

Issue No. : Issue 1  
Issue Date : September 2019  
Project No. : 1626

**MUI WO LAI CHI YUEN  
CEMETERY EXTENSION**

**MONTHLY ENVIRONMENTAL  
MONITORING & AUDIT  
REPORT (AUGUST 2019)**

Prepared By:

**ALLIED ENVIRONMENTAL CONSULTANTS LTD.**

**COMMERCIAL-IN-CONFIDENCE**

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Acousticians & Environmental Engineers

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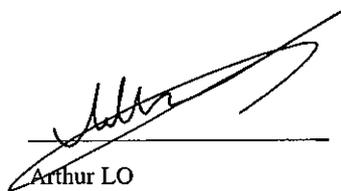
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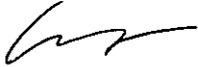
## MUI WO LAI CHI YUEN CEMETERY EXTENSION

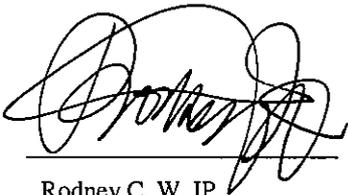
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Prepared By:

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**COMMERCIAL-IN-CONFIDENCE**

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## **EXECUTIVE SUMMARY**

### **General**

This is the Environmental Monitoring and Audit (EM&A) Monthly Report for August 2019 of Mui Wo Lai Chi Yuen Cemetery Extension under Environmental Permit no. EP-532/2017/A (Hereafter as the Project). The main construction works of the Project were commenced on 15 July 2019 and is scheduled to be completed in May of 2020. This is the 2<sup>nd</sup> EM&A report presenting the environmental monitoring findings and information recorded during the period of 1 August 2019 to 31 August 2019.

In the reporting month, the major activities conducted are as follow:

- Preparation Works of Tree Transplanting

### **Site Inspections and Audit**

The Environmental Team (ET) conducted weekly site inspections for the Contract on 8, 15, 22 and 29 August 2019. IEC attended the joint site inspection on 22 August 2019. No non-compliance was found during the site inspection.

### **Complaints, Summons and Prosecutions**

Number of complaints, summons and successful prosecutions in the reporting month are summarised below.

- **Complaints:** Zero.
- **Summons:** Zero.
- **Successful Prosecutions:** Zero

### **Reporting Changes**

There is no change in the reporting month.

### **Future Key Issues**

The major construction works in the coming reporting month are anticipated to include:

- Tree Felling;
- Tree Transplanting;
- Site Clearance; and
- Erection of Hoarding.

# **1 INTRODUCTION**

## **1.1 Project Overview**

1.1.1 Allied Environmental Consultants Limited (AEC) has been appointed to work as the Environmental Team (ET) under Environmental Permit (EP) no. EP-532/2017 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Mui Wo Lai Chi Yuen Cemetery Extension (Register No.: AEIAR-211/2017). A variation of EP (VEP) was applied and the VEP (EP-532/2017/A) was subsequently granted on 10 April 2019.

## **1.2 Structure of the Report**

1.2.1 This monthly EM&A Report comprises the following sections:

**Section 1 Introduction**

**Section 2 Project Background**

**Section 3 Status of Environmental Licenses, Notifications and Permits:**

**Section 4 Implementation Status of Environmental Mitigation Measures**

**Section 5 Summary of EP Submission**

**Section 6 Waste Management Implication**

**Section 7 Environmental Site Inspection and Audit**

**Section 8 Complaints, Notification of summons and Prosecution**

**Section 9 Future Key Issues**

**Section 10 Conclusion**

## 2 PROJECT BACKGROUND

### 2.1 Background

2.1.1 Food and Environmental Hygiene Department (FEHD) proposed an extension of the Mui Wo Lai Chi Yuen Cemetery (the Project) to construct an elevated platform of around 225m<sup>2</sup> within the existing Lai Chi Yuen Cemetery boundary to accommodate the outdoor niches and the ancillary facilities including one joss paper burner and planters. Also, a site access of 7.5m<sup>2</sup>, which is indispensable for the development, will be constructed just outside the cemetery boundary due to lack of suitable space for accommodating it in the cemetery.

2.1.2 The Project is classified as a Designated Project (DP) under Category Q.1 – the Project is wholly within an existing country park, Part I in Schedule of the Environmental Impact Assessment Ordinance (EIAO). The Environmental Impact Assessment (EIA) report was approved by EPD on 16 June 2017 and according to the corresponding Environmental Permit (EP) no. EP-532/2017.

2.1.3 Subsequent to the approval of the EIA report, the layout design of the Project has been slightly modified.

2.1.4 The proposed update design of the Project (hereafter named as “the Proposed Scheme”) has largely followed the EIA Scheme. With the site boundary and footprint of the platform remain unchanged, the following slight modifications to the layout design are made:

- Adoption of split-level design for the platform;
- The water pumps will be installed on the maintenance platform located at mezzanine floor underneath the platform;
- Orientation of the niches is reference to the existing graves and face north east, south-west and west.

2.1.5 In this connection, the environmental review report (ERR) and the corresponding application for variation of EP (VEP) were submitted to the Authority with a conclusion that no material change is resulted from the modification of layout design. The VEP (Permit No.: EP-532/2017/A) was granted on 10 April 2019.

### 2.2 Site Description

2.2.1 The major construction activities under the Project:

- Simple open cut followed by in-situ concrete casting – Construction of split-levels platform and site access;
- Maximum required depth of around 1.7m.of excavation; and
- In-situ concrete casting – Construction of niches

2.2.2 The location plan of the Project site is presented in **Figure 2.1**.

## 2.3 Construction Programme and Activities

2.3.1 The site activities undertaken in the reporting month included:

- Preparation Works for Tree Transplanting

2.3.2 The construction programme is presented in **Appendix A**.

2.3.3 The project organization chart is shown in **Appendix B**. Key personnel and contact particulars are summarised in **Table 2.1**.

**Table 2.1 EM&A Key Personnel and Contact Details**

Department / Company	Role/Position	Name	Contact Number	Fax No.
Food and Environmental Hygiene Department	Project Proponent	Mr. Lee Tze Wah	2746 4129	2744 3568
Architectural Service Department	Works Agent	Ms. Gloria Hui	2867 3753	2290 2158
Cheung Hing Construction Company Ltd.	Main Contractor	Mr. Daniel Tsung	2572 2384	2572 2972
Cheung Hing Construction Company Ltd. (Enquiry hotline)	Main Contractor, Project Manager	Mr. Nelson Tam	9171 6890	2572 2972
	Main Contractor, Site Agent	Mr. Angus Cheng	9804 8670	2572 2972
Percy Thomas Partnership	Project Architect	Mr. Percy Lau	2957 9617	2564 8274
Mott MacDonald Hong Kong Limited	Independent Environmental Checker	Mr Arthur Lo	2828 5994	2827 1823
Allied Environmental Consultants Ltd.	Environmental Team Leader	Ms. Grace Kwok	2815 7028	2815 5399

### 3 STATUS OF ENVIRONMENTAL LICENSES, NOTIFICATIONS AND PERMITS

3.1.1 The relevant environmental licenses, permits and/or notifications on environmental protection for this Project and valid in the reporting month are summarized in **Table 3.1**.

**Table 3.1 Summary of the current status on licences and/or permits**

Permits and/or Licences	Valid Period		Status
	From	To	
Notification of Works Under APCO	23/7/2019	25/5/2020	Notified Acknowledge receipt from EPD on 23/7/2019 (Ref.: 447500)
Wastewater Discharge Licence	-	-	Application submitted on 17/7/2019 Acknowledge receipt from EPD on 23/7/2019 (Ref.: 447503)
Billing account under Waste Disposal Ordinance	-	-	Account Active (Billing account no.: 7030456)
Registration as a Chemical Waste Producer	-	-	Application submitted on 17/7/2019 Acknowledge receipt from EPD on 23/7/2019 (Ref.: 447498)
Construction Noise Permit	-	-	Nil

## 4 IMPLEMENTATION STATUS OF ENVIRONMENTAL PROTECTION MEASURES

- 4.1.1 The Contractor has implemented the relevant environmental mitigation measures as specified in the EIA Reports, EPs and updated EM&A Manual. The implementation status of environmental mitigation measures during the reporting period is summarized in **Appendix C**.
- 4.1.2 Status of required submissions under the EP and EM&A Manual during the reporting period is presented in **Table 4.1**.

