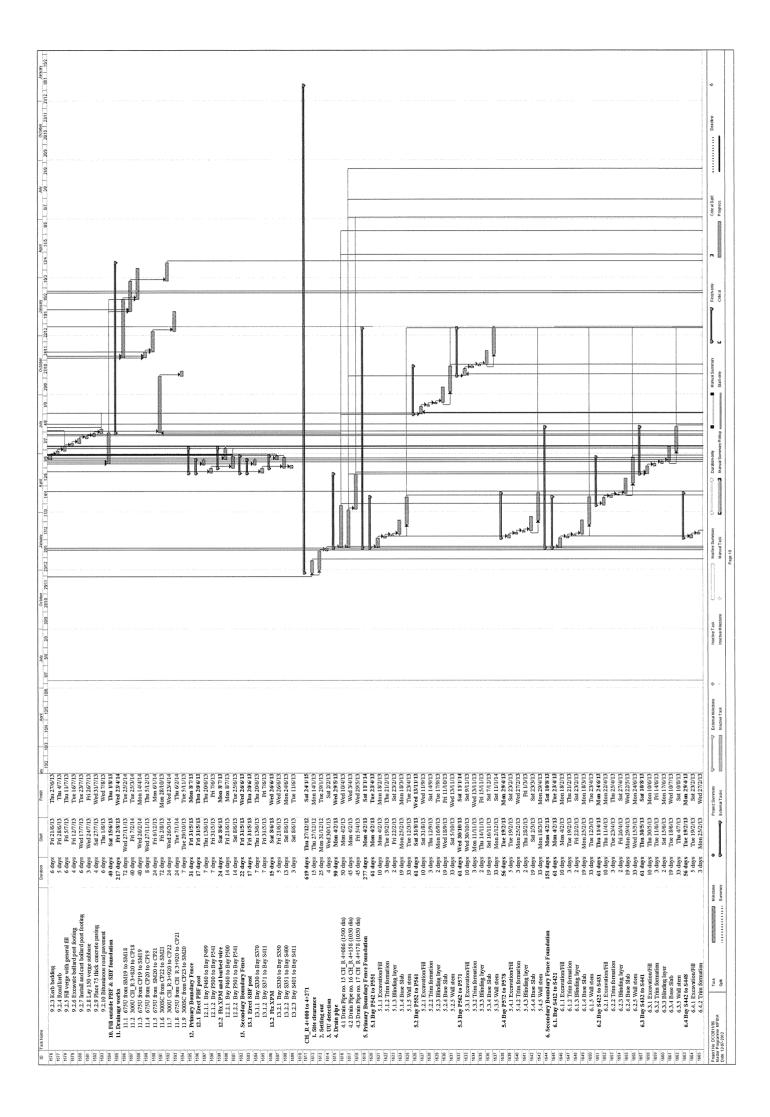


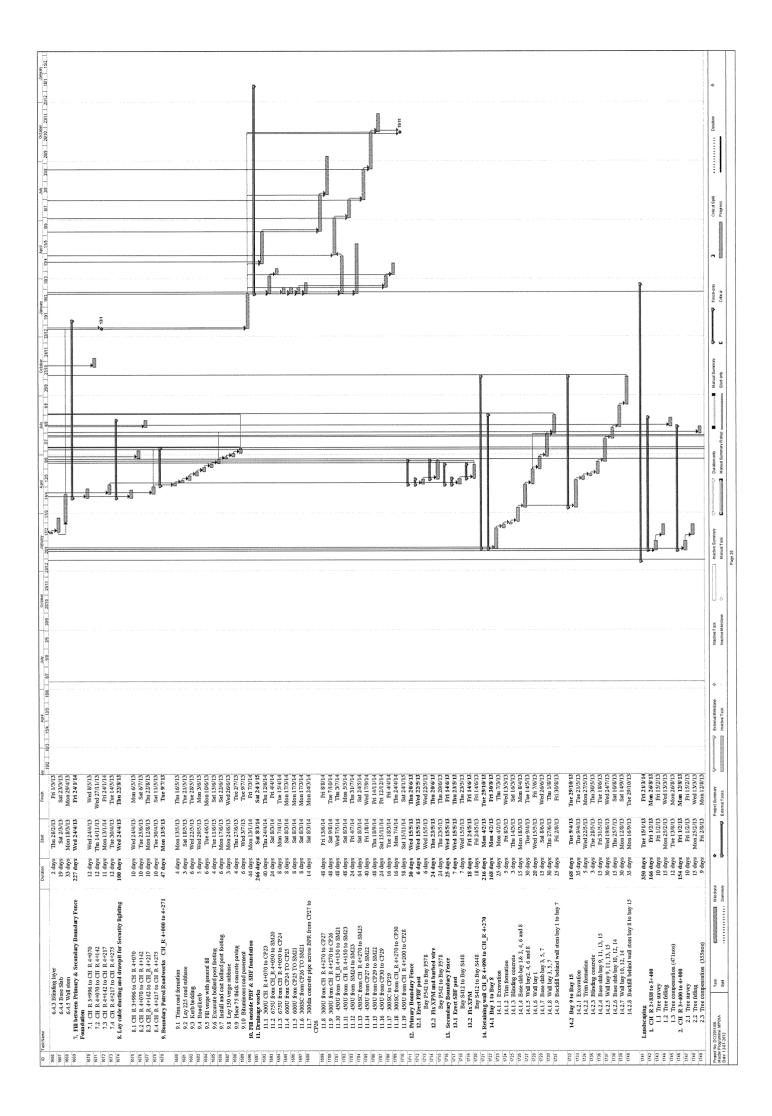


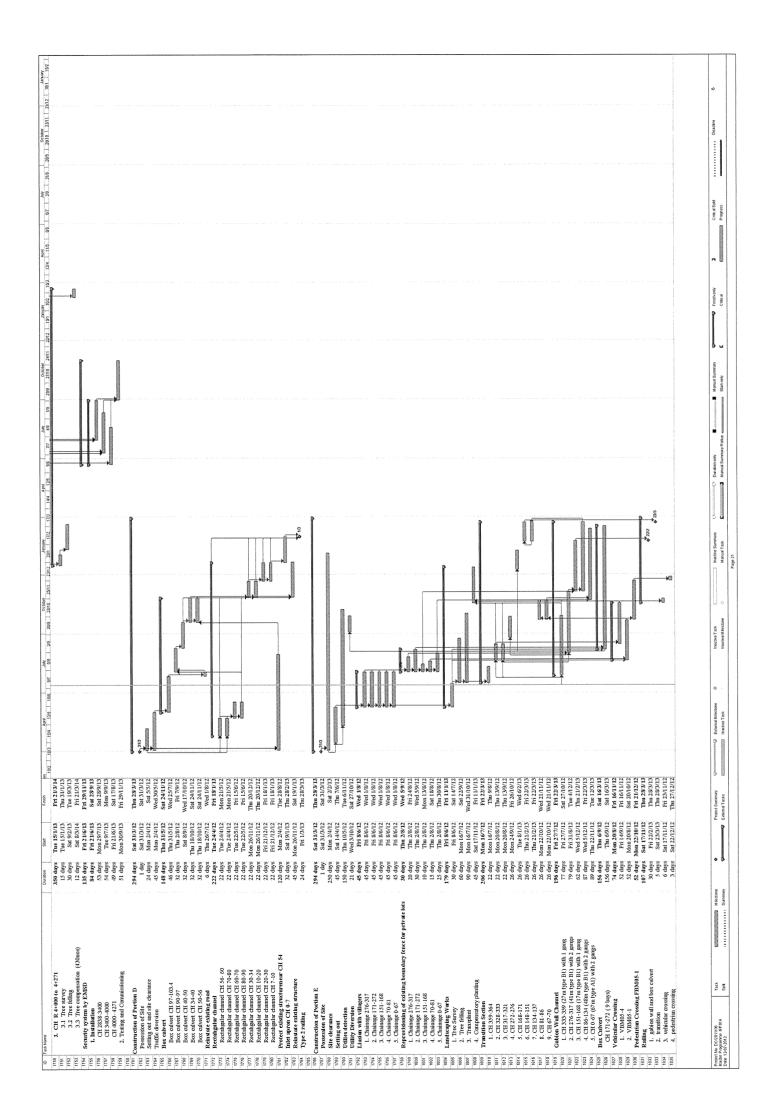
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	6.1 Bay S253 to S262					
	6.1.1 Excavation/Fill		/1/13 Sat 19/1/13	E1/1611		
325	6.1.2 Trun Iormation 6.1.3 Rhindino laver	2 days Mon 21/1/13				
1326	6.1.4 Base Slab					
27	6.1.5 Wall stem					
1328	6.2 Bay S263 to S272					
50	6.2.1 Excavation/Fill	5 days Mon 21/1/13				
1331	6.2.2 Diindina Inter					
1332	6.2.4 Base Slah					
1333	6.2.5 Wall stem	33 days Wed 20/2/13				
1334	6.3. Bay S273 to S282					
2 99	6.3.1 Excavation/Fill	5 days Sat 26/ 3 days Edi 1/				
1337	6.3.3 Blinding layer	2 days Tue 5/2/13				
1338	6.3.4 Base Slab					
1339	6.3.5 Wall stem			1e9/4/13		
340	6.4 Bay S283 to S292	56 days Fri 1/2/13		15/4/13		
140	6.4.1 Excavation/Fill					
4 6	6.4.2 Trim formation					
-	0.4.5 Dimensi layer					
5	0.4.4 Base Slatt	33 days Mon 4/3/13		Mont 154/12		
345	6.5 Bay S293 to S302					
1347	6.5.1 Excavation/Fill	days				
8	6.5.2 Trim formation	3 days Wed 20/3/13		1222/13		
6	6.5.3 Blinding layer					
0	6.5.4 Base Slab	19 days Tue 26/				
351	6.5.5 Wall stem					
	6.6 Bay S303 to S312	58 days Wed 20/3/13				
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-93	6.6.4 Base Slab					
10	6.6.5 Wall stem	33 days Tue 23/4/13				
358	6.7 Bay S313 to S322					
359	6.7.1 Excavation/Fill					
	6.7.2 Trim formation					
5	6.7.4 Base Slah	2 days 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
1363	6.7.5 Wall stem	33 days Thu 2/5/13				
1364	6.8 Bay S323 to S329	·				
1365	6.8.1 Excavation/Fill					
0 10	6.8.2 Thin formation 6.8.3 Blinding layer	3 days Mon 23/	V4/13 Sat 20/4/13			
	6.8.4 Base Slab					
1369	6.8.5 Wall stem	33 days Fri 10/5/13				
	. Fill between Primary & Secondary Boundary Fence brond ation					
	7.1 CH R 2+830 to CH R 2+905	2				
137.2	7.2 CH R 2+905 to CH R 2+980	12 days Wed 3/4/13				
	7.4 CH R 3+055 to CH R 3+130	12 days Tue 10/4/13				
	7.6 CH R 3+205 to CH R 3+279					
	7.7 CH R 3+279 to CH R 3+349	12 days Mon 3/6/13				
0/0	7.8 CH R 34349 to CH R 34400 I ou coble duoting and dimensit for Security Habiling	71 days Tue LL				
-	8.1 CH R 2+830 to CH R 2+905	10 days Fri 12/4/13		Tue 234/13		
185	8.2 CH R 2+905 to CH R 2+980					
	8.2 CH K 27980 10 CH K 37133	10 days weu 24/				
	8.5 CH R 3+130 to CH R 3+205	10 days Sat 8/6/13		200(13)		
	8.6 CH R 3+205 to CH R 3+279					
	8.7 CH R 3+279 to CH R 3+349	10 days The 18/6/13				
	8.8 CH_R 3+349 to CH_R 3+400			AMOUNT STUDY STRUCTURE		
	9.1 CH R 2+838 to 3+100					
	9.1.1 Thim road formation	days				
1391	9.1.2 Lay 225 road subbase					
2 66	9.1.3 Kerb bedding	6 days Wed 22/5/13 5 days Wed 20/5/13				
36	9.1.5 Fill verse with general fill					
35	9.1.6 Excavate bollard post footing					
8 10	9.1.7 Install and cast bollard post footing	6 days Mon 17/6/13				
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ANNEX E