**Table 4.1 Status of Required Submissions**

EP Condition	Submission	Date of Submission
3.4	Monthly EM&A Report (July 2019)	15 Aug 2019

## 5 SUMMARY OF ENVIRONMENTAL PERMIT SUBMISSION

5.1.1 The status of the required submission under the EP (up to end of reporting period) is summarized in **Table 5.1**.

**Table 5.1 Summary of the Submissions under the EP**

EP Condition	Submission	Date of Submission
1.12	Notification of commencement date of construction on 15 <sup>th</sup> July 2019	28 Jun 2019
2.5(i)	Management Organization of Main Construction Companies	29 Mar 2019
2.5(ii) (iii)	Management Organization of the ET and the IEC	14 Feb 2019
2.6	Submission of Detailed Vegetation Survey Report and Transplantation Proposal	21 and 27 Feb 2019 9 Apr 2019 3 May 2019 (EP condition fulfilled dated 27 May 2019)
2.9 & 2.10	Submission of Landscape & Visual Mitigation and Tree Preservation Plan(s)	12 Apr 2019
3.3	Submission of Baseline Monitoring Report	25 Mar 2019 24 Jun 2019

## 6 WASTE MANAGEMENT IMPLICATION

### 6.1 Status of Waste Management

In the reporting month, no inert C&D materials was generated and disposed of as public fill and no non-inert C&D materials were generated and disposed of at landfill. The quantities of waste for disposal in the Reporting Period are summarized in **Table 6.1**. A detailed waste flow table is presented in **Appendix D**.

**Table 6.1 Summary of Waste Disposal**

Month/Year	Inert C&D materials disposed, m <sup>3</sup>	Inert C&D materials recycled, m <sup>3</sup>	Non-inert C&D materials disposed, m <sup>3</sup>	Non-inert C&D materials recycled, m <sup>3</sup>	Chemical waste disposed, kg
Aug 2019	0	0	0	0	0

## 7 ENVIRONMENTAL SITE INSPECTION AND AUDIT

### 7.1 Environmental Site Inspection and Audit

7.1.1 Site inspections should be conducted regularly to ensure that appropriate environmental protection and pollution control mitigation measures for air quality, noise, water quality, ecology, waste management and landscape and visual aspects are properly implemented for the construction works activities associated with the Project, as they are one of the most effective tools to enforce the environmental protection requirements at the works sites and works areas.

7.1.2 Regular site inspections/audits shall be carried out at least once per week. All observations and results will be recorded in the data record sheets, which will pass to the Contractor. If non-compliance is found on site, the Event / Action Plan will be implemented.

7.1.3 The areas of inspection/audit shall not be limited to the environmental situation, pollution control and mitigation measures within the site; it will also review the environmental situation outside the site area which is likely to be affected, directly or indirectly, by the site activities. The ET shall make reference to the following information in conducting the inspection/audit.

- The EIA recommendations on environmental protection and pollution;
- mitigation measures;
- Works progress and programme;
- Individual works methodology proposals (which shall include proposal on associated pollution control);
- The contract specifications on environmental protection;
- The relevant environmental protection and pollution control laws; and
- Previous site inspection/ audit results.

7.1.4 The inspection findings and associated recommendations for improvements to the environmental protection and pollution control and outcome of the improvement should be recorded and followed up by the Contractor in an agreed time-frame.

7.1.5 The Architect, ET and Contractor should also carry out ad hoc site inspections if significant environmental problems are identified. Inspections may also be required subsequent to the receipt of environmental complaints, or as part of the investigation/audit work, as specified in the Action Plan for the environmental monitoring and audit.

7.1.6 A total of 4 site inspections were conducted by the ET in this reporting period. Major observations by the ET, actions by the Contractor and outcome are summarized in **Table 7.1**.

7.1.7 During this reporting month, weekly environmental site audits were conducted on 8, 15, 22 and 29 August 2019. IEC attended the joint site inspection on 22 August 2019.

Table 7.1 Summary of Site Inspections

Parameters	Date	Observations / Reminders / Recommendations	Action taken by Contractor
Water Quality	30 Jul 2019	<u>Reminder:</u> The Contractor was reminded to provide temporary drainage channels and mitigation measures as appropriate to direct surface run-off from construction site, subject to approval of any temporary drainage proposal.	This item was reviewed during site inspection.
	8 Aug 2019	<u>Reminder:</u> The Contractor was reminded to provide temporary drainage channels and mitigation measures as appropriate to direct surface run-off from construction site, subject to approval of any temporary drainage proposal.	This item was reviewed during site inspection.
	15 Aug 2019	<u>Reminder:</u> The Contractor was reminded to provide temporary drainage channels and mitigation measures as appropriate to direct surface run-off from construction site, subject to approval of any temporary drainage proposal.	This item was reviewed during site inspection.
	22 Aug 2019	<u>Reminder:</u> The Contractor was reminded to provide temporary drainage channels and mitigation measures as appropriate to direct surface run-off from construction site, subject to approval of any temporary drainage proposal.	The Contractor provided impervious sheeting to prevent the soil from washing out into adjacent step channel at the berm as observed on 29 Aug 2019. <b>(Item Closed)</b>
Waste/Chemical Management	30 Jul 2019	<u>Reminder:</u> The Contractor was reminded to provide and implement the waste management plan.	This item was reviewed during site inspection.

Parameters	Date	Observations / Reminders / Recommendations	Action taken by Contractor
<b>Waste/Chemical Management (cont'd)</b>	8 Aug 2019	<u>Reminder:</u> The Contractor was reminded to provide and implement the waste management plan.	This item was reviewed during site inspection.
	8 Aug 2019	<u>Reminder:</u> The Contractor was reminded to implement trip-ticket system to ensure disposal of C&D waste being documented.	This item was reviewed during site inspection.
	15 Aug 2019	<u>Reminder:</u> The Contractor was reminded to provide and implement the waste management plan.	This item was reviewed during site inspection.
	15 Aug 2019	<u>Reminder:</u> The Contractor was reminded to implement trip-ticket system to ensure disposal of C&D waste being documented.	This item was reviewed during site inspection.
	22 Aug 2019	<u>Reminder:</u> The Contractor was reminded to provide and implement the waste management plan.	This item was reviewed during site inspection.
	22 Aug 2019	<u>Reminder:</u> The Contractor was reminded to implement trip-ticket system to ensure disposal of C&D waste being documented.	This item was reviewed during site inspection.
	29 Aug 2019	<u>Reminder:</u> The Contractor was reminded to provide and implement the waste management plan.	This item was reviewed during site inspection.
	29 Aug 2019	<u>Reminder:</u> The Contractor was reminded to implement trip-ticket system to ensure disposal of C&D waste being documented.	This item was reviewed during site inspection.

Parameters	Date	Observations / Reminders / Recommendations	Action taken by Contractor
Ecology	8 Aug 2019	<u>Observation:</u> Tree waste resulting from tree felling works was found accumulated within works area. Tree protection zone should be installed and set up properly to protect all trees to be retained or transplanted within works area. Also, the Contractor should clear up the tree waste as soon as possible.	This item was reviewed during site inspection.
	15 Aug 2019	<u>Observation:</u> Tree waste resulting from tree felling works was found accumulated within works area. Tree protection zone should be installed and set up properly to protect all trees to be retained or transplanted within works area. Also, the Contractor should clear up the tree waste as soon as possible.	This item was reviewed during site inspection.
	22 Aug 2019	<u>Observation:</u> Remaining tree waste resulting from tree felling works was observed within works area. Tree protection zone should be installed and set up properly to protect all trees to be retained or transplanted within works area. Also, the Contractor should clear up the remaining tree waste as soon as possible.	This item was reviewed during site inspection.
	29 Aug 2019	<u>Observation:</u> Remaining tree waste resulting from tree felling works was observed within works area. The Contractor was requested to clear up the remaining tree waste as soon as possible and avoid disturbing any plant species of conservation importance.	This item was reviewed during site inspection.

Plant Species of Conservation Interest, *Aquilaria sinensis*

- 7.1.8 The ET as well as IEC were notified by Architect's representative about the tree inspection conducted by ArchSD's representative after the typhoon 'Wipha' (no. 8 typhoon signal on 31 July 2019) which found a damaged tree but status of tree condition was uncertain. The ET's ecologist then conducted a surveillance visit on 2 August 2019, to monitor the condition of the concerned *Aquilaria Sinensis* (AT01). The trunk of *Aquilaria sinensis* was bended after typhoon and it was rectified during the visit.
- 7.1.9 A joint tree inspection was carried out by the ET as well as the ecologist with the representatives from Contractor, Contractor's arborist, landscape architect and resident site representative on 15 August 2019, to ascertain the condition of *Aquilaria sinensis* (AT01) on further arrangement of transplantation. The health condition of the concerned *Aquilaria sinensis* (AT01) was fair and considered suitable for transplantation. Transplantation was scheduled to carry out on 30 August 2019, or as soon as possible, subject to weather condition. AT01 was also found with the provision of temporary supporting during the site inspection. The Contractor was reminded to provide a tree tag for identification which was rectified by the Contractor on site during inspection.
- 7.1.10 Within this reporting month, bi-weekly landscape site audits were conducted on 15 and 29 August 2019.

**Table 7.2 Summary of Landscape Inspections**

Date	Observations / Reminders / Recommendations	Action taken by Contractor	Status
15 Aug 2019	There was no major environmental deficiency.	-	-
29 Aug 2019	There was no major environmental deficiency.	-	-

## **8 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION**

### **8.1 Environmental Complaint, Notification of Summon and Successful Prosecution in the Reporting Period**

8.1.1 In the reporting period, no non-compliance, complaint, inspection notice, notification of summons or prosecution was received. The cumulative statistics on complaints, notifications of summons and successful prosecutions are appended in **Appendix E**.

## **9 FUTURE KEY ISSUES**

### **9.1 Key Issues for the Coming Month**

9.1.1 The major construction works in the coming reporting month are anticipated to include:

- Tree Felling;
- Tree Transplanting;
- Site Clearance; and
- Erection of Hoarding.

9.1.2 The tentative construction program for the Project is provided in **Appendix A**.

## 10 CONCLUSIONS AND RECOMMENDATIONS

### 10.1 Conclusions

10.1.1 This is the monthly EM&A report prepared for the construction phase of Mui Wo Lai Chi Yuen Cemetery Extension and covers the reporting month in August 2019.

10.1.2 The ET has conducted weekly site inspections while the IEC has carried out joint site inspection on monthly basis.

10.1.3 Numbers of complaints, summons and successful prosecutions in the reporting month are summarised below:

- **Complaints:** Zero.
- **Summons:** Zero.
- **Successful Prosecutions:** Zero.

### 10.2 Recommendations

10.2.1 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

#### *Water Quality*

- Proper drainage channels/bunds should be provided at the site boundaries to collect/intercept the surface run-off from works areas.

#### *Waste/ Chemical Management*

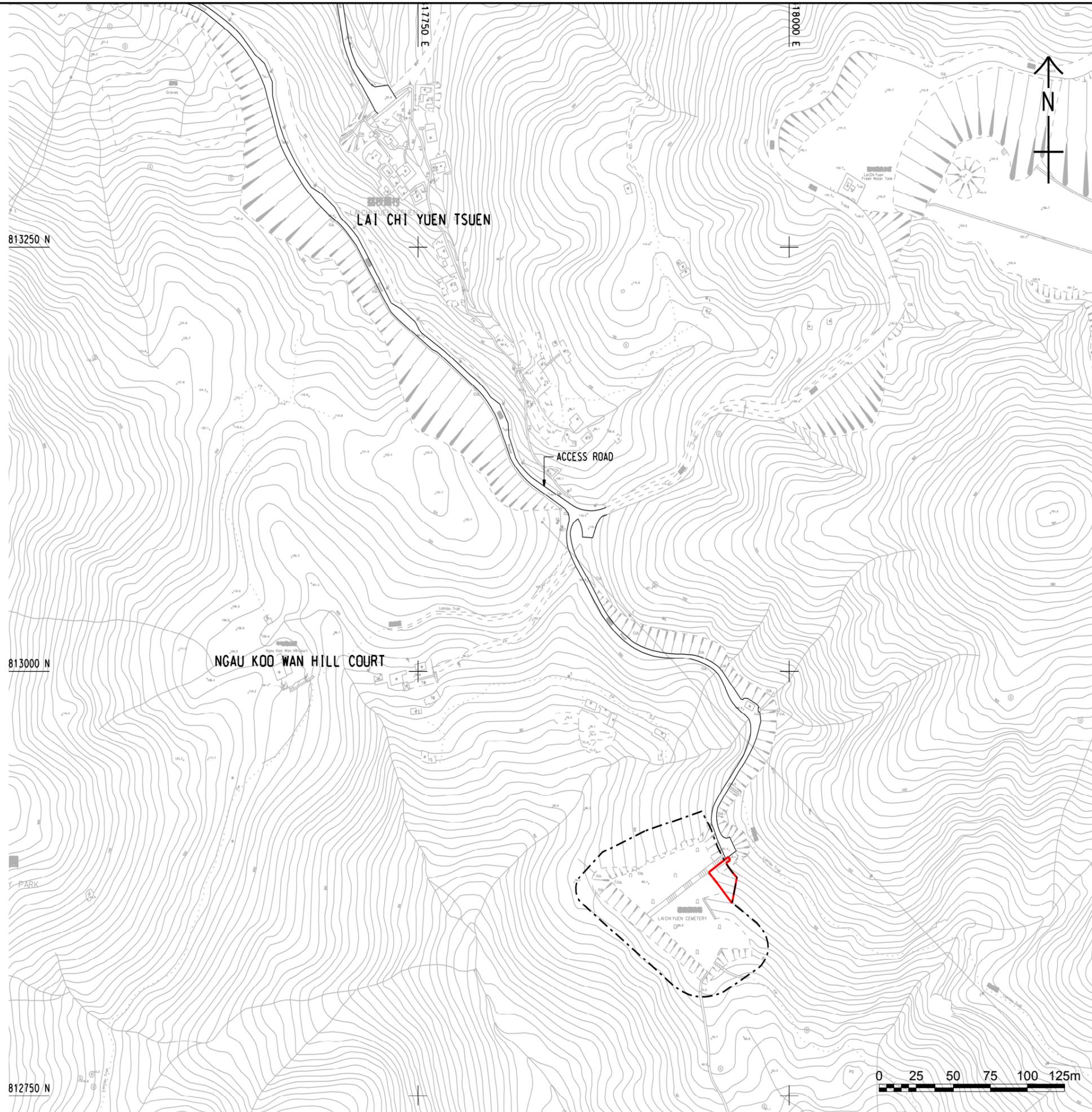
- To check for any accumulation of waste materials or rubbish on site
- To ensure the implementation of good site practices, e.g. trip-ticket system, on site sorting and recycling, etc. on waste management

#### *Ecology*

- Direct impact to plant species of conservation importance recorded in the vicinity of the construction sites shall be avoided
- To properly implement and maintain the tree protection measures

*Figure*

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NOTES :

- Boundary of Existing Lai Chi Yuen Cemetery
- Project site

Consultant



**Allied Environmental Consultants Limited**  
**ACousticians & ENVIRONMENTAL ENGINEERS**

Project No. : 1626

File Name :

Project : Mui Wo Lai Chi Yuen Extension

Drawing Title : Location Plan

Drawing No : Figure 2-1	Revision : 0
Scale : As shown	Date : Dec 2018

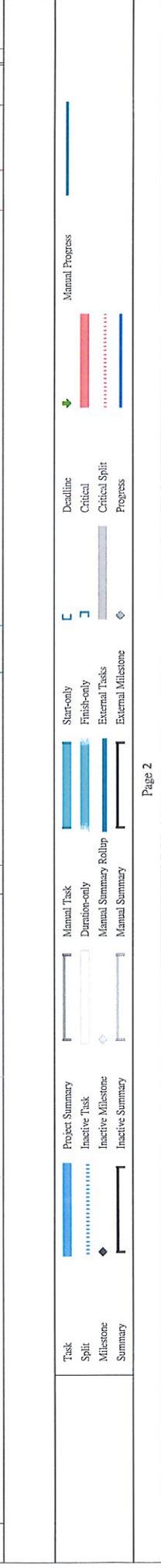
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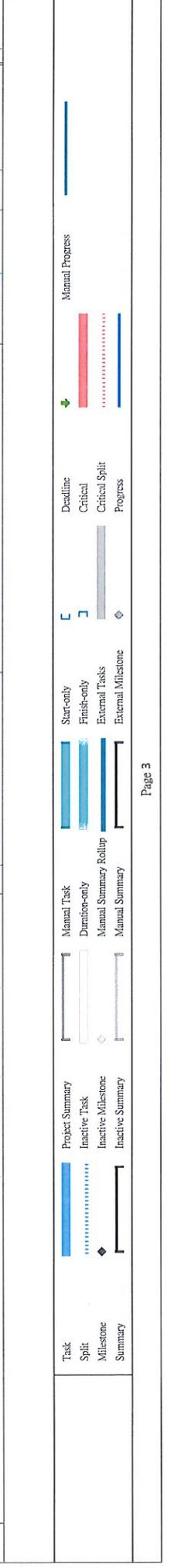
*Appendix A*  
*Construction Programme*



ID	Task Name	Duration	Start	Finish	Rev. 0
28	Monitoring Plan	15 days	Tue 26/3/19	Tue 9/4/19	Oct 2, 2020
29	As-built landscape drawings	7 days	Tue 26/3/19	Mon 1/4/19	Oct 1, 2020
30	<b>Design Issue</b>	178 days	Tue 26/3/19	Thu 19/9/19	Oct 4, 2019
31	<b>Combined Services Drawings</b>	88 days	Mon 24/6/19	Thu 19/9/19	Oct 3, 2019
32	Preparation of CSD CBWD	30 days	Mon 24/6/19	Tue 23/7/19	Oct 2, 2019
33	Comment and Review by Consultant	30 days	Wed 24/7/19	Thu 22/8/19	Oct 1, 2020
34	Finalization of CSD CBWD	14 days	Fri 23/8/19	Thu 5/9/19	Oct 4, 2019
35	Approval by Consultant	14 days	Fri 6/9/19	Thu 19/9/19	Oct 3, 2019
36	<b>ELS</b>	88 days	Mon 24/6/19	Thu 19/9/19	Oct 2, 2020
37	Drawings and Calculation Preparation	30 days	Mon 24/6/19	Tue 23/7/19	Oct 1, 2020
38	Comment and Review by Consultant	30 days	Wed 24/7/19	Thu 22/8/19	Oct 4, 2019
39	Finalization of ELS Design	14 days	Fri 23/8/19	Thu 5/9/19	Oct 3, 2019
40	Approval by Consultant	14 days	Fri 6/9/19	Thu 19/9/19	Oct 2, 2020
41	<b>BS Drawings</b>	113 days	Tue 26/3/19	Tue 16/7/19	Oct 1, 2020
42	Preparation of Shop Drawings	68 days	Tue 26/3/19	Sat 1/6/19	Oct 4, 2019
43	Comment, review by Consultant and resubmission	31 days	Sun 2/6/19	Tue 27/7/19	Oct 3, 2019
44	Approval by Consultant	14 days	Wed 3/7/19	Tue 16/7/19	Oct 2, 2020
45	<b>Site Preparation</b>	39 days	Tue 18/6/19	Fri 26/7/19	Oct 1, 2020
46	Protection of existing trees	2 days	Tue 18/6/19	Wed 19/6/19	Oct 4, 2019
47	<b>Tree felling work and transplant</b>	16 days	Thu 20/6/19	Fri 5/7/19	Oct 3, 2019
48	Tree felling Phase 1	7 days	Thu 20/6/19	Wed 26/6/19	Oct 2, 2020
49	Transplant of Aquilaria Sinensis	2 days	Thu 27/6/19	Fri 28/6/19	Oct 1, 2020
50	Tree felling Phase 2	7 days	Sat 29/6/19	Fri 5/7/19	Oct 4, 2019
51	Erection of Hoarding	21 days	Sat 6/7/19	Fri 26/7/19	Oct 3, 2019
52	<b>Construction Works</b>	299 days	Mon 22/7/19	Fri 15/5/20	Oct 2, 2020
53	<b>RC Structure</b>	222 days	Mon 22/7/19	Fri 28/2/20	Oct 1, 2020
54	Temporary drainage diversion	5 days	Mon 22/7/19	Fri 26/7/19	Oct 4, 2019

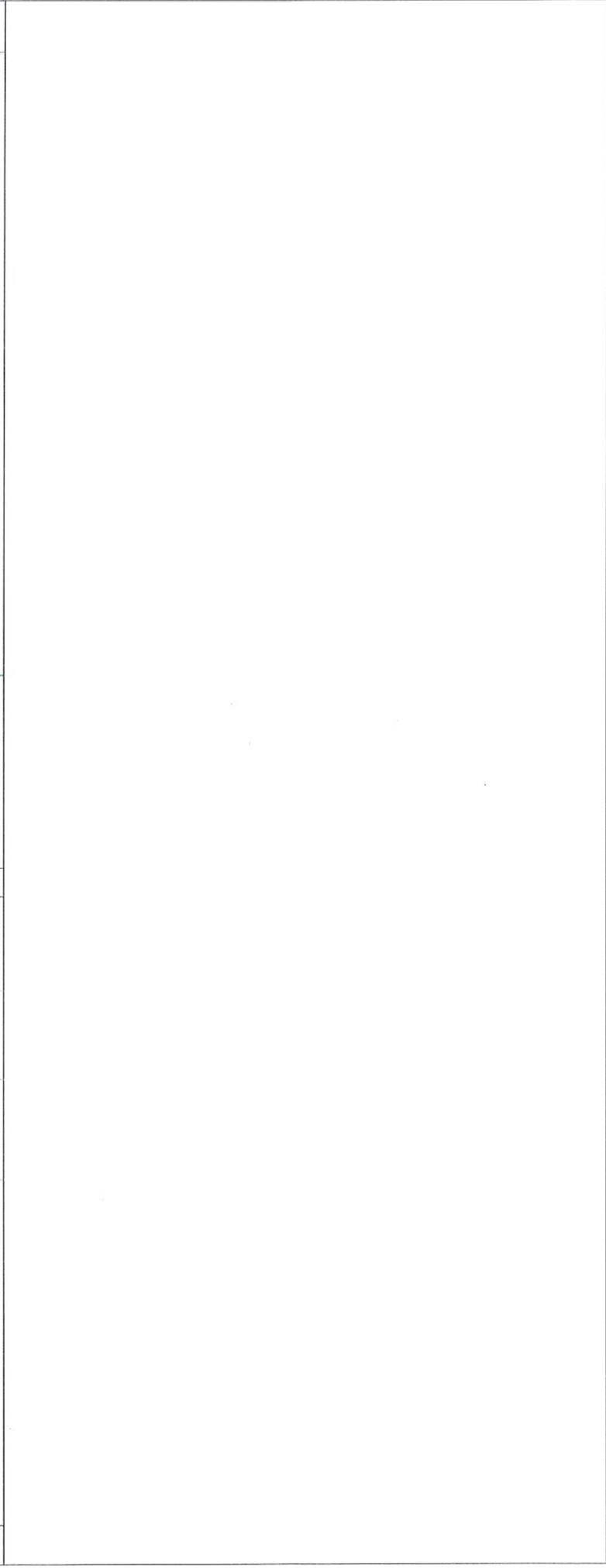


ID	Task Name	Duration	Start	Finish	Rev. 0
55	Demolition of existing rain water drainage with manholes, excavation of footings	30 days	Sat 27/7/19	Sun 25/8/19	Oct 2 2020 14/11/2019 15/11/2019 16/11/2019 17/11/2019 18/11/2019 19/11/2019 20/11/2019 21/11/2019 22/11/2019 23/11/2019 24/11/2019 25/11/2019 26/11/2019 27/11/2019 28/11/2019 29/11/2019 30/11/2019
56	Construction of footings	30 days	Mon 26/8/19	Tue 24/9/19	
57	<b>B/F</b>	<b>57 days</b>	<b>Sun 10/11/19</b>	<b>Sun 10/11/19</b>	
58	Erection of falsework	10 days	Sun 15/9/19	Tue 24/9/19	
59	Formwork	7 days	Wed 25/9/19	Tue 1/10/19	
60	Rebar fixing	7 days	Wed 2/10/19	Tue 8/10/19	
61	Concreting	2 days	Wed 9/10/19	Thu 10/10/19	
62	Curing	28 days	Fri 11/10/19	Thu 7/11/19	
63	Removal of falsework	3 days	Fri 8/11/19	Sun 10/11/19	
64	<b>LG/F</b>	<b>57 days</b>	<b>Fri 25/10/19</b>	<b>Fri 20/12/19</b>	
65	Erection of falsework	10 days	Fri 25/10/19	Sun 3/11/19	
66	Formwork	7 days	Mon 4/11/19	Sun 10/11/19	
67	Rebar fixing	7 days	Mon 11/11/19	Sun 17/11/19	
68	Concreting	2 days	Mon 18/11/19	Tue 19/11/19	
69	Curing	28 days	Wed 20/11/19	Tue 17/12/19	
70	Removal of falsework	3 days	Wed 18/12/19	Fri 20/12/19	
71	<b>UG/F</b>	<b>57 days</b>	<b>Wed 4/12/19</b>	<b>Wed 29/1/20</b>	
72	Erection of falsework	10 days	Wed 4/12/19	Fri 13/12/19	
73	Formwork	7 days	Sat 14/12/19	Fri 20/12/19	
74	Rebar fixing	7 days	Sat 21/12/19	Fri 27/12/19	
75	Concreting	2 days	Sat 28/12/19	Sun 29/12/19	
76	Curing	28 days	Mon 30/12/19	Sun 26/1/20	
77	Removal of falsework	3 days	Mon 27/1/20	Wed 29/1/20	
78	Slope make good and reinstatement works	30 days	Thu 30/1/20	Fri 28/2/20	
79	<b>Architectural Works</b>	<b>147 days</b>	<b>Sat 21/12/19</b>	<b>Fri 15/5/20</b>	
80	<b>B/F - Maintenance Platform</b>	<b>125 days</b>	<b>Sat 21/12/19</b>	<b>Thu 23/4/20</b>	





ID	Task Name	Duration	Start	Finish	Rev.
104	T&C	5 days	Sun 12/4/20	Thu 16/4/20	Qtr 2, 2020 11/23/21/3 1/24 11/24/21/4 1/5 11/25/21/5 1/6 11/26/21/6 1/7 11/27/21/7 1/8 11/28/21/8 1/9 11/29/21/9 1/10 11/30/21/10 1/11 11/31/21/11 1/12 11/1/21/12 1/13 11/2/21/13 1/14 11/3/21/14 1/15 11/4/21/15 1/16 11/5/21/16 1/17
105	<b>LG - Meter Kiosk</b>	<b>75 days</b>	<b>Wed 26/2/20</b>	<b>Sun 10/5/20</b>	Qtr 1, 2020 1/1 1/2 1/3 1/4 1/5 1/6 1/7 1/8 1/9 1/10 1/11 1/12 1/13 1/14 1/15 1/16 1/17 1/18 1/19 1/20 1/21 1/22 1/23 1/24 1/25 1/26 1/27 1/28 1/29 1/30 1/31 2/1 2/2 2/3 2/4 2/5 2/6 2/7 2/8 2/9 2/10 2/11 2/12 2/13 2/14 2/15 2/16 2/17 2/18 2/19 2/20 2/21 2/22 2/23 2/24 2/25 2/26 2/27 2/28 2/29 2/30 3/1 3/2 3/3 3/4 3/5 3/6 3/7 3/8 3/9 3/10 3/11 3/12 3/13 3/14 3/15 3/16 3/17 3/18 3/19 3/20 3/21 3/22 3/23 3/24 3/25 3/26 3/27 3/28 3/29 3/30 3/31 4/1 4/2 4/3 4/4 4/5 4/6 4/7 4/8 4/9 4/10 4/11 4/12 4/13 4/14 4/15 4/16 4/17 4/18 4/19 4/20 4/21 4/22 4/23 4/24 4/25 4/26 4/27 4/28 4/29 4/30 5/1 5/2 5/3 5/4 5/5 5/6 5/7 5/8 5/9 5/10 5/11 5/12 5/13 5/14 5/15 5/16 5/17 5/18 5/19 5/20 5/21 5/22 5/23 5/24 5/25 5/26 5/27 5/28 5/29 5/30 5/31 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 6/11 6/12 6/13 6/14 6/15 6/16 6/17 6/18 6/19 6/20 6/21 6/22 6/23 6/24 6/25 6/26 6/27 6/28 6/29 6/30 7/1 7/2 7/3 7/4 7/5 7/6 7/7 7/8 7/9 7/10 7/11 7/12 7/13 7/14 7/15 7/16 7/17 7/18 7/19 7/20 7/21 7/22 7/23 7/24 7/25 7/26 7/27 7/28 7/29 7/30 7/31 8/1 8/2 8/3 8/4 8/5 8/6 8/7 8/8 8/9 8/10 8/11 8/12 8/13 8/14 8/15 8/16 8/17 8/18 8/19 8/20 8/21 8/22 8/23 8/24 8/25 8/26 8/27 8/28 8/29 8/30 8/31 9/1 9/2 9/3 9/4 9/5 9/6 9/7 9/8 9/9 9/10 9/11 9/12 9/13 9/14 9/15 9/16 9/17 9/18 9/19 9/20 9/21 9/22 9/23 9/24 9/25 9/26 9/27 9/28 9/29 9/30 10/1 10/2 10/3 10/4 10/5 10/6 10/7 10/8 10/9 10/10 10/11 10/12 10/13 10/14 10/15 10/16 10/17 10/18 10/19 10/20 10/21 10/22 10/23 10/24 10/25 10/26 10/27 10/28 10/29 10/30 10/31 11/1 11/2 11/3 11/4 11/5 11/6 11/7 11/8 11/9 11/10 11/11 11/12 11/13 11/14 11/15 11/16 11/17 11/18 11/19 11/20 11/21 11/22 11/23 11/24 11/25 11/26 11/27 11/28 11/29 11/30 12/1 12/2 12/3 12/4 12/5 12/6 12/7 12/8 12/9 12/10 12/11 12/12 12/13 12/14 12/15 12/16 12/17 12/18 12/19 12/20 12/21 12/22 12/23 12/24 12/25 12/26 12/27 12/28 12/29 12/30 12/31
106	Conduit Works and Cable Wiring	35 days	Wed 26/2/20	Tue 31/3/20	
107	Power and Lighting Installation	35 days	Wed 1/4/20	Tue 5/5/20	
108	T&C	5 days	Wed 6/5/20	Sun 10/5/20	
109	<b>Handover</b>	<b>10 days</b>	<b>Sat 16/5/20</b>	<b>Mon 25/5/20</b>	
110	Pre-handover inspection	1 day	Sat 16/5/20	Sat 16/5/20	
111	Defect Rectification	5 days	Sun 17/5/20	Thu 21/5/20	
112	Final Cleansing	3 days	Fri 22/5/20	Sun 24/5/20	
113	Final Handover inspection	1 day	Mon 25/5/20	Mon 25/5/20	



Legend:

- Task
- Split
- Milestone
- Summary
- Project Summary
- Inactive Task
- Inactive Milestone
- Inactive Summary
- Manual Task
- Duration-only
- Manual Summary Rollup
- Manual Summary
- Start-only
- Finish-only
- External Task
- External Milestone
- Deadline
- Critical
- Critical Split
- Progress
- Manual Progress

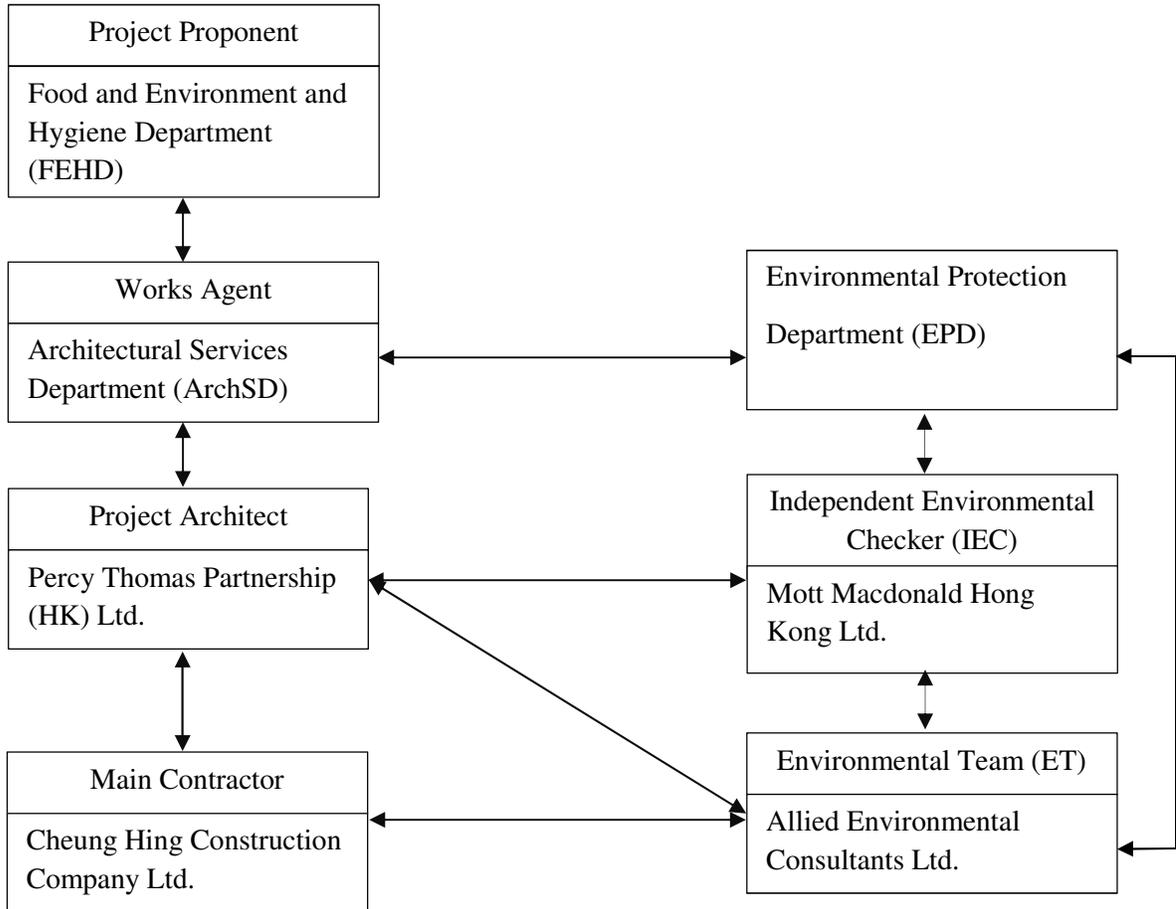
*Appendix B*

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*Project Organization Chart*

**Appendix B Project Organization Chart**

↔ Line of Communication



*Appendix C*

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*Implementation of Environmental  
Mitigation Measures*

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
<b>Air Quality Impact (Construction Phase)</b>						
3.5.1	A1	Sufficient dust suppression measures as stipulated under the <i>Air Pollution Control (Construction Dust) Regulation</i> and good site practices should be properly implemented. <ul style="list-style-type: none"> <li>a) Use of regular watering, to reduce dust emissions from exposed site surfaces and unpaved roads particularly during dry weather;</li> <li>b) Use of frequent watering of particular dusty construction areas close to ASRs;</li> <li>c) Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines;</li> <li>d) Open temporary stockpiles should be avoided or covered. Prevent placing dusty material storage plies near ASRs;</li> <li>e) Tarpaulin covering of all dusty</li> </ul>	Active works areas / throughout the construction period / upon completion of all construction activities	Contractor	EIAO-TM, AQOs	N/A  N/A  N/A  N/A  N/A

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
		vehicle loads transported to, from and between site locations; f) Establishment and use of vehicle wheel and body washing facilities at the exit point of the site; g) Imposition of speed control for vehicles on unpaved site roads. 8 km/hr is the recommended limit; h) Routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.				N/A  N/A  N/A
<b>Noise Impact (Construction Phase)</b>						
4.7.1	N1	Good site practice listed below and the noise control requirements stated in EPD's "Recommended Pollution Control Clauses for Construction Contracts" is recommended: <ul style="list-style-type: none"> <li>• Only well-maintained plant to be operated onsite and plant should be serviced regularly during construction works;</li> <li>• Machines and plant that may be in intermittent use to be shut down between work periods or should be</li> </ul>	Active works areas / throughout the construction period / upon completion of all construction activities	Contractor	EIAO-TM, NCO, EPD's "Recommended Pollution Control Clauses for Construction Contracts"	N/A  N/A

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
		throttled down to a minimum; <ul style="list-style-type: none"> <li>• Plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;</li> <li>• Mobile plant should be sited as far away from NSRs as possible; and</li> <li>• Material stockpiles and other structures to be effectively utilized, where practicable, to screen noise from on-site construction activities.</li> </ul>				N/A  N/A  N/A
<b>Hazard to Life (Construction Phase)</b>						
5.16.12	H1	There are a number of measures recommended during construction stage, which include: <ul style="list-style-type: none"> <li>• Sufficient number of face masks should be purchased so that the construction workers can be protected during accidental chlorine release</li> <li>• The number of workers on site during construction stage should be kept within the level as assessed in this report.</li> <li>• FEHD/ArchSD/the responsible personnel of the construction site</li> </ul>	Works area / Entire construction stage / upon completion of construction works	Project proponent (FEHD / ArchSD) and contractor	EIAO-TM	N/A  N/A  N/A

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		<p>should keep effective communication with Police or relevant authorities to ensure a proper evacuation/emergency response in case of a gas release incident. FEHD/ArchSD/the responsible personnel of the construction site should ensure all workers on site to be familiar with the route to escape. Diagram showing the escape routes to a safe place should be posted in the site notice boards and at the entrance/exit of site.</p> <ul style="list-style-type: none"> <li>• Specific means of providing a rapid and direct warning (e.g. Siren and Flashing Light) to construction workers in the event of chlorine gas release in the SMBWTW should be determined and made known to the construction workers.</li> <li>• The construction site officer should establish a communication channel with the SMBWTW operation personnel during construction stage. Upon receiving the notice of an external gas leak at the SMBWTW, the construction site officer should direct</li> </ul>				<p>N/A</p> <p>N/A</p>

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		the workers to evacuate by following the instructions of Police or relevant authorities as appropriate. <ul style="list-style-type: none"> <li>Induction Training should be provided to any staff before working on site.</li> <li>The responsible officer of the construction site should ensure all construction staff are familiar with the evacuation routes and /or location of the protective gears (if available).</li> </ul>				N/A  N/A
<b>Water Quality (Construction Phase)</b>						
6.8.1	W1	<u>Construction Site Runoff</u>  The following measures are recommended to be implemented: <ul style="list-style-type: none"> <li>Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided</li> </ul>	Active works areas / throughout the construction period / upon completion of all construction activities	Contractor	EIAO-TM, WQOs, ProPECC PN 1/94 Construction Site Drainage, WDO	Rem

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		<p>on site boundaries where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.</p> <ul style="list-style-type: none"> <li>• Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.</li> <li>• Construction works should be programmed to minimize soil excavation works in rainy seasons (April to September). If excavation in soil cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of</li> </ul>				<p>N/A</p> <p>N/A</p>

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
		<p>excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.</p> <ul style="list-style-type: none"> <li>• Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.</li> <li>• Construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms.</li> <li>• Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.</li> </ul>				<p>N/A</p> <p>N/A</p> <p>N/A</p>

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
		Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.				
6.8.2	W2	<u>General Construction Activities</u> • Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	Active works areas /throughout the construction period /upon completion of all construction activities	Contractor	EIAO-TM, WQOs, ProPECC PN 1/94 Construction Site Drainage , WDO	N/A
6.8.3	W3	<u>Site Effluent</u> There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce	Active works areas / throughout the construction period / upon completion of all construction activities	Contractor	EIAO-TM, WQOs, ProPECC PN 1/94 Construction Site Drainage , WDO	N/A

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
		<p>the effluent discharge volume. If monitoring of the treated effluent quality from the sites is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence which is under the ambit of regional office (RO) of EPD.</p>				
6.8.4 – 6.8.6	W4	<p><u>Accidental Spillage of Chemicals</u></p> <p>Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The <i>Waste Disposal Ordinance (Cap 354)</i> (WDO) and its subsidiary regulations in particular the <i>Waste Disposal (Chemical Waste) (General) Regulation</i>, should be observed and complied with for control of chemical wastes.</p> <ul style="list-style-type: none"> <li>Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage</li> </ul>	Active works areas / throughout the construction period / upon completion of all construction activities	Contractor	EIAO-TM, WQOs, ProPECC PN 1/94 Construction Site Drainage , WDO	N/A

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
		<p>should only be undertaken within the areas appropriately equipped to control these discharges.</p> <ul style="list-style-type: none"> <li>• Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the WDO details the requirements to deal with chemical wastes. General requirements are given as follows:</li> <li>• Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;</li> <li>• Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and</li> <li>• Storage area should be selected at a safe location on site and adequate space should be allocated to the</li> </ul>				

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		storage area.				
6.8.7-6.8.8	W5	<p><u>Sewage Arising from Workforces</u></p> <p>The construction workforce on site will generate sewage. It is recommended to provide sufficient portable toilets in the works areas. Contractual desludging service should be deployed to clean the portable toilets on a regular basis.</p> <p>Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the surrounding environment.</p> <p>Regular environmental audit of the construction site will provide an effective control of any malpractices and can encourage continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the project would not cause water pollution problem after undertaking all required measures.</p>	Active works areas / throughout the construction period / upon completion of all construction activities	Contractor	EIAO-TM, WQOs, ProPECC PN 1/94 Construction Site Drainage , WDO	N/A  N/A  N/A
<b>Waste Management (Construction Phase)</b>						
7.6.1 to	WM1	<u>Good Site Practices</u>	Active works areas / throughout the	Contractor	ETWB TC(W) 19/2005, TC(W)	

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
7.6.2		<ul style="list-style-type: none"> <li>Appropriate waste handling, transportation and disposal methods for all waste arising generated during the construction works for the Project should be implemented</li> </ul> <p>Adverse impacts from waste management are not anticipated, provided that good site practices are strictly followed. Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> <li>The contractor shall prepare a Waste Management Plan (WMP) in accordance with the requirements set out in the ETWB TC(W) 19/2005, Waste Management on Construction Site, for the Engineer's Representative approval.</li> <li>Nomination of approved personnel, such as a site manager, to be responsible for good site practices, and making arrangements for collection of all wastes generated at the site and effective disposal to an appropriate facility.</li> <li>Training of site personnel in proper waste management and chemical</li> </ul>	construction period / upon completion of all construction activities		6/2010, WDO, Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes	<p>Obs</p> <p>Rem</p> <p>N/A</p> <p>N/A</p>

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
		waste handling procedures. <ul style="list-style-type: none"> <li>• Provision of sufficient waste reception/ disposal points, of a suitable vermin-proof design that minimizes windblown litter.</li> <li>• Arrangement for regular collection of waste for transport off-site and final disposal.</li> <li>• Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</li> <li>• Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.</li> <li>• A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed.</li> </ul>				N/A  N/A  N/A  N/A  N/A
7.6.3	WM2	<u>Waste Reduction Measures</u>  Good management and control of construction site activities/ processes can minimise the generation of waste. Waste reduction is best achieved at the planning	Active works areas / throughout the construction period / upon completion of all construction	Contractor	ETWB TC(W) 19/2005, TC(W) 6/2010, WDO, Code of Practice on the	

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
		and design stage, as well as by ensuring the implementation of good site practices. <ul style="list-style-type: none"> <li>• Prior to disposal of C&amp;D waste, wood, steel and other materials should be separated for reuse, recycling to minimize the quality of waste to be disposed of at landfill site.</li> <li>• Minimize use of wood and reuse non-timber formwork to reduce C&amp;D waste</li> <li>• As far as practicable, segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li> <li>• Encourage collection of aluminum cans, plastic bottles and packaging material and office paper.</li> </ul>	activities		Packaging, Labelling and Storage of Chemical Wastes	N/A  N/A  N/A  N/A
7.6.4 – 7.6.7	WM3	<u>C&amp;D Materials</u>  With good site management, it can reduce overordering of C&D materials such as concrete and mortars. Alternatives such as still frameworks and plastic fencing can be considered to increase the chances for reuse.	Active works areas / throughout the construction period / upon completion of all construction activities	Contractor	ETWB TC(W) 19/2005, TC(W) 6/2010, WDO, Code of Practice on the Packaging, Labelling and	N/A

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Relevant Legislation and Guidelines	Implementation Status (✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable)
		<p>In order to minimize the potential impacts resulting from collection and transportation of C&amp;D materials for off-site disposal, the excavated materials comprising fill materials should be reused on-site as backfilling materials or for landscaping as far as practicable to avoid disposal off-site.</p> <p>C&amp;D waste, such as wood, plastic, steels and other metals should be reused or recycled and, as a last resort, disposal of to the Outlying Islands Transfer Facilities - Mui Wo Station. A suitable area should be designated within the site for temporary stockpiling of C&amp;D materials and to facilitate the sorting process. In order to monitor the disposal of C&amp;D materials at the designated public fill reception facility and landfill and to control fly-tipping, a trip ticket system should be included, with reference to Development Bureau TC(W) 6/2010 for details.</p> <p>The inert C&amp;D materials to be disposed of at public fill reception facilities shall be materials only consists of brick, concrete, cement plaster, soil and inert building</p>			Storage of Chemical Wastes	

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		debris. The materials shall be free from plastics, chemical waste, industrial metals and other materials that are considered unsuitable at the facility.				
7.6.8	WM4	<p><u>General Refuse</u></p> <p>General refuse should be stored in covered bins or compaction units separate from C&amp;D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site regularly, separately from C&amp;D materials. An enclosed and covered area is preferred to reduce the occurrence of “wind blown” light materials. In addition, a sufficient number of covered bins shall be provided on site for containment of general refuse to prevent visual impacts and nuisance to the sensitive surrounding. The Contractor should carry out an education programme for workers in avoiding, reducing, reusing and recycling of materials generation. Posters and leaflets advising on the use of the bins should also be provided in the site as reminders.</p>	Active works areas / throughout the construction period / upon completion of all construction activities	Contractor	ETWB TC(W) 19/2005, TC(W) 6/2010, WDO, Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes	N/A
7.6.10	WM5	<u>Chemical Waste</u>	Active works areas / throughout the	Contractor	ETWB TC(W) 19/2005, TC(W)	N/A

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		For disposal of chemical wastes produced at the construction site, the Contractor is required for register with the EPD as a Chemical Waste Producer and to follow the requirements stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used. Appropriate labels should be securely attached on each chemical waste container indicating the chemical characteristics of the chemical waste, such as explosives, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall also use a licensed waste collector engaged to transport and dispose of the chemical wastes to the Chemical Waste Treatment Centre at Tsing Yi (CWTY) or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	construction period / upon completion of all construction activities		6/2010, WDO, Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes	
<b>Ecological Impact (Construction Phase)</b>						
7.3.1	5.3.2	In order to avoid woodland of higher ecological value and minimize the loss of	Active works areas / throughout the	Project proponent	DEVB TCW No. 7/2015, EIAO-	N/A

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		woodland / plantation, the currently proposed option has confined the new niches to be built within the existing Lai Chi Yuen Cemetery and only minimal area (about 7.5m <sup>2</sup> ) outside the cemetery boundary is required for the proposed barrier-free site access, which is indispensable for the development.	construction period / upon completion of all construction activities	(FEHD / ArchSD) & Contractor	TM	
8.7.3 to 8.7.4	E2	<ul style="list-style-type: none"> <li>• Habitat loss could be minimized in the first instance by retaining existing vegetation wherever possible, particularly mature and semi-mature trees present within the works areas.</li> <li>• Any trees retained should be adequately protected during the construction phase to promote their health and longevity.</li> <li>• Areas which would be temporarily affected by construction activities should be reinstated after completing the construction works.</li> <li>• Hoarding or fencing should be erected around the works areas during the construction phase to restrict access to natural habitats adjacent to works areas by site workers to reduce human</li> </ul>	Active works areas / throughout the construction period / upon completion of all construction activities	Project proponent (FEHD / ArchSD) & Contractor	DEVB TCW No. 7/2015, EIAO-TM	N/A  Obs  N/A  N/A



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		<p>affected individuals, assessment of the suitability and or practicality of the transplantation) and locations of receptor site(s), transplantation methodology, implementation programme of transplantation, post transplantation monitoring and maintenance programme.</p> <p>The proposal should be submitted to and approved by AFCD prior to commencement of any works (including ground investigation). The approved transplantation works should be carried out before the commencement of construction works and should be supervised by a qualified botanist / horticulturist / Certified Arborist with relevant experience in transplanting flora species of conservation importance.</p>				✓
8.7.8 to 8.7.12	E4	<p>Construction dust should be suppressed to avoid and minimize the dust covering leaves of plants that would affect their photosynthesis, and thus their health and growth:</p> <ul style="list-style-type: none"> <li>Regular watering, to reduce dust emissions from exposed site surfaces and unpaved roads.</li> </ul>	Active works areas / throughout the construction period / upon completion of all construction activities	Contractor	EIAO-TM	N/A

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		<ul style="list-style-type: none"> <li>• Proper storage of construction materials.</li> <li>• Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> <li>• Noise impact during construction phase should be avoided and minimized to reduce the disturbance to the habitats adjacent to the works areas:</li> <li>• Machines and plant (e.g. trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.</li> <li>• Machines and plants known to emit strong directional noise should, wherever possible, be orientated so that the noise is directed away from the nearby habitats.</li> <li>• Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>				<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>

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		<p>With reference to ETWB TCW No. 5/2005 on “Protection of natural streams/ rivers from adverse impacts arising from construction works” and good site practices, the following good site practices/water control measures should be adopted to minimize any pollution entering the watercourse nearby:</p> <ul style="list-style-type: none"> <li>• General refuse and construction wastes should be collected and disposed of in a timely and appropriate manner.</li> <li>• Drainage arrangements should include sediment traps to collect and control construction run-off.</li> <li>• All works and storage area should be restricted to the site boundary.</li> <li>• Covering of any exposed soil or other loose materials with tarpaulins to prevent erosion.</li> <li>• Exposed soil to be covered as quickly as possible following formation works, then seeded and covered with a biodegradable geotextile blanket for erosion control purposes.</li> </ul>				<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>

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		<ul style="list-style-type: none"> <li>• A temporary sewage treatment system or portable chemical toilets should be designed and installed to collect wastewater and prevent it from entering nearby habitats.</li> <li>• The proposed works site inside or in the proximity of nearby habitats should be temporarily isolated, such as by placing of sandbags or silt curtains with a lead edge at the bottom and properly supported props, to prevent adverse impacts on these areas.</li> <li>• Other protective measures should also be taken to ensure that no pollution or siltation occurs in the water gathering grounds of the works site.</li> <li>• Construction debris and spoil should be covered up and/or properly disposed of as soon as possible to avoid being washed into nearby habitats by rain.</li> <li>• Contractors should adhere to a strict “clean site” policy, with all construction waste transported to predetermined sites for safe disposal. Under no circumstances should there be any</li> </ul>				<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>

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		<p>disposal of waste oil or other materials on site.</p> <ul style="list-style-type: none"> <li>Vehicles and other plant should be carefully maintained and properly used to minimise the chance for accidental spillage.</li> </ul> <p>Prior to the commencement of any works, the appointed Contractor / Construction Manager should conduct a formal briefing to the workforce to reinforce the message that the works are being conducted within Lantau South Country Park adjacent to environmentally sensitive areas. Workers should also be informed about the locations of any identified rare/ protected plant species adjacent to the project site, concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.</p> <p>The workforce should be reminded of the need for environmental diligence throughout the duration of works, and in particular to avoid littering, improper disposal of construction waste, avoid</p>				<p>N/A</p> <p>N/A</p> <p>N/A</p>



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		<p><u>CM3 Control of Night-time Lighting Glare</u>                      Any lighting provision of the construction works at night shall be carefully control to prevent light overspill to the nearby VSRs and into the sky.</p> <p><u>CM4 Erection of Screen Hoarding in Visually Unobtrusive Colour</u>                      Screen hoarding in visually unobtrusive colour, which is compatible with the surrounding settings, shall be erected during construction to minimize the potential landscape and visual impacts due to the construction works and activities.</p> <p><u>CM5 Management of Construction Activities and Facilities</u>                      The facilities and activities at works sites and areas, which include site office, temporary storage areas, temporary works etc., shall be carefully managed and controlled on the height, deposition and arrangement to minimize any potential adverse landscape and visual impacts.</p>				<p>N/A</p> <p>N/A</p> <p>N/A</p>

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		<p><u>CM6 Reinstatement of Temporarily Disturbed Landscape Areas</u></p> <p>All hard and soft landscape areas disturbed temporarily during construction due to temporary excavations, temporary works sites and works areas shall be reinstated to equal or better quality, to the satisfaction of the relevant Government Departments.</p>				N/A

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*Appendix D*  
*Waste Flow Table*



*Appendix E*

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*Complaints, Notifications of Summons and  
Successful Prosecutions*

Appendix E –Complaints, Notifications of Summons and Successful Prosecutions

Complaints

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

Notifications of Summons

Log Ref.	Location	Received Date	Details of Notifications of Summons	Investigation/Mitigation Action	Status
-	-	-	-	-	-

Successful Prosecutions

Log Ref.	Location	Received Date	Details of Successful Prosecutions	Investigation/Mitigation Action	Status
-	-	-	-	-	-