## MONTHLY SUMMARY WASTE FLOW TABLE

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SUMMARY TABLE FOR WORK PROCESSES OR ACTIVITIES REQUIRING TIMBER FOR TEMPORARY WORKS

### Monthly Summary Waste Flow Table

Name of Department: DSD

### Contract No.: DC/2011/06

### Monthly Summary Waste Flow Table for 2013

	A	-		erials Generated M	onthly			Actual Quantities of	Non C&D Was	tes Generated Mont	hly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³ )	(in '000m ³ )	(in '000m')	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³ )
Jan-13	0,002	0.000	0.002	0.000	0,000	0.000	0.000	0.000	0.000	0.001	0,035
Feb-13	0.001	0.000	0,001	0.000	0.000	0.000	0.000	0,000	0.000	0.000	0.015
Mar-13	0.003	0.000	0.003	0.000	0.000	0.000	0,000	0.000	0.000	0.000	0.041
Apr-13	0.003	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.041
May-13	0.002	0.000	0,002	0.000	0,000	0.000	0,000	0,000	0.000	0.000	0.035
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Total	0.031	0.000	0.031	0,000	0.000	0.000	0.000	0.000	0.000	0.021	0.476

Notes :

(1) Note Used.

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

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

(4) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring.

#### Appendix D

# Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

# Contract No.: <u>DC/2011/06</u>

Contract Title: Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

# Report Period: May-13

Item No	Description of Works Process or Activity [see note (a) below]	Justifications for Using Timber in Temporary Construction Works	Est. Quantities of Timber Used (m ³ )	Actual Quantities used (m ³ )	Remarks
1	Transition formwork & falsework (Portion A.B.E)	Temperary formwork & falsework design	10	9	
2	Transition formwork & falsework (Portion A,B,C)	Temperary formwork & falsework design	25	18	
3	Transition formwork & falsework (Portion A.B.C.E)	Temperary formwork & falsework design	52	40	
4	Transition formwork & falsework (Portion A.B.C.E)	Temperary formwork & falsework design	77	72	
5	Transition formwork & falsework (Portion A.B.C.E)	Temperary formwork & falsework design	102	86	
6	Transition formwork & falsework (Portion A,B,C,E)	Temperary formwork & falsework design	115	103	
7	Transition formwork & falsework (Portion A.B.C.E)	Temperary formwork & falsework design	121	112	
8	Transition formwork & falsework (Portion A.B.C.E)	Temperary formwork & falsework design	145	139	

Notes (a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one

for ease of updating.

(b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring