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		 Leighton - LNS Joint Venture			

Contract No. DC/2007/24
Harbour Area Treatment Scheme Stage 2A
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun

Environmental Certification Sheet – 42

Reference Procedure/Document/Plan

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Date of Report:	24 July 2012
Date of correspondence to IEC:	25 July 2012
Date received:	25 July 2012

Reference Condition

Clause 4.4 of EP-322/2008/E:

“Three hard copies and one electronic copy of the monthly EM&A Report shall be submitted to the Director within 10 working days after the end of the reporting month. The EM&A Reports shall include a summary of all non-compliance (exceedances) of the environmental quality performance limits (Action and Limit Levels). The submissions shall be verified by the IEC. Additional copies of the submission shall be provided to the Director upon request by the Director.”

ET Certification

I hereby certify that the above referenced ~~information/document/plan~~ complies with the above referenced condition.

Susana Halliday, Environmental Team Leader, (ACL):



Date: 26 July 2012



Our ref KMY/AFK/FY/TK/T261332/22.01/L-0411
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CE/Harbour Area Treatment Scheme
Drainage Services Department
Sewage Services Branch
Harbour Area Treatment Scheme Division
5/F, Western Magistracy
2A Pokfulam Road, Hong Kong

25 July 2012
By Post

Attn: Mr. Danny Tang

Dear Sir,

**Agreement No. CE 8/2009(EP)
Harbour Area Treatment Scheme (HATS) Stage 2A
Independent Environmental Checker for Construction Phase – Investigation**

**Contract no. DC/2007/24
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun
Submission of 10th Quarterly EM&A Report for April to June 2012 (Rev. B)**

We refer to the 10th Quarterly EM&A Report for April to June 2012 (Rev. B) received on 25 July 2012 and we confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED

Dr. Anne F Kerr
Independent Environmental Checker

c.c. AECOM
Leighton – LNS JV
Atkins

Mr. Simon Mui
Mr. Kevin Herman
Ms. Susana Bezy

By email
By email
By email

EXECUTIVE SUMMARY

This is the Tenth Quarterly Environmental Monitoring and Audit Report prepared by Atkins China Ltd (ACL), for Contract No. DC/2007/24 Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun (hereinafter, the Project), in compliance with the Project EM&A Manual under EP No. EP-322/2008/E. The construction works under the Project was commenced on 23 December 2009. This report summarises the findings and results of the EM&A during the reporting period from 1 April 2012 to 30 June 2012.

Environmental Monitoring and Audit Progress

The EM&A programme were undertaken in accordance with the EM&A Manual during the reporting period. This included:

- Weekly site inspections;
- Weekly noise monitoring;
- Air quality monitoring at least once every six days ; and
- Monthly site inspections for landscape and visual resources.

Breaches of Action and Limit Levels

During the reporting period of this Quarterly EM&A Report No. 10, nineteen non-project related Limit Level (LL) exceedances in noise criteria were recorded on 3rd, 11th, 15th, 18th and 26th April 2012; 3rd, 8th, 13th, 17th, 24th and 30th May 2012; 6th, 10th, 14th, 19th and 27th June 2012.

2 non-project related LL exceedances were recorded during the restricted hours (evening time) monitoring at station M5a (near the entrance of Chuk Lam Ming Tong) on 3rd April and 17th May 2012.

3 non-project related LL exceedances were recorded during the restricted hours (public holiday) monitoring at station M5a (near the entrance of Chuk Lam Ming Tong) on 15th April, 13th May and 10th June 2012.

5 non-project related LL exceedances were recorded during the restricted hours (night time) monitoring at station M5a (near the entrance of Chuk Lam Ming Tong) on 3th and 18th April, 17th May, and 6th and 19th June 2012.

One non-project related LL exceedance was recorded during the normal weekday daytime monitoring at station M5a (near the entrance of Chuk Lam Ming Tong) on 10th June 2012.

4 non-project related LL exceedances were recorded during the restricted hours (night time) monitoring at station M6a (Aegean Terrace) on 26th April, 8th, 24th May and 14th June 2012. And

4 non-project related LL exceedance of noise was recorded during the restricted hours (night time) monitoring at station M3 (Kwan Yick Building Phase III) on 11th April, 3rd, 30th May and 27th June 2012.

A summary of exceedance is provided in the table below.

Date of Exceedance	Monitoring Location	Exceedance	Details
3 rd April 2012	M5a, near the entrance of Chuk Lam Ming Tong	Limit Level exceedance 63.5dB(A) during evening time	Exceedance was considered to be non-project related.
3 rd April 2012	M5a, near the entrance of Chuk Lam Ming Tong	Limit Level exceedance 59.9dB(A) during night time	Exceedance was considered to be non-project related.

11 th April 2012	M3, Kwan Yick Building Phase III	Limit Level exceedance 65.0 dB(A) during night time	Exceedance was considered to be non-project related.
15 th April 2012	M5a, near the entrance of Chuk Lam Ming Tong	Limit Level exceedance 65.9 dB(A) during daytime on public holiday	Exceedance was considered to be non-project related.
18 th April 2012	M5a, near the entrance of the Chuk Lam Ming Tong	Limit Level exceedance 61.9 dB(A) during night time	Exceedance was considered to be non-project related.
26 th April 2012	M6a, Aegean Terrace	Limit Level exceedance 60.1 dB(A) during night time	Exceedance was considered to be non-project related.
3 rd May 2012	M3, Kwan Yick Building Phase III	Limit Level exceedance 65.6 dB(A) during night time	Exceedance was considered to be non-project related.
8 th May 2012	M6a, Aegean Terrace	Limit Level exceedance 55.9dB(A) during night time	Exceedance was considered to be non-project related.
13 th May 2012	M5a, near the entrance of Chuk Lam Ming Tong	Limit Level exceedance 65.5 dB(A) during daytime on public holiday	Exceedance was considered to be non-project related.
17 th May 2012	M5a, near the entrance of Chuk Lam Ming Tong	Limit Level exceedance 62.1dB(A) during evening time	Exceedance was considered to be non-project related.
17 th May 2012	M5a, near the entrance of Chuk Lam Ming Tong	Limit Level exceedance 61.6dB(A) during night time	Exceedance was considered to be non-project related.
24 th May 2012	M6a, Aegean Terrace	Limit Level exceedance 57.0dB(A) during night time	Exceedance was considered to be non-project related.
30 th May 2012	M3, Kwan Yick Building Phase III	Limit Level exceedance 64.9 dB(A) during night time	Exceedance was considered to be non-project related.
6 th June 2012	M5a, near entrance of Chuk Lam Ming Tong	Limit Level exceedance 62.7dB(A) during night time	Exceedance was considered to be non-project related.
10 th June 2012	M5a, near entrance of Chuk Lam Ming Tong	Limit Level exceedance 64.7dB(A) during daytime and evening time in general holiday	Exceedance was considered to be non-project related.
14 th June 2012	M6a, Aegean Terrace	Limit Level exceedance 57.6dB(A) during night time	Exceedance was considered to be non-project related.
19 th June 2012	M5a, near entrance of Chuk Lam Ming Tong	Limit Level exceedance 61.7dB(A) during night time	Exceedance was considered to be non-project related.
27 th June 2012	M5, rood of Chuk Lam Ming Tong	Limit Level exceedance 76.2dB(A) during daytime	Exceedance was considered to be non-project related.
27 th June 2012	M3, Kwan Yick Building Phase III	Limit Level exceedance 65.3dB (A) during night time	Exceedance was considered to be non-project related.

Complaint Log

There were no environmental complaints received during this reporting period.

Notifications of Summons and Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Environmental Non-compliance

There were no environmental non-compliances recorded during this reporting period

Reporting Changes

This report has been developed in compliance with the reporting requirements for the subsequent quarterly EM&A report as required by the Project EM&A Manual.

Environmental Site Inspections

Environmental site inspections were conducted jointly with the Contractor and Engineer Representative on 3rd, 10th, 17th and 24th April 2012; 2nd, 8th, 15th, 22nd and 29th May 2012; 5th, 12th, 19th and 26th June 2012 with Independent Environmental Checker's participation on 17th April 2012, 15th May 2012 and 19th June 2012.

CONTENTS

	Page
1 INTRODUCTION.....	1
1.1 Basic Project Information	1
1.2 Project Organisation, Contact Details and Hotline for Public	1
1.3 Work undertaken during the Reporting Period	2
2 ENVIRONMENTAL REQUIREMENTS.....	3
2.1 Summary of Impact EM&A Requirements	3
2.2 Environmental Quality Performance Limits	3
2.3 Event Action Plan	4
2.4 Environmental Measures and Implementation Status	4
2.5 Locations of Monitoring Stations	4
3 MONITORING RESULTS	5
3.1 Impact Monitoring Results	5
3.2 Waste Management	5
3.3 Landscape and Visual	6
3.4 Hazard to Life	6
3.5 Cultural Heritage	6
4 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE.....	8
4.1 Environmental Exceedance.....	8
4.2 Site Inspections and Audit	10
4.3 Environmental Complaint and Prosecution	10
5. CONCLUSION.....	11

LIST OF TABLES

Table 2.1	Summary of Impact EM&A Requirements.....	3
Table 2.2	Action and Limit Levels for Impact Noise Monitoring.....	4
Table 2.3	Action and Limit Levels for Air Quality Monitoring.....	4
Table 3.1	Monthly Summary Waste Flow Table during Reporting Period.....	5
Table 4.1	Summary of Environmental Complaints.....	10
Table 4.2	Summary of Notifications of Summons and Prosecutions.....	10

LIST OF FIGURES

Figure 1.1	Overall Layout Plan
Figure 2.1	Construction Noise Monitoring Station at Fung Mat Road Site
Figure 2.2	Construction Noise Monitoring Station at Sandy Bay PTW
Figure 2.3	Construction Noise Monitoring Station at Cyberport PTW
Figure 2.4	Construction Noise Monitoring Station at Wah Fu PTW and Aberdeen PTW
Figure 2.5	Construction Dust Monitoring Station at Fung Mat Road Site
Figure 2.6	Construction Dust Monitoring Station at Cyberport PTW
Figure 2.7	Construction Dust Monitoring Station at Wah Fu PTW and Aberdeen PTW

APPENDICES

Appendix A	Project Organisation, Contact Details and Hotlines for Public
Appendix B	Calibration Certificates for Noise and Air Quality Monitoring Equipment
Appendix C	Event and Action Plans
Appendix D	Mitigation Measures Checklist
Appendix E	Graphical Presentation of Noise Monitoring Data
Appendix F	Graphical Presentation of Air Quality Monitoring Data
Appendix G	Landscape and Visual Monitoring Report
Appendix H	Environmental Complaint/Notification of Exceedance
Appendix I	Summary Records of Site Inspections

1 INTRODUCTION

1.1 Basic Project Information

The Harbour Area Treatment Scheme (HATS) Stage 2A Sewage Conveyance System is proposed to collect and convey the pre-treated sewage from eight existing Preliminary Treatment Works (PTW), located along the northern and south-western shoreline of Hong Kong Island, to the Stonecutters Island Sewage Treatment Works (SCISTW) for treatment before final disposal into the western harbour via an existing submarine outfall.

The sewerage tunnels to be constructed under Contract No. DC/2007/24 Harbour Area Treatment Scheme Stage 2A Construction of Sewage Conveyance System from Aberdeen to Sai Yin Pun (hereinafter referred as the Project) run from Aberdeen PTW Production/Drop Shaft towards Sai Ying Pun Junction Shaft. The tunnel has a total length of approximately 7.5km and it has various internal sizes. The transitions are located at the junctions with adits connecting to the drop shafts at Aberdeen, Wah Fu, Cyberport, Sandy Bay and Sai Ying Pun. An overall layout plan of the Project is provided in Figure 1.1.

Atkins China Ltd (ACL) was appointed by Leighton-LNS Joint Venture (the Contractor of this Project, hereinafter referred as the Contractor) as the Environmental Team (ET) of this Project, to undertake a Environmental Monitoring and Audit (EM&A) of this Project in accordance with “HATS Stage 2A Environmental Impact Assessment Study – Investigation, Final EM&A Manual” (Register No. AEIAR-121/2008) under Environmental Permit (EP) No. EP-322/2008/E Part D, Condition 4.2.

1.2 Project Organisation, Contact Details and Hotline for Public

The key parties included:

- Project Proponent – Drainage Services Department
- Contractor – Leighton-LNS JV
- Environmental Authority – Environmental Protection Department
- The Engineer’s Representative (ER) – Metcalf & Eddy-AECOM JV
- Independent Environmental Checker (IEC) - Mott MacDonald Hong Kong Ltd.
- Contractor’s Environmental Team (ET) – Atkins China Ltd.

Project organisation, contact details and hotline for public are shown in Appendix A.

1.3 Work undertaken during the Reporting Period

The major construction activities undertaken during this reporting period are summarised below (see Figures 2.1 to 2.7 for site locations):

Sai Ying Pun

- Shotcrete and Grouting (implement method statement and standard EMP mitigations).
- Blasting for shaft (implement method statement and standard EMP mitigations).
- Rock Excavation (implement method statement and standard EMP mitigations).

Sandy Bay

- Rock Excavation (implement method statement and standard EMP mitigations).
- Blasting for Tunnel and Adit (implement method statement and standard EMP mitigations).
- Grouting and Shotcreting (implement method statement and standard EMP mitigations).

Cyberport

- Rock Excavation (implement method statement and standard EMP mitigations).
- Shotcrete and Grouting (implement method statement and standard mitigations).
- Blasting for Tunnel and Adit (implement method statement and standard EMP mitigations).

Wah Fu

- Rock Excavation (implement method statement and standard EMP mitigations).
- Shotcrete and Grouting (implement method statement and standard EMP mitigations)
- Blasting for Shaft (implement method statement and standard EMP mitigations).

Aberdeen

- Blasting for Tunnel and Adit (implement method statement and standard mitigations).
- Shotcrete and Grouting (implement method statement and standard mitigations).
- Rock Excavation (implement method statement and standard EMP mitigations)

2 ENVIRONMENTAL REQUIREMENTS

2.1 Summary of Impact EM&A Requirements

The EM&A for this Project requires quantitative monitoring on noise and air quality (Total Suspended Particulates (TSP)) on regular and ad-hoc basis, in addition to site inspections. A summary of key impact EM&A requirements for this Project is presented in Table 2.1.

Table 2.1 Summary of Impact EM&A Requirements

Parameter	Description	Frequency
Noise	$L_{eq(30min)}$ between 0700 – 1900 hours on normal weekdays, $L_{eq(15min)}$ for other time periods and L_{10} and L_{90} (On-site measurement using sound level meter)	Once a week. One set of measurements between 0700 and 1900 hours on normal weekdays. If construction works are extended to include works during the hours of 1900 – 0700 hours as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted periods.
Air Quality	24-hour TSP (On-site measurement using High Volume Sampler) 1-hour TSP (Measured by direct reading methods which are capable of producing comparable results as that by the high volume sampling method) ^{(1) (2)}	For 24-hour TSP monitoring, the sampling frequency is at least once in every six-days. For 1-hour TSP monitoring, the sampling frequency is at least three times in every six-days.
Waste	Routine supervision of construction works	As per site inspection schedule.
Landscape and Visual	Survey of full effectuation of mitigation measures	Once per month
Hazard to Life	Vibration and ground monitoring along boundary of HKCG Depot Vibration level associated with blasting for Tunnel P, shafts and other construction works	On-going
Cultural Heritage	Vibration level at identified historical buildings	On-going

Notes:

⁽¹⁾ Except at CM_FM1, where HVS is used for the impact monitoring of 1 hour TSP.

⁽²⁾ Laser Particle Photometer (hand held) was used. Relevant specification was submitted to IEC for information on 19 October 2009 under Baseline Environmental Monitoring Plan (GEN/023).

Calibration certificates for noise and air quality monitoring equipment are shown in Appendix B.

2.2 Environmental Quality Performance Limits

Environmental Quality Performance Limits (Action and Limit levels) for noise and air quality have been developed for the Project Baseline Monitoring Report and are summarised in Table 2.2 and Table 2.3 respectively.

Table 2.2 Action and Limit Levels for Impact Noise Monitoring

Time Period	Action	Limit
0700-1900 hrs on normal weekdays	When one documented complaint is received	75dB(A) ⁽¹⁾
0700-2300 hrs on holidays and 1900-2300 hrs on all other days		60/65/70dB(A) ⁽²⁾
2300-0700 of next day		45/50/55dB(A) ⁽²⁾

Note: ⁽¹⁾ Between 0700-1900, construction noise limit for school during normal term time is 70dB(A) and 65dB(A) during examination period.

⁽²⁾ To be selected based on Area Sensitivity Rating

Table 2.3 Action and Limit Levels for Air Quality Monitoring

Monitoring ID	1-hour TSP Level, µg/m ³		24-hour TSP Level, µg/m ³	
	Action	Limit	Action	Limit
CM_FM1	332 ⁽¹⁾	500	188 ⁽²⁾	260
CM_CB1a	280 ⁽¹⁾	500	178 ⁽²⁾	260
CM_WF1a	285 ⁽¹⁾	500	185 ⁽²⁾	260
CM_AB1a	283 ⁽¹⁾	500	174 ⁽²⁾	260

Notes: ⁽¹⁾ For Baseline Level ≤ 384 µg/m³, Action Level = (Baseline Level*1.3 + Limit Level)/2;
 For Baseline Level > 384 µg/m³, Action Level = Limit Level

⁽²⁾ For Baseline Level ≤ 200 µg/m³, Action Level = (Baseline Level*1.3 + Limit Level)/2;
 For Baseline Level > 200 µg/m³, Action Level = Limit Level

2.3 Event Action Plan

Event and Action Plans for noise, air quality as well as visual and landscape aspects have been developed as part of the Baseline Monitoring Report for the Project and the details are provided in Appendix C.

2.4 Environmental Measures and Implementation Status

The mitigation measures listed in the Project EIA Report, EM&A Manual and Environmental Permit as well as relevant implementation status are provided in Appendix D. Based on the site inspection findings, it appears that the Contractor has implemented the required mitigation measures during construction works to date.

2.5 Locations of Monitoring Stations

The locations of monitoring stations are illustrated in Figures 2.1 to 2.7.

3 MONITORING RESULTS

3.1 Impact Monitoring Results

Noise Monitoring Results

Graphical presentation of the noise monitoring data is shown in Appendix E.

Air Quality Results

Graphical presentation of the air quality monitoring data is provided in Appendix F.

3.2 Waste Management

A summary of waste flow for reporting period is outlined in Table 3.1. Inert construction and demolition (C&D) waste (i.e. public fill) was disposed of at Chai Wan Public Fill Barging Point/fill bank at Tseung Kwan O Area 137 (for public fill contains slurry only). Other C&D waste such as paper/ cardboard collected by local waste recycling contractor whilst general refuse was disposed at South East New Territories Landfill.

Table 3.1 Monthly Summary Waste Flow Table during Reporting Period

Month	Actual Quantities of Inert C&D Materials Generated Monthly					
	Total Quantity Generated	Broken Concrete ⁽²⁾	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill
	(in '000 m ³)					
April 2012	8.498	0	0	0	8.498	0
May 2012	13.602	0	0	0	13.602	0
June 2012	11.055	0	0	6.387	4.668	0
Month	Actual Quantities of C&D Wastes Generated Monthly					
	Metals	Paper/ cardboard packaging	Plastics ⁽³⁾	Chemical Waste	Others, e.g. general refuse	
	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m ³)	
April 2012	0	0.108	0.004	0	0.014	
May 2012	17.72	0.346	0	1.6	0.012	
June 2012	0	0.370	0	1.025	0.014	

- Notes: (1) The waste flow table will also include C&D materials that are specified in the Contract to be imported for use at the Site.
 (2) Broken concrete for recycling into aggregates.
 (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
 (4) Assumption: 1m³ of Inert C&D Materials weigh 1.9 tonnes and 1m³ of C&D Wastes weigh 1.6 tonnes

3.3 Landscape and Visual

The monthly site audits were undertaken on 24th April 2012, 29th May 2012 and 26th June 2012 to check the design, implementation and maintenance of landscape and visual mitigation measures, as laid out in the Project EM&A Manual, at work sites in Sai Ying Pun, Sandy Bay, Cyberport, Wah Fu and Aberdeen. The quarterly landscape and visual monitoring report is attached in Appendix G.

3.4 Hazard to Life

324 ground settlement markers, 111 structural settlement markers and 74 out of 76 piezometers were installed for monitoring. No vibration monitoring was carried out during June. The summary of vibration monitoring for April and May is provided in the table 3.2.

3.5 Cultural Heritage

There were tunneling/ blasting works (Tunnel M) carried out during April and May. Results of Vibration Monitoring of historical buildings and structures are provided in the table below.

Table 3.2 Results of Vibration Monitoring during reporting period

No.	Heritage Resources	Date	Distance to Resource (m)	Measured Vibration Level (mm/s)	Vibration Limit (mm/s)
1.	Felix Villas (HATS 23)	2 nd April 2012	200	No data (below trigger level)*	25
2.	Felix Villas (HATS 23)	3 rd April 2012	200	0.46	25
3.	Felix Villas (HATS 23)	11 th April 2012	200	No data (below trigger level)*	25
4.	Felix Villas (HATS 23)	12 th april 2012	200	No data (below trigger level)*	25
5.	Felix Villas (HATS 23)	13 th April 2012	200	No data (below trigger level)*	25
6.	Felix Villas (HATS 23)	14 th April 2012	200	No data (below trigger level)*	25
7.	Felix Villas (HATS 23)	15 th April 2012	200	0.77	25
8.	Felix Villas (HATS 23)	16 th April 2012	200	0.31	25
9	Felix Villas (HATS 23)	18 th April 2012	200	0.71	25
10	Felix Villas (HATS 23)	21 st April 2012	200	2.14	25
11	Felix Villas (HATS 23)	21 st April 2012	200	0.68	25
12	Felix Villas (HATS 23)	23 rd April 2012	200	No data (below trigger level)*	25
13	Felix Villas (HATS 23)	24 th April 2012	200	0.29	25
14	Felix Villas (HATS 23)	24 th April 2012	200	0.39	25
15	Felix Villas (HATS 23)	26 th April 2012	200	0.57	25
16	Felix Villas (HATS 23)	26 th April 2012	200	0.60	25
17	Felix Villas (HATS 23)	30 th April 2012	200	0.42	25

18	Felix Villas (HATS 23)	3 rd May 2012	150	0.37	25
19	Felix Villas (HATS 23)	7 th May 2012	150	0.27	25
20	Felix Villas (HATS 23)	8 th May 2012	150	0.47	25
21	Felix Villas (HATS 23)	8 th May 2012	150	No data (below trigger level)*	25
22	Felix Villas (HATS 23)	9 th May 2012	150	No data (below trigger level)*	25
23	Felix Villas (HATS 23)	10 th May 2012	150	No data (below trigger level)*	25
24	Felix Villas (HATS 23)	10 th May 2012	150	0.36	25
25	Felix Villas (HATS 23)	12 th May 2012	150	0.31	25
26	Felix Villas (HATS 23)	14 th May 2012	150	0.47	25
27	Felix Villas (HATS 23)	17 th May 2012	150	0.27	25
28	Felix Villas (HATS 23)	19 th May 2012	150	0.47	25
29	Felix Villas (HATS 23)	19 th May 2012	150	0.36	25
30	Felix Villas (HATS 23)	21 st May 2012	150	0.31	25
31	Felix Villas (HATS 23)	21 st May 2012	150	0.95	25
32	Felix Villas (HATS 23)	22 nd May 2012	150	0.29	25
33	Felix Villas (HATS 23)	24 th May 2012	150	0.63	25
34	Felix Villas (HATS 23)	24 th May 2012	150	No data (below trigger level)*	25
35	Felix Villas (HATS 23)	26 th May 2012	150	2.65	25

* No measurement reading for vibration level below the trigger level (0.191 mm/s).

4 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

4.1 Environmental Exceedance

During the reporting period of this Quarterly EM&A Report No. 10, nineteen non-project related Limit Level (LL) exceedances in noise criteria were recorded on 3rd, 11th, 15th, 18th and 26th April 2012; 3rd, 8th, 13th, 17th, 24th, and 30th May 2012; 6th, 10th, 14th, 19th and 27th June 2012.

2 non-project related LL exceedances were recorded during the restricted hours (evening time) monitoring at station M5a (near the entrance of Chuk Lam Ming Tong) on 3rd April and 17th May 2012.

3 non-project related LL exceedances were recorded during the restricted hours (public holiday) monitoring at station M5a (near the entrance of Chuk Lam Ming Tong) on 15th April, 13th May and 10th June 2012;

5 non-project related LL exceedances were recorded during the restricted hours (night time) monitoring at station M5a (near the entrance of Chuk Lam Ming Tong) on 3rd and 18th April, 17th May, 6th and 19th June 2012;

One non-project related LL exceedance was recorded during normal weekday daytime at station M5a (near the entrance of Chuk Lam Ming Tong) on 10th June 2012.

4 non-project related LL exceedances were recorded during the restricted hours (night time) monitoring at station M6a (Aegean Terrace) on 26th April, 8th and 24th May, and 14th June 2012;

And 4 non-project related LL exceedances of noise was recorded during the restricted hours (night time) monitoring at station M3 (Kwan Yick Building Phase III) on 11th April, 3rd and 30th May, and 27th June 2012.

The notifications of exceedance issued during the reporting period are provided in Appendix H.

During the reporting period, all landscape and visual mitigation measures listed out in the Project EM&A Manual have been implemented where practical.

On 24th April 2012, the retained tree T038(R) and T053(R) in Sandy Bay exhibited deterioration and damage to the braches and had dries leaves falling-off from the affected areas since the audit undertaken in September and November 2011. In addition to this, tree tag and identification for the retained tree T038(R) had not yet been provided. It was also observed that the transplanted tree T017(T) and the retained tree T214(R) was in a very poor health condition and no proper tree tag identification was provided for T214 (R). Construction materials have been stored very close to the roots of the retained trees T047(R).

The formation of stagnant water near to the retained tree T048(R) at the Cyberport site was observed since the audit undertaken in July 2011. During this month site audit, it was observed that the soil around the retained tree was damp. This condition might affect the roots of the retaining tree T048(R).

The retained tree T076(R) in Aberdeen site was in a very poor condition. The condition of the retained trees T079(R) is still deterioration and some stems and leaves were dying and nearby trees T078(R) and T080(R) were also showing the same condition. It was also observed that construction materials were closely

stored in the root area of the retained tree T081(R) and this might affect the health condition of the tree since last audit undertaken in February 2012. The three outstanding untagged trees which were spotted during the site audit undertaken in November 2011 and February 2012 within the boundary of workshop area in the Aberdeen site have not yet been rectified.

On 29th May 2012, the retained tree T038 and T053(R) in Sandy Bay exhibited deterioration and damage to the branches and had dried leaves falling-off from the affected areas since the audit undertaken in September and November 2011. In addition to this, transplanted tree T017(T) and the retained tree T214(R) was in a very poor health condition and no proper tree tag identification was provided for T214(R) and T038(R). Construction materials have been stored very close to the roots of the retained trees T047(R). Root flare of the retained tree T039(R) was observed in very poor condition. It is due to the soil being damped by water which is from the sink next to the tree. Besides, the retained trees T058(R) and T021(R) were observed not being properly tagged. Markings were also observed on both tree trunks.

The retained tree T065(R) in Cyberport site was observed being untagged. Also, a metal bar was observed tied on the tree branch. And marking was also observed on T074(R) tree trunk. The retained tree T075(R) has been fell by contractor on 25 May 2012 due to public safety issues.

The retained tree T076(R) was in Aberdeen site in a very poor health condition. The condition of the retained trees T079(R) is deteriorating and some stems and leaves were dying and the nearby trees T078(R) and T080(R) were also showing the same condition. Tree protect zone for the retained tree T078(R), T079(R) and T080(R) was damaged. A tree near the entrance, the retained tree T078(R) and two trees at the end of the workshop area were still observed without proper identification tag. Construction materials were closely stored in the root area of the retained tree T081(R) since February 2012. The retained tree T083(R) was observed to be in a very poor health condition. Large wound was observed on the main trunk and all leaves were observed dried.

On 26th June 2012, the retained trees T038(R) and T053(R) in Sandy Bay exhibited deterioration and damage to the branches and had dried leaves falling-off from the affected areas since the audit undertaken in September and November 2011. In addition to this, the transplanted tree T017 (T) and the retained tree T214(R) were in a very poor health condition and no proper tree tag identification was provided for T214 (R) and T038(R). Construction materials have been stored very close to the roots of the retained trees T047(R). Root flare of retained tree T039(R) was observed in very poor condition. It is due to the soil being damped by water which is from the sink next to the tree. Besides, the retained trees T058(R) and T021(R) were observed not being properly tagged. Markings were also observed on the both tree trunks.

The retained tree T065(R) in Cyberport was observed being untagged. Also, a metal bar was observed tied on the tree branch. And marking was also observed on T074(R) tree trunk.

The retained tree T076(R) was in Aberdeen site in a very poor health condition. The condition of the retained trees T079(R) is still deteriorating and some stems

and leaves were dying and the nearby trees T078(R) and T080(R) were also showing the same condition. Tree protect zone for the retained trees T076(R) and T077(R) was damaged. A tree near the entrance, and the retained tree T078(R) and two trees near the workshop area were still observed without identification tag. A tree near the entrance, retained tree T078(R) and two trees at the end of the workshop area were still observed without proper identification tag. The retained tree T083(R) was observed to be in a very poor health condition. Large wound was observed on the main trunk and all leaves were observed dead. Construction materials were still observed stored close to the roots of the retained tree T003(T) since February 2012.

According to the Contractor's monitoring data, no exceedance in structural settlement monitoring results was recorded during the reporting period.

4.2 Site Inspections and Audit

Joint site inspections with the IEC and the Contractor were undertaken on 17th April, 15th May and 19th June 2012 over the reporting period. All the works areas were observed to be generally complied with the environmental mitigation requirements and no particular water quality impacts found.

Records of site inspections observations and corrective actions during the reporting period are provided in Appendix I. The Contractor has undertaken remedial actions to improve the implementation of mitigation measures.

The Contractor has prepared a Waste Management Plan for the project, although it is not an EP requirement. During the site inspection, the Contractor was seen to have implemented good site practices and mitigation measures as stated in the EM&A Manual.

4.3 Environmental Complaint and Prosecution

No complaints were received in relation to environmental impact during the reporting period.

The summary of environmental complaints is shown in Table 4.1. No notifications of summons or prosecutions were received in relation to environmental impact during the reporting period (see Table 4.2).

Table 4.1 Summary of Environmental Complaints

Total No. of Complaints Received	No. of Complaints Received during Reporting Period	No. of Active Complaints	No. of Inactive Closed Complaints
6	0	0	6

Table 4.2 Summary of Notifications of Summons and Prosecutions

Total No. of Notifications of Summons / Prosecutions Received	No. of Notifications of Summons / Prosecutions Received during Reporting Period	Status of Notifications of Summons / Prosecutions
0	0	N/A

5. CONCLUSION

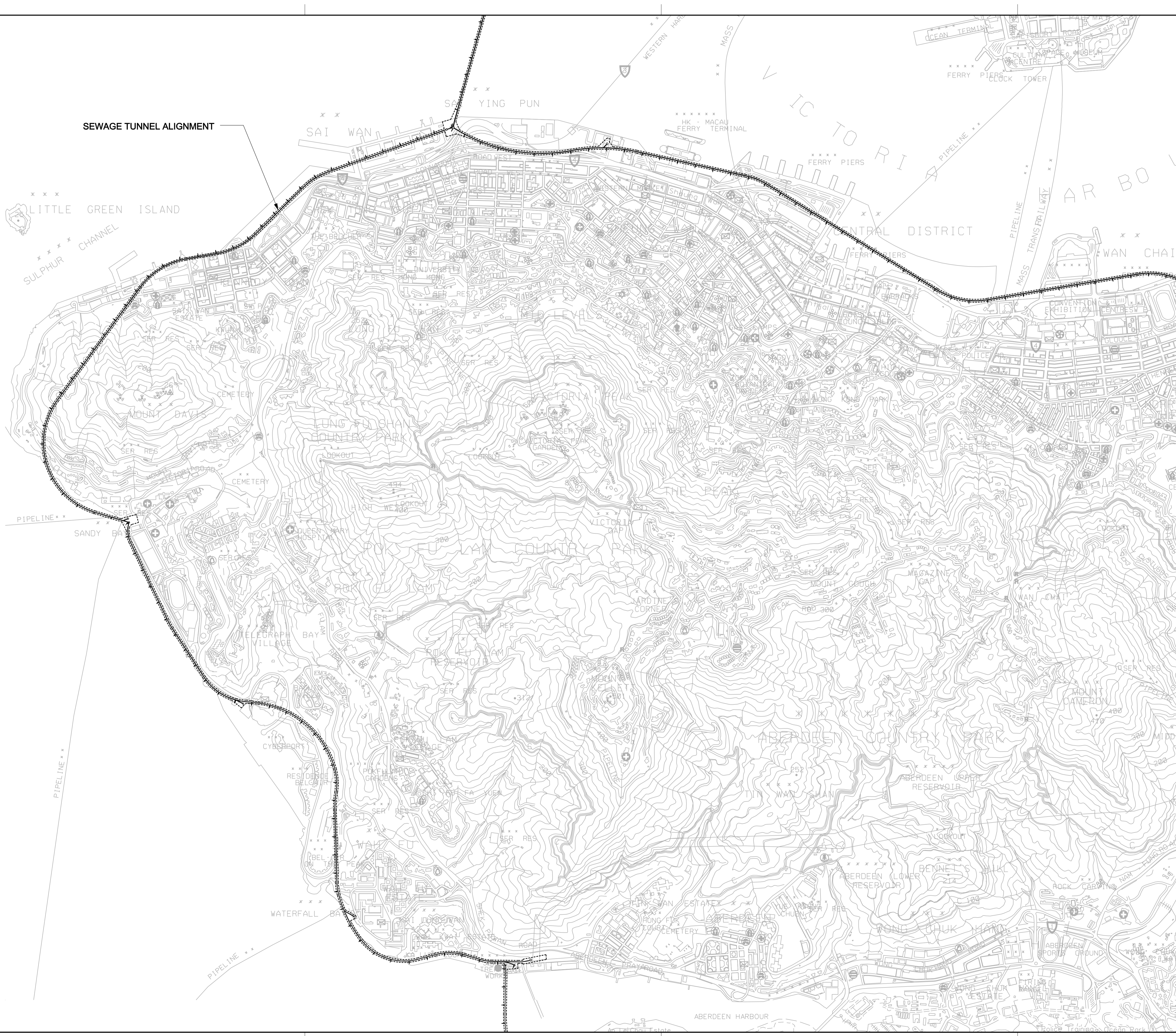
This is the Tenth Quarterly EM&A Report prepared by Atkins China Ltd (ACL) for Contract No. DC/2007/24 Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun. This Report summarises the results and findings of the EM&A during the reporting period from 1 April 2012 to 30 June 2012.



There no environmental complaints received during this reporting period.

There was no environmental prosecution or non-compliance attributable to the project works during the reporting period. Mitigation Measures stated in the Project EIA have been implemented. Overall, environmental impacts arising from the Project construction activities have been controlled and properly rectified.

FIGURES

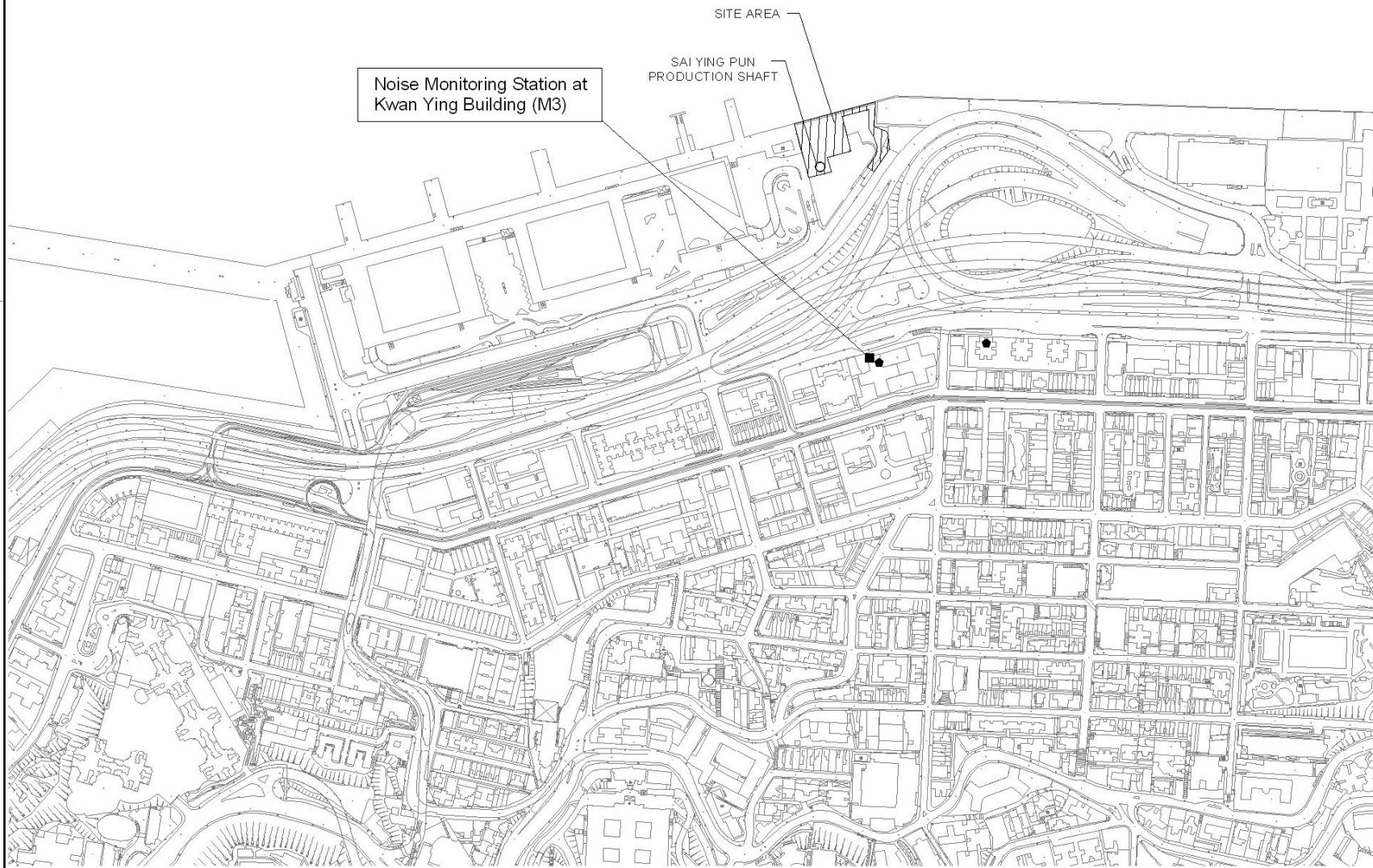
SEWAGE TUNNEL ALIGNMENT



Rev	Description	Date	Dgn	Chk	Auth
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Project title CONTRACT NO. DC/2007/24 HARBOUR AREA TREATMENT SCHEME STAGE 2A CONSTRUCTION OF SEWAGE CONVEYANCE SYSTEM FROM ABERDEEN TO SAI YING PUN					
Supervising Officer AECOM Metcalf & Eddy – AECOM Joint Venture					
Main Contractor  Leighton - LNS Joint Venture					
Designer ATKINS					
Drawing title OVERALL LAYOUT PLAN					
Designed	Scale at A3	N.T.S.			
Drawn	Status	MONTHLY EM&A REPORT			
Checked	Author Ised	Figure No.	Rev.		
EC	4417-EM-F16-1-1.dgn	1.1	A		

100mm

A1 841mm x 594mm



LEGEND

- NOISE MONITORING STATION
- NOISE SENSITIVE RECEIVERS

0 50 100 150 Meters

Rev	Description	Date	By	Chk	Aut

渠務署
DRAINAGE SERVICES DEPARTMENT
HARBOUR AREA TREATMENT SCHEME DIVISION

Project Title
CONTRACT NO. DC/2007/24
HARBOUR AREA TREATMENT SCHEME STAGE 2A
CONSTRUCTION OF SEWAGE CONVEYANCE SYSTEM
FROM ABERDEEN TO SAI YING PUN

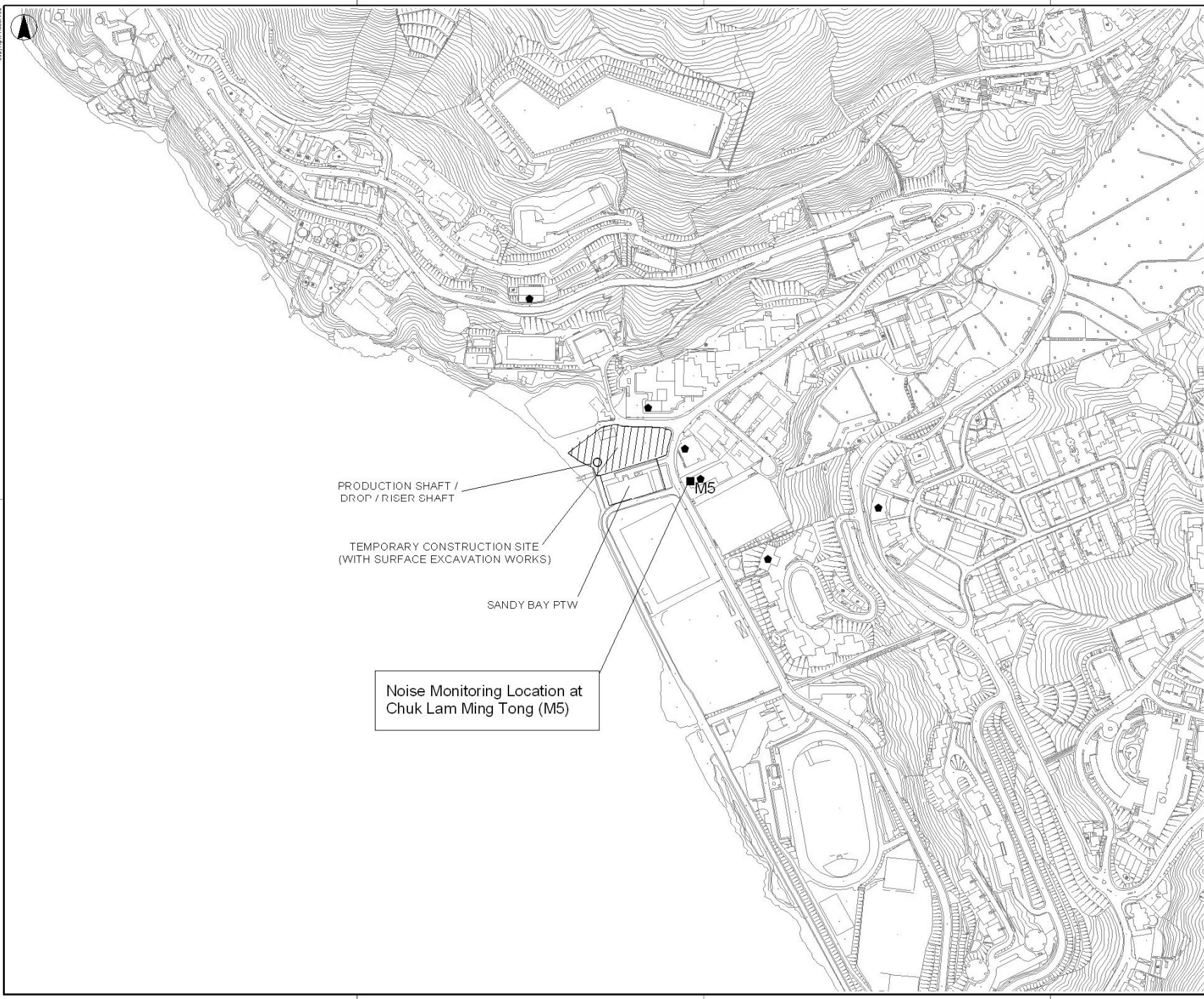
Supervising Officer
AECOM
Metcal & Eddy – AECOM Joint Venture

Main Contractor
LEIGHTON **LNS**
Leighton - LNS
Joint Venture

Designer
ATKINS

Drawing Title
CONSTRUCTION NOISE
MONITORING STATION
AT FUNG MAT ROAD SITE

Designed	Scale or 2:1
Drawn	Status
Checked	MONTHLY EM&A REPORT
Author load	Drawing No.
CD Ref.	2.1
	Rev.
	A



LEGEND

- NOISE MONITORING STATION
- NOISE SENSITIVE RECEIVERS

0 50 100 150 Meters

Rev	Description	Date	Dgn	Chk	Auth

DRAINAGE SERVICES DEPARTMENT
HARBOUR AREA TREATMENT SCHEME DIVISION

Project title: **CONTRACT NO. DC/2007/24**
HARBOUR AREA TREATMENT SCHEME STAGE 2A
CONSTRUCTION OF SEWAGE CONVEYANCE SYSTEM
FROM ABERDEEN TO SAI YING PUN

Supervising Engineer: **AECOM**
Metcalf & Eddy – AECOM Joint Venture

Main Contractor: **LEIGHTON 禮頓** | **LNS**
Leighton - LNS
Joint Venture

Designer: **ATKINS**

Drawing title: **CONSTRUCTION NOISE**
MONITORING STATION
AT SANDY BAY PTW

Revised	Scale of A1

Issue:	Status:
Checked:	MONTHLY EM&A REPORT
Authorised:	Drawing No.:
CAD ref.:	22
	Rev.:
	A



Noise Monitoring Location at Aegean Terrace (M6a)

CYBERPORT
PTW

PRODUCTION SHAFT /
DROP / RISER SHAFT

TEMPORARY CONSTRUCTION SITE
(WITHOUT SURFACE EXCAVATION WORKS)

LEGEND

- NOISE MONITORING STATION
- NOISE SENSITIVE RECEIVERS

0 50 100 150 Meters

Rev	Description	Date	Dgn	Chk	Auth

渠務局
DRAINAGE SERVICES DEPARTMENT
HARBOUR AREA TREATMENT SCHEME DIVISION

Project title
CONTRACT NO. DC/2007/24
HARBOUR AREA TREATMENT SCHEME STAGE 2A
CONSTRUCTION OF SEWAGE CONVEYANCE SYSTEM
FROM ABERDEEN TO SAI YING PUN

Supervising Engineer
AECOM
Metcalf & Eddy – AECOM Joint Venture

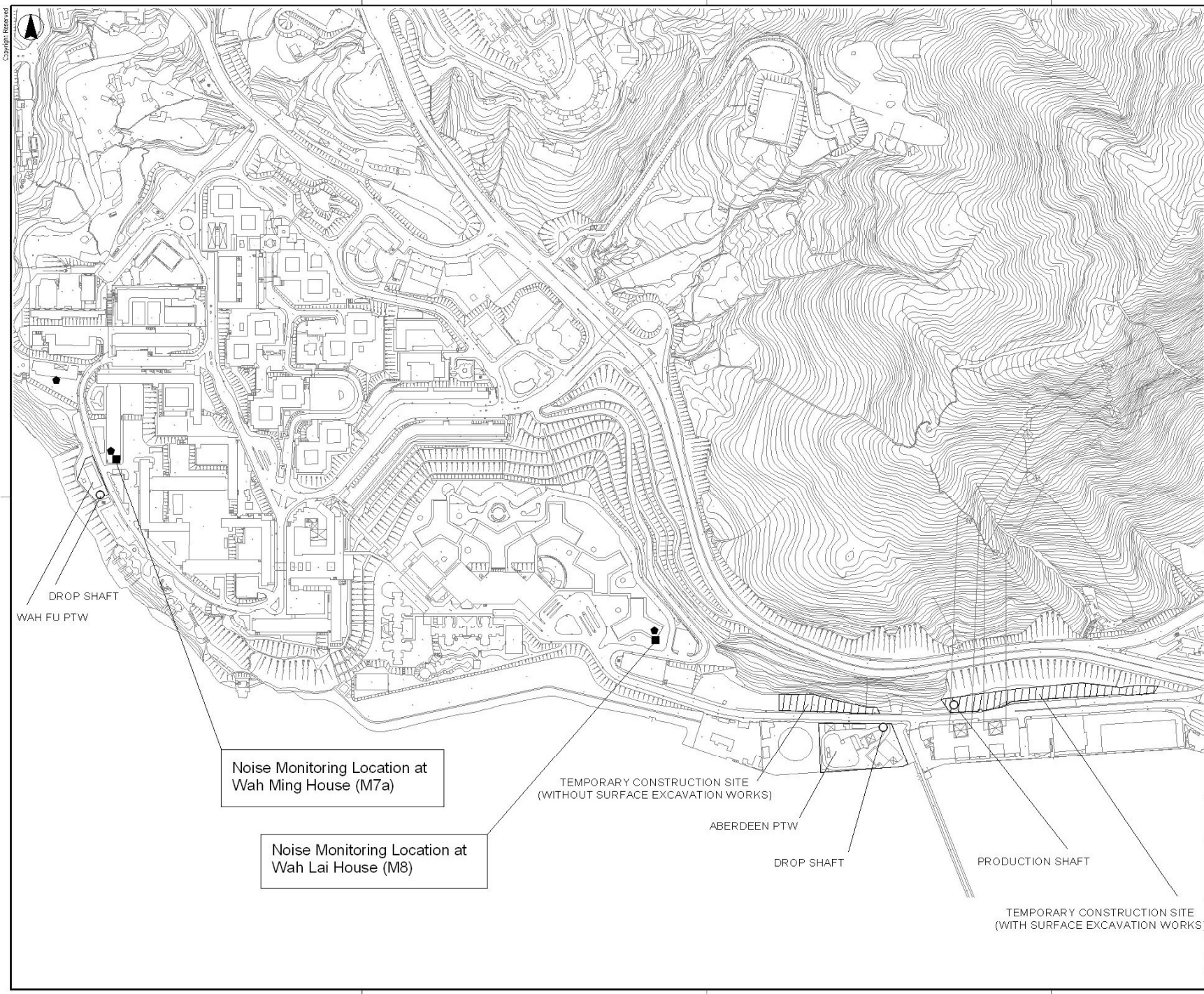
Main Contractor

Leighton - LNS
Joint Venture

Designer
ATKINS

Drawing title
CONSTRUCTION NOISE
MONITORING STATION AT
CYBERPORT PTW

Revised	Scale of A1
Drawn	Status
Checked	MONTHLY EM&A REPORT
Authorised	Drawing No.
CAD ref.	23
	Rev.
	A



LEGEND

- NOISE MONITORING STATION
- NOISE SENSITIVE RECEIVERS

0 50 100 150 Meters

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Rev	Description	Date	Dgn	Crk	Auth

渠務局
DRAINAGE SERVICES DEPARTMENT
HARBOUR AREA TREATMENT SCHEME DIVISION

Project title
CONTRACT NO. DC/2007/24
HARBOUR AREA TREATMENT SCHEME STAGE 2A
CONSTRUCTION OF SEWAGE CONVEYANCE SYSTEM
FROM ABERDEEN TO SAI YING PUN

Supervising Engineer
AECOM
Metcalf & Eddy – AECOM Joint Venture

Main Contractor
LEIGHTON **LNS**
Leighton - LNS Joint Venture

Designer
ATKINS

Drawing title
CONSTRUCTION NOISE
MONITORING STATION
AT WAH FU AND ABERDEEN PTW

Revised	Scale of A1		
Drawn	Status		
Checked	MONTHLY EM&A REPORT		
Authorised	Drawing No.		
CAD ref.	2.4		A

DROPP SHAFT
WAH FU PTW

Noise Monitoring Location at
Wah Ming House (M7a)

Noise Monitoring Location at
Wah Lai House (M8)

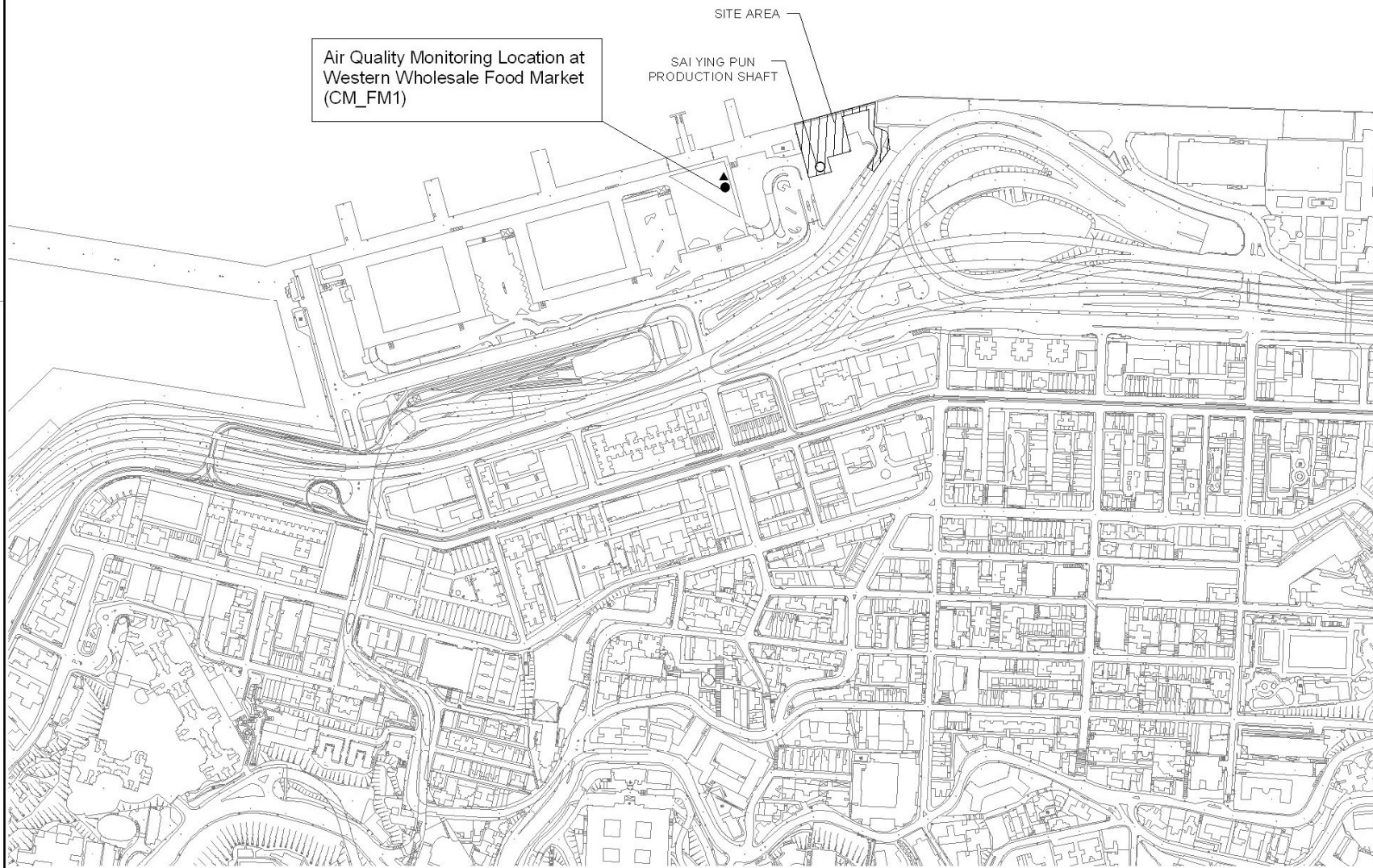
TEMPORARY CONSTRUCTION SITE
(WITHOUT SURFACE EXCAVATION WORKS)

ABERDEEN PTW

DROPP SHAFT

PRODUCTION SHAFT

TEMPORARY CONSTRUCTION SITE
(WITH SURFACE EXCAVATION WORKS)



Air Quality Monitoring Location at
Western Wholesale Food Market
(CM_FM1)

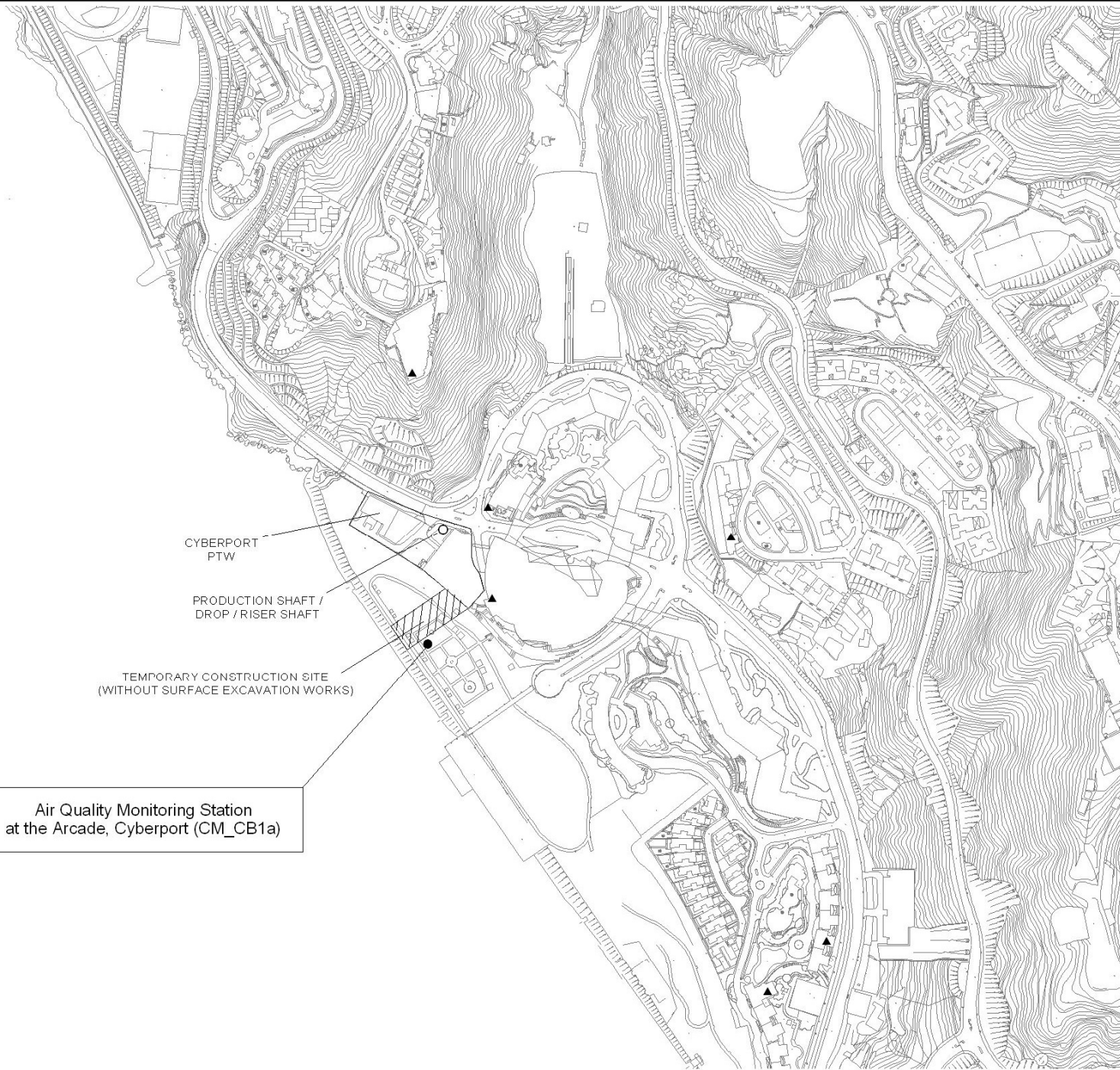
SITE AREA
SAI YING PUN
PRODUCTION SHAFT

LEGEND

- ▲ AIR SENSITIVE RECEIVERS
- DUST MONITORING STATION

0 50 100 150 Meters

Rev	Description	Date	By	Chk	Aut
<p>渠務署 DRAINAGE SERVICES DEPARTMENT HARBOUR AREA TREATMENT SCHEME DIVISION</p>					
<p>Project title CONTRACT NO. DC/2007/24 HARBOR AREA TREATMENT SCHEME STAGE 2A CONSTRUCTION OF SEWAGE CONVEYANCE SYSTEM FROM ABERDEEN TO SAI YING PUN</p>					
<p>Supervising Officer AECOM Metcal & Eddy – AECOM Joint Venture</p>					
<p>Main Contractor Leighton - LNS Joint Venture</p>					
<p>Designer ATKINS</p>					
<p>Drawing title CONSTRUCTION DUST MONITORING STATION AT FUNG MAT ROAD SITE</p>					
Designed	Sze Ho et al				
Drawn	Status				
Checked	MONTHLY EM&A REPORT				
Author load	Drawing No.	Rev.			
CAD ref.	25	A			



CYBERPORT
PTW

PRODUCTION SHAFT /
DROP / RISER SHAFT

TEMPORARY CONSTRUCTION SITE
(WITHOUT SURFACE EXCAVATION WORKS)

Air Quality Monitoring Station
at the Arcade, Cyberport (CM_CB1a)

LEGEND

- ▲ AIR SENSITIVE RECEIVERS
- DUST MONITORING STATION

0 50 100 150 Meters

Rev	Description	Date	Dgn	Chk	Auth

渠務處
DRAINAGE SERVICES DEPARTMENT
HARBOUR AREA TREATMENT SCHEME DIVISION

Project title
CONTRACT NO. DC/2007/24
HARBOUR AREA TREATMENT SCHEME STAGE 2A
CONSTRUCTION OF SEWAGE CONVEYANCE SYSTEM
FROM ABERDEEN TO SAI YING PUN

Supervising Engineer
AECOM
Metcalf & Eddy – AECOM Joint Venture

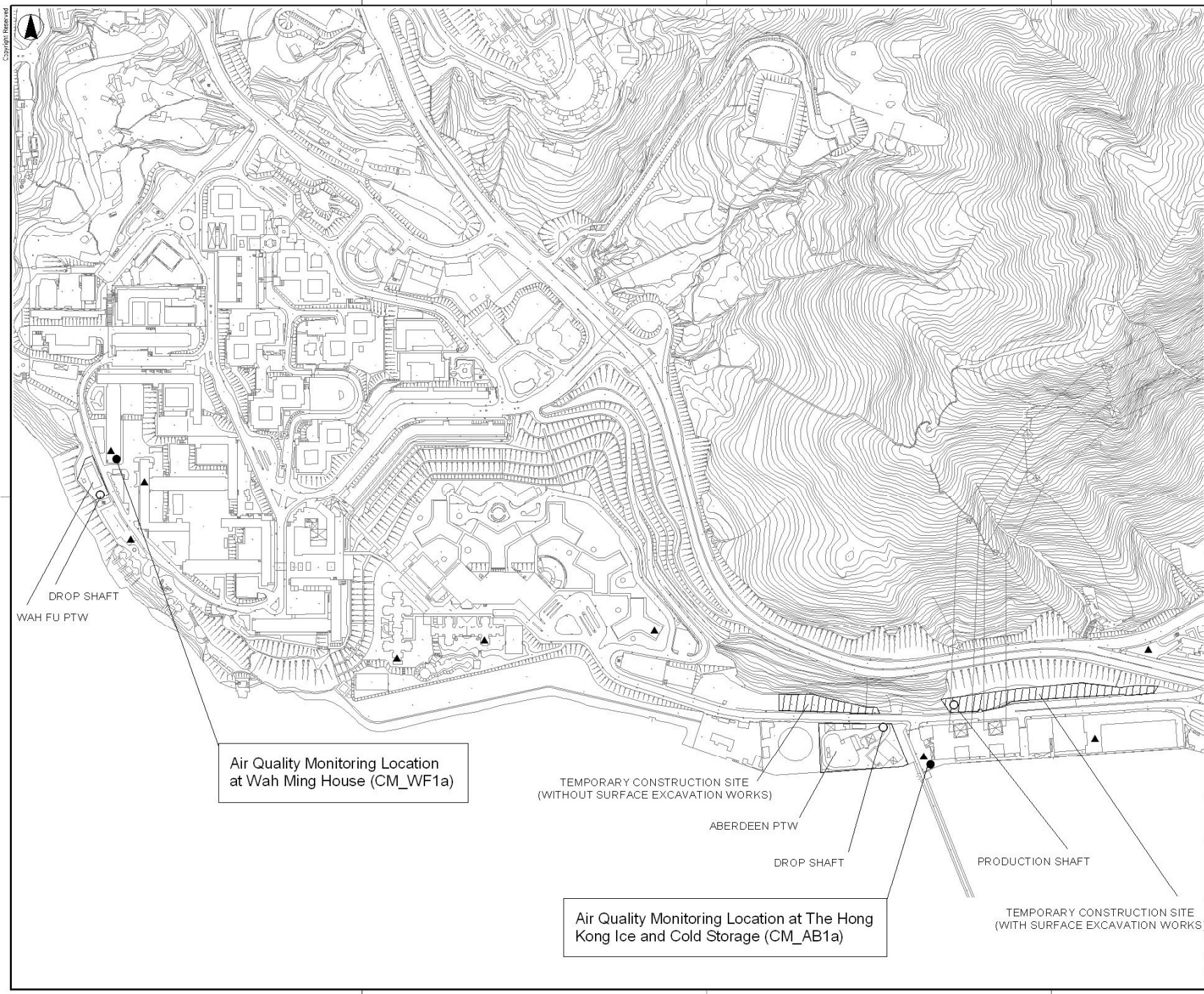
Main Contractor

Leighton - LNS
Joint Venture

Designer
ATKINS

Drawing title
CONSTRUCTION DUST
MONITORING STATION AT
CYBERPORT PTW

Revised	Scale of A1
Drawn	Status
Checked	MONTHLY EM&A REPORT
Authorised	Drawing No.
CAD ref.	26
	Rev.
	A



LEGEND

- ▲ AIR SENSITIVE RECEIVERS
- DUST MONITORING STATION

0 50 100 150 Meters

Rev	Description	Date	Dgn	Chk	Auth

DRAINAGE SERVICES DEPARTMENT
HARBOUR AREA TREATMENT SCHEME DIVISION

Project title: **CONTRACT NO. DC/2007/24**
HARBOUR AREA TREATMENT SCHEME STAGE 2A
CONSTRUCTION OF SEWAGE CONVEYANCE SYSTEM
FROM ABERDEEN TO SAI YING PUN

Supervising Engineer: **AECOM**
Metcal & Eddy – AECOM Joint Venture

Main Contractor: **LEIGHTON 禮頓** **LNS**
Leighton - LNS
Joint Venture

Designer: **ATKINS**

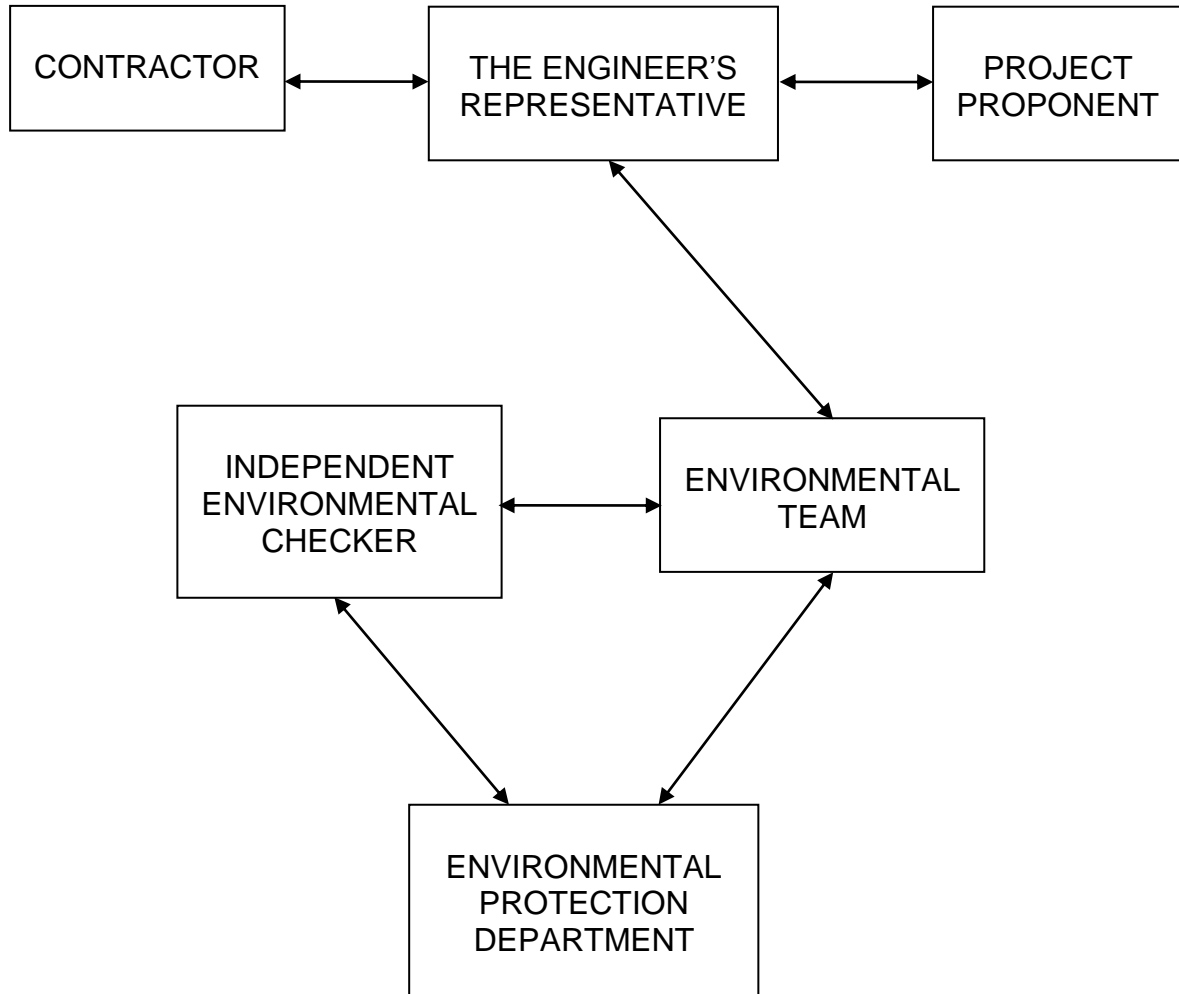
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MONITORING STATION
AT WAH FU AND ABERDEEN PTW

Revised	Scale of A1
Drawn	Status
Checked	MONTHLY EM&A REPORT
Authorised	Drawing No.
CAD ref.	22
	Rev.
	A

APPENDIX A

PROJECT ORGANISATION, CONTACT DETAILS AND HOTLINES FOR PUBLICS

Project Organisation



Legend:

↔ Line of communication

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Regional Office (South)
Mr. Lee Tong
Phone: 2516 1809
Fax: 2960 1761
E-mail: leetong@epd.gov.hk

Hotline

A hotline telephone number is provided for the public to make enquiries on 63239393.

APPENDIX B

CALIBRATION CERTIFICATES FOR NOISE AND AIR QUALITY MONITORING EQUIPMENT



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C115096

Certificate of Calibration

This is to certify that the equipment

Description : Integrating Sound Level Meter

Manufacturer : Bruel & Kjaer

Model No. : 2238

Serial No. : 2684502

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C115096.*

The equipment is supplied by

Co. Name : Atkins China Limited

Address : 5/F., Wharf T&T Centre, Harbour City, Tsim Sha Tsui, Kowloon

Date of Issue : 8 September 2011

Certified by :


K C Lee

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, I Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C115441

Certificate of Calibration

This is to certify that the equipment

Description : Acoustical Calibrator

Manufacturer : Bruel & Kjaer

Model No. : 4231

Serial No. : 2385180

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C115441.*

The equipment is supplied by

Co. Name : Atkins China Limited

Address : 5/F., Wharf T&T Centre, Harbour City, Tsim Sha Tsui, Kowloon

Date of Issue : 26 September 2011

Certified by :

KC Lee

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C116334

Certificate of Calibration

This is to certify that the equipment

Description : Acoustical Calibrator

Manufacturer : Bruel & Kjaer

Model No. : 4231

Serial No. : 2656516



has been calibrated for the specific items and ranges.

The results are shown in the Calibration Report No. C116334.

The equipment is supplied by

Co. Name : Leighton-LNS Joint Venture

*Address : 39/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai,
Hong Kong*

Date of Issue : 16 November 2011

Certified by :

K/C Lee

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : Aberdeen
Calibrated by : K.F.Ho
Date : 15/02/2012

Sampler

Model : TE-5170
Serial Number : S/N2099

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
Service Date : 25 May 2011
Slope (m) : 2.00506
Intercept (b) : -0.02062
Correlation Coefficient(r) : 0.99999

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1013
Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.4	3.411	1.711	59	59.6
2 13 holes	9.7	3.146	1.579	54	54.6
3 10 holes	7.6	2.785	1.399	48	48.5
4 7 holes	5.0	2.259	1.137	39	39.4
5 5 holes	3.0	1.750	0.883	30	30.3

Sampler Calibration Relationship

Slope(m):35.098 Intercept(b): -0.631 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 27/02/2012

**High-Volume TSP Sampler
5-Point Calibration Record**

Location : Aberdeen
 Calibrated by : K.F.Ho
 Date : 13/04/2012

Sampler

Model : TE-5170
 Serial Number : S/N2099

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
 Service Date : 25 May 2011
 Slope (m) : 2.00506
 Intercept (b) : -0.02062
 Correlation Coefficient(r) : 0.99999

Standard Condition

Pstd (hpa) : 1013
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1011
 Ta(K) : 300

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	10.7	3.257	1.635	58	57.7
2 13 holes	9.5	3.069	1.541	54	53.8
3 10 holes	7.0	2.634	1.324	45	44.8
4 7 holes	5.6	2.356	1.185	39	38.8
5 5 holes	2.8	1.666	0.841	25	24.9

Sampler Calibration Relationship

Slope(m):41.445 Intercept(b): -10.087 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 19/04/2012

**High-Volume TSP Sampler
5-Point Calibration Record**

Location : Aberdeen
 Calibrated by : K.F.Ho
 Date : 12/06/2012

Sampler

Model : TE-5170
 Serial Number : S/N2099

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1378
 Service Date : 22 Feb 2012
 Slope (m) : 1.99405
 Intercept (b) : -0.00397
 Correlation Coefficient(r) : 0.99984

Standard Condition

Pstd (hpa) : 1013
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1001
 Ta(K) : 299

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.2	3.321	1.668	59	58.6
2 13 holes	9.6	3.075	1.544	54	53.6
3 10 holes	7.7	2.754	1.383	48	47.6
4 7 holes	4.9	2.197	1.104	38	37.7
5 5 holes	2.8	1.661	0.835	28	27.8

Sampler Calibration Relationship

Slope(m):36.671 Intercept(b): -2.859 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 20/06/2012

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : Cyber Port
Calibrated by : K.F.Ho
Date : 15/2/2012

Sampler

Model : TE-5170
Serial Number : S/N 2098

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
Service Date : 25 May 2011
Slope (m) : 2.00506
Intercept (b) : -0.02062
Correlation Coefficient(r) : 0.99999

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1013
Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	10.5	3.273	1.643	57	57.6
2 13 holes	9.3	3.081	1.547	53	53.5
3 10 holes	6.9	2.654	1.334	44	44.4
4 7 holes	5.4	2.348	1.181	38	38.4
5 5 holes	2.6	1.629	0.823	23	23.2

Sampler Calibration Relationship

Slope(m):41.813 Intercept(b): -11.144 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 27/02/2012

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : Cyber Port
Calibrated by : K.F.Ho
Date : 13/4/2012

Sampler

Model : TE-5170
Serial Number : S/N 2098

Calibration Orfice and Standard Calibration Relationship

Serial Number : 1785
Service Date : 25 May 2011
Slope (m) : 2.00506
Intercept (b) : -0.02062
Correlation Coefficient(r) : 0.99999

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1011
Ta(K) : 300

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.4	3.362	1.687	60	59.7
2 13 holes	9.8	3.117	1.565	55	54.8
3 10 holes	7.8	2.781	1.397	49	48.8
4 7 holes	5.0	2.226	1.121	39	38.8
5 5 holes	3.0	1.725	0.870	29	28.9

Sampler Calibration Relationship

Slope(m):37.374 Intercept(b): -3.433 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan

Date: 19/04/2012

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : Cyber Port
Calibrated by : K.F.Ho
Date : 24/5/2012

Sampler

Model : TE-5170
Serial Number : S/N 2098

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1378
Service Date : 22 Feb 2012
Slope (m) : 1.99405
Intercept (b) : -0.00397
Correlation Coefficient(r) : 0.99984

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1008
Ta(K) : 301

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	10.9	3.277	1.645	60	59.6
2 13 holes	9.8	3.107	1.560	56	55.6
3 10 holes	7.2	2.663	1.338	47	46.6
4 7 holes	5.8	2.390	1.201	42	41.7
5 5 holes	2.9	1.690	0.850	28	27.8

Sampler Calibration Relationship

Slope(m):39.576 Intercept(b): -5.937 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan

Date: 26/05/2012

ENVIROTECH SERVICES CO.

**High-Volume TSP Sampler
5-Point Calibration Record**

Location : Wah Fu Estate
 Calibrated by : K.F.Ho
 Date : 27/02/2012

Sampler

Model : TE-5170
 Serial Number : S/N 2100

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
 Service Date : 25 May 2011
 Slope (m) : 2.00506
 Intercept (b) : -0.02062
 Correlation Coefficient(r) : 0.99999

Standard Condition

Pstd (hpa) : 1013
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1016
 Ta(K) : 284

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.2	3.427	1.720	59	60.4
2 13 holes	9.0	3.072	1.543	52	53.3
3 10 holes	7.5	2.805	1.409	47	48.1
4 7 holes	5.0	2.290	1.152	38	38.9
5 5 holes	3.2	1.832	0.924	29	29.7

Sampler Calibration Relationship

Slope(m): 38.211 Intercept(b): 5.482 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan

Date: 01/03/2012

ENVIROTECH SERVICES CO.

**High-Volume TSP Sampler
5-Point Calibration Record**

Location : Wah Fu Estate
 Calibrated by : K.F.Ho
 Date : 25/04/2012

Sampler

Model : TE-5170
 Serial Number : S/N 2100

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
 Service Date : 25 May 2011
 Slope (m) : 2.00506
 Intercept (b) : -0.02062
 Correlation Coefficient(r) : 0.99999

Standard Condition

Pstd (hpa) : 1013
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1007
 Ta(K) : 302

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.0	3.285	1.649	58	57.4
2 13 holes	8.8	2.938	1.476	51	50.5
3 10 holes	7.2	2.656	1.336	46	45.6
4 7 holes	4.8	2.170	1.092	36	35.7
5 5 holes	3.1	1.744	0.880	28	27.7

Sampler Calibration Relationship

Slope(m): 38.714 Intercept(b): -6.424 Correlation Coefficient(r): 0.9998

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : Wah Fu Estate
 Calibrated by : K.F.Ho
 Date : 21/06/2012

Sampler

Model : TE-5170
 Serial Number : S/N 2100

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1378
 Service Date : 22 Feb 2012
 Slope (m) : 1.99405
 Intercept (b) : -0.00397
 Correlation Coefficient(r) : 0.99984

Standard Condition

Pstd (hpa) : 1013
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1003
 Ta(K) : 301

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.3	3.328	1.671	60	59.4
2 13 holes	9.0	2.970	1.492	53	52.5
3 10 holes	7.4	2.693	1.353	47	46.5
4 7 holes	4.9	2.192	1.101	37	36.6
5 5 holes	3.2	1.771	0.890	28	27.7

Sampler Calibration Relationship

Slope(m): 40.570 Intercept(b): -8.240 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 24/06/2012

High-Volume TSP Sampler**5-Point Calibration Record**

Location : Sai Ying Pun
Calibrated by : K.T.Ho
Date : 19/01/2012

Sampler

Model : TE-5170
Serial Number : S/N 2146

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
Service Date : 25 May 2011
Slope (m) : 2.00506
Intercept (b) : -0.020620
Correlation Coefficient(r) : 0.99999

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1014
Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.4	3.413	1.712	60	60.6
2 13 holes	9.8	3.164	1.588	55	55.6
3 10 holes	8.1	2.877	1.445	50	50.5
4 7 holes	4.8	2.215	1.115	38	38.4
5 5 holes	2.9	1.721	0.869	29	29.3

Sampler Calibration Relationship

Slope(m):36.900 Intercept(b): -2.762 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 26/01/2012

High-Volume TSP Sampler**5-Point Calibration Record**

Location : Sai Ying Pun
Calibrated by : K.T.Ho
Date : 16/03/2012

Sampler

Model : TE-5170
Serial Number : S/N 2146

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
Service Date : 25 May 2011
Slope (m) : 2.00506
Intercept (b) : -0.020620
Correlation Coefficient(r) : 0.99999

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1014
Ta(K) : 293

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.2	3.377	1.694	58	58.5
2 13 holes	9.6	3.126	1.569	53	53.5
3 10 holes	8.0	2.854	1.434	48	48.4
4 7 holes	4.7	2.187	1.101	36	36.3
5 5 holes	2.8	1.688	0.852	26	26.2

Sampler Calibration Relationship

Slope(m):37.938 Intercept(b): -5.869 Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan

Date: 18/03/2012

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : Sai Ying Pun
Calibrated by : K.F.Ho
Date : 14/05/2010

Sampler

Model : TE-5170
Serial Number : S/N 2146

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1378
Service Date : 22 Feb 2012
Slope (m) : 1.99405
Intercept (b) : -0.00397
Correlation Coefficient(r) : 0.99984

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1007
Ta(K) : 301

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	10.8	3.260	1.637	57	56.5
2 13 holes	9.4	3.042	1.527	53	52.6
3 10 holes	7.7	2.753	1.383	47	46.6
4 7 holes	4.5	2.103	1.057	35	34.7
5 5 holes	2.6	1.6008	0.804	25	24.8

Sampler Calibration Relationship

Slope(m): 38.056 Intercept(b): -5.720 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 18/05/2012

EQUIPMENT CALIBRATION RECORD

Type : Laser Dust Monitor
 Manufacturer / Brand : SIBATA
 Model No.: LD-3B
 Equipment No.: LD-3B-001
 Sensitivity Adjustment Scale Setting : 640 CPM

Operator: _____

Standard Equipment

Equipment : MFC High Volume Air Sampler
 Venue : Ice Factory (Aberdeen)
 Model No.: TE-5170 Total Suspended Particulated
 Serial No.: 2099

Last Calibration Date 19/10/2010

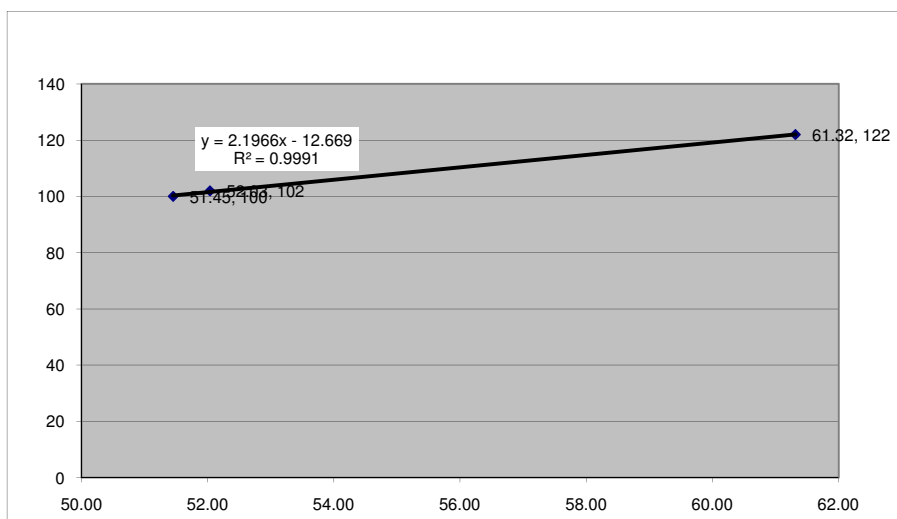
Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration) : 640 CPM
 Sensitivity Adjustment Scale Setting (After Calibration) : 640 CPM

Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m3) Y-axis	Total Count	Count/Minute X-axis
				Temp (C)	R.H. (%)			
1	17-Oct-11	15:10	16:10	24.3	70%	100	3087	51.45
2	17-Oct-11	16:17	17:17	24.3	70%	102	3122	52.03
3	17-Oct-11	17:20	18:20	24.3	70%	122	3679	61.32

Be Linear Regression of Y or X
 Slope (K-factor): 2.1966
 Correlation coefficient : 0.9991

Remark: _____



Recorded by: Ruby Law

Signature: 

Date: 10/21/2011

Checked by: Keith Chau

Signature: 

Date: 10/21/2011

EQUIPMENT CALIBRATION RECORD

Type : Laser Dust Monitor
 Manufacturer / Brand : SIBATA
 Model No.: LD-3B
 Equipment No.: LD-3B-002
 Sensitivity Adjustment Scale Setting : 622 CPM

Operator: _____

Standard Equipment

Equipment : MFC High Volume Air Sampler
 Venue : Wah Ming House, Wah Fu Estate
 Model No.: TE-5170 Total Suspended Particulated
 Serial No.: 2100

Last Calibration Date 19/10/2010

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration) : 622 CPM
 Sensitivity Adjustment Scale Setting (After Calibration) : 622 CPM

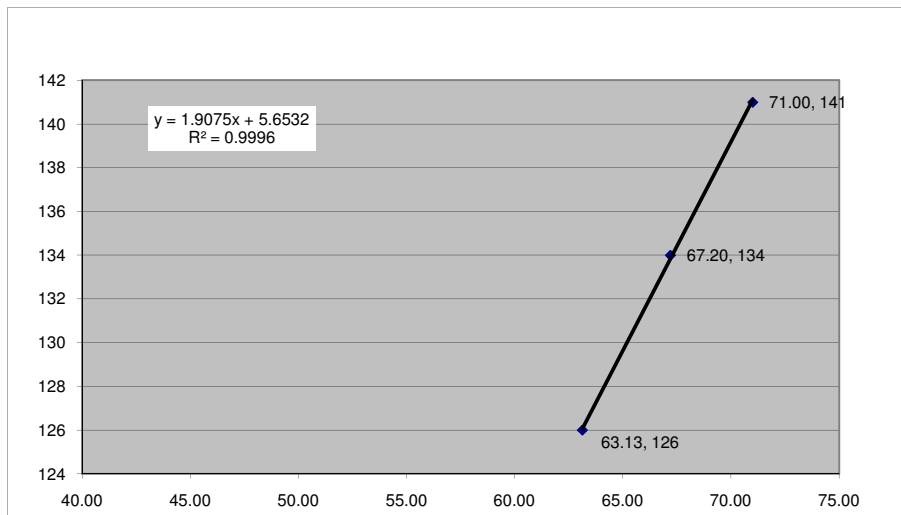
Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m3) Y-axis	Total Count	Count/Minute X-axis
				Temp (C)	R.H. (%)			
1	18-Oct-11	13:27	14:27	24.3	70%	126	3788	63.13
2	18-Oct-11	14:30	15:30	24.3	70%	141	4260	71.00
3	18-Oct-11	15:34	16:34	24.3	70%	134	4032	67.20

Be Linear Regression of Y or X

Slope (K-factor): 1.9075

Correlation coefficient : 0.9996

Remark: _____



Recorded by: Ruby Law

Signature: *Ruby Law*

Date: 10/21/2011

Checked by: Keith Chau

Signature: *Keith Chau*

Date: 10/21/2011

Summary of Calibration Date of Monitoring Equipment:

Equipment	Description	ID	Latest Calibration Date	Next Calibration Date
Integrated Sound Level Meters	B&K 2238	2684502	8 th September 2011	7 th September 2012
Integrated Sound Level Meters	B&K 2238	2381580	26 th September 2011	25 th September 2012
Calibrator for Sound Level Meters	B&K 4231	2656516	16 th November 2011	15 th November 2012
Laser Dust Monitor	LD-3B-001	974350	17 th October 2011	16 th October 2012
Laser Dust Monitor	LD-3B-002	934393	18 th October 2011	17 th October 2012
High Volume Sampler	TE-5170	2098 (Cyberport PTW)	15 th February 2012	14 th April 2012
			13 th April 2012	12 th June 2012
			24 th May 2012	23 rd July 2012
High Volume Sampler	TE-5170	2099 (Aberdeen PTW)	15 th February 2012	14 th April 2012
			13 th April 2012	12 th June 2012
			12 th June 2012	11 th August 2012
High Volume Sampler	TE-5170	2100 (Wah Fu PTW)	27 th February 2012	26 th April 2012
			25 th April 2012	24 th June 2012
			21 st June 2012	20 th August 2012
High Volume Sampler	TE-5170	2146 (Fung Mat Road Site)	19 th January 2012	18 th March 2012
			16 th March 2012	15 th May 2012
			14 th May 2012	13 th July 2012

APPENDIX C

EVENT AND ACTION PLAN

Event/ Action Plan for Construction Noise

Event	Action			
	ET	IEC	ER	Contractor
Action Level being exceeded	<ol style="list-style-type: none"> 1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Advise the ER on the effectiveness of the proposed remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC and ER; 2. Implement noise mitigation proposals.
Limit Level being exceeded	<ol style="list-style-type: none"> 1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated.

Event/ Action Plan for Construction Air Quality

Event	Action			
	ET	IEC	ER	Contractor
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
LIMIT LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 5. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event and Action Plan for Landscape and Visual Impact - Construction Phase

Action Level	Environmental Team Leader (ETL)	Independent Environmental Checker (IEC)	Engineer's Representative (ER)	Contractor
Non-conformity on one occasion	<ol style="list-style-type: none"> 1. Identify source 2. Inform the IEC and the ER 3. Discuss remedial actions with the IEC, the ER and the Contractor 4. Monitor remedial action until rectification has been completed 	<ol style="list-style-type: none"> 1. Check report 2. Check the Contractor's working method 3. Discuss with the ER and the Contractor on possible remedial measures 4. Advise the ER on effectiveness of proposed remedial measures 	<ol style="list-style-type: none"> 1. Notify the Contractor 2. Ensure remedial measures are properly implemented 	<ol style="list-style-type: none"> 1. Amend working methods 2. Rectify damage and undertake remedial measures or any necessary replacement
Repeated Non-conformity	<ol style="list-style-type: none"> 1. Identify source 2. Inform the IEC and the ER 3. Increase monitoring (site audit) frequency 4. Discuss remedial actions with the IEC, the ER and the Contractor 5. Monitor remedial actions until rectification has been completed 6. If exceedance stops, cease additional monitoring (site audit) 	<ol style="list-style-type: none"> 1. Check report 2. Check the Contractor's working method 3. Discuss with the ER and the Contractor on possible remedial measures 4. Advise the ER on effectiveness of proposed remedial measures 5. Supervise implementation of remedial measures 	<ol style="list-style-type: none"> 1. Notify the Contractor 2. Ensure remedial measures are properly implemented 	<ol style="list-style-type: none"> 1. Amend working methods 2. Rectify damage and undertake remedial measures or any necessary replacement

APPENDIX D

MITIGATION MEASURES CHECKLIST

DC/2007/24 – Harbour Area Treatment Scheme Stage 2A
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun

April 2012 to June 2012

EIA Ref.	Final EM&A Manual Ref.	Environmental Aspect	Mitigation Measures	Timing	Compliance Status: √ = compliant; x = non-compliant; N/A = not applicable	
					Status	Remarks
3.64	2.55	Air Quality Control	<ul style="list-style-type: none"> • Watering twice per day within the worksites at North Point PTW, Wan Chai East PTW, Fung Mat Road Site, Sandy Bay PTW, Wah Fu PTW, Aberdeen PTW and SCS worksite at Aberdeen; • Watering 4 times per day within worksites at the Central PTW; • Barging points, if any, should be continuous watering throughout the whole unloading process; and • Watering 8 times per day within worksites at the SCS works area at Wan Chai East and North Point, SCISTW and the Disinfection Facilities of SCISTW. 	During Construction	√	
3.74	2.54	Air Quality Control	<p>Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts.</p> <ul style="list-style-type: none"> • Skip hoist for material transport should be totally enclosed by impervious sheeting; • Vehicle washing facilities should be provided at every vehicle exit point; • The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcore; • Where a site boundary adjoins a road, streets or other areas accessible to the public, hoarding of not less than 2.4 m high from ground level should be provided along the entire length except for a site entrance or exit; • Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather; • 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 shall be applied to aggregate fines; • Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs; • Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations; • Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit; • Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the 3 sides; 	During Construction	√	
3.76	2.58	Air Quality Control	<p>Good housekeeping for SCISTW and PTWs listed below should be followed to ameliorate any odour impact from the plant and these standard practices should be included in the plant operator manual.</p> <ul style="list-style-type: none"> • Screens should be cleaned regularly to remove any accumulated organic debris • Grit and screening transfer systems should be flushed regularly with water to remove organic debris and grit • Grit and screened materials should be transferred to closed containers to minimize odour escape • Scum and grease collection wells and troughs should be emptied and flushed regularly to prevent putrefaction of accumulated organics • Skim and remove floating solids and grease from primary clarifiers regularly • Frequent sludge withdrawal from tanks is necessary to prevent the production of gases • Sludge cake should be transferred to closed containers • Sludge containers should be flushed with water regularly 	During Operation	N/A	
	2.57	Air Quality Control	Fully covered design of the odour sources of the upgraded PTWs and SCISTW and the installation of deodorization system at the exhaust of ventilation system would adequately control potential odour impact.	During Operation	N/A	
3.77	2.59	Air Quality Control	To avoid excessive extraction of the foul air from the drop shafts of the sedimentation tanks and also from the effluent flume structure of SCISTW to deodorization system, the extraction vent(s) of the deodorization system should be located away from the top openings of the drop shafts.	During Design Stage	N/A	
3.80	2.6	Air Quality Control	Commissioning tests for all deodorization system should be included in the Design and Construction Contract Document.	After completion of	N/A	

DC/2007/24 – Harbour Area Treatment Scheme Stage 2A
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun

April 2012 to June 2012

EIA Ref.	Final EM&A Manual Ref.	Environmental Aspect	Mitigation Measures	Timing	Compliance Status: √ = compliant; x = non-compliant; N/A = not applicable	
					Status	Remarks
4.56-4.61	3.21-3.24	Noise Control	Use of quiet PME, movable barriers and acoustic mats	During Construction	√	
4.67	3.25	Noise Control	<p>Good Site Practice:</p> <ul style="list-style-type: none"> • Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. • Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. • Mobile plant, if any, shall be sited as far away from NSRs as possible. • Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. • Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. • Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities. 	During Construction	√	
4.63	3.28	Noise Control	Use of acoustic louvers for air supply fans/extraction fans of transfer pumping stations and ventilation fans of deodourization unit at Sandy Bay PTW, Cyberport PTW and Wah Fu PTW	During Operation and Design Stage	N/A	
4.64		Noise Control	The maximum allowable sound power level (SWL) of each new transformer at Sandy Bay PTW shall be limited to 89 dB(A).	During Operation and Design Stage	N/A	
6.349 - 6.375		Water Quality Control	<p>Construction Site Runoff and General Construction Activities</p> <p>The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage should be adopted where applicable.</p>	During Construction	√	
6.376		Water Quality Control	<p>Effluent Discharge</p> <p>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. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD. Minimum distances of 100 m should be maintained between the discharge points of construction site effluent and the existing saltwater intakes.</p>	During Construction	√	
6.377		Water Quality Control	<p>Accidental Spillage of Chemicals</p> <p>Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.</p>	During Construction	√	
6.378		Water Quality Control	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 should only be undertaken within the areas appropriately equipped to control these	During Construction	√	

DC/2007/24 – Harbour Area Treatment Scheme Stage 2A
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun

April 2012 to June 2012

EIA Ref.	Final EM&A Manual Ref.	Environmental Aspect	Mitigation Measures	Timing	Compliance Status: √ = compliant; x = non-compliant; N/A = not applicable	
					Status	Remarks
6.379		Water Quality Control	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 Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: <ul style="list-style-type: none"> • Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. • Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. • Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 	During Construction	√	
6.380		Water Quality Control	Construction Works in Close Proximity of Storm Drains or Seafront To minimize the potential water quality impacts from the construction works located at or near any watercourse, the practices outlined below should be adopted where applicable. <ul style="list-style-type: none"> • The use of less or smaller construction plants may be specified to reduce the disturbance to the storm water courses or marine environment. • Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works. • Stockpiling of construction materials and dusty materials should be covered and located away from any water courses. • Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers. • Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable. 	During Construction	√	
6.381		Water Quality Control	Temporary Sewage Bypass It is recommended that the temporary sewage bypass required for (i) the modification to the existing pumping station at SCISTW and (ii) the interconnection between the existing main pumping station and the new pumping station on Stonecutters Island, if needed, should be scheduled at the same time as far as practicable in order to minimise the temporary discharge duration. It is also recommended that all the modification and interconnection to the existing facilities (including the modification to the existing NWKPS) should be programmed to avoid temporary sewage bypass in wet or bathing season (March to October) to minimize the potential impacts. Relevant government departments including EPD and LCSD should be informed of the planned sewage bypass prior to any discharge. During the sewage bypass period, water quality monitoring should be carried out at the water sensitive receivers to quantify the water quality impacts and to determine when the baseline water quality conditions are restored. Also, a framework of the response procedures has been formulated to minimize the impact of temporary	During Construction	√	
6.344		Water Quality Control	Dual power supply, standby facilities for the main treatment units and standby equipment parts / accessories should be provided as far as possible at the SCISTW to minimize the chance of emergency discharge.	During Operation and Design Stage	N/A	
6.344		Water Quality Control	The response procedure and monitoring requirements for emergency discharge as stated in EM&A Manual should be followed.	During Operation	N/A	
6.345		Water Quality Control	Standby unit(s) and dual (backup) power supply would be provided at all the Stage 2 PTWs to reduce the risk of equipment breakdown at the PTWs.	During Operation and Design Stage	N/A	

DC/2007/24 – Harbour Area Treatment Scheme Stage 2A
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun

April 2012 to June 2012

EIA Ref.	Final EM&A Manual Ref.	Environmental Aspect	Mitigation Measures	Timing	Compliance Status: √ = compliant; x = non-compliant; N/A = not applicable	
					Status	Remarks
6.346		Water Quality Control	In case of total power outage of the dechlorination plant, the uninterruptible power supply (UPS) system to be provided would switch the power supply of the sodium bisulphite dosing pump to a backup battery almost instantaneously, allowing continuous dosage of sodium bisulphite for at least half an hour so that sufficient time can be provided for shutting down the chlorination plant to avoid the possibility of discharge of chlorinated effluent.	During Operation and Design Stage	N/A	
6.347		Water Quality Control	The model predicted that if Stage 2B is not implemented for HATS in 2021 as scheduled, the nutrient contents (both P and N) in the marine water would ultimately increase to exceed the baseline Stage 1 level when the HATS flow is reaching its design capacity of 2.45M m3/day. It is recommended that the future review study for Stage 2B should review the validity of the model predictions provided in this EIA and confirm the need of enhanced nutrient removal for HATS after 2021.	During Operation and Design Stage	N/A	
6.348		Water Quality Control	It should be noted that the mixing zone for TIN predicted for Stage 2B was large with an area of about 30 km2 and the area of exceedance would encroach on the nearby water sensitive receivers (e.g. Ma Wan Fish Culture Zone). This is due to the elevated oxidized nitrogen assumed for the proposed nitrification process at Stage 2B as well as the increased HATS effluent flow assumed for Stage 2B. It is recommended that these water quality issues should be further investigated / assessed under the future EIA for Stage 2B. Further mitigation measures / alternative treatment designs should also be considered under the future EIA for Stage 2B to mitigate / minimize the potential TIN exceedances.	Investigation Stage of Stage 2B	N/A	
9.107	7.8	Waste Management	Reusable steel or concrete panel shutters, fencing and hoarding and signboard should be used as a preferred alternative to items made of wood, to minimise wastage of wood. Attention should be paid to WBTC No. 19/2001 - Metallic Site Hoardings and Signboards to reduce the amount of timber used on construction sites. Metallic alternatives to timber are readily available and should be used rather than new timber. Precast concrete units should be adopted wherever feasible to minimize the use of timber formwork.	During Construction	N/A	
9.109	7.10	Waste Management Implication	All waste materials should be segregated into categories covering: <ul style="list-style-type: none"> • excavated materials suitable for reuse on-site; • excavated materials suitable for public filling facilities; • remaining C&D waste for landfill; • chemical waste; and • general refuse for landfill. 	During Construction	√	
9.113	7.15	Waste Management Implication	Recommendations to achieve waste reduction include:- <ul style="list-style-type: none"> • Sort C&D waste from demolition of existing facilities to recover recyclable portions such as metals; • Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force; • Any unused chemicals or those with remaining functional capacity shall be recycled; and • Proper storage and site practices to minimise the potential for damage or contamination of construction materials. 	During Construction	√	
9.115	7.14	Waste Management Implication	Recommendations for good site practices during construction activities include:- <ul style="list-style-type: none"> • Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site • Training of site personnel in proper waste management and chemical waste handling procedures • Develop and provide toolbox talk for on-site sorting of C&D materials to enhance worker's awareness in handling, sorting, reuse and recycling of C&D materials. • Provision of sufficient waste disposal points and regular collection of waste • Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors 	During Construction	√	

DC/2007/24 – Harbour Area Treatment Scheme Stage 2A
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun

April 2012 to June 2012

EIA Ref.	Final EM&A Manual Ref.	Environmental Aspect	Mitigation Measures	Timing	Compliance Status: √ = compliant; x = non-compliant; N/A = not applicable	
					Status	Remarks
9.125	7.14	Waste Management Implication	Bentonite slurries used in diaphragm wall construction should be reconditioned and reused wherever practicable. The disposal of residual used bentonite slurry should follow the good practice guidelines stated in ProPECC PN 1/94	During Construction	N/A	
9.131	7.26	Waste Management Implication	Adequate number of portable toilets at temporary works areas or the PTWs to ensure that sewage from site staff would be properly collected.	During Construction	√	
9.133	7.22	Waste Management Implication	General refuse should be stored in enclosed bins, skips or compaction units separating from C&D material and disposed of at designated landfill.	During Construction	√	
9.135	7.24	Waste Management Implication	The recyclable component of the municipal waste generated by the workforce, such as aluminium cans, paper and cleansed plastic containers should be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste should be set up by the Contractor. The Contractor should also be responsible for arranging recycling companies to collect these materials.	During Construction	√	
9.137	7.28	Waste Management Implication	If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a chemical waste producer and to follow the guidelines 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, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the approved Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	During Construction	√	
9.142	7.32 ~ 7.33	Waste Management Implication	Prior to excavation of the marine deposit layer, the deposit should be tested in accordance with the ETWB TC(W) No. 34/2002 and the results should be presented in a Preliminary Sediment Quality Report. The marine deposit should be disposed of at the disposal site designated by the Marine Fill Committee (MFC) or Director of Environmental Protection (DEP) depending on the test results.	During Construction	N/A	
9.148	7.36	Waste Management Implication	The sludge tanks should be air-tighten. Rotating brushes or other alternative devices should be installed at the upper frame of the sludge tank washing facilities to provide better cleaning of the surface around the top loading opening of the sludge tanks. Prior to making such provision, the top covers of the sludge transfer tanks should be water cleaned manually after unloading.	During Construction	N/A	
9.150	7.35	Waste Management Implication	Since the air tightness of tankers highly relies on the effectiveness of rubber seals at the loading openings and unloading doors, odour leakage from tankers are commonly resulted from the aging rubber seals. It is recommended to develop a preventive maintenance programme for rubber seals of loading openings and unloading doors of sludge transfer tanks to ensure the tightness of covers and doors. Rubber seals should be regularly replaced within its design life as specified by suppliers.	During Construction	N/A	
10.92		Terrestrial Ecology	All the proposed construction activities would be confined to developed area and wasteland of very low ecological value.	Design stage	√	
10.93		Terrestrial Ecology	To implement effective noise mitigation recommended in Section 4.	During Construction	√	
10.94		Terrestrial Ecology	Dust control practices such as regular watering, complete coverage of any aggregate or dusty material storage piles, and re-schedule of dusty activities during high-wind conditions as well as other measures recommended in Section 3, should be implemented.	During Construction	√	
10.95		Terrestrial Ecology	Fences/hoardings should be erected and installed along the boundary of the works areas.	During Construction	√	

DC/2007/24 – Harbour Area Treatment Scheme Stage 2A
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun

April 2012 to June 2012

EIA Ref.	Final EM&A Manual Ref.	Environmental Aspect	Mitigation Measures	Timing	Compliance Status: √ = compliant; x = non-compliant; N/A = not applicable	
					Status	Remarks
10.96		Terrestrial Ecology	Standard good site practices as suggested in Section 10 should be implemented.	During Construction	√	
10.97		Terrestrial Ecology	Provision of proper drainage system and runoff control measures such as use of sand/silt traps, oil/grease separators, sedimentation tanks, etc.	During Construction	√	
10.98		Terrestrial Ecology	Provision of compensatory planting of similar native tree species in no less than 1:1 compensatory ratio in terms of quality and quantity.	During Construction	N/A	
11.135		Marine Ecology	To minimize the potential indirect impacts on water quality from construction site runoff and various construction activities, the practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted.	During Construction	√	
11.136		Marine Ecology	To avoid/minimize the impact to corals, it is proposed that they are translocated to the eastern end of the existing seawall, which has similar hydrographic parameters and supports healthy growth of the same species and is thus considered as a suitable recipient site (Figure 11.13). Coral translocation should be carried out during the winter season (November- March) in order to avoid disturbance to the transplanted colonies during the spawning period (i.e. July to October).	Pre-construction	N/A	
11.137		Marine Ecology	Dredging works will not be carried out and sheet piles or silt curtains will be used to contain filling material used during demolition/re-construction of the seawall. Water quality modelling predicts that no adverse impact on water quality at the proposed recipient (Figure 11.13) site would occur during construction works. Following this, no construction phase monitoring on translocated coral would be required. However, post-translocation monitoring is suggested to be carried out every 3 months for one year. This would be carried out by a marine ecological specialist that is approved by the Director. Translocation plan for corals will be submitted to the Director for approval prior to the commencement of construction works.	Pre-construction	N/A	
11.139		Marine Ecology	It is recommended that temporary sewage bypass should be programmed to avoid temporary sewage bypass in wet or bathing season (March to October) in order to minimize the potential impacts. Relevant government departments including EPD and LCSD should be informed of the planned sewage bypass prior to any discharge. During the sewage bypass period, water quality monitoring should be carried out at the water sensitive receivers to quantify the water quality impacts and to determine when the baseline water quality conditions are restored. Also, a framework of the response procedures has been formulated to minimize the impact of temporary discharges. Details are provided in the standalone EM&A Manual.	During Construction and Design stage	√	
Table 13.7		Landscape & Visual Impact	<ul style="list-style-type: none"> • Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical. • Existing trees to be retained on site should be carefully protected during construction. • Trees unavoidably affected by the works should be transplanted where practical. • Compensatory tree planting should be provided to compensate for felled trees. • Control of night-time lighting. • Erection of decorative screen hoarding the surrounding setting. 	Pre-construction	N/A	
Table 13.8		Landscape & Visual Impact	<ul style="list-style-type: none"> • Aesthetic design of the façade of PTW and associated structures to harmonize with the surrounding settings. • Shrub and Climbing Plants to soften proposed structures / Roof Greening. • Buffer Tree and Shrub Planting to screen proposed associated structures. • Reinstated of disturbed area 	Pre-construction	N/A	
14A.198 & 14A.203		Hazard to Life	Limiting magnitude of ground settlement associated with shafts & tunnels construction, excavation and seawall demolition to 13mm and subject to requirements from relevant authorities.	During Construction	N/A	

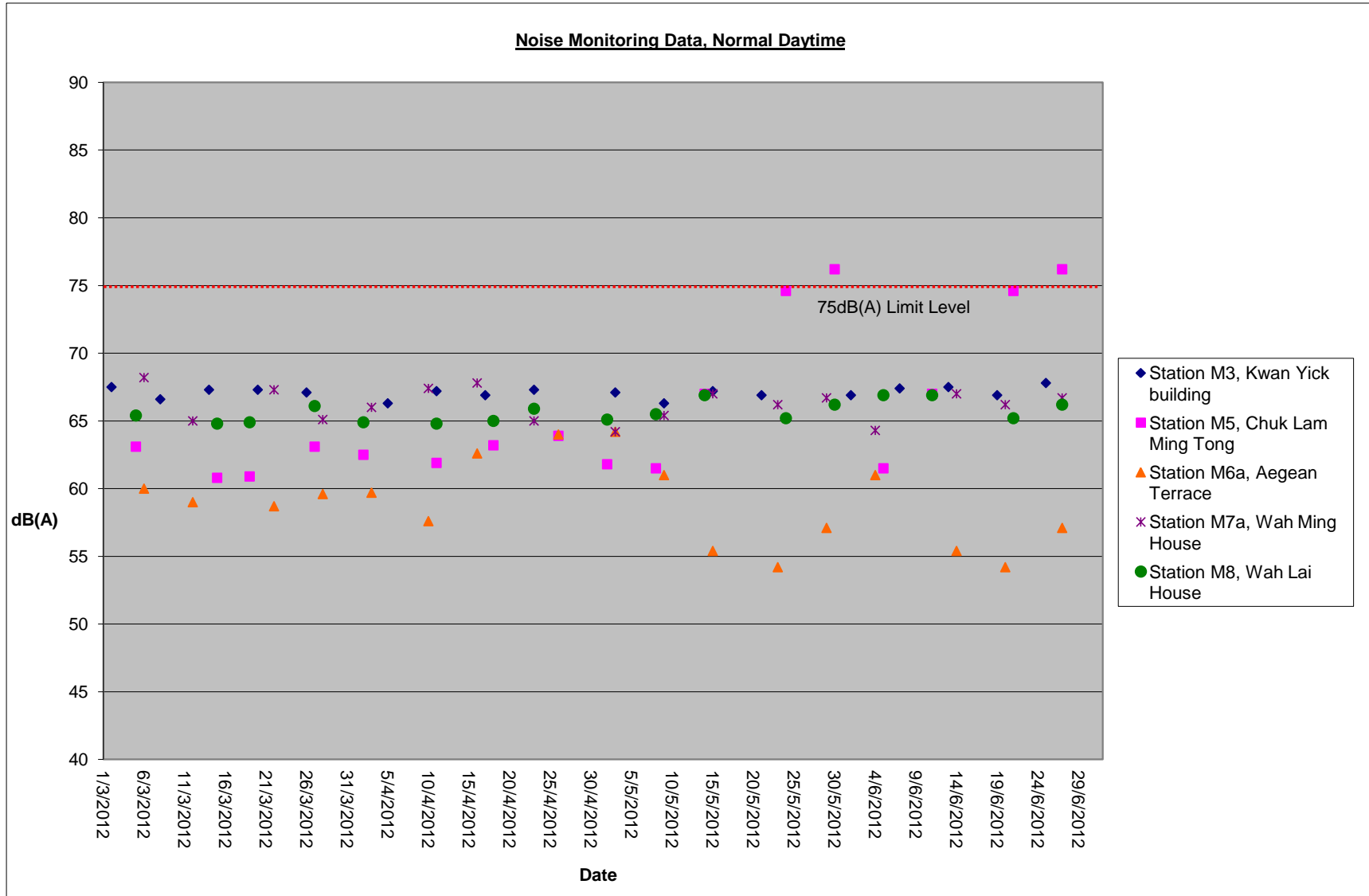
DC/2007/24 – Harbour Area Treatment Scheme Stage 2A
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun

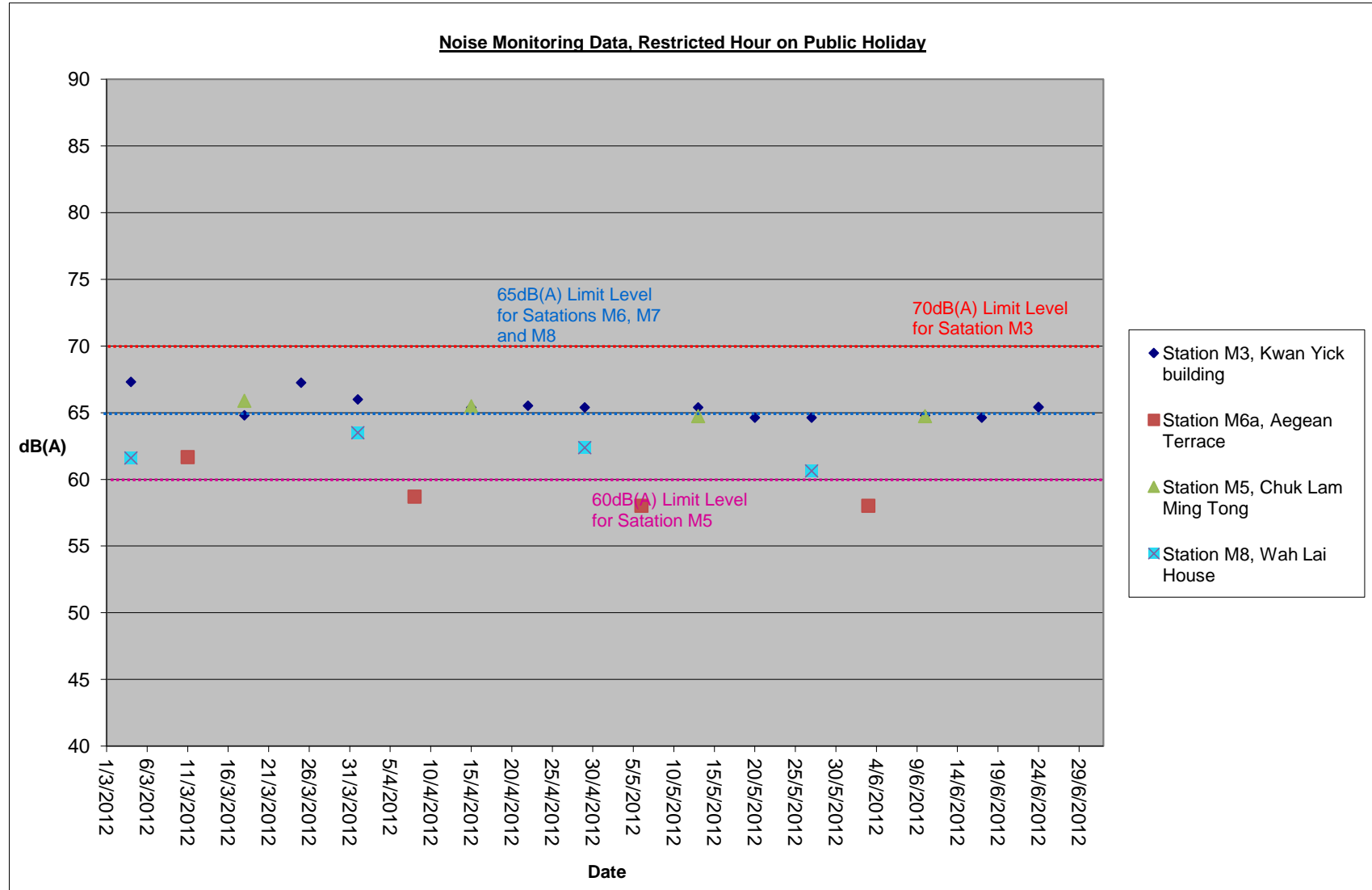
April 2012 to June 2012

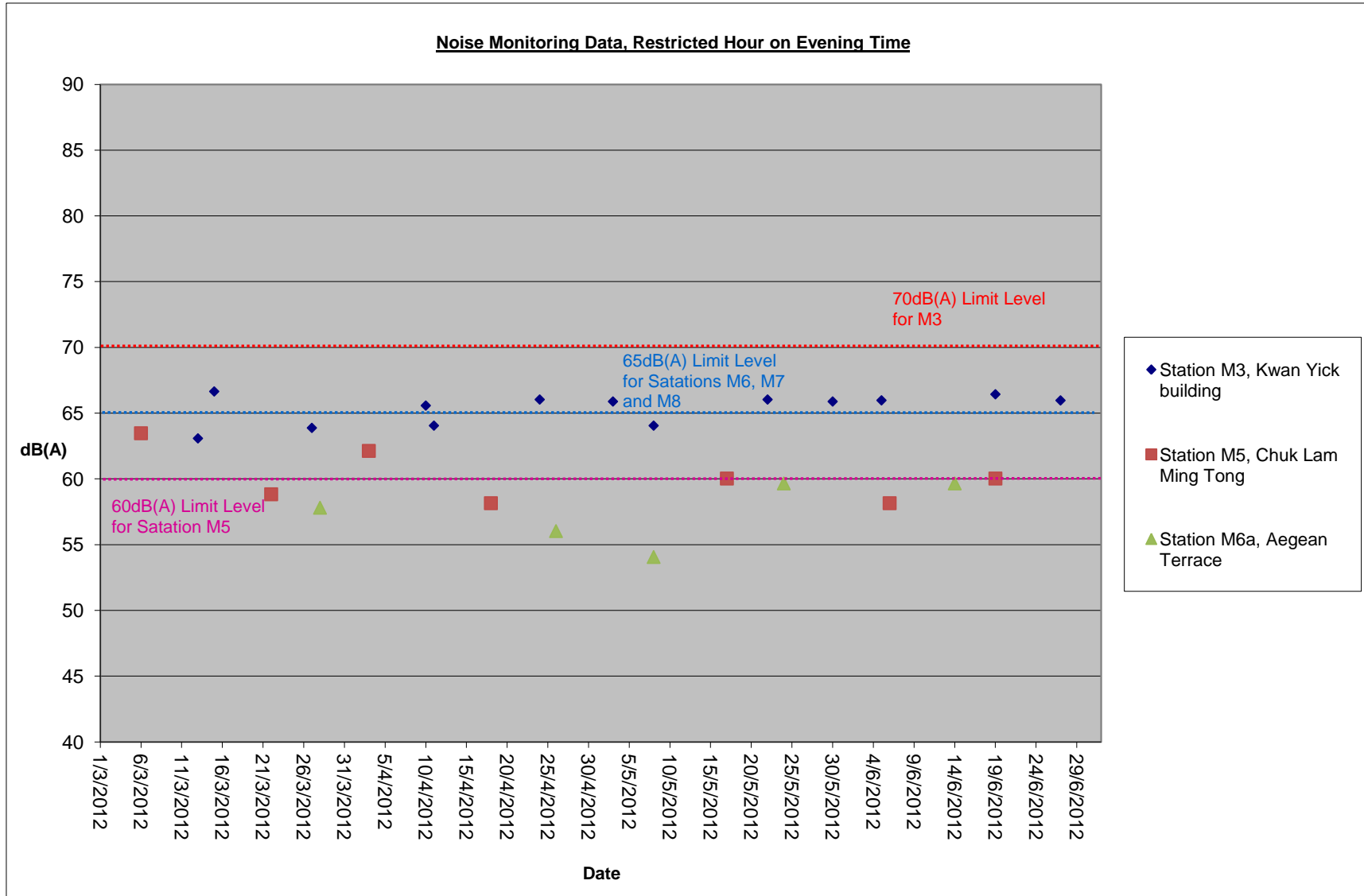
EIA Ref.	Final EM&A Manual Ref.	Environmental Aspect	Mitigation Measures	Timing	Compliance Status: √ = compliant; x = non-compliant; N/A = not applicable	
					Status	Remarks
14A.199 & 14A.204		Hazard to Life	Limiting of the vibration levels associated with the blasting programme for the Tunnel P, shafts and other construction works (including demolition & reconstruction of seawall, excavation for seawater pump house at the Aberdeen PTW) at the PTW sites to a peak particle velocity of 5mm/s and subject to requirements from relevant authorities. Moving array of sensors will be used as the tunnel is advanced.	During Construction	N/A	
14A.201		Hazard to Life	Limiting use of cranes in terms of locations, lifting height, swing angle and setting up safety zone.	During Construction	√	
14A.206		Hazard to Life	Establish emergency plan and procedures	During Construction	√	
14.C78		Hazard to Life	Ensuring Quality of Chemical Supplier <ul style="list-style-type: none"> • Only appoint chemical suppliers with satisfactory quality system. • Request the chemical supplier to employ an independent checker to audit the quality and safety management system of the supplier • The chemical supplied to SCISTW can only be produced in designated chemical production plants and delivered directly from designated locations. This measure will be included in the chemical supply contract. 	During Construction	√	
Tables 15.8 - 15.11		Cultural Heritage	The construction vibration control limit (ppv of 25mm/s) shall be strictly followed. If vibration levels are found to exceed the limit level, the Contractor shall investigate the cause of the exceedance and take immediate corrective action by reducing the rate of forward progress, as necessary, to bring PPV levels within compliance.	During Blasting for tunnel, shafts, effluent conveyance system and disinfection facilities in the vicinity of the buildings/ structures	√	
15.7		Cultural Heritage	Monitoring of vibration limits shall be conducted and reported as a requirement of EM&A programme	During Blasting for tunnel, shafts, effluent conveyance system and disinfection facilities in the vicinity of the buildings/ structures	√	

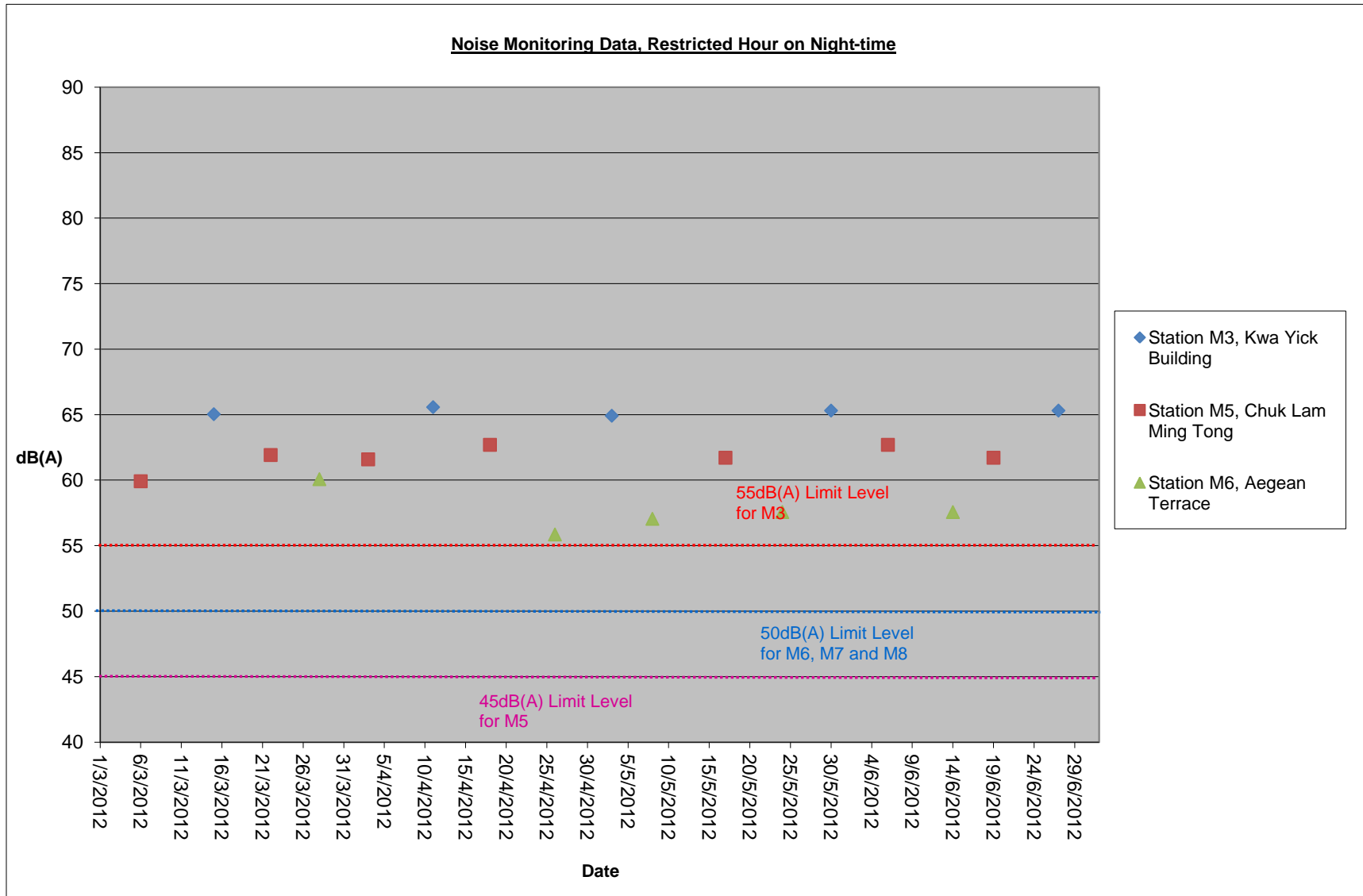
APPENDIX E

GRAPHICAL PRESENTATION OF NOISE MONITORING DATA



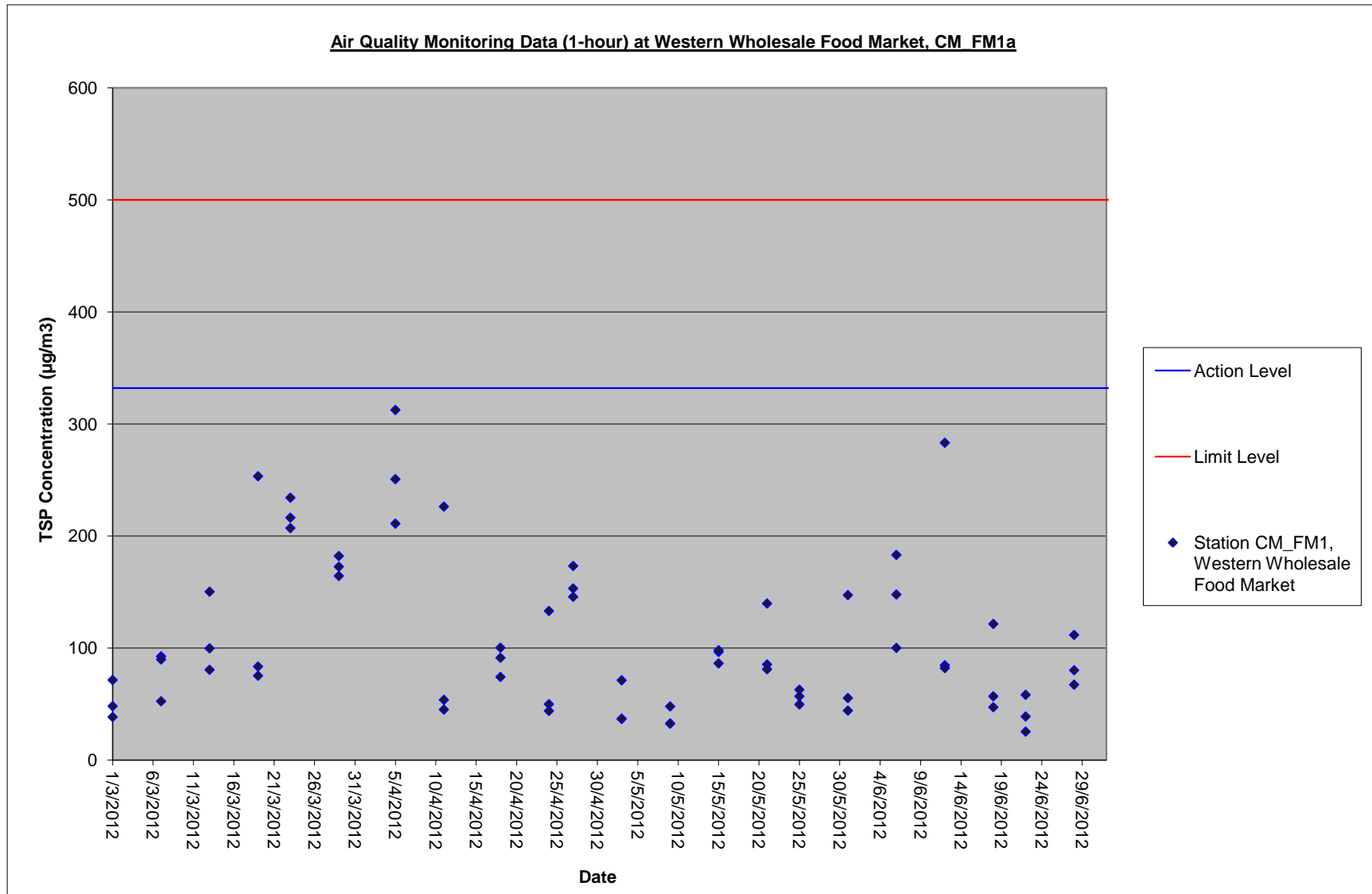


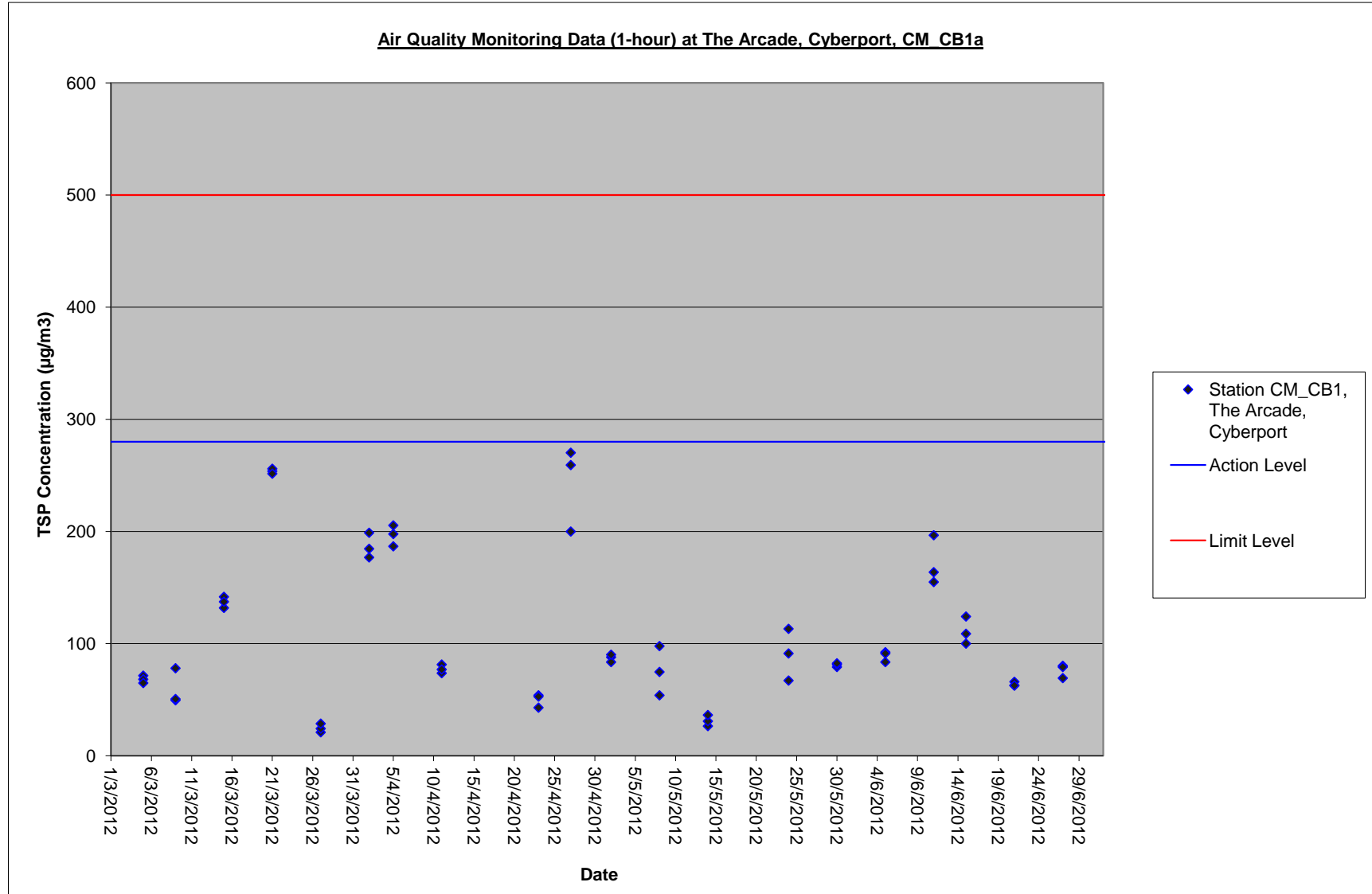


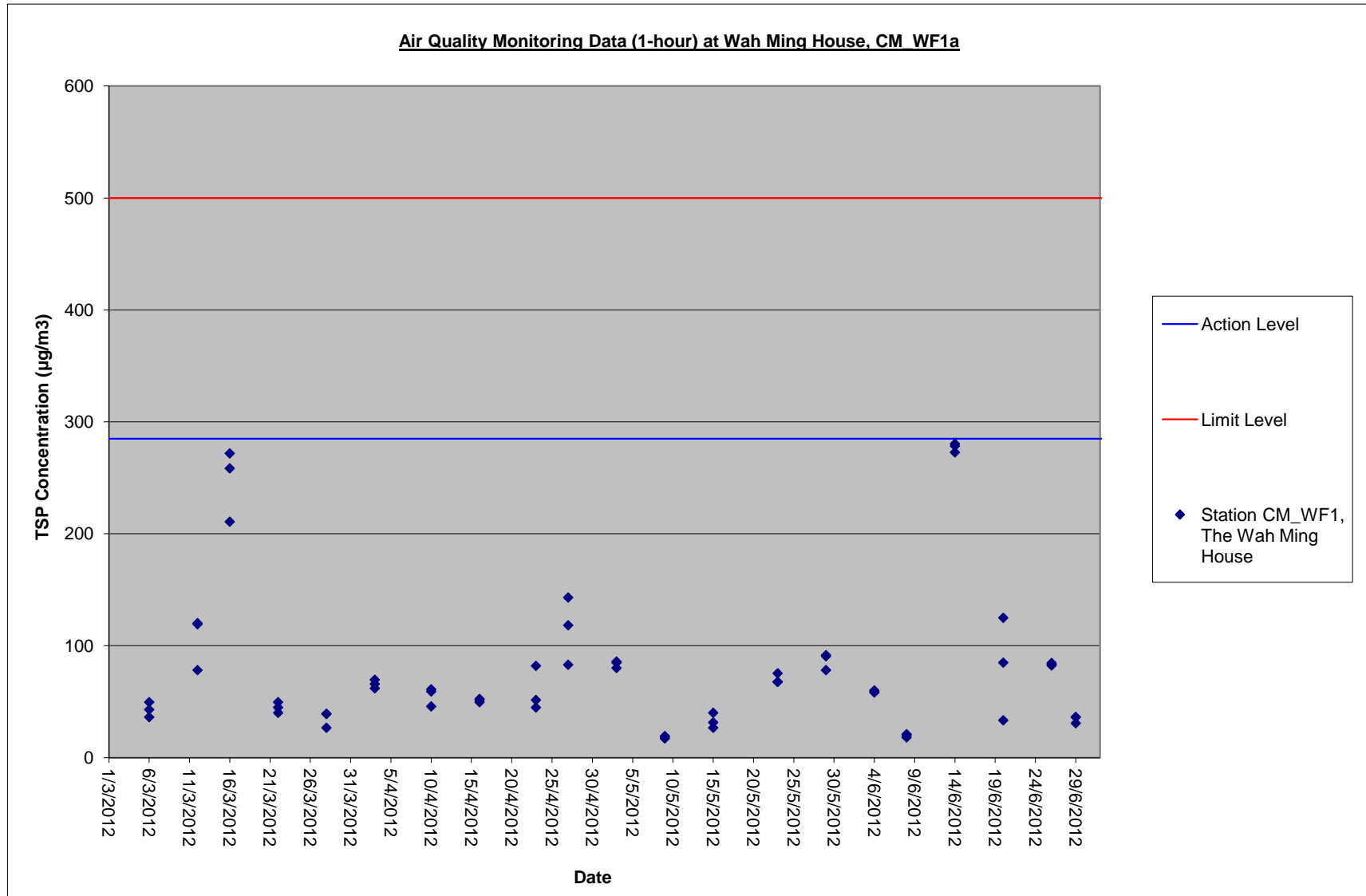


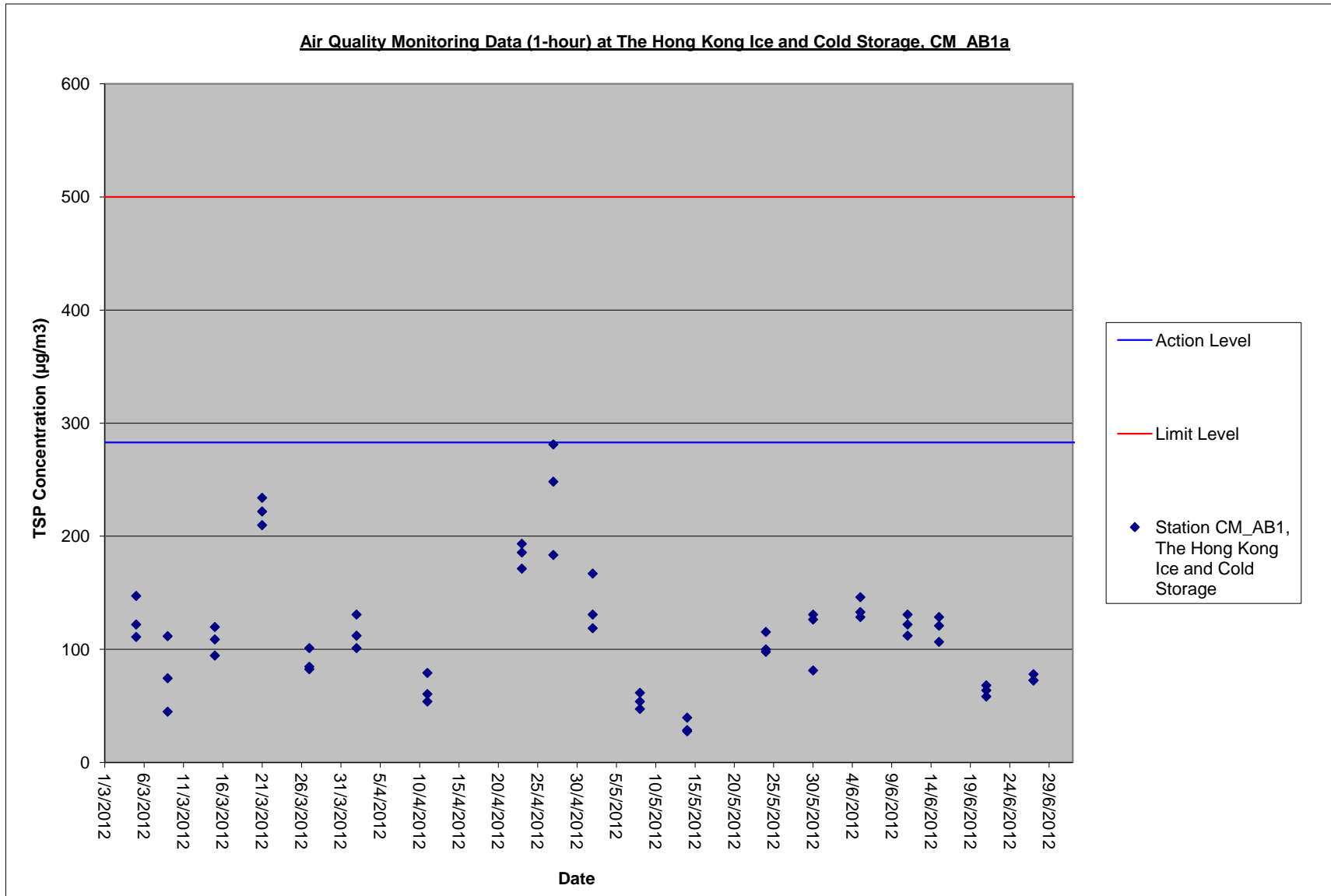
APPENDIX F

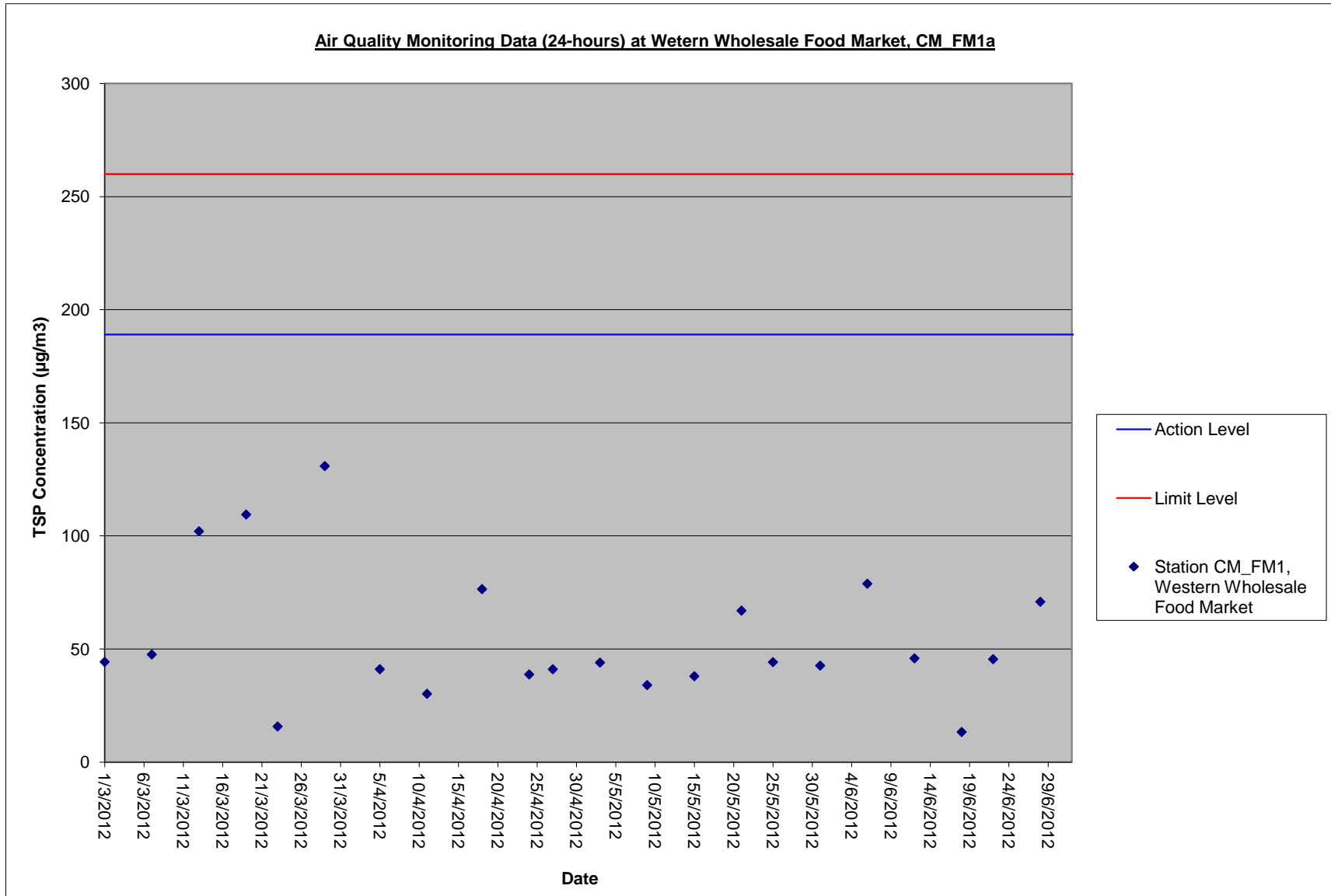
GRAPHICAL PRESENTATION OF AIR QUALITY MONITORING DATA

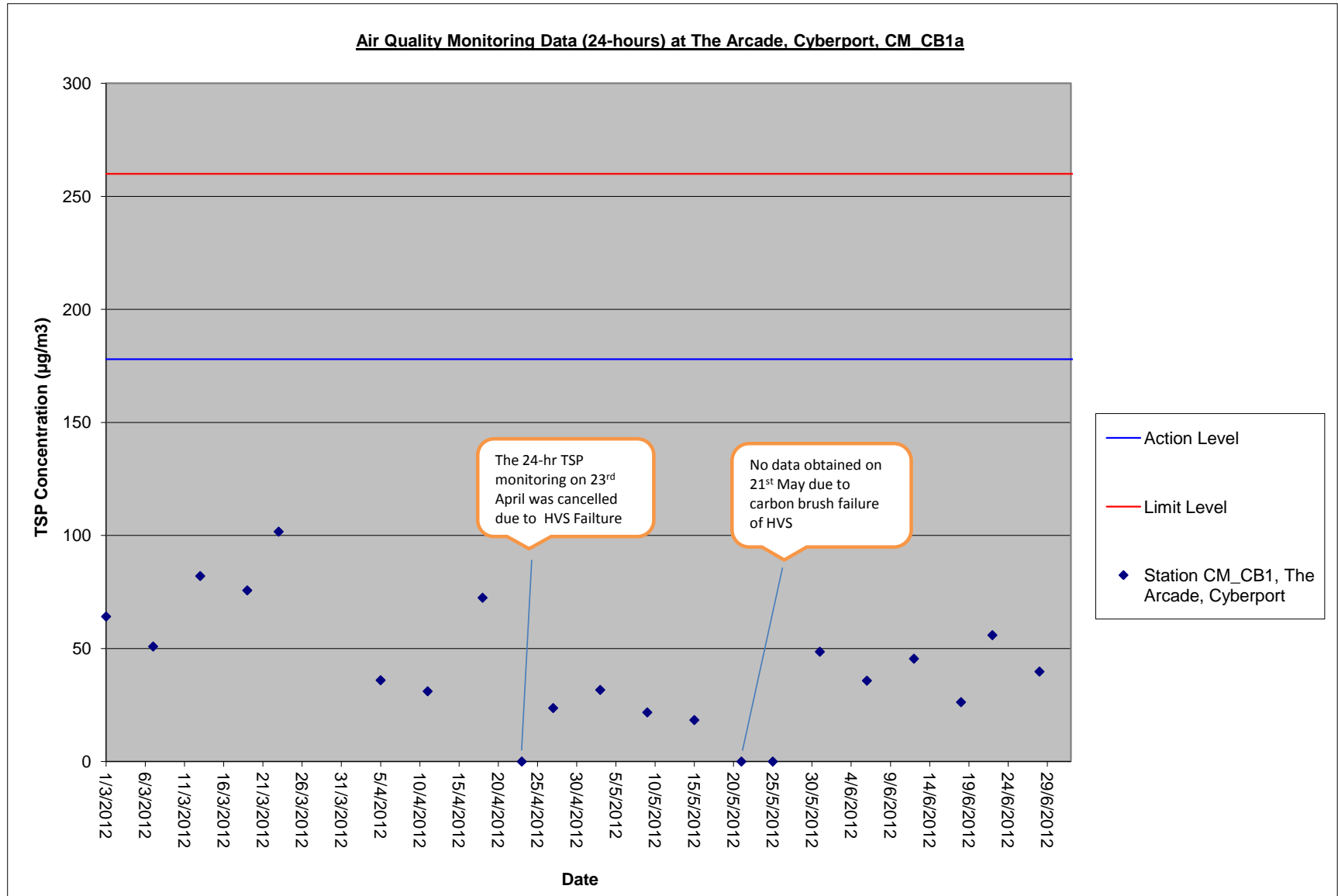


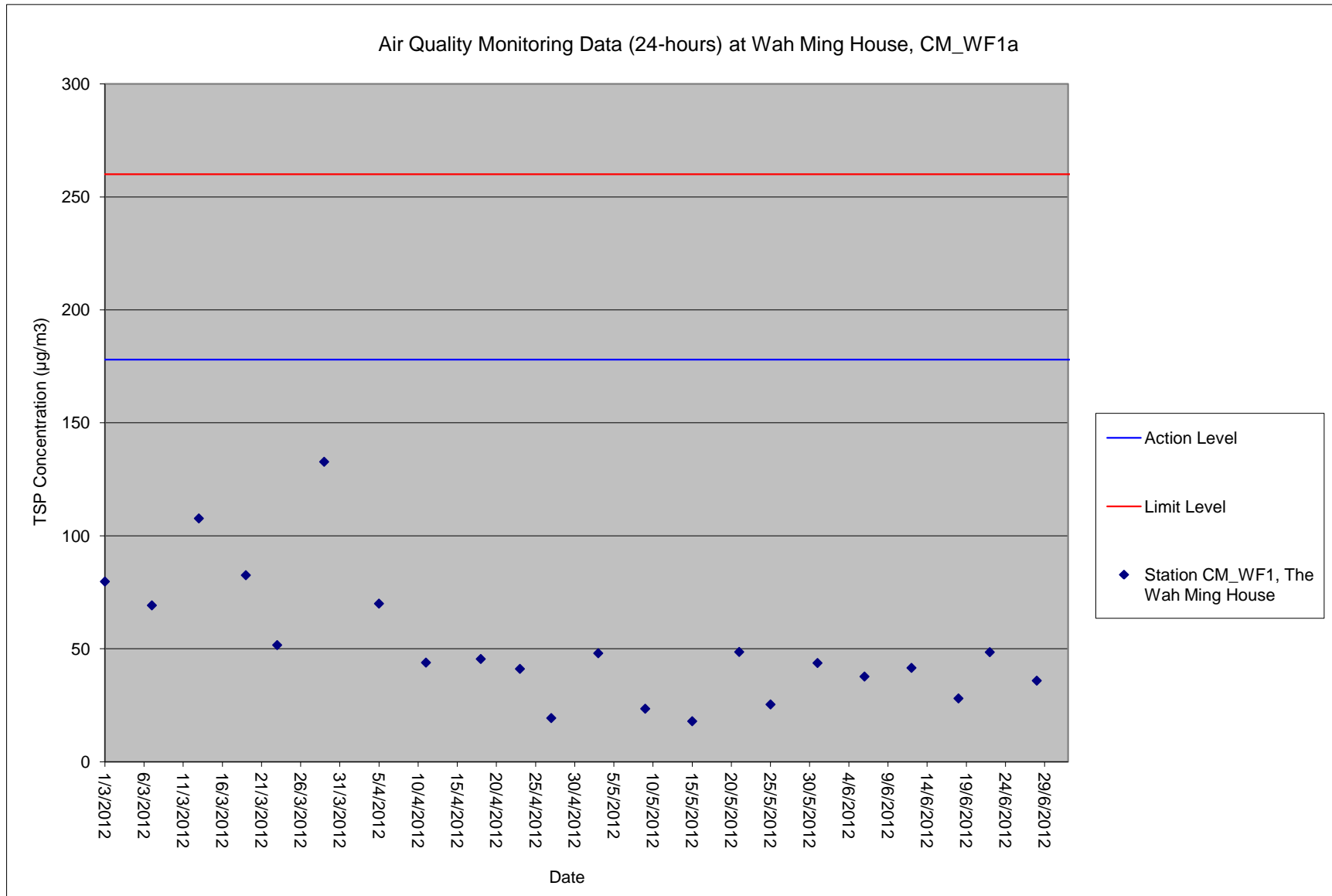


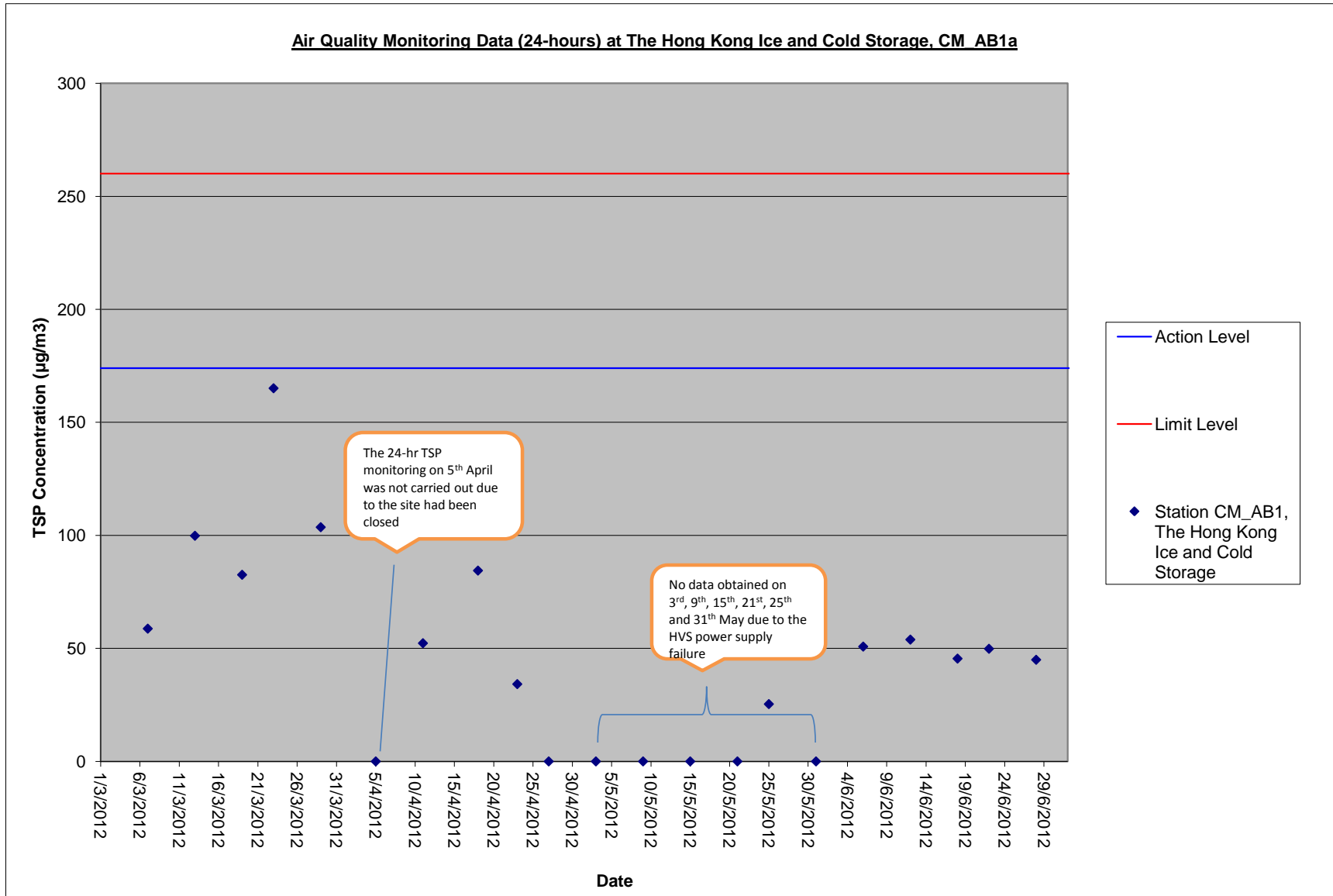












APPENDIX G

LANDSCAPE AND VISUAL MONITORING REPORT

Leighton – LNS Joint Venture

Contract No. DC/2007/24
Harbour Area Treatment Scheme
Stage 2A - Construction of Sewage
Conveyance System from
Aberdeen to Sai Ying Pun:
*10th Quarterly Landscape & Visual
Monitoring Report*

June 2012

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Leighton – LNS Joint Venture

Contract No. DC/2007/24
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Conveyance System from
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June 2012

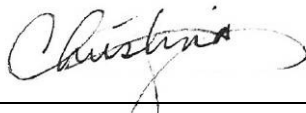
Reference 0109356

For and on behalf of ERM-Hong Kong, Limited

Approved by: Frank Wan

Signed:

Position: Partner

Certified by: 

(Registered Landscape Architect,
Christina Ip)

Date: 20 July 2012

CONTENTS

1	<i>IMPACT LANDSCAPE AND VISUAL MONITORING</i>	1
1.1	<i>INTRODUCTION</i>	1
1.2	<i>MONITORING PARAMETERS</i>	1
1.3	<i>SITE AUDIT FINDINGS AND OBSERVATIONS</i>	1
2	<i>CONCLUSIONS</i>	2

ANNEXES

Annex A Landscape Mitigation Measures (Reference to Approved EIA Report (EIA-148/2008))

Annex B Site Inspection Checklists

1.1 INTRODUCTION

The construction works of DC/2007/24 of Harbour Area Treatment Scheme Stage 2A (HATS2A) - Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun (the Project) commenced on 23 December 2009. This is the tenth quarterly landscape and visual (L&V) impact monitoring report presenting the L&V site audit findings conducted during the period from 1 April 2012 to 30 June 2012.

1.2 MONITORING PARAMETERS

According to the EM&A Manual, the L&V monitoring should include checking of the design and auditing of the implementation and maintenance of L&V mitigation measures to ensure that they are provided in accordance with the recommendations of the approved EIA Report (EIA-148/2008).

Three monthly site audits were undertaken on 24 April, 29 May and 26 June 2012 to check the design, implementation and maintenance of the landscape and visual mitigation measures at work sites in Aberdeen, Wah Fu, Cyberport, Sandy Bay and Sai Ying Pun.

The landscape and visual mitigation measures recommended in the approved EIA Report (EIA-148/2008) during the construction phase are listed in Table 1.1 and shown in Annex A.

Table 1.1 Proposed Landscape Mitigation Measures for the Construction Phase

ID No.	Landscape and Visual Mitigation Measures	Sites
CM1	Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Aberdeen, Wah Fu, Cyberport, Sandy Bay and Sai Ying Pun
CM2	Existing trees to be retained on site should be carefully protected during construction.	Aberdeen, Wah Fu, Cyberport, Sandy Bay
CM3	Trees unavoidably affected by the works should be transplanted where practical.	Aberdeen, Cyberport, Sandy Bay
CM4	Compensatory tree planting should be provided to compensate for felled trees.	Aberdeen, Cyberport, Sandy Bay
CM5	Control of night-time lighting.	Aberdeen, Wah Fu, Cyberport, Sandy Bay and Sai Ying Pun
CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Aberdeen, Wah Fu, Cyberport, Sandy Bay and Sai Ying Pun

1.3 SITE AUDIT FINDINGS AND OBSERVATIONS

A summary of findings and observations of the site audit is presented in Annex B.

This report summarises the monthly landscape and visual monitoring works undertaken during the period from 1 April to 30 June 2012 in accordance with EM&A Manual. The monthly landscape and visual site audits were undertaken on 24 April, 29 May and 26 June 2012 to check the design, implementation and maintenance of landscape and visual mitigation measures at work sites in Aberdeen, Wah Fu, Cyberport, Sandy Bay and Sai Ying Pun under the Contract DC/2007/24 of Harbour Area Treatment Scheme Stage 2A (HATS2A) - Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun.

Sandy Bay

On 24 April 2012, the retained trees T038(R) and T053(R) were exhibited deterioration and damage to the branches and had dried leaves falling-off from the affected areas since the audit undertaken in September and November 2011. In addition to this, tree tag and identification for retained tree T038(R) has not yet been provided. It was also observed that transplanted tree T017 (T) and retained tree T214(R) was in a very poor health condition and no proper tree tag identification was provided for T214 (R). Construction materials have been stored very close to the roots of the retained trees T047(R). The Contractor was advised to schedule trimming on the affected trees and to take necessary mitigation measures to improve the overall health condition of all retained and transplanted trees in the site. The Contractor was also advised to replace and provide the identification tag of the retained tree T038(R) and T214(R) immediately and to relocate the construction materials away from the roots of retained tree T047 (R). There are two untagged trees spotted during this month site audit and the Contractor was advised to check the identifications from the original tree survey and tagged the unnamed trees properly.

On 29 May 2012, the retained trees T038(R) and T053(R) were exhibited deterioration and damage to the branches and had dried leaves falling-off from the affected areas since the audits undertaken in September and November 2011. Also transplanted tree T017 (T) and retained tree T214(R) were in a very poor health condition. The Contractor was reminded to schedule trimming on the affected trees and to take necessary mitigation measures to improve the overall health condition of all retained and transplanted trees in the site. The tree protection zone for retained tree T038(R) was observed insufficient. Also the tree identification tag was still missing for the retained tree T038(R). The Contractor was reminded to provide a proper tree protection zone and provide proper tree identification tag for the retained tree T038(R). It was also observed that no proper tree tag identification was provided for T214 (R). The Contractor was reminded to provide proper tree identification tag for the retained tree. Construction materials were still found stored close to the roots of the retained tree T047(R). The Contractor was reminded to remove the construction materials

immediately. Root flare of retained tree T039(R) was observed in very poor condition. It is due to the soil being damped by water which is from the sink next to the tree. The Contractor was reminded to relocate the effluent pipe of the sink to prevent damping. The retained trees T058(R) and T021(R) were observed not being properly tagged. Markings were also observed on the tree trunks. The Contractor was reminded to provide proper tree identification tag to the retained tree and was reminded not to make any marking on the tree surfaces.

On 26 June 2012, the retained trees T038(R) and T053(R) were exhibited deterioration and damage to the branches and had dried leaves falling-off from the affected areas since the audits undertaken in September and November 2011. Also transplanted tree T017 (T) and retained tree T214(R) were in a very poor health condition. The Contractor was reminded to schedule trimming on the affected trees and to take necessary mitigation measures to improve the overall health condition of all retained and transplanted trees in the site. The tree protection zone for retained tree T038(R) was observed insufficient. The fencing was in contact with the tree trunk and part of the root was observed outside the tree protection zone. The Contractor was reminded to provide a proper tree protection zone. Construction waste was observed inside the tree protection zone of retained tree T052(R). The Contractor was reminded to remove the Construction waste. It was observed that construction material and cable were hanging of the tree branches of retained tree T021(R). The Contractor was reminded to remove them. It was also observed that no proper tree tag identification was provided for T038(R), T058(R), T021(R) and T214 (R). The Contractor was reminded to provide proper tree identification tag for the retained tree.

Cyberport Site

On 24 April 2012, the formation of stagnant water near to the retained tree T048(R) at the Cyberport site was observed since the audit undertaken in July 2011. During this month site audit, it was observed that the soil around the retained tree was damp. This condition might affect the roots of the retaining tree T048(R). The Contractor was advised to closely monitor the area and keep using the water pump to divert the water away from the area.

On 29 May 2012, the retained tree T065(R) was observed being untagged. Also a metal bar was observed tied on the tree branch. The Contractor was reminded to provide proper tree identification tag for the retained tree and was reminded to remove the metal bar. The retained tree T074(R) was also observed not being properly tagged and marking was also observed on the tree trunk. The Contractor was reminded to provide proper tree identification tag to the retained tree and was reminded not to make any marking on the tree surfaces. With reference to the letter dated on 30 April 2012 from AECOM (Ref: (DC/2007/24)/C60/300(0113)). The Contractor has applied for Emergency Tree Felling for removing the retained tree T075(R) due to public safety issues. The application has been approved by District Lands Office and during this month site audit, it was observed that the

retained tree was felled and removed from the site on 25 May 2012. The Contractor was reminded to propose a compensatory planting as soon as possible.

On 26 June 2012, the retained tree T065(R) was still observed being untagged. Also a metal bar was still observed tied on the tree branch. The Contractor was reminded again to provide proper tree identification tag for the retained tree and was reminded to remove the metal bar. The retained tree T074(R) was still observed not being properly tagged and marking was also observed on the tree trunk. The Contractor was reminded again to provide proper tree identification tag to the retained tree and was reminded not to make any marking on the tree surfaces.

Aberdeen Site

On 24 April 2012, the retained tree T076(R) was in a very poor health condition. The condition of the retained trees T079(R) is still deteriorating and some stems and leaves were dying and nearby trees T078(R) and T080(R) were also showing the same condition during this month site audit. The Contractor was advised to take appropriate actions such as regularly watering and trimming of all retained trees to improve and restore the health condition of the affected trees. The construction materials that were stored close to the root area of the retained tree T0801(R) were still observed since the last audit undertaken in February 2012, and this might affect the health condition of the tree. The Contractor was advised to remove all construction materials away from the roots of the affected retained tree. The three outstanding untagged trees which were spotted during the site audits undertaken in November 2011 and February 2012 within the boundary of workshop area in the Aberdeen site have not yet been rectified. The Contractor was advised to double check the identifications of the trees in the original tree survey report and properly tag all trees immediately.

On 29 May 2012, the retained tree T076(R) was in a very poor health condition. The condition of the retained trees T079(R) is still deteriorating and some stems and leaves were dying and nearby trees T078(R) and T080(R) were also showing the same condition. The Contractor was reminded to take appropriate actions such as regularly watering and trimming of all retained trees to improve and restore the health condition of the affected trees. Tree protect zone for the retained tree T078(R), T079(R) and T080(R) was damaged. The Contractor was reminded to repair the tree protection zone. A tree near the entrance, retained tree T078(R) and two trees at the end of the workshop area were still observed without proper identification tag. The Contractor was reminded to provide proper tree identification tag for the retained trees. Construction materials were still observed stored close to the roots of the retained tree T081(R) since February 2012. The Contractor was reminded to remove the construction material immediately. The retained tree T083(R) was observed to be in a very poor health condition. Large wound was observed on the main trunk and all leaves were observed dried. The

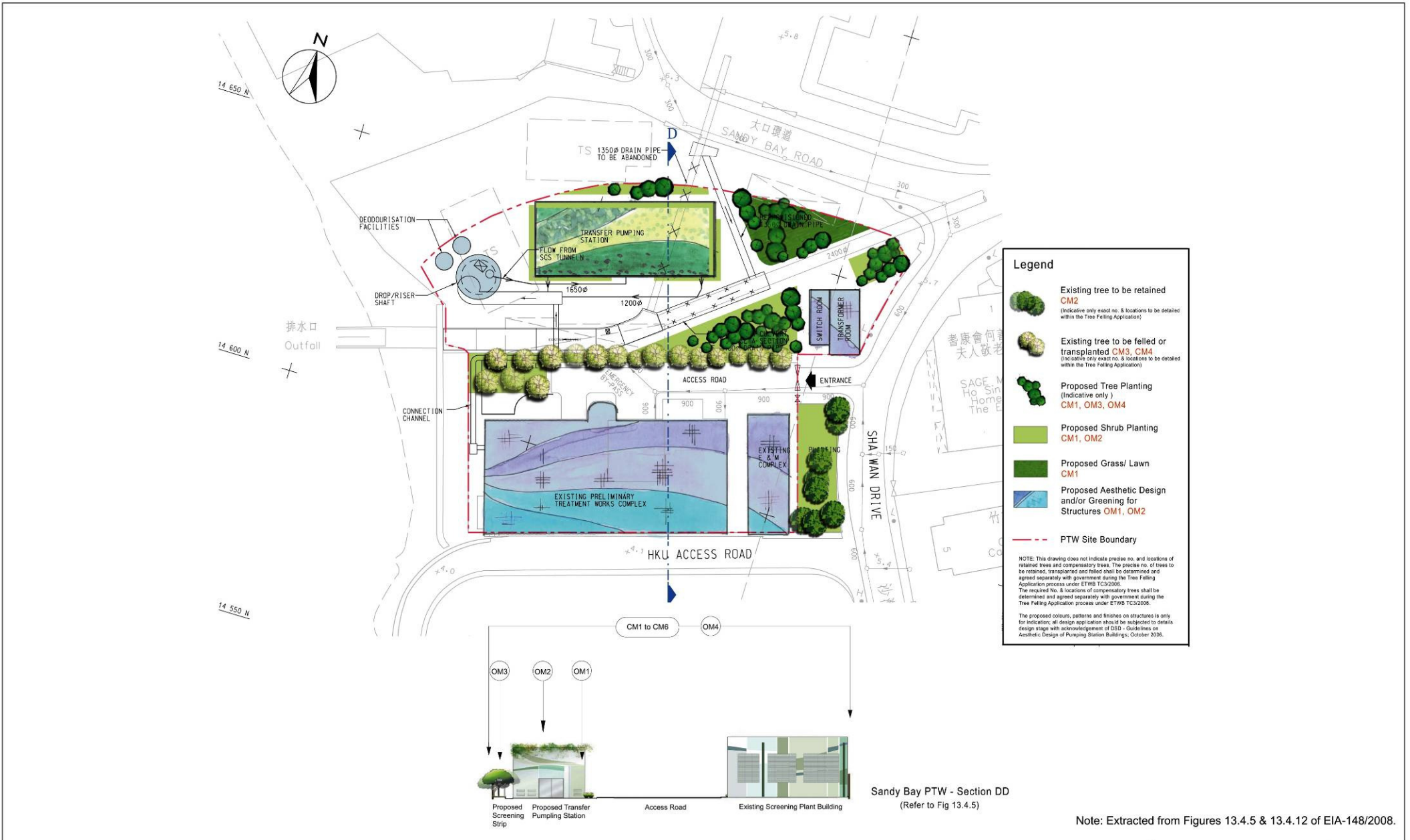
Contractor was reminded to arrange their landscape sub-contractor to inspect the condition of the tree and prepare a tree observation form.

On 26 June 2012, the retained tree T076(R) was in a very poor health condition. The condition of the retained trees T079(R) is still deteriorating and some stems and leaves were dying and nearby trees T078(R) and T080(R) were also showing the same condition. The Contractor was reminded to take appropriate actions such as regularly watering and trimming of all retained trees to improve and restore the health condition of the affected trees. Tree protection zone for the retained tree T076(R) and T077(R) was damaged. The Contractor was reminded to repair the tree protection zone. A tree near the entrance, retained tree T078(R) and two trees at the end of the workshop area were still observed without proper identification tag. The Contractor was reminded to provide proper tree identification tag for the retained trees. The retained tree T083(R) was observed to be in a very poor health condition. Large wound was observed on the main trunk and all leaves were observed dead. The Contractor was reminded to arrange their landscape sub-contractor to inspect the condition of the tree and prepare a tree observation form. Construction materials were still observed stored close to the roots of the retained tree T003(T) since February 2012. The Contractor was reminded to remove the construction material immediately.

Except for the above, all landscape and visual mitigation measures were implemented during the reporting period.

Annex A

Landscape Mitigation
Measures (Reference to
Approved EIA Report (EIA-
148/2008))



Note: Extracted from Figures 13.4.5 & 13.4.12 of EIA-148/2008.

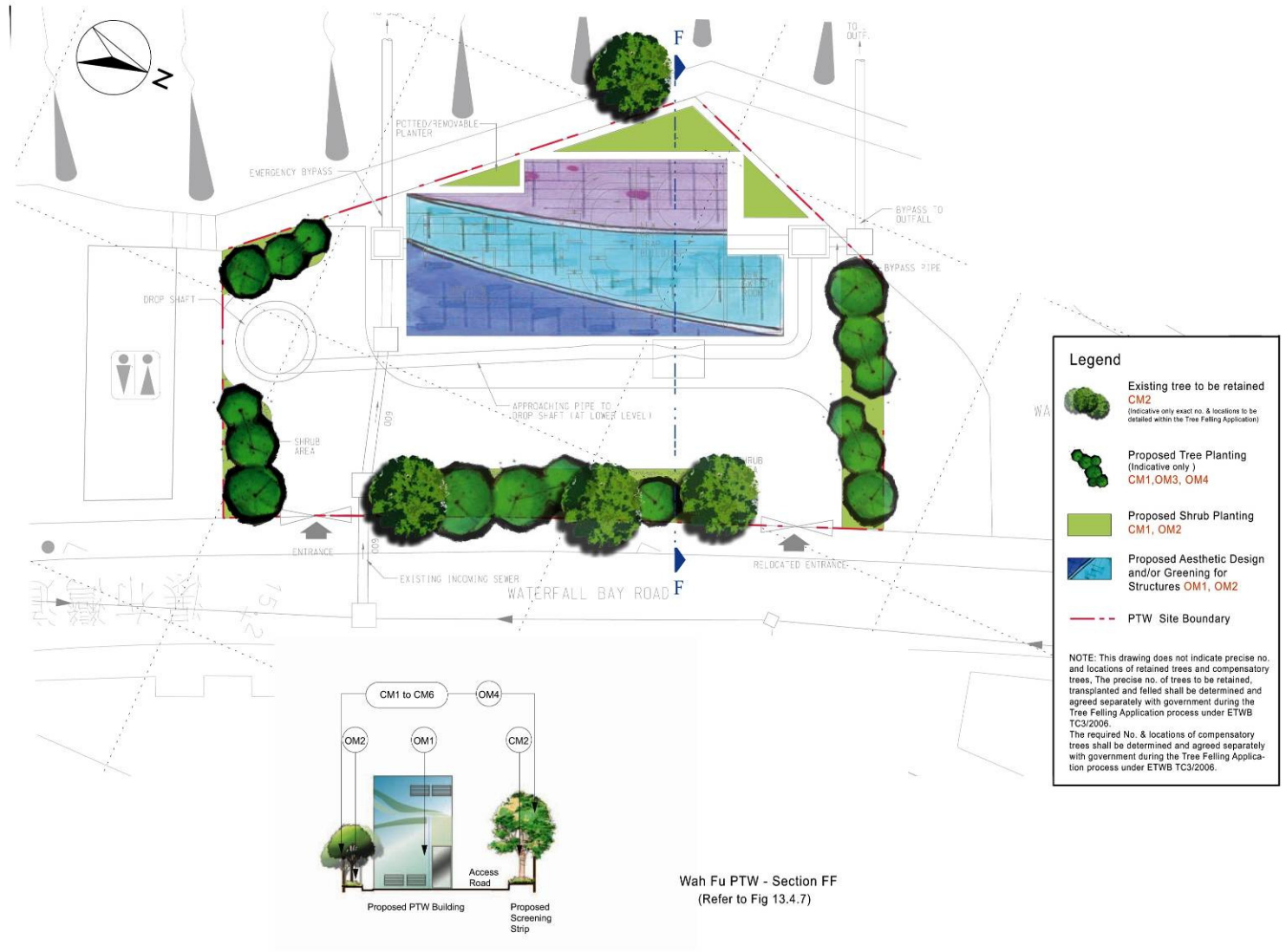
Figure 1.1 Landscape Mitigation Measure in Sandy Bay



Note: Extracted from Figures 13.4.6 & 13.4.13 of EIA-148/2008.

Figure 1.2

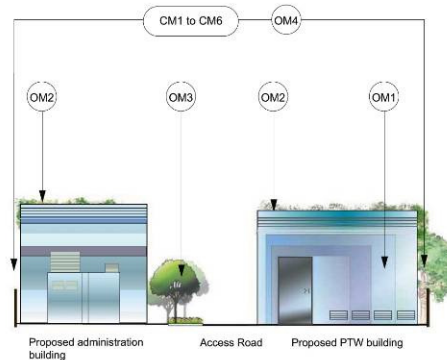
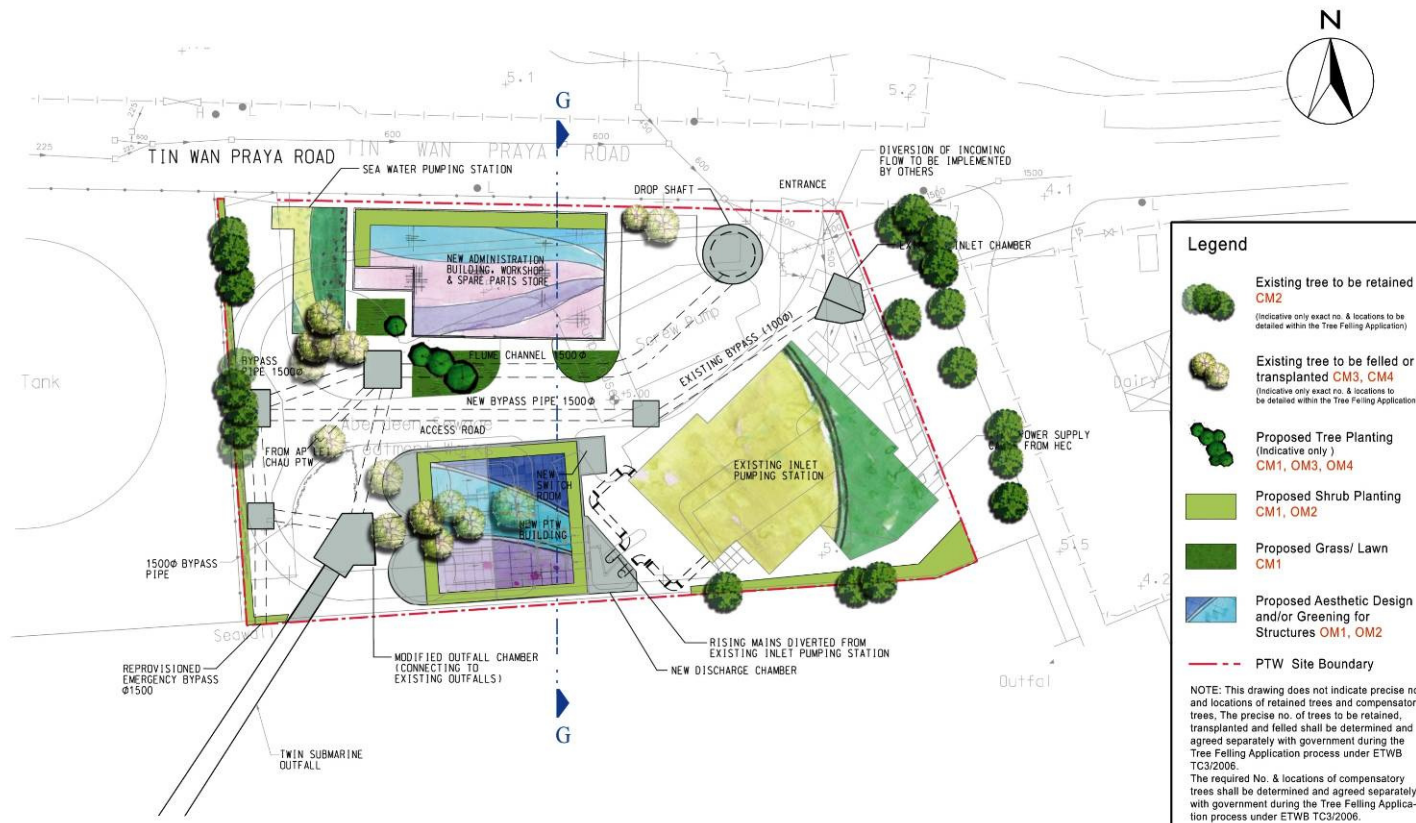
Landscape Mitigation Measure in Cyberport



Note: Extracted from Figures 13.4.7 & 13.4.13 of EIA-148/2008.

Figure 1.3

Landscape Mitigation Measure in Wah Fu



Aberdeen PTW - Section GG
(Refer to Fig 13.4.8)

Note: Extracted from Figures 13.4.8 & 13.4.14 of EIA-148/2008.

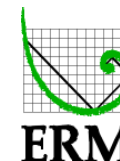
Figure 1.4

Landscape Mitigation Measure in Aberdeen

Annex B

Site Inspection Checklists

Harbour Area Treatment Scheme (HATS) Stage 2A
 Contract No. DC/2007/24
 Construction of Sewage Conveyance from Aberdeen to Sai Ying Pun
 Landscape & Visual Monitoring Report



Reporting Period : 1 April to 30 April 2012

Site Inspection Date : 24 April 2012

Inspected By : Jon Binalay

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
Sai Ying Pun	No major excavation works were conducted. No stockpile of excavated soil was observed.	Not Applicable - No tree was identified at the Sai Ying Pun Area	Not Applicable - No tree was identified at the Sai Ying Pun Area	Not applicable - No tree was identified at the Sai Ying Pun Area	Night-time lighting was used for 24 hours a day from 1 to 30 April 2012.	Decorative screen hoarding were erected and is compatible to the surrounding setting.	Not required
Sandy Bay	No major excavation works were conducted. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected. The conditions of T038(R) and T053(R) were still deteriorating and some parts of the trees were damaged. In addition to this, identification tag for tree T038(R) was still	No tree was transplanted during this reporting month.	Not applicable - Compensatory tree planting has not started yet.	Night-time lighting was used for 24 hours a day from 1 to 30 April 2012.	Decorative screen hoarding were erected and is compatible to the surrounding setting.	The Contractor was reminded regarding tree compensation to be provided to all dead trees T036(R), T037(R), T020(R), T061(R), T059(R), T004 (T) and T005 (T) immediately that was recorded since the site audit in February 2012. The Contractor was advised to check the damages on the retained trees T038(R),

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
		<p>missing (see <i>Photos 1, 2 and 3</i>)</p> <p>Trees T214(R) and T017 (T) were showing a poor health conditions and no proper identification tag provided for T214(R). (see <i>Photos 4 and 5</i>)</p> <p>Construction materials were stored close to the roots of retained tree T047(R), (see <i>Photos 6</i>).</p> <p>Two untagged trees was spotted by ERM during this site month audit (See <i>Photos 7 and 8</i>).</p>					<p>T053(R), T214(R) and T017 (T) and to take necessary mitigation measures to improve the overall health condition of the trees. Provided the missing tag for the retained trees T038(R) and T214(R) immediately.</p> <p>The Contractor was also advised to relocate away all materials stored very near to the roots of the affected retained tree T047(R).</p>

Site	CM1	CM2	CM3	CM4	CM5	CM6	Recommendations
	Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	Existing trees to be retained on site should be carefully protected during construction	Trees unavoidably affected by the works should be transplanted where practical.	Compensatory tree planting should be provided to compensate for felled trees.	Control of night-time lighting.	Erection of decorative screen hoarding compatible with the surrounding setting.	
Cyberport	No major excavation works were conducted. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly. The stagnant water around retained tree T048(R) was observed to be damp during this site audit. The damp environment might affect the overall health condition of the tree (see <i>Photo 9</i>).	No tree was transplanted during this reporting month.	Not applicable - Compensatory tree planting has not started yet.	Night-time lighting was used for 24 hours a day from 1 to 30 April 2012.	Noise enclosure was erected over the shaft. A yellow tone was used for the materials of the noise enclosure, similar to the colour of the existing STW façade.	Contractor was advised to closely monitor the affected area and continue to use the water pump to drain the water away from the retained tree.
Wah Fu	No major excavation works were conducted. No stockpile of excavated soil was observed.	Not Applicable - No existing trees were identified to be affected within the works area.	Not Applicable - No existing trees were identified to be affected within the works area.	Not applicable - No existing trees were identified to be affected within the works area.	Not applicable - No night-time lighting was used.	Screening was erected and was compatible to the surrounding setting.	Not required
Aberdeen	No major excavation works were conducted. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly. The conditions of T076(R) and T079(R) were still deteriorating	All tree transplantation works have been completed and all transplanted trees are properly supported by tripod.	Not applicable - Compensatory tree planting has not started yet.	Night-time lighting was used until 23:00 hours on 18, 20, 25 and 27 April 2012.	Screen hoarding was erected and the grey colour is compatible to the surrounding setting.	The Contractor was advised to take necessary mitigation measures to improve the health conditions of the retained trees T076(R), T078(R), T079 (R) and T080(R).

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
		<p>and nearby retained trees T078 (R) and T080(R) were showing deterioration too on its foliage (see <i>Photos 10 and 11</i>).</p> <p>Construction materials were still found stored close to the root area of retained tree T081(R), deteriorating (see <i>Photos 12</i>).</p> <p>The three untagged trees identified in previous audits have not yet been rectified. (see <i>Photo 13 and 14</i>).</p>					<p>The Contractor was also advised to remove all construction materials stored close to the root areas of retained tree T081(R) immediately.</p> <p>The Contractor was advised to consult their tree consultant to check the identification of all untagged trees at the Aberdeen workshop site and provide the tree identification tags accordingly.</p>



Sandy Bay site --- Photo 1

The retained Tree T038 (R) was still observed deteriorating in health.



Sandy Bay site --- Photo 2

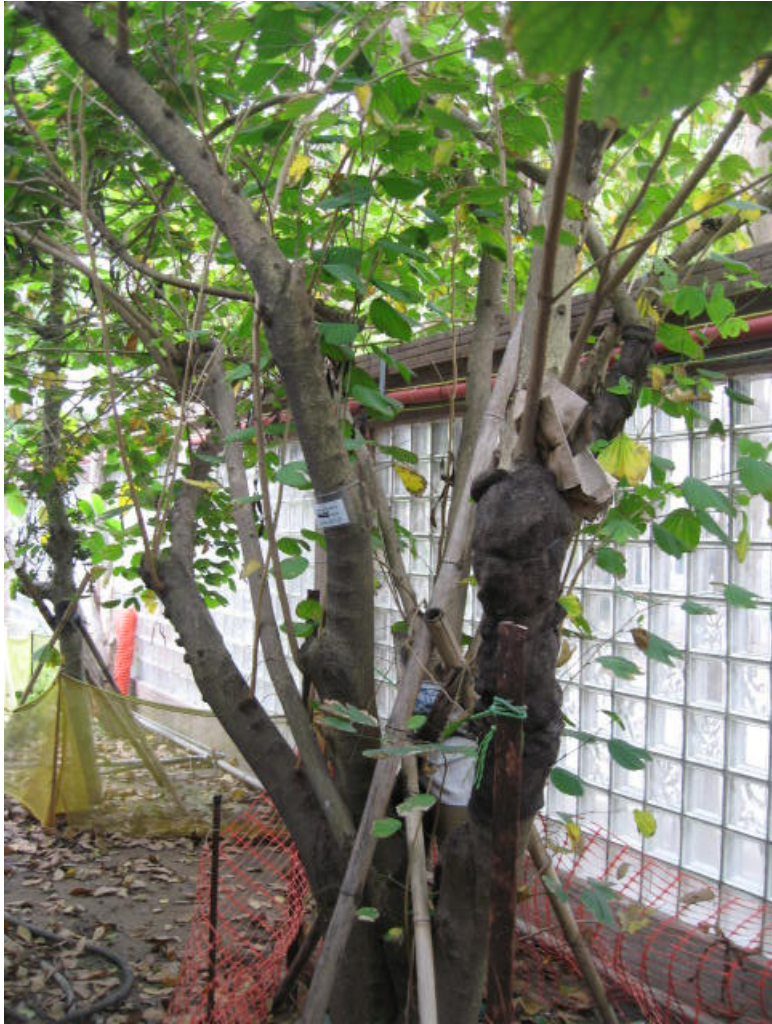
The retained Tree T053 (R) was still observed deteriorating in health.



Sandy Bay site --- Photo 3
Tree identification tag was still found missing for the retained tree T038 (R).



Sandy Bay site --- Photo 4
The retained Tree T214 (R) was observed to be in a very poor health condition.



Sandy Bay site --- Photo 5
The transplanted tree T017 (T) was observed deteriorating in health.



Sandy Bay site --- Photo 6
Construction materials were found stored close to the roots of retained Tree T047 (R).



Sandy Bay site --- Photo 7
Untagged trees spotted by ERM during this month site audit.



Sandy Bay site --- Photo 8
Untagged trees spotted by ERM during this month site audit.



Cyberport site --- Photo 9

The area around retained tree T048(R) was damp due to the formation of water nearby.



Aberdeen site --- Photo 10

The retained tree T076 (R) was still showing poor health condition.



Aberdeen site --- Photo 11

The retained tree T078(R), T079 (R) and T080(R) were showing deterioration.



Aberdeen site --- Photo 12

Construction materials were still observed stored close to the roots of the retained tree T081 (R).



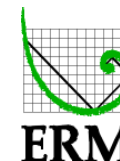
Aberdeen site --- Photo 13
Two trees found without proper identification tags.



Aberdeen site --- Photo 14
Tree found without proper identification tag.

**(Name: Christina Ip,
Registered Landscape Architect)**

Harbour Area Treatment Scheme (HATS) Stage 2A
 Contract No. DC/2007/24
 Construction of Sewage Conveyance from Aberdeen to Sai Ying Pun
 Landscape & Visual Monitoring Report



Reporting Period : 1 May to 31 May 2012

Site Inspection Date : 29 May 2012

Inspected By : Andrew Fung, Jon Binalay

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
Sai Ying Pun	No major excavation works were conducted. No stockpile of excavated soil was observed.	Not Applicable - No tree was identified at the Sai Ying Pun Area	Not Applicable - No tree was identified at the Sai Ying Pun Area	Not applicable - No tree was identified at the Sai Ying Pun Area	Night-time lighting was used for 24 hours a day from 1 to 31 May 2012.	Decorative screen hoarding were erected and is compatible to the surrounding setting.	Not required
Sandy Bay	No major excavation works were conducted. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected. The retained trees T038(R) and T053(R) were exhibited deterioration and damage to the branches and had dried leaves falling-off from the affected areas	No tree was transplanted during this reporting month.	Not applicable - Compensatory tree planting has not started yet.	Night-time lighting was used for 24 hours a day from 1 to 31 May 2012.	Decorative screen hoarding were erected and is compatible to the surrounding setting.	The Contractor was reminded regarding tree compensation to be provided to all dead trees T036(R), T037(R), T020(R), T061(R), T059(R), T004 (T) and T005 (T) immediately that was recorded since the site audit in February 2012. The Contractor was advised to check the damages on the retained trees T038(R),

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
		<p>since the audit undertaken in September and November 2011.</p> <p>Transplanted tree T017 (T) and retained tree T214(R) was in a very poor health condition.</p> <p>The tree protection zone for retained tree T038(R) was observed insufficient and the tree identification tag was still observed missing for the retained tree T038(R) (Photo 3).</p> <p>It was also observed that and no proper tree tag identification was provided for T214 (R).</p> <p>Construction materials were still found stored close to the roots of the retained tree T047(R) (Photo 5).</p>					<p>T053(R), T214(R) and T017 (T) and to take necessary mitigation measures to improve the overall health condition of the trees.</p> <p>The Contractor was reminded to provide the proper tree identification tag for the retained trees T038(R), T058(R), T21(R) and T214(R) immediately. Also the Contractor was reminded not to make any marking on the tree surfaces.</p> <p>The Contractor was also advised to relocate away all materials stored very near to the roots of the affected retained tree T047(R).</p> <p>The Contractor was reminded to provide proper tree protection zone for the retained tree T038(R).</p>

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
		<p>Root flare of retained tree T039(R) was observed in very poor condition (Photo 4).</p> <p>The retained trees T058(R) and T21(R) were observed not being properly tagged. Markings were also observed on the tree trunks. (Photo 6 and 7)</p>					

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
Cyberport	No major excavation works were conducted. No stockpile of excavated soil was observed.	<p>Existing trees have been retained on site, fenced off and protected properly.</p> <p>The retained tree T065(R) was observed being untagged (Photo 1). Also a metal bar was observed tied on the tree branch.</p> <p>The retained tree T074(R) was also observed not being tagged and marking was also observed on the tree trunk (Photo 2).</p> <p>With reference to the letter dated on 30 April 2012 from AECOM (Ref: (DC/2007/24)/C60/30 0(0113)). The Contractor has applied for Emergency Tree Felling for removing the retained tree</p>	No tree was transplanted during this reporting month.	Not applicable - Compensatory tree planting has not started yet.	Night-time lighting was used for 24 hours a day from 1 to 31 May 2012.	Noise enclosure was erected over the shaft. A yellow tone was used for the materials of the noise enclosure, similar to the colour of the existing STW façade.	<p>The Contractor was reminded to provide proper tree identification tag for the retained tree T065(R) and was reminded to remove the metal bar.</p> <p>The Contractor was reminded to provide proper tree identification tag to the retained tree T074(R) and was reminded not to make any marking on the tree surfaces.</p> <p>The Contractor was reminded to propose a compensatory planting as soon as possible.</p>

Site	CM1	CM2	CM3	CM4	CM5	CM6	Recommendations
	Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	Existing trees to be retained on site should be carefully protected during construction	Trees unavoidably affected by the works should be transplanted where practical.	Compensatory tree planting should be provided to compensate for felled trees.	Control of night-time lighting.	Erection of decorative screen hoarding compatible with the surrounding setting.	
		T075(R) due to public safety issues. The application has been approved by District Lands Office and during this month site audit, it was observed that the retained tree was felled and removed on the site area last May 25, 2012.					
Wah Fu	No major excavation works were conducted. No stockpile of excavated soil was observed.	Not Applicable - No existing trees were identified to be affected within the works area.	Not Applicable - No existing trees were identified to be affected within the works area.	Not applicable - No existing trees were identified to be affected within the works area.	Not applicable - No night-time lighting was used.	Screening was erected and was compatible to the surrounding setting.	Not required
Aberdeen	No major excavation works were conducted. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly. The retained tree T076(R) was in a very poor health condition. The condition of the retained trees T079(R) is still deteriorating and some stems and	All tree transplantation works have been completed and all transplanted trees are properly supported by tripod.	Not applicable - Compensatory tree planting has not started yet.	Night-time lighting was used until 23:00 hours on 21 and 25 May 2012.	Screen hoarding was erected and the grey colour is compatible to the surrounding setting.	The Contractor was advised to take necessary mitigation measures to improve the health conditions of the retained trees T076(R), T078(R), T079 (R) and T080(R). The Contractor was reminded to repair the tree protection zone for retained tree T079(R), T078(R) and T080(R).

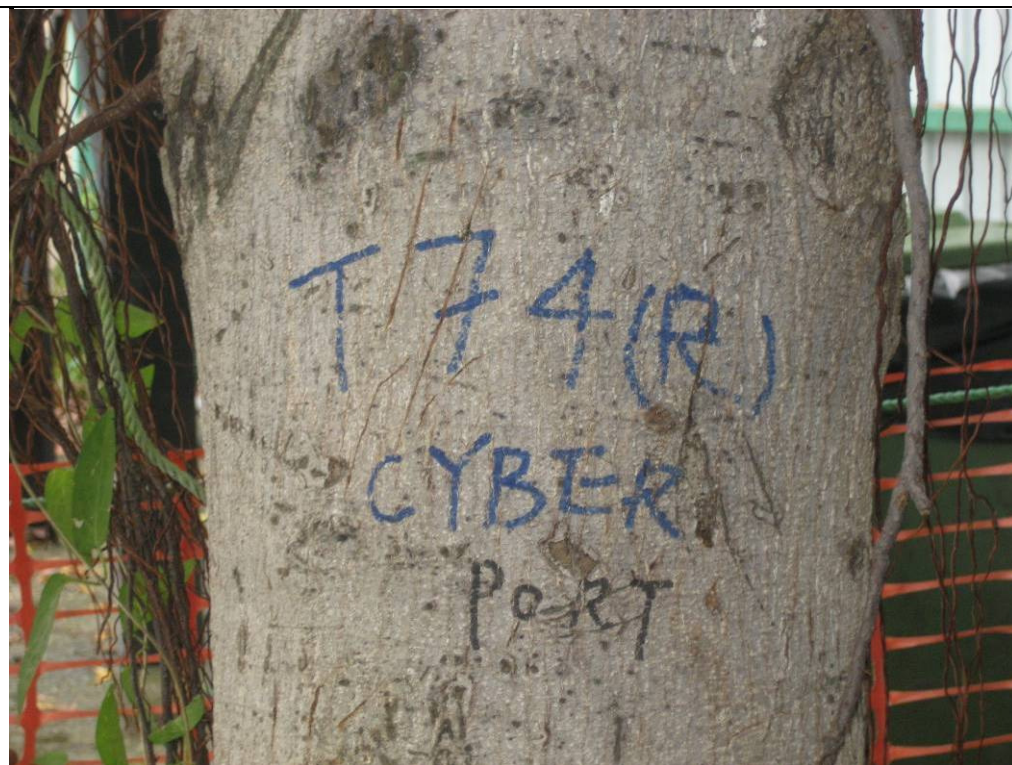
Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
		<p>leaves were dying and nearby trees T078(R) and T080(R) were also showing the same condition (Photo 9).</p> <p>Tree protect zone for the retained tree T078(R), T079(R) and T080(R) was damaged (Photo 10).</p> <p>A tree near the entrance (Photo 8), retained tree T078(R) (Photo 11) and two trees at the end of the workshop area (Photo 15 and 16) were still observed without proper identification tag.</p> <p>Construction materials were still observed stored close to the roots of the retained tree T081(R) (Photo 12) since February 2012.</p> <p>The retained tree</p>					<p>The Contractor was also advised to remove all construction materials stored close to the root areas of retained tree T081(R) immediately.</p> <p>The Contractor was advised to consult their tree consultant to check the identification of all untagged trees at the Aberdeen workshop site and provide the tree identification tags accordingly.</p> <p>The Contractor was reminded to arrange their landscape sub-contractor to inspect the condition of the retained tree T083(R) and prepare a tree observation form.</p>

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
		T083(R) was observed to be in a very poor health condition. Large wound was observed on the main trunk (Photo 13) and all leaves were observed dried (Photo 14).					



Cyberport site --- Photo 1

The retained tree T065(R) was observed being untagged. Also a metal bar was observed tied on the tree branch



Cyberport site --- Photo 2

The retained tree T074(R) was observed not being properly tagged. Marking was also observed on the tree trunk.



Sandy Bay site --- Photo 3

The tree protection zone for retained tree T038(R) was observed insufficient. Also the tree identification tag was still observed missing for the retained tree T038(R).



Sandy Bay site --- Photo 4

Root flare of retained tree T039(R) was observed in very poor condition.



Sandy Bay site --- Photo 5

Construction materials were found stored close to the roots of the retained tree T047(R).



Sandy Bay site --- Photo 6

The retained tree T058(R) was observed not being properly tagged. Marking was also observed on the tree trunk.



Sandy Bay site --- Photo 7

The retained tree T21(R) was observed not being properly tagged. Marking was also observed on the tree trunk.



Aberdeen site --- Photo 8

A tree near the entrance was observed without proper identification tag.



Aberdeen site --- Photo 9

The retained Tree T080(R) was observed to be in a very poor health condition.



Aberdeen site --- Photo 10

Tree protect zone for the retained tree T078(R), T079(R) and T080(R) was damaged.



Aberdeen site --- Photo 11

The retained tree T078(R) was observed being untagged.



Aberdeen site --- Photo 12

Construction materials were still observed stored close to the roots of the retained tree T081(R).



Aberdeen site --- Photo 13
Retained tree T083(R) was observed to be in a very poor health condition.



Aberdeen site --- Photo 14
Retained tree T083(R) was observed to be in a very poor health condition.



Aberdeen site --- Photo 15

A tree at the end of the storage area was observed without proper identification tag.

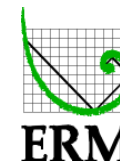


Aberdeen site --- Photo 16

A tree at the end of the storage area was observed without proper identification tag.

(Name: Christina Ip,
Registered Landscape Architect)

Harbour Area Treatment Scheme (HATS) Stage 2A
 Contract No. DC/2007/24
 Construction of Sewage Conveyance from Aberdeen to Sai Ying Pun
 Landscape & Visual Monitoring Report



Reporting Period : 1 June to 30 June 2012

Site Inspection Date : 26 June 2012

Inspected By : Andrew Fung

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
Sai Ying Pun	No major excavation works were conducted. No stockpile of excavated soil was observed.	Not Applicable - No tree was identified at the Sai Ying Pun Area	Not Applicable - No tree was identified at the Sai Ying Pun Area	Not applicable - No tree was identified at the Sai Ying Pun Area	Night-time lighting was used for 24 hours a day from 1 to 30 June 2012 except 23 June 2012.	Decorative screen hoarding were erected and is compatible to the surrounding setting.	Not required
Sandy Bay	No major excavation works were conducted. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected. The retained trees T038(R) and T053(R) were exhibited deterioration and damage to the branches and had dried leaves falling-off from the affected areas	No tree was transplanted during this reporting month.	Not applicable - Compensatory tree planting has not started yet.	Night-time lighting was used for 24 hours a day from 1 to 30 June 2012 except 23 June 2012.	Decorative screen hoarding were erected and is compatible to the surrounding setting.	The Contractor was reminded to schedule trimming on the affected trees and to take necessary mitigation measures to improve the overall health condition of all retained and transplanted trees in the site. The Contractor was reminded to provide a proper tree protection zone for the trees.

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
		<p>since the audits undertaken in September and November 2011. Also transplanted tree T017 (T) and retained tree T214(R) were in a very poor health condition.</p> <p>The tree protection zone for retained tree T038(R) was observed insufficient (Photo 3).</p> <p>Construction waste was observed inside the tree protection zone of retained tree T052(R) (Photo 4).</p> <p>It was observed that construction material and cable were hanging of the tree branches of retained tree T021(R) (Photo 6).</p> <p>It was also observed that no proper tree tag identification was provided for T038(R),</p>					<p>The Contractor was reminded to remove the Construction waste which is inside the tree protection zone.</p> <p>The Contractor was reminded to remove construction material and cable hanging on the tree branches.</p> <p>The Contractor was reminded to provide proper tree identification tag for the retained trees.</p>

Site	CM1	CM2	CM3	CM4	CM5	CM6	Recommendations
	Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	Existing trees to be retained on site should be carefully protected during construction	Trees unavoidably affected by the works should be transplanted where practical.	Compensatory tree planting should be provided to compensate for felled trees.	Control of night-time lighting.	Erection of decorative screen hoarding compatible with the surrounding setting.	
		T058(R), T021(R) and T214 (R) (Photo 3, 5 and 6).					
Cyberport	No major excavation works were conducted. No stockpile of excavated soil was observed.	The retained tree T065(R) was still observed being untagged (Photo 1). Also a metal bar was observed tied on the tree branch. The retained tree T074(R) was still observed not being properly tagged and marking was also observed on the tree trunk (Photo 2).	No tree was transplanted during this reporting month.	Not applicable - Compensatory tree planting has not started yet.	Night-time lighting was used for 24 hours a day from 1 to 30 June 2012 except 23 June 2012.	Noise enclosure was erected over the shaft. A yellow tone was used for the materials of the noise enclosure, similar to the colour of the existing STW façade.	The Contractor was reminded again to provide proper tree identification tag for the retained tree and was reminded to remove the metal bar. The Contractor was reminded again to provide proper tree identification tag to the retained tree and was reminded not to make any marking on the tree surfaces.
Wah Fu	No major excavation works were conducted. No stockpile of excavated soil was observed.	Not Applicable - No existing trees were identified to be affected within the works area.	Not Applicable - No existing trees were identified to be affected within the works area.	Not applicable - No existing trees were identified to be affected within the works area.	Not applicable - No night-time lighting was used.	Screening was erected and was compatible to the surrounding setting.	Not required
Aberdeen	No major excavation works were conducted. No stockpile of excavated	Existing trees have been retained on site, fenced off and protected properly.	All tree transplantation works have been completed and all transplanted	Not applicable - Compensatory tree planting has not started	Night-time lighting was used until 23:00 hours on 27 and 30 June 2012.	Screen hoarding was erected and the grey colour is compatible to the surrounding	The Contractor was reminded to take appropriate actions such as regularly watering and trimming of all retained

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
	soil was observed.	<p>The retained tree T076(R) was in a very poor health condition. The condition of the retained trees T079(R) is still deteriorating and some stems and leaves were dying and nearby trees T078(R) and T080(R) were also showing the same condition (Photo 8).</p> <p>Tree protect zone for the retained tree T076(R) and T077(R) was damaged (Photo 9).</p> <p>A tree near the entrance (Photo 7), retained tree T078(R) and two trees at the end of the workshop area (Photos 12) were still observed without proper identification tag.</p> <p>The retained tree</p>	trees are properly supported by tripod.	yet.		setting.	<p>trees to improve and restore the health condition of the affected trees.</p> <p>The Contractor was reminded to repair the tree protection zones.</p> <p>The Contractor was reminded to provide proper tree identification tag for the retained trees.</p> <p>The Contractor was reminded to arrange their landscape sub-contractor to inspection the condition of the tree and prepare a tree observation form.</p> <p>The Contractor was reminded to remove the construction material immediately.</p>

Site	CM1 Topsoil identified stripped and stored for re-use in the construction of soft landscape works, where practical	CM2 Existing trees to be retained on site should be carefully protected during construction	CM3 Trees unavoidably affected by the works should be transplanted where practical.	CM4 Compensatory tree planting should be provided to compensate for felled trees.	CM5 Control of night-time lighting.	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Recommendations
		<p>T083(R) was observed to be in a very poor health condition. Large wound was observed on the main trunk and all leaves were observed dead (Photo 10).</p> <p>Construction materials were still observed stored close to the roots of the retained tree T003(T) (Photo 11) since February 2012.</p>					



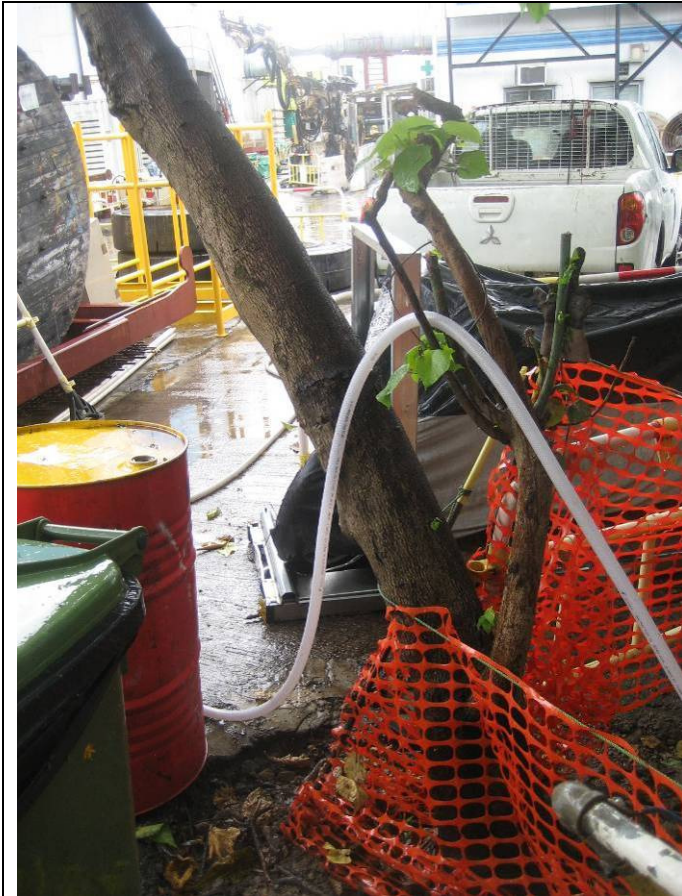
Cyberport site --- Photo 1

The retained tree T065(R) was still observed being untagged. Also a metal bar was still observed tied on the tree branch



Cyberport site --- Photo 2

The retained tree T074(R) was still observed not being properly tagged. Marking was also observed on the tree trunk.



Sandy Bay site --- Photo 3

The tree protection zone for retained tree T038(R) was observed insufficient. The fencing was in contact with the tree trunk and part of the root was observed outside the tree protection zone. Also the tree identification tag was still observed missing for the retained tree T038(R).



Sandy Bay site --- Photo 4

Construction waste was observed inside the tree protection zone of T052(R).



Sandy Bay site --- Photo 5

The retained tree T058(R) was observed not being properly tagged. Marking was also observed on the tree trunk.



Sandy Bay site --- Photo 6

The retained tree T021(R) was observed not being properly tagged. Construction material and cable was observed hanging on the tree branches.



Sandy Bay site --- Photo 7

A tree near the entrance was observed without proper identification tag.

Aberdeen site --- Photo 8

The retained Tree T076(R) was observed to be in a very poor health condition.



Aberdeen site --- Photo 9
Tree protect zone for the retained tree T076(R) and T077(R) was damaged.



Aberdeen site --- Photo 10
The retained tress T083 was observed in very poor health.



Aberdeen site --- Photo 11
 Construction material was observed stored very close to the retained tree T003(T).



Aberdeen site --- Photo 12
 A tree at the end of the workshop area was still observed without proper identification tag

(Name: Christina Ip,
 Registered Landscape Architect)

APPENDIX H

ENVIRONMENTAL COMPLAINT/NOTIFICATION OF EXCEEDANCE

Contract No. DC/2007/24			
Harbour Area Treatment Scheme Stage 2A			
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun			
Notification of Environmental Quality Limit Exceedance			Notification No.: 128
Date of Notification: 19 April 2012			
Works Inspected: Data collected from evening-time (between 19:00-23:00 hrs) noise monitoring on 3 rd April 2012			
Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong			
Parameter: Noise - $L_{eq(5 \text{ min})}$			
Action & Limit Levels			Measured Noise Level *
Time Period	Action Level	Limit Level	Time : 22:45 – 23:00 hrs on 3 rd April 2012
19:00–23:00 hrs Normal weekday	1 complaint	60 dB(A)	$L_{eq(5 \text{ min})}$ reading
			1 st 2 nd 3 rd
			63.0 dB(A) 65.0 dB(A) 61.8 dB(A)
* façade measurement			
Possible Reason for Action or Limit Level Non-compliance:			
An exceedance in Limit Level was recorded during evening time noise monitoring at M5a on 3 rd April 2012.			
From the Contractor's record, powered mechanical equipment (PME) used in the Sandy Bay works site during noise monitoring period included only powered mechanical equipment as listed in Construction Noise Permit (CNP) No. GW-RS0138-12.			
A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 6 th November 2010 from 22:39 to 22:54 hrs. All PME listed under the CNP No. GW-RS0940-10 was ensured to shut down during the measurement. The average 5-min baseline noise level was found to be 60.6dB (A), which already exceeded the Limit Level of 60dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the evening-time BGL at M5a (roof of Chuk Lam Ming Tong) ranged from 56.2dB(A) to 63.6dB(A).			
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise source was road traffic noise at San Wan Drive.			
Actions taken/ to be taken:			
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.			

Inspected by : Ruby Law

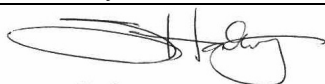
Title : Environmental Technician



Date : 19th April 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 19th April 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24											
Harbour Area Treatment Scheme Stage 2A											
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun											
Notification of Environmental Quality Limit Exceedance			Notification No.: 129								
Date of Notification: 19 April 2012											
Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 3 rd April 2012											
Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong											
Parameter: Noise - $L_{eq(5 \text{ min})}$											
Action & Limit Levels			Measured Noise Level *								
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 3 rd April 2012								
23:00–07:00 hrs Normal weekday	1 complaint	45 dB(A)	<table border="1"> <tr> <td>$L_{eq(5 \text{ min})}$ reading</td> <td>1st</td> <td>2nd</td> <td>3rd</td> </tr> <tr> <td></td> <td>54.0 dB(A)</td> <td>59.6 dB(A)</td> <td>62.5 dB(A)</td> </tr> </table>	$L_{eq(5 \text{ min})}$ reading	1 st	2 nd	3 rd		54.0 dB(A)	59.6 dB(A)	62.5 dB(A)
$L_{eq(5 \text{ min})}$ reading	1 st	2 nd	3 rd								
	54.0 dB(A)	59.6 dB(A)	62.5 dB(A)								
* façade measurement											
Possible Reason for Action or Limit Level Non-compliance:											
An exceedance in Limit Level was recorded during night-time noise monitoring at M5a on 3 rd April 2012.											
From the Contractor's record, powered mechanical equipment (PME) used in the Sandy Bay works site during noise monitoring period included only powered mechanical equipment as listed in Construction Noise Permit (CNP) No. GW-RS0138-12.											
A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 6 th November 2010 from 23:00 to 23:15 hrs. All PME listed under the CNP No. GW-RS0940-10 was ensured to shut down during the measurement. The average 5-min baseline noise level was found to be 60.5dB (A), which already exceeded the Limit Level of 45dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the night-time BGL at M5a (roof of Chuk Lam Ming Tong) ranged from 54.4dB(A) to 70.2dB(A).											
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise source was road traffic noise at San Wan Drive.											
Actions taken/ to be taken:											
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.											

Inspected by : Ruby Law

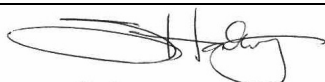
Title : Environmental Technician



Date : 19th April 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 19th April 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24			
Harbour Area Treatment Scheme Stage 2A			
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun			
Notification of Environmental Quality Limit Exceedance			Notification No.: 130
Date of Notification: 19 th April 2012			
Works Inspected: Data collected from normal weekday night time (between 23:00-07:00 hrs of next day) noise monitoring on 11 th April 2012			
Noise Monitoring Location: M3 — Kwan Yick Building Phase III			
Parameter: Noise - $L_{eq(5 \text{ min})}$			
Action & Limit Levels			Measured Noise Level *
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 11 th April 2012
23:00–07:00 hrs Normal weekday	1 complaint	55dB(A)	$L_{eq(5 \text{ min})}$ reading
			1 st 2 nd 3 rd
			65.0 dB(A) 64.0 dB(A) 65.9 dB(A)
* façade measurement			
Possible Reason for Action or Limit Level Non-compliance:			
An exceedance in Limit Level was recorded during nighttime noise monitoring at M3 on 11 th April 2012.			
From the Contractor's record, powered mechanical equipment (PME) used in the Fung Mat Road works site during noise monitoring period included hydraulic extractor, bentonite filtering plant and generator as listed in Construction Noise Permit (CNP) No. GW-RS0241-12.			
A background noise level (BGL) monitoring was conducted on 2 nd July 2010 from 23:02 – 23:17 hrs, as requested by EPD. All PME listed under the CNP No. GW-RS0435-10 was shut down during the BGL measurement. The 5-min BGL was found to be 66.6dB (A), which already exceeded the Limit Level of 55dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the nighttime BGL at M3 (Kwan Yick Building Phase III) ranged from 57.2dB(A) to 70.3dB(A).			
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources including road traffic noise from Western Harbour Crossing and engine noise of turbojet.			
Actions taken/ to be taken:			
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.			

Inspected by : Ruby Law


Title : Environmental Technician



Date : 20th April 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 20th April 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24 Harbour Area Treatment Scheme Stage 2A Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun Notification of Environmental Quality Limit Exceedance				Notification No.: 131		
Date of Notification: 19 th April 2012						
Works Inspected: Data collected from daytime and evening time during general holiday (between 07:00-23:00 hrs) noise monitoring on 15 th April 2012						
Noise Monitoring Location: M5a — near entrance of Chuk Lam Ming Tong						
Parameter: Noise - $L_{eq(5\text{ min})}$						
Action & Limit Levels			Measured Noise Level *			
Time Period	Action Level	Limit Level	Time :	11:15 – 11:30 hrs on 15 th April 2012		
07:00–23:00 hrs	1 complaint	60 dB(A)	$L_{eq(5\text{ min})}$ reading	1 st	2 nd	3 rd
				64.3 dB(A)	68.2 dB(A)	63.7 dB(A)
Possible Reason for Action or Limit Level Non-compliance: <p>An exceedance in Limit Level was recorded during daytime and evening during general holiday noise monitoring at M5a on 15th April 2012.</p> <p>From the Contractor's record, powered mechanical equipment (PME) used in the Sandy Bay works site during noise monitoring period included only powered mechanical equipment as listed in Construction Noise Permit (CNP) No. GW-RS0138-12.</p> <p>A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 7th November 2010 from 16:19 to 16:34 hrs. All PME listed under the CNP No. GW-RS0133-11 was ensured to shut down during the measurement. The average 5-min baseline noise level was found to be 65.9dB (A), which already exceeded the Limit Level of 60dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the daytime and evening time during general holiday BGL at M5a (roof of Chuk Lam Ming Tong) ranged from 55.1dB (A) to 75.2dB(A).</p> <p>Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise source was road traffic noise at San Wan Drive and ball games competition in near playground.</p>						
Actions taken/ to be taken: <p>As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.</p>						

Inspected by : Ruby Law

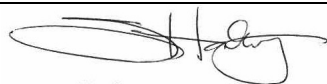
Title : Environmental Technician



Date : 20th April 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 20th April 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24											
Harbour Area Treatment Scheme Stage 2A											
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun											
Notification of Environmental Quality Limit Exceedance			Notification No.: 132								
Date of Notification: 19 April 2012											
Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 18 th April 2012											
Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong											
Parameter: Noise - $L_{eq(5\text{ min})}$											
Action & Limit Levels			Measured Noise Level *								
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 18 th April 2012								
23:00–07:00 hrs Normal weekday	1 complaint	45 dB(A)	<table border="1"> <tr> <td>$L_{eq(5\text{ min})}$ reading</td> <td>1st</td> <td>2nd</td> <td>3rd</td> </tr> <tr> <td></td> <td>60.5 dB(A)</td> <td>63.0 dB(A)</td> <td>61.9 dB(A)</td> </tr> </table>	$L_{eq(5\text{ min})}$ reading	1 st	2 nd	3 rd		60.5 dB(A)	63.0 dB(A)	61.9 dB(A)
$L_{eq(5\text{ min})}$ reading	1 st	2 nd	3 rd								
	60.5 dB(A)	63.0 dB(A)	61.9 dB(A)								
* façade measurement											
Possible Reason for Action or Limit Level Non-compliance:											
An exceedance in Limit Level was recorded during night-time noise monitoring at M5a on 18 th April 2012.											
From the Contractor's record, powered mechanical equipment (PME) used in the Sandy Bay works site during noise monitoring period included only powered mechanical equipment as listed in Construction Noise Permit (CNP) No. GW-RS0138-12.											
A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 6 th November 2010 from 23:00 to 23:15 hrs. All PME listed under the CNP No. GW-RS0940-10 was ensured to shut down during the measurement. The average 5-min baseline noise level was found to be 60.5dB (A), which already exceeded the Limit Level of 45dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the night-time BGL at M5a (roof of Chuk Lam Ming Tong) ranged from 54.4dB(A) to 70.2dB(A).											
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources were road traffic noise at San Wan Drive.											
Actions taken/ to be taken:											
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.											

Inspected by : Ruby Law

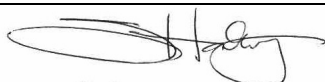
Title : Environmental Technician



Date : 20th April 2012

Reviewed and approved by : Susana Halliday


Title : Environmental Team Leader



Date : 20th April 2012


Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24			
Harbour Area Treatment Scheme Stage 2A			
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun			
Notification of Environmental Quality Limit Exceedance			Notification No.: 133
Date of Notification: 2 nd May 2012			
Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 26 th April 2012			
Noise Monitoring Location: M6a — Aegean Terrace			
Parameter: Noise - $L_{eq(5 \text{ min})}$			
Action & Limit Levels			Measured Noise Level *
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 26 th April 2012
23:00–07:00 hrs Normal weekday	1 complaint	50 dB(A)	$L_{eq(5 \text{ min})}$ reading
			1 st 2 nd 3 rd
			58.5 dB(A) 61.5 dB(A) 59.7 dB(A)
* Free-field measurement, +3dB correction			
Possible Reason for Action or Limit Level Non-compliance:			
An exceedance in Limit Level was recorded during night-time noise monitoring at M6a on 26 th April 2012.			
From the Contractor's record, powered mechanical equipment (PME) used in the Cyberport PTW works site during noise monitoring period included powered mechanical equipments as listed in Construction Noise Permit (CNP) No. GW-RS0149-12.			
According to the Project Baseline Environmental Monitoring Report (Doc No. GEN/026), the average 5-min baseline noise level was found to be 50.8 dB(A), which already exceeded the Limit Level of 50 dB(A) set out in the Project EM&A Manual. It is also noted that the night-time BGL at M6a ranged from 41.6 dB(A) to 67.0 dB(A).			
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources were the local traffics of Aegean Terence.			
Actions taken/ to be taken:			
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.			

Inspected by : Ruby Law


Title : Environmental Technician

Date : 2nd May 2012

Reviewed and approved by : Susana Halliday


Title : Environmental Team Leader

Date : 2nd May 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24											
Harbour Area Treatment Scheme Stage 2A											
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun											
Notification of Environmental Quality Limit Exceedance			Notification No.: 136								
Date of Notification: 21 st May 2012											
Works Inspected: Data collected from normal weekday night time (between 23:00-07:00 hrs of next day) noise monitoring on 3 rd May 2012											
Noise Monitoring Location: M3 — Kwan Yick Building Phase III											
Parameter: Noise - $L_{eq(5 \text{ min})}$											
Action & Limit Levels			Measured Noise Level *								
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 3 rd May 2012								
23:00–07:00 hrs Normal weekday	1 complaint	55dB(A)	<table border="1"> <tr> <td>$L_{eq(5 \text{ min})}$ reading</td> <td>1st</td> <td>2nd</td> <td>3rd</td> </tr> <tr> <td></td> <td>65.6 dB(A)</td> <td>65.8 dB(A)</td> <td>65.3 dB(A)</td> </tr> </table>	$L_{eq(5 \text{ min})}$ reading	1 st	2 nd	3 rd		65.6 dB(A)	65.8 dB(A)	65.3 dB(A)
$L_{eq(5 \text{ min})}$ reading	1 st	2 nd	3 rd								
	65.6 dB(A)	65.8 dB(A)	65.3 dB(A)								
* façade measurement											
Possible Reason for Action or Limit Level Non-compliance:											
An exceedance in Limit Level was recorded during nighttime noise monitoring at M3 on 3 rd May 2012.											
From the Contractor's record, powered mechanical equipment (PME) used in the Fung Mat Road works site during noise monitoring period included hydraulic extractor, bentonite filtering plant and generator as listed in Construction Noise Permit (CNP) No. GW-RS0241-12.											
A background noise level (BGL) monitoring was conducted on 2 nd July 2010 from 23:02 – 23:17 hrs, as requested by EPD. All PME listed under the CNP No. GW-RS0435-10 was shut down during the BGL measurement. The 5-min BGL was found to be 66.6dB (A), which already exceeded the Limit Level of 55dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the nighttime BGL at M3 (Kwan Yick Building Phase III) ranged from 57.2dB(A) to 70.3dB(A).											
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources including road traffic noise from Western Harbour Crossing and engine noise of turbojet.											
Actions taken/ to be taken:											
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.											

Inspected by : Ruby Law


Title : Environmental Technician



Date : 21st May 2012

Reviewed and approved by : Susana Halliday


Title : Environmental Team Leader




Date : 21st May 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24			
Harbour Area Treatment Scheme Stage 2A			
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun			
Notification of Environmental Quality Limit Exceedance			Notification No.: 134
Date of Notification: 10 th May 2012			
Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 8 th May 2012			
Noise Monitoring Location: M6a — Aegean Terrace			
Parameter: Noise - $L_{eq(5\text{ min})}$			
Action & Limit Levels			Measured Noise Level *
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 8 th May 2012
23:00–07:00 hrs Normal weekday	1 complaint	50 dB(A)	$L_{eq(5\text{ min})}$ reading
			1 st 2 nd 3 rd
			56.0 dB(A) 57.0 dB(A) 52.0 dB(A)
* Free-field measurement, +3dB correction			
Possible Reason for Action or Limit Level Non-compliance:			
An exceedance in Limit Level was recorded during night-time noise monitoring at M6a on 8 th May 2012.			
From the Contractor's record, powered mechanical equipment (PME) used in the Cyberport PTW works site during noise monitoring period included powered mechanical equipments as listed in Construction Noise Permit (CNP) No. GW-RS0268-12.			
According to the Project Baseline Environmental Monitoring Report (Doc No. GEN/026), the average 5-min baseline noise level was found to be 50.8 dB(A), which already exceeded the Limit Level of 50 dB(A) set out in the Project EM&A Manual. It is also noted that the night-time BGL at M6a ranged from 41.6 dB(A) to 67.0 dB(A).			
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources were the local traffics of Aegean Terence.			
Actions taken/ to be taken:			
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.			

Inspected by : Ruby Law


Title : Environmental Technician
 Date : 10th May 2012

Reviewed and approved by : Susana Halliday


Title : Environmental Team Leader
 Date : 10th May 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24 Harbour Area Treatment Scheme Stage 2A Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun Notification of Environmental Quality Limit Exceedance				Notification No.: 135		
Date of Notification: 17 th May 2012						
Works Inspected: Data collected from daytime and evening time during general holiday (between 07:00-23:00 hrs) noise monitoring on 13 th May 2012						
Noise Monitoring Location: M5a — near entrance of Chuk Lam Ming Tong						
Parameter: Noise - $L_{eq(5\text{ min})}$						
Action & Limit Levels			Measured Noise Level *			
Time Period	Action Level	Limit Level	Time :	15:49 – 16:04 hrs on 13 th May 2012		
07:00–23:00 hrs	1 complaint	60 dB(A)	$L_{eq(5\text{ min})}$ reading	1 st	2 nd	3 rd
				63.3 dB(A)	65.9 dB(A)	66.6 dB(A)
Possible Reason for Action or Limit Level Non-compliance: <p>An exceedance in Limit Level was recorded during daytime and evening during general holiday noise monitoring at M5a on 13th May 2012.</p> <p>From the Contractor's record, powered mechanical equipment (PME) used in the Sandy Bay works site during noise monitoring period included only powered mechanical equipment as listed in Construction Noise Permit (CNP) No. GW-RS0138-12.</p> <p>A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 7th November 2010 (Sunday) from 16:19 to 16:34 hrs. All PME listed under the CNP No. GW-RS0133-11 was ensured to shut down during the measurement. The average 5-min baseline noise level was found to be 65.9dB (A), which already exceeded the Limit Level of 60dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the daytime and evening time during general holiday BGL at M5a (roof of Chuk Lam Ming Tong) ranged from 55.1dB (A) to 75.2dB(A).</p> <p>Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources were road traffic noise at San Wan Drive and ball games competition in near playground.</p>						
Actions taken/ to be taken: <p>As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.</p>						

Inspected by : Ruby Law

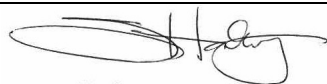
Title : Environmental Technician



Date : 17th May 2012

Reviewed and approved by : Susana Halliday


Title : Environmental Team Leader



Date : 17th May 2012


Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24 Harbour Area Treatment Scheme Stage 2A Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun Notification of Environmental Quality Limit Exceedance				Notification No.: 137	
Date of Notification: 21 May 2012					
Works Inspected: Data collected from evening-time (between 19:00-23:00 hrs) noise monitoring on 17 th May 2012					
Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong					
Parameter: Noise - $L_{eq(5 \text{ min})}$					
Action & Limit Levels			Measured Noise Level *		
Time Period	Action Level	Limit Level	Time :	22:45 – 23:00 hrs on 17 th May 2012	
19:00–23:00 hrs Normal weekday	1 complaint	60 dB(A)	$L_{eq(5 \text{ min})}$ reading	1 st	2 nd
				62.6 dB(A)	61.0 dB(A)
* façade measurement					
Possible Reason for Action or Limit Level Non-compliance: An exceedance in Limit Level was recorded during evening time noise monitoring at M5a on 17 th May 2012. From the Contractor's record, powered mechanical equipment (PME) used in the Sandy Bay works site during noise monitoring period included only powered mechanical equipment as listed in Construction Noise Permit (CNP) No. GW-RS0138-12. A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 6 th November 2010 from 22:39 to 22:54 hrs. All PME listed under the CNP No. GW-RS0940-10 was ensured to shut down during the measurement. The average 5-min baseline noise level was found to be 60.6dB (A), which already exceeded the Limit Level of 60dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the evening-time BGL at M5a (roof of Chuk Lam Ming Tong) ranged from 56.2dB(A) to 63.6dB(A). Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise source was road traffic noise at San Wan Drive.					
Actions taken/ to be taken: As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.					

Inspected by : Ruby Law


Title : Environmental Technician

Date : 21st May 2012

Reviewed and approved by : Susana Halliday


Title : Environmental Team Leader

Date : 21st May 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24											
Harbour Area Treatment Scheme Stage 2A											
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun											
Notification of Environmental Quality Limit Exceedance			Notification No.: 138								
Date of Notification: 21 May 2012											
Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 17 th May 2012											
Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong											
Parameter: Noise - $L_{eq(5 \text{ min})}$											
Action & Limit Levels			Measured Noise Level *								
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 17 th May 2012								
23:00–07:00 hrs Normal weekday	1 complaint	45 dB(A)	<table border="1"> <tr> <td>$L_{eq(5 \text{ min})}$ reading</td> <td>1st</td> <td>2nd</td> <td>3rd</td> </tr> <tr> <td></td> <td>62.0 dB(A)</td> <td>57.0 dB(A)</td> <td>63.5 dB(A)</td> </tr> </table>	$L_{eq(5 \text{ min})}$ reading	1 st	2 nd	3 rd		62.0 dB(A)	57.0 dB(A)	63.5 dB(A)
$L_{eq(5 \text{ min})}$ reading	1 st	2 nd	3 rd								
	62.0 dB(A)	57.0 dB(A)	63.5 dB(A)								
* façade measurement											
Possible Reason for Action or Limit Level Non-compliance:											
An exceedance in Limit Level was recorded during night-time noise monitoring at M5a on 17 th May 2012.											
From the Contractor's record, powered mechanical equipment (PME) used in the Sandy Bay works site during noise monitoring period included only powered mechanical equipment as listed in Construction Noise Permit (CNP) No. GW-RS0138-12.											
A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 6 th November 2010 from 23:00 to 23:15 hrs. All PME listed under the CNP No. GW-RS0940-10 was ensured to shut down during the measurement. The average 5-min baseline noise level was found to be 60.5dB (A), which already exceeded the Limit Level of 45dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the night-time BGL at M5a (roof of Chuk Lam Ming Tong) ranged from 54.4dB(A) to 70.2dB(A).											
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources were road traffic noise at San Wan Drive.											
Actions taken/ to be taken:											
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.											

Inspected by : Ruby Law

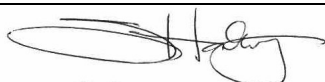
Title : Environmental Technician



Date : 21st May 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 21st May 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24			
Harbour Area Treatment Scheme Stage 2A			
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun			
Notification of Environmental Quality Limit Exceedance			Notification No.: 139
Date of Notification: 25 th May 2012			
Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 24 th May 2012			
Noise Monitoring Location: M6a — Aegean Terrace			
Parameter: Noise - $L_{eq(5 \text{ min})}$			
Action & Limit Levels			Measured Noise Level *
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 24 th April 2012
23:00–07:00 hrs Normal weekday	1 complaint	50 dB(A)	$L_{eq(5 \text{ min})}$ reading
			1 st 2 nd 3 rd
			58.3 dB(A) 56.5 dB(A) 56.0 dB(A)
* Free-field measurement, +3dB correction			
Possible Reason for Action or Limit Level Non-compliance:			
An exceedance in Limit Level was recorded during night-time noise monitoring at M6a on 24 th May 2012.			
From the Contractor's record, powered mechanical equipment (PME) used in the Cyberport PTW works site during noise monitoring period included powered mechanical equipments as listed in Construction Noise Permit (CNP) No. GW-RS0268-12.			
According to the Project Baseline Environmental Monitoring Report (Doc No. GEN/026), the average 5-min baseline noise level was found to be 50.8 dB(A), which already exceeded the Limit Level of 50 dB(A) set out in the Project EM&A Manual. It is also noted that the night-time BGL at M6a ranged from 41.6 dB(A) to 67.0 dB(A).			
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources were the local traffics of Aegean Terence.			
Actions taken/ to be taken:			
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.			

Inspected by : Ruby Law


Title : Environmental Technician



Date : 25th May 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 25th May 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24											
Harbour Area Treatment Scheme Stage 2A											
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun											
Notification of Environmental Quality Limit Exceedance			Notification No.: 140								
Date of Notification: 31 st May 2012											
Works Inspected: Data collected from normal weekday night time (between 23:00-07:00 hrs of next day) noise monitoring on 30 th May 2012											
Noise Monitoring Location: M3 — Kwan Yick Building Phase III											
Parameter: Noise - $L_{eq(5\text{ min})}$											
Action & Limit Levels			Measured Noise Level *								
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 30 th May 2012								
23:00–07:00 hrs Normal weekday	1 complaint	55dB(A)	<table border="1"> <tr> <td>$L_{eq(5\text{ min})}$ reading</td> <td>1st</td> <td>2nd</td> <td>3rd</td> </tr> <tr> <td></td> <td>64.4 dB(A)</td> <td>65.0 dB(A)</td> <td>65.3 dB(A)</td> </tr> </table>	$L_{eq(5\text{ min})}$ reading	1 st	2 nd	3 rd		64.4 dB(A)	65.0 dB(A)	65.3 dB(A)
$L_{eq(5\text{ min})}$ reading	1 st	2 nd	3 rd								
	64.4 dB(A)	65.0 dB(A)	65.3 dB(A)								
* façade measurement											
Possible Reason for Action or Limit Level Non-compliance:											
An exceedance in Limit Level was recorded during nighttime noise monitoring at M3 on 30 th May 2012.											
From the Contractor's record, powered mechanical equipment (PME) used in the Fung Mat Road works site during noise monitoring period included hydraulic extractor, bentonite filtering plant and generator as listed in Construction Noise Permit (CNP) No. GW-RS0241-12.											
A background noise level (BGL) monitoring was conducted on 2 nd July 2010 from 23:02 – 23:17 hrs, as requested by EPD. All PME listed under the CNP No. GW-RS0435-10 was shut down during the BGL measurement. The 5-min BGL was found to be 66.6dB (A), which already exceeded the Limit Level of 55dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the nighttime BGL at M3 (Kwan Yick Building Phase III) ranged from 57.2dB(A) to 70.3dB(A).											
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources including road traffic noise from Western Harbour Crossing and engine noise of turbojet.											
Actions taken/ to be taken:											
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.											

Inspected by : Ruby Law


Title : Environmental Technician



Date : 31st May 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 31st May 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24			
Harbour Area Treatment Scheme Stage 2A			
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun			
Notification of Environmental Quality Limit Exceedance			Notification No.: 141
Date of Notification: 11 June 2012			
Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 6 th June 2012			
Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong			
Parameter: Noise - $L_{eq(5 \text{ min})}$			
Action & Limit Levels			Measured Noise Level *
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 6 th June 2012
23:00–07:00 hrs Normal weekday	1 complaint	45 dB(A)	$L_{eq(5 \text{ min})}$ reading
			1 st 2 nd 3 rd
			67.0 dB(A) 54.0 dB(A) 55.0 dB(A)
* façade measurement			
Possible Reason for Action or Limit Level Non-compliance:			
An exceedance in Limit Level was recorded during night-time noise monitoring at M5a on 6 th June 2012.			
From the Contractor's record, powered mechanical equipment (PME) used in the Sandy Bay works site during noise monitoring period included only powered mechanical equipment as listed in Construction Noise Permit (CNP) No. GW-RS0513-12.			
A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 6 th November 2010 from 23:00 to 23:15 hrs. All PME listed under the CNP No. GW-RS0940-10 was ensured to shut down during the measurement. The average 5-min baseline noise level was found to be 60.5dB (A), which already exceeded the Limit Level of 45dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the night-time BGL at M5a (roof of Chuk Lam Ming Tong) ranged from 54.4dB(A) to 70.2dB(A).			
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources were road traffic noise at San Wan Drive.			
Actions taken/ to be taken:			
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.			

Inspected by : Ruby Law

Title : Environmental Technician



Date : 11th June 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 11th June 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24			
Harbour Area Treatment Scheme Stage 2A			
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun			
Notification of Environmental Quality Limit Exceedance			Notification No.: 142
Date of Notification: 13 th June 2012			
Works Inspected: Data collected from daytime and evening time during general holiday (between 07:00-23:00 hrs) noise monitoring on 10 th June 2012			
Noise Monitoring Location: M5a — near entrance of Chuk Lam Ming Tong			
Parameter: Noise - $L_{eq(5\text{ min})}$			
Action & Limit Levels			Measured Noise Level *
Time Period	Action Level	Limit Level	Time :
07:00–23:00 hrs	1 complaint	60 dB(A)	15:49 – 16:04 hrs on 10 th June 2012
			1 st
			2 nd
			3 rd
			61.7 dB(A)
			64.6 dB(A)
			66.6 dB(A)
Possible Reason for Action or Limit Level Non-compliance:			
An exceedance in Limit Level was recorded during daytime and evening during general holiday noise monitoring at M5a on 10 th June 2012.			
From the Contractor's record, powered mechanical equipment (PME) used in the Sandy Bay works site during noise monitoring period included only powered mechanical equipment as listed in Construction Noise Permit (CNP) No. GW-RS0513-12.			
A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 7 th November 2010 (Sunday) from 16:19 to 16:34 hrs. All PME listed under the CNP No. GW-RS0133-11 was ensured to shut down during the measurement. The average 5-min baseline noise level was found to be 65.9dB (A), which already exceeded the Limit Level of 60dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the daytime and evening time during general holiday BGL at M5a (roof of Chuk Lam Ming Tong) ranged from 55.1dB (A) to 75.2dB(A).			
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources were road traffic noise at San Wan Drive and ball games competition in near playground.			
Actions taken/ to be taken:			
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.			

Inspected by : Ruby Law

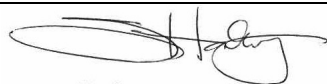
Title : Environmental Technician



Date : 13th June 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 13th June 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24											
Harbour Area Treatment Scheme Stage 2A											
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun											
Notification of Environmental Quality Limit Exceedance			Notification No.: 143								
Date of Notification: 18 th June 2012											
Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 14 th June 2012											
Noise Monitoring Location: M6a — Aegean Terrace											
Parameter: Noise - $L_{eq(5 \text{ min})}$											
Action & Limit Levels			Measured Noise Level *								
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 14 th June 2012								
23:00–07:00 hrs Normal weekday	1 complaint	50 dB(A)	<table border="1"> <tr> <td>$L_{eq(5 \text{ min})}$ reading</td> <td>1st</td> <td>2nd</td> <td>3rd</td> </tr> <tr> <td></td> <td>56.2 dB(A)</td> <td>58.8 dB(A)</td> <td>57.3 dB(A)</td> </tr> </table>	$L_{eq(5 \text{ min})}$ reading	1 st	2 nd	3 rd		56.2 dB(A)	58.8 dB(A)	57.3 dB(A)
$L_{eq(5 \text{ min})}$ reading	1 st	2 nd	3 rd								
	56.2 dB(A)	58.8 dB(A)	57.3 dB(A)								
* Free-field measurement, +3dB correction											
Possible Reason for Action or Limit Level Non-compliance:											
An exceedance in Limit Level was recorded during night-time noise monitoring at M6a on 14 th June 2012.											
From the Contractor's record, powered mechanical equipment (PME) used in the Cyberport PTW works site during noise monitoring period included powered mechanical equipments as listed in Construction Noise Permit (CNP) No. GW-RS0268-12.											
According to the Project Baseline Environmental Monitoring Report (Doc No. GEN/026), the average 5-min baseline noise level was found to be 50.8 dB(A), which already exceeded the Limit Level of 50 dB(A) set out in the Project EM&A Manual. It is also noted that the night-time BGL at M6a ranged from 41.6 dB(A) to 67.0 dB(A).											
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources were the local traffics of Aegean Terence.											
Actions taken/ to be taken:											
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.											

Inspected by : Ruby Law


Title : Environmental Technician



Date : 18th June 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 18th June 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24											
Harbour Area Treatment Scheme Stage 2A											
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun											
Notification of Environmental Quality Limit Exceedance			Notification No.: 144								
Date of Notification: 22 June 2012											
Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 19 th June 2012											
Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong											
Parameter: Noise - $L_{eq(5 \text{ min})}$											
Action & Limit Levels			Measured Noise Level *								
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 19 th June 2012								
23:00–07:00 hrs Normal weekday	1 complaint	45 dB(A)	<table border="1"> <tr> <td>$L_{eq(5 \text{ min})}$ reading</td> <td>1st</td> <td>2nd</td> <td>3rd</td> </tr> <tr> <td></td> <td>57.9 dB(A)</td> <td>64.2 dB(A)</td> <td>60.8 dB(A)</td> </tr> </table>	$L_{eq(5 \text{ min})}$ reading	1 st	2 nd	3 rd		57.9 dB(A)	64.2 dB(A)	60.8 dB(A)
$L_{eq(5 \text{ min})}$ reading	1 st	2 nd	3 rd								
	57.9 dB(A)	64.2 dB(A)	60.8 dB(A)								
* façade measurement											
Possible Reason for Action or Limit Level Non-compliance:											
An exceedance in Limit Level was recorded during night-time noise monitoring at M5a on 19 th June 2012.											
From the Contractor's record, powered mechanical equipment (PME) used in the Sandy Bay works site during noise monitoring period included only powered mechanical equipment as listed in Construction Noise Permit (CNP) No. GW-RS0513-12.											
A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 6 th November 2010 from 23:00 to 23:15 hrs. All PME listed under the CNP No. GW-RS0940-10 was ensured to shut down during the measurement. The average 5-min baseline noise level was found to be 60.5dB (A), which already exceeded the Limit Level of 45dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the night-time BGL at M5a (roof of Chuk Lam Ming Tong) ranged from 54.4dB(A) to 70.2dB(A).											
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources were road traffic noise at San Wan Drive.											
Actions taken/ to be taken:											
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.											

Inspected by : Ruby Law

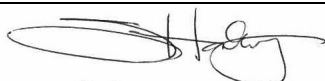
Title : Environmental Technician



Date : 22nd June 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader




Date : 22nd June 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Contract No. DC/2007/24 Harbour Area Treatment Scheme Stage 2A Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun Notifications of Environmental Quality Limits Exceedances							Notification No.: 145		
Date of Notification: 29 June 2012									
Works Inspected: Sandy Bay PTW - data collected from normal weekday noise monitoring on 27 June 2012									
Monitoring Location: M5, roof of Chuk Lam Ming Tong									
Parameter: Noise – $L_{eq(30 \text{ min})}$									
Action & Limit Levels			Measured Level						
Time Period	Action Level	Limit Level	Time:	11:05 a.m. – 11:35 a.m. on 27 June 2012					
07:00–19:00 hrs Normal weekday	1 complaint	75dB(A)	$L_{eq(5min)}$ readings dB(A)	1 st	2 nd	3 rd	4 th	5 th	6 th
				77.3	76.5	76.1	73.1	76.9	76.2
Possible reason for Action or Limit Level Non-compliance: <p>An exceedance in Limit Level of noise was recorded during impact monitoring at M5 on 27 June 2012.</p> <p>From the Contractor's record, construction activity within Sandy Bay PTW during monitoring was holes drilling in tunnel. Noise source identified included construction noise (operation of breaker) from Contract CRBC-WCCL JV (please refer to photo 4) located adjacent to the roadside of NSR and road traffic from San Wan Drive.</p> <p>The exceedance were considered non-project related.</p>									
Actions taken/ to be taken: <p>As the noise levels recorded beyond the Limit Level were not considered to be related to project works, no immediate actions are considered necessary.</p>									

Inspected by : Ruby Law


Title : Environmental Technician
 Date : 29th June 2012

Reviewed and approved by : Susana Halliday


Title : Environmental Team Leader
 Date : 29th June 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

Photos 1 - 3 Road surface breaking with using hand held breaker of other contractor



Photo 4 The contractor of CRBC-WCCL JV



Contract No. DC/2007/24			
Harbour Area Treatment Scheme Stage 2A			
Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun			
Notification of Environmental Quality Limit Exceedance			Notification No.: 146
Date of Notification: 29 th June 2012			
Works Inspected: Data collected from normal weekday night time (between 23:00-07:00 hrs of next day) noise monitoring on 27 th June 2012			
Noise Monitoring Location: M3 — Kwan Yick Building Phase III			
Parameter: Noise - $L_{eq(5\text{ min})}$			
Action & Limit Levels			Measured Noise Level *
Time Period	Action Level	Limit Level	Time : 23:00 – 23:15 hrs on 27 th June 2012
23:00–07:00 hrs Normal weekday	1 complaint	55dB(A)	$L_{eq(5\text{ min})}$ reading
			1 st 2 nd 3 rd
			65.2 dB(A) 65.7 dB(A) 65.0 dB(A)
* façade measurement			
Possible Reason for Action or Limit Level Non-compliance:			
An exceedance in Limit Level was recorded during nighttime noise monitoring at M3 on 27 th June 2012.			
From the Contractor's record, powered mechanical equipment (PME) used in the Fung Mat Road works site during noise monitoring period included hydraulic extractor, bentonite filtering plant and generator as listed in Construction Noise Permit (CNP) No. GW-RS0241-12.			
A background noise level (BGL) monitoring was conducted on 2 nd July 2010 from 23:02 – 23:17 hrs, as requested by EPD. All PME listed under the CNP No. GW-RS0435-10 was shut down during the BGL measurement. The 5-min BGL was found to be 66.6dB (A), which already exceeded the Limit Level of 55dB (A) set out in the Project EM&A Manual. It is also noted from the Project Baseline Environmental Monitoring Report (Doc No. GEN/026) that the nighttime BGL at M3 (Kwan Yick Building Phase III) ranged from 57.2dB(A) to 70.3dB(A).			
Hence, the above exceedance was considered to be non-project related. Based on observations during the noise monitoring period, the major noise sources including road traffic noise from Western Harbour Crossing and engine noise of turbojet.			
Actions taken/ to be taken:			
As the noise exceedance was not considered to be related to project works, no immediate actions are considered necessary.			

Inspected by : Ruby Law


Title : Environmental Technician



Date : 29th June 2012

Reviewed and approved by : Susana Halliday

Title : Environmental Team Leader



Date : 29th June 2012

Sent to: Engineer's Representative, Contractor, EPD & IEC

APPENDIX I

SUMMARY RECORDS OF SITE INSPECTION

3 April 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Some trashes were found in skip near the entrance in PTW. (Photo 1)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120327

The issues of General Housekeeping that observed on 27th March will be follow-up in next inspection since no inspection undertaken in workshop.

General Housekeeping:

1. The accumulated water was found on the unused materials in the site area of workshop. (Photo 2)
2. Some trashes were found near the entrance of workshop site area. (Photo 3)

Current Environmental Site Inspection Checklist – Report No. 120403

Chemical Waste / Waste Oil:

1. The contractor is suggested to treat the waste oil in the skip as chemical waste.

General Housekeeping:

1. To clear the water accumulation on oil drum next to mobile crane.

Photo 1 Some trashes were found in skip near the entrance in PTW.

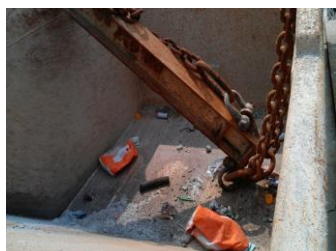


Photo 2 The accumulated water was found on the unused materials in the site area of workshop



Photo 3 Some trashes were found near the entrance of workshop site area



Cyberport PTW

Notes / Issues Recorded On Site: Nil
Corrective Actions – Mitigation Measures Implemented or Proposed (if any):
Previous Environmental Site Inspection Checklist – Report No. 120327 The issue of General Housekeeping and Air Quality will be follow-up in next inspection due to no inspection undertaken at Cyberport site. General Housekeeping: <ol style="list-style-type: none">1. The stains were found on the noise enclosure surface.2. The water leakage was found from the water tap in the shower room. (Photo 1)3. The trashes and leaves were found in the site area. (Photo 2) Air Quality: <ol style="list-style-type: none">1. The cement bags were found without properly cover near the site entrance. (Photo 3)
Current Environmental Site Inspection Checklist – Report No. 120403 General Housekeeping: <ol style="list-style-type: none">1. The contractor was scheduled to clean the surface of noise enclosure.2. The contractor was reminded to repair the water tap to prevent water leakage.3. The contractor was reminded to keep the site tidiness. Air Quality: <ol style="list-style-type: none">1. The contractor was reminded to cover the dusty materials properly.

Photo 1 The water leakage was found from the water tap in the shower room

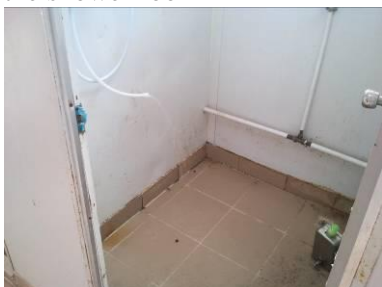


Photo 2 The trashes and leaves were found in the site area



Photo 3 The cement bags were found without properly cover near the site entrance



Fung Mat Road Site

Notes / Issues Recorded On Site:

General Housekeeping

1. The accumulated water was found near the entrance in the noise enclosure.

Previous Environmental Site Inspection Checklist – Report No. 120327

General Housekeeping:

1. The stagnant water near the water pump was reduced.

Current Environmental Site Inspection Checklist – Report No. 120403

Site Management:

1. The contractor was reminded to clean the accumulated water.

Sandy Bay

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found near access inside the noise enclosure. (Photo 1)
2. Leaves accumulation was found in the pit behind the container. (Photo 2)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120327

Oil Management:

The contractor is reminded to clear the oil stain under the PME near the noise enclosure will be follow-up in next inspection due to no inspection undertaken at Sandy Bay site.

1. The oil stain under the PME near the noise enclosure was cleared.

Current Environmental Site Inspection Checklist – Report No. 120403

General Housekeeping:

1. The contractor was reminded to clean the accumulated water to prevent mosquito breeding.
2. The contractor was reminded to clean the accumulated leaves in the pit behind the container.

Photo 1 Water accumulation was found near access inside the noise enclosure



Photo 2 Leaves accumulation was found in the pit behind the container



Wah Fu PTW

Notes / Issues Recorded On Site:

General Housekeeping :

1. The stagnant water was found near the site boundary at resting area since last inspection. (Photo 1)
2. Water accumulation was found in the pit near the plants platform. (Photo 2)
3. Leaves accumulation was found on the roof top. (Photo 3)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120327

The issue of trashes was found in the u-channels outside the site hoarding (Photo 4) will be follow-up in next inspection due to inspection undertaken in this time.

Current Environmental Site Inspection Checklist – Report No. 120403

Waste/ Chemical Management:

1. The contractor was reminded to clear the stagnant waster to prevent mosquito breeding.
2. The contractor was reminded to remove the trashes and keep the site tidiness.
3. The contractor was reminded to clean the accumulated leaves on the roof top.

Photo 1 The stagnant water was found near the site boundary at resting area since last inspection



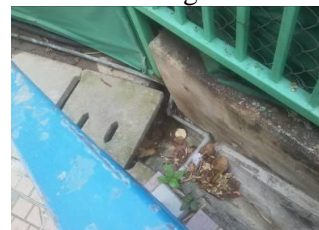
Photo 2 Water accumulation was found in the pit near the plants platform



Photo 3 Leaves accumulation was found on the roof top



Photo 4 Some trashes was found in the u-channels outside the site hoarding



10 April 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Some trashes were found in noise cover platform. (Photo 1 and 2)

Waste Oil:

1. Some oil stains were found on ground near the entrance gate in PTW. (Photo 3)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120403

The issue of General Housekeeping that observed on 27th March will be follow up in next inspection since no inspection undertaken in work shop.

General Housekeeping:

1. The accumulated water was found on the unused materials in the site area of workshop.(Photo 4)
2. Some trashes were found near the entrance of the workshop site area.(photo 5)
3. The trashes in skip near the entrance in the PTW were cleared.

Current Environmental Site Inspection Checklist – Report No. 120410

1. The contractor was reminded to clean the stagnant oil near the entrance gate in PTW.
1. The contractor was reminded to keep the site area(including PTW and workshop) tidiness.

Photo 1 Some trashes were found in noise cover platform



Photo 2 Some trashes were found in noise cover platform



Photo 3 Some oil stains were found on ground near the entrance gate in PTW



Photo 4 The accumulated water was found on the unused materials in the site area of workshop



Photo 5 Some trashes were found near the entrance of the workshop site area



Cyberport PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. The stains were found on the noise enclosure surface. (Photo 1)
2. Some wastes were found near the Aqua. Sed. (photos 2 and 3)
3. A trashes bin was found without label near the entrance gate.(Photo 4)

Chemical Storage Area:

1. An unknown chemical drum was found in the noise enclosure.(Photo 5)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120327

General Housekeeping:

1. The water leakage of the water tap in the shower room was fixed.

Air Quality:

1. The cement bags near the site entrance were removed. (Photo 6)

Current Environmental Site Inspection Checklist – Report No. 120403

General Housekeeping:

1. The contractor was scheduled to clean the surface of noise enclosure.
2. The contractor was reminded to keep the site tidiness.
3. To provide suitable label to trashes bin near the entrance gate.

Chemical Storage Area:

1. The contractor was reminded to place chemical properly.

Photo 1 The stains were found on the noise enclosure surface



Photo 2 Some wastes were found near the Aqua. Sed



Photo 3 Some wastes were found near the Aqua. Sed



Photo 4 A trashes bin was found without label near the entrance gate



Photo 5 An unknown chemical drum was found in the noise enclosure



Photo 6 The cement bags near the site entrance were removed



Fung Mat Road Site

Notes / Issues Recorded On Site:

Nil.

Previous Environmental Site Inspection Checklist – Report No. 120403

General Housekeeping:

1. The stagnant water near the entrance of noise enclosure was reduced. (photo 1)

Current Environmental Site Inspection Checklist – Report No. 120410

Nil.

Photo 1 The stagnant water near the entrance of noise enclosure was reduced



Sandy Bay

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found near access inside the noise enclosure.(Photo 1)
2. Leaves accumulation was still found in the pit behind the container since last inspection.(Photo 2)
3. The damage pipe was found of air conditioner of contractor office.(Photo 3)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120403

Nil.

Current Environmental Site Inspection Checklist – Report No. 120410

General Housekeeping:

1. The contractor was reminded to clean the accumulated water to prevent mosquito breeding.
2. The contractor was reminded to clean the accumulated leaves in the pit behind the container.
3. The contractor was reminded to repair or renew the pipe of air conditioner.

Photo 1 Water accumulation was found near access inside the noise enclosure.

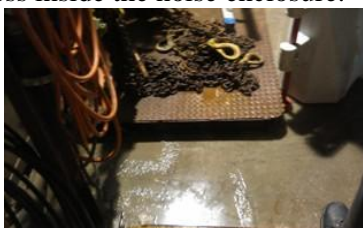
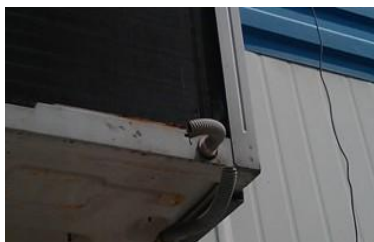


Photo 2 Leaves accumulation was found in the pit behind the container



Photo 3 The damage pipe was found of air conditioner of contractor office.



Wah Fu PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. The stagnant water was found near the site boundary at resting area since last inspection. (Photo 1)

Chemical Storage Area:

1. An unknown chemical was found near the air compressor. (Photo 2)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120403

The issue of trashes was found in the U-channels outside the site hoarding (Photo 3) will be follow-up in next inspection due to no inspection undertaken in this time.

1. The accumulated water in the pit near the plants platform was cleared.(Photo 4)
2. The larvicidal oil was applied in the site.
3. Leaves accumulation on the roof top was reduced.

Current Environmental Site Inspection Checklist – Report No. 120410

Waste / Chemical Management:

1. The contractor was reminded to clear the stagnant water to prevent mosquito breeding.
2. The contractor was reminded to remove the trashes and keep the site tidiness.
3. To provide suitable label to unknown chemical near air compressor.

Photo 1 The stagnant water was found near the site boundary at resting area



Photo 2 An unknown chemical was found near the air compressor



Photo 3 Some trashes was found in the U-channels outside the site hoarding

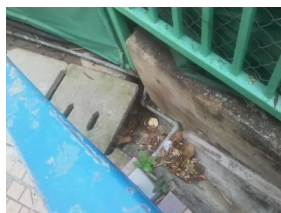


Photo 4 The accumulated water in the pit near the plants platform was cleared



17 April 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. The stagnant water was found in the container between the site offices. (Photo1)
2. The trashes were accumulated in the workshop site area. (Photo 2 to Photo 4)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120410

The issue of General Housekeeping that observed on 10th April 2012 will be follow up in next inspection since no inspection undertaken in PTW area..

Current Environmental Site Inspection Checklist – Report No. 120417

1. The contractor was reminded to clean the stagnant water to avoid the mosquito breeding.
2. The contractor was reminded to keep the site area (including PTW and workshop) tidiness.

Photo 1 The stagnant water was found in the container between the site offices



Photo 2 The trashes were accumulated in the workshop site area



Photo 3 The trashes were accumulated in the workshop site area



Photo 4 The trashes were accumulated in the workshop site area



Cyberport PTW

Notes / Issues Recorded On Site:

Chemical Storage Area:

1. An unknown chemical drum was found on access road near the noise enclosure. (Photo 1)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120410

General Housekeeping:

1. The stains on the noise enclosure surface. (Photo 2)
2. The wastes near the Aqua. Sed. were removed. (Photo 2)

Current Environmental Site Inspection Checklist – Report No. 120417

Chemical Storage Area:

1. The contractor was reminded to place chemical properly.

Photo 1 An unknown chemical drum was found on access road near the noise enclosure



Photo 2 The stains on the noise enclosure surface and the wastes near the Aqua. Sed. were removed



Fung Mat Road Site

Notes / Issues Recorded On Site:

1. The chemicals were found without drip tray near the Aqua. Sed. (Photo 1)

Previous Environmental Site Inspection Checklist – Report No. 120410

General Housekeeping:

Nil.

Current Environmental Site Inspection Checklist – Report No. 120417

1. The contactor was reminded to storage the chemical properly.

Photo 1 The chemicals were found without drip tray near the Aqua. Sed.



Sandy Bay

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found near access inside the noise enclosure.(Photo 1)
2. The water leakage was found at the roof of site office.(Photo 2)
3. The damage pipe was found of air conditioner of contractor office.(Photo 3)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120410

1. The accumulated leaves were removed.
2. The damage pipe was still found of air conditioner of contractor office.

Current Environmental Site Inspection Checklist – Report No. 120417

General Housekeeping:

1. The contractor was reminded to clean the accumulated water to prevent mosquito breeding.
2. The contractor was reminded to repair the roof of site office to avoid the water leakage.
3. The contractor was reminded to repair the pipe of air conditioner.

Photo 1 Water accumulation was found near access inside the noise enclosure



Photo 2 The water leakage was found at the roof of site office



Photos 3 The damage pipe was found of air conditioner of contractor office



Wah Fu PTW

Notes / Issues Recorded On Site:

General Housekeeping:

The trashes were found on the public access road near the site boundary. (Photo 1)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120410

The issue of unknown chemical was found near the air compressor (Photo 2) will be follow-up in next inspection due to no inspection undertaken in this time.

Current Environmental Site Inspection Checklist – Report No. 120417

Waste / Chemical Management:

1. The contractor was reminded to remove the trashes and keep the site tidiness.

Photo 1 The trashes were found on the public access road near the site boundary



Photo 2 Some trashes were found in the U-channels outside the site hoarding



24 April 2012

Aberdeen PTW

<p>Notes / Issues Recorded On Site:</p> <p>General Housekeeping:</p> <ol style="list-style-type: none"> 1. Stagnant water was found in the container between the site offices. (Photo1) 2. Trash was accumulated in the workshop site area. (Photo 2 to Photo 4)
<p>Corrective Actions – Mitigation Measures Implemented or Proposed (if any):</p> <p>Previous Environmental Site Inspection Checklist – Report No. 120417</p> <p>The issue of General Housekeeping that observed on 10th April 2012 will be follow up in next inspection since no inspection undertaken in PTW area.</p> <p>Current Environmental Site Inspection Checklist – Report No. 120424</p> <ol style="list-style-type: none"> 1. The contractor was reminded to clean the stagnant water to avoid the mosquito breeding. <p>The contractor was reminded to keep the tidiness of the site area (including PTW and workshop).</p>

Photo 1 Stagnant water was found in the container between the site offices.



Photo 2 Trash was found near the entrance of the workshop site area.

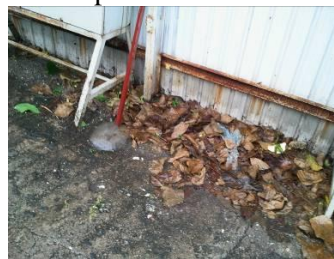


Photo 3 Trash was found near the entrance of the workshop site area.



Photo 4 Trash was found near the entrance of the workshop site area.



Cyberport PTW

<p>Notes / Issues Recorded On Site:</p> <p>Chemical Storage Area:</p> <ol style="list-style-type: none"> 1. Some unknown chemical drums were found on access road. (Photo 1) 2. An unknown chemical drum was found in the noise enclosure.(Photo 2) <p>Corrective Actions – Mitigation Measures Implemented or Proposed (if any):</p>
<p>Previous Environmental Site Inspection Checklist – Report No. 120417</p> <p>Nil.</p> <p>Current Environmental Site Inspection Checklist – Report No. 120424</p> <p>Chemical Storage Area:</p> <ol style="list-style-type: none"> 1. The contractor was reminded to place chemicals properly. <p>General Housekeeping:</p> <ol style="list-style-type: none"> 1. The contractor was reminded to clean noise enclosure.(Photo 3)

Photo 1 Some unknown chemical drums were found on access road

Photo 2 An unknown chemical drum was found in the noise enclosure



Photo 3 The contractor was reminded to clean noise enclosure



Fung Mat Road Site

Notes / Issues Recorded On Site:

General Housekeeping:

1. Accumulated water was found at the corner near the stockpiles. (Photo 1)

Previous Environmental Site Inspection Checklist – Report No. 120417

General Housekeeping:

The chemicals near the Aqua Sep have been removed.(Photo 2)

Current Environmental Site Inspection Checklist – Report No. 120424

1. The contractor was reminded to clear stagnant water and avoid water accumulation.

Photo 1 Accumulated water was found at the corner near the stockpiles

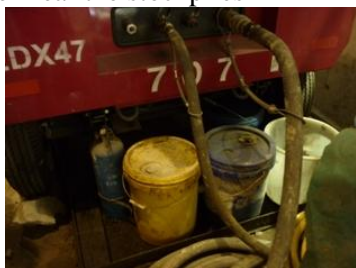


Photo 2 The chemicals near the Aqua Sep have been removed.



Sandy Bay PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water leakage was found at the roof of site office. (Photo 1)
2. A damage pipe was found of air conditioner of contractor office. (Photo 2)

Waste Oil:

1. Oil stain was found on the ground in front of the chemical storage. (Photo 3)

Chemical Management:

1. The responsibility person list of chemical waste storage was ratty. (Photo 4)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120417

The issue of water accumulation inside the noise enclosure (Photo 5) will be follow up in next inspection due to no inspection undertaken in noise enclosure.

Current Environmental Site Inspection Checklist – Report No. 120424

General Housekeeping:

1. The contractor was reminded to clean the accumulated water to prevent mosquito breeding.
2. The contractor was reminded to repair the roof of site office to avoid the water leakage.
3. The contractor was reminded to repair the pipe of air conditioner.

Waste Oil:

1. The contractor was reminded to clean the oil with oil dispenser.

Chemical Management:

1. The contractor was reminded to renew the list of responsibility person of chemical waste storage.

Photo 1 Water leakage was found at the roof of site office



Photo 2 A damage pipe was found of air conditioner of contractor office



Photo 3 Oil stain was found on the ground in the front of chemical storage



Photo 4 The responsibility person list of chemical waste storage was ratty



Photo 5 Water accumulation was found near access inside the noise enclosure



Wah Fu PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Stagnant water was found in drip tray near generator (Photos 1 and 2) and skip on noise cover. (Photo 3)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120417

The issue of unknown chemical was found near the air compressor (Photo 1) will be follow-up in next inspection due to no inspection undertaken in this time.

Current Environmental Site Inspection Checklist – Report No. 120424

Waste / Chemical Management:

1. The contractor was reminded to clean the accumulated water to prevent mosquito breeding.

Photo 1 Stagnant water was found in drip tray near generator



Photo 2 Stagnant water was found in drip tray near generator



Photo 3 Stagnant water was found skip on noise cover



2 May 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Stagnant water was found in the container between the site offices since last site inspection. (Photo1)
2. Stagnant water was found in the car wash bay (Photo 2) and in a drip tray at generator platform.
3. Stagnant water was found in the washing basin in the workshop area (Photo 3).

Waste Management:

1. Trash was found in the workshop site area since last site inspection. (Photos 4 and 5)
2. Trash was found at the site boundary. (Photo 6)
3. The sanitation level of the toilet was found poor. (Photo 7)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120424

1. Stagnant water found in the container between the site offices has shown **no improvement** since last site inspection. (Photo1)
2. Trash accumulated in the workshop site area has shown **no improvement** since last site inspection. (Photos 4 and 5)

Current Environmental Site Inspection Checklist – Report No. 120502

General Housekeeping:

1. The contractor was reminded to clear stagnant water pools in the container between the site offices, in the car wash bay, in a drip tray at generator platform, and in the washing basin in the workshop area.

Waste Management:

2. The contractor was reminded to keep the tidiness within the site and at the site boundary.
1. The contractor was recommended to improve the sanitation level of the toilet.

Photos 1 Stagnant water was found in the container between the site offices since last site inspection



Photo 2 Stagnant water was found in the car wash bay



Photo 3 Stagnant water was found in the washing basin in the workshop area

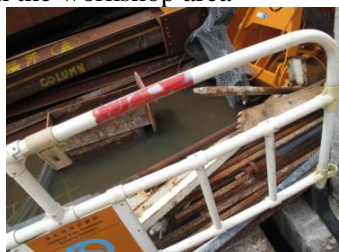


Photo 4 Trash accumulated in the workshop site area



Photo 5 Trash accumulated in the workshop site area



Photo 6 Trash was found at the site boundary



Photo 7 The sanitation level of the toilet was found poor



Cyberport PTW

Notes / Issues Recorded On Site: Waste Management: 1. Trash was found in the site.
Corrective Actions – Mitigation Measures Implemented or Proposed (if any):
Previous Environmental Site Inspection Checklist – Report No. 120424 To be review in next site inspection. Current Environmental Site Inspection Checklist – Report No. 120502 Waste Management: 1. The contractor was reminded to keep the tidiness of the site.

Fung Mat Road Site

Notes / Issues Recorded On Site: General Housekeeping: 1. Accumulated water was found at the corner near the stockpiles since last inspection. (Photo 1)
Previous Environmental Site Inspection Checklist – Report No. 120424 General Housekeeping: Accumulated water found at the corner near the stockpiles has shown no improvement since last inspection. (Photo 1) Current Environmental Site Inspection Checklist – Report No. 120502 1. The contractor was reminded to clear stagnant water pool.

Photo 1 Accumulated water was found at the corner near the stockpiles since last inspection



Sandy Bay

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water leakage was found at the roof of site office since last inspection. (Photo 1)
2. A damage pipe was found of air conditioner of contractor office since last inspection. (Photo 2)
3. Stagnant water found in mechanical equipment washing area (Photo 3), outside noise enclosure at the back lane (Photo 4), and in drip trays (Photo 5) and on tarpaulin (Photo 6) near chemical storage area.
4. A bag of cement was found broken at the back lane. (Photo 7)

Waste Management:

1. Refuse was found near the main entrance of the noise enclosure. (Photo 8)

Chemical Management:

1. Chemicals are not labelled properly in the storage area. (Photo 9)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120424

1. Water accumulation inside the noise enclosure has been cleared. (Photo 10)
2. Oil stain found on the ground in front of the chemical storage has been cleaned. (Photo 11)
3. The responsible person list of chemical waste storage has been renewed. (Photo 12)
4. The water leakage at the roof of site office (Photo 1) and the damage pipe of air conditioner at contractor office (Photo 2) has shown **no improvement** since last site visit.

Current Environmental Site Inspection Checklist – Report No. 120502

General Housekeeping:

1. The contractor was reminded to repair the roof of site office to avoid the water leakage.
2. The contractor was reminded to repair the pipe of air conditioner.
3. The contractor was reminded to clear all stagnant water pools to prevent mosquito breeding.
4. The contractor was reminded to clean and remove the broken bag of cement.

Waste Management:

1. The contractor was reminded to keep the tidiness of the site and instruct the workers to use the rubbish bins.

Chemical Management:

3. 1. The contractor was reminded to label the chemicals properly.

Photo 1 Water leakage was found at the roof of site office since last inspection



Photo 2 The damage pipe of air conditioner at contractor office has shown no improvement since last inspection



Photos 3 Stagnant water found outside noise enclosure at the back lane

Photo 4 Stagnant water found in drip trays near chemical storage area



Photo 5 Stagnant water found on tarpaulin near chemical storage area



Photo 6 A bag of cement was found broken at the back lane



Photo 7 Refuse was found near the main entrance of the noise enclosure



Photo 8 Chemicals are not labelled properly in the storage area

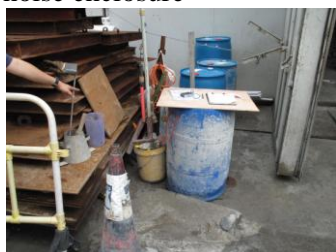


Photo 9 Water accumulation inside the noise enclosure has been cleared

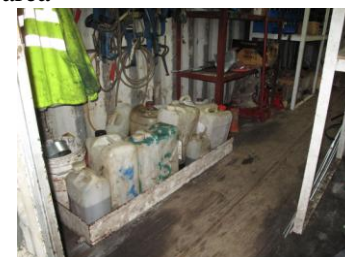


Photo 10 Oil stain found on the ground in front of the chemical storage has been cleaned



Photo 11 The responsible person list of chemical waste storage has been renewed



Photo 12 The water leakage at the roof of site office has shown no improvement since last inspection



Wah Fu PTW

Notes / Issues Recorded On Site:

Waste Management:

1. Trash on the public access road near the site boundary was found (Photo 1).

General Housekeeping:

2. Stagnant water was found in drip tray near generator (Photos 2 and 3) and skip on noise cover (Photo 4).

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120424

Stagnant water pools found in drip tray near generator (Photos 2 and 3) and skip on noise cover (Photo 4) have shown **no improvement** since last site inspection.

Current Environmental Site Inspection Checklist – Report No. 120502

Waste / Chemical Management:

1. The contractor was reminded to keep the tidiness of the site and clean up trash regularly.

General Housekeeping:

1. The contractor was reminded to clean the accumulated water to prevent mosquito breeding.

Photo 1 Trash on the public access road near the site boundary was found.



Photo 2 Stagnant water was found in drip tray near generator

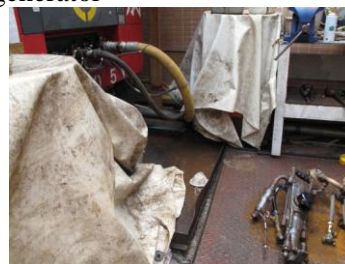


Photo 3 Stagnant water was found in drip tray near generator



Photo 4 Stagnant water was found skip on noise cover



8 May 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Stagnant water was found in a drip tray at generator and compressor platform since last site inspection. (Photos 1 and 2)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120502

1. Stagnant water was found in the container between the site offices (Photo 3), car washing bay (photo 4) and in the washing basin (Photo 5) since inspection on 24 April 2012.
2. Trash was accumulated in the workshop site area (Photo 6 and Photo 7) and site boundary (Photo 8) since inspection on 24 April 2012.
3. The sanitation level of the toilet is still unsatisfactory since last site inspection. (Photo 9)

Current Environmental Site Inspection Checklist – Report No. 120508

General Housekeeping:

1. The contractor was reminded to clear stagnant water pools in the container between the site offices, in the car wash bay, in a drip tray at generator platform, and in the washing basin in the workshop area.

Waste Management:

1. The contractor was reminded to keep the tidiness within the site and at the site boundary.

The contractor was recommended to improve the sanitation level of the toilet.

Photo 1 Stagnant water was found in a drip tray at generator and compressor platform since last site inspection



Photo 2 Stagnant water was found in a drip tray at generator and compressor platform since last site inspection



Photo 3 Stagnant water was found in the container between the site offices since last site inspection



Photo 4 Stagnant water was found in the car washing bay



Photo 5 Stagnant water was found in the washing basin in the workshop area



Photo 6 Trash was found in the workshop site area since last site inspection



Photo 7 Trash was found in the workshop site area since last site inspection



Photo 8 Trash was found at the site boundary



Photo 9 The sanitation level of the toilet was found poor



Cyberport PTW

Notes / Issues Recorded On Site:

Waste Management:

1. Leaves were found in the site near the electric box. (Photo 1)

General Housekeeping:

1. Stagnant water was found in the trip tray near the noise enclosure.(Photo 2)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120502

Nil.

Current Environmental Site Inspection Checklist – Report No. 120508

Waste Management:

1. The contractor was reminded to keep the tidiness of the site.

General Housekeeping:

1. The contractor was reminded to clear stagnant water pools in the trip tray near the noise enclosure.

Photo 1 Leaves were found in the site near the electric box



Photo 2 Stagnant water was found in the trip tray near the noise enclosure



Fung Mat Road Site

Notes / Issues Recorded On Site:

General Housekeeping:

1. Accumulated water was found at the corner near the danger goods storage since inspection on 24 April. (Photo 1)

Previous Environmental Site Inspection Checklist – Report No. 120502

General Housekeeping:

Accumulated water found at the corner near the stockpiles has shown **no improvement** since last inspection. (Photo 1)

Current Environmental Site Inspection Checklist – Report No. 120508

1. The contactor was reminded to clear stagnant water pool at the corner near the danger goods storage.

Photo 1 Accumulated water was found at the corner near the danger goods storage since last inspection



Sandy Bay

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water leakage was found at the roof of site office since last inspection. (Photo 1)
2. A damage pipe was found of air conditioner of contractor office since last inspection. (Photo 2)
3. Stagnant water found in mechanical equipment washing area (Photo 3), outside noise enclosure at the back lane (Photo 4), and in drip trays (Photo 5) and on tarpaulin near chemical storage area (Photo 6).
4. A broken cement bag was found at the back lane. (Photo 7)

Waste Management:

1. Refuse were found near the main entrance of the noise enclosure. (Photo 8)

Chemical Management:

1. Chemicals are not labelled properly in the storage area. (Photo 9)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120502

1. Water accumulation inside the noise enclosure has been cleared. (Photo 10)
2. Oil stain found on the ground in front of the chemical storage has been cleaned. (Photo 11)
3. The responsible person list of chemical waste storage has been renewed. (Photo 12)
4. The water leakage at the roof of site office and the damage pipe of air conditioner at contractor office was found since last site visit.

Current Environmental Site Inspection Checklist – Report No. 120508

General Housekeeping:

1. The contractor was reminded to repair the roof of site office to avoid the water leakage.
2. The contractor was reminded to repair the pipe of air conditioner.
3. The contractor was reminded to clear all stagnant water pools to prevent mosquito breeding.
4. The contractor was reminded to clean and remove the broken bag of cement.

Waste Management:

1. The contractor was reminded to keep the tidiness of the site and instruct the workers to use the rubbish bins.

Chemical Management:

1. The contractor was reminded to label the chemicals properly.

Photo 1 Water leakage was found at the roof of site office since last inspection



Photo 2 A damage pipe was found of air conditioner of contractor office since last inspection



Photo 3 Stagnant water found in mechanical equipment washing area



Photo 4 Stagnant water was found outside noise enclosure at the back lane



Photo 5 Stagnant water was found in drip trays near chemical storage area



Photo 6 Stagnant water was found on tarpaulin near chemical storage area



Photo 7 A bag of cement was found broken at the back lane



Photo 8 Refuse was found near the main entrance of the noise enclosure



Photo 9 Chemicals are not labelled properly in the storage area



Photo 10 Water accumulation inside the noise enclosure has been cleared



Photo 11 Oil stain found on the ground in front of the chemical storage has been cleaned



Photo 12 The responsible person list of chemical waste storage has been renewed



Wah Fu PTW

Notes / Issues Recorded On Site:

Waste Management:

- 1. Trash on the public access road near the site boundary was found (Photo 1).

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120502

General Housekeeping:

- 1. Stagnant water pools in drip tray near generator skip on noise cover was cleared (Photo 2)

Waste Management:

- 1. Trash on the public access road near the site boundary was cleared which observed in last inspection

Current Environmental Site Inspection Checklist – Report No. 120508

Waste / Chemical Management:

- 1. The contractor was reminded to keep the tidiness of the site and clean up trash regularly.

Photo 1 Trash on the public access road near the site boundary was found.



Photo 2 Stagnant water was found in drip tray near generator



15 May 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Contaminated water was found to be leaking into the main sewer system. (Photo 1)
2. Covers for cement packs were found not to be covered completely. (Photo 2)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120508

General Housekeeping:

1. The contractor was reminded to clear stagnant water pools in the container between the site offices, in the car wash bay, in a drip tray at generator platform, and in the washing basin in the workshop area.

Waste Management:

1. The contractor has kept the tidiness within the site and at the site boundary. (Photo 3)
2. The contractor has improved the sanitation level of the toilet.

Current Environmental Site Inspection Checklist – Report No. 120515

General Housekeeping:

1. The contractor is reminded to prevent contaminated water leeching into the sewers.
2. The contractor is reminded to provide adequate covering for the cement packs.

Photo 1 Contaminated water was found to be leaking into the main sewer system



Photo 2 Covers for cement packs were found not to be covered completely



Photo 3 The contractor has kept the tidiness within the site and at the site boundary



Cyberport PTW

Notes / Issues Recorded On Site:

Waste Management:

1. Chemical Containers was found without a drip tray. (Photo 1)
2. Stagnant pools of water were found inside Chemical Container storage units. (Photo 2)

General Housekeeping:

1. Leaves accumulation should be cleared near the gate entrance. (Photo 3)
2. Chemical containers were found to be misplaced in the designated areas. (Photo 4)
3. Stagnant water was found in the drip tray near the noise enclosure.(Photo 5)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120508

1. The contractor was reminded to remove leaves near the electric box.
2. The contractor was reminded to clear stagnant water pools in the drip tray near the noise enclosure.

Current Environmental Site Inspection Checklist – Report No. 120515

Waste Management:

1. The contractor was reminded to provide drip trays to chemical containers.
2. The contractor was reminded to remove stagnant pools of water inside chemical container storage units.

General Housekeeping:

1. The contractor was reminded to prevent leave accumulation.
2. The contractor was reminded to place chemical containers into designated areas.
3. The contractor was reminded to clear stagnant water inside drip trays.

Photo 1 Chemical Containers was found without a drip tray.



Photo 2 Stagnant pools of water s were found inside Chemical Container storage units.



Photo 3 Leaves accumulation should be cleared near the gate entrance



Photo 4 Chemical containers were found in the opening on top containers near the noise barrier enclosure.



Photo 5 Stagnant water was found in the drip tray near the noise enclosure.



Fung Mat Road Site

Notes / Issues Recorded On Site:

General Housekeeping:

1. Stagnant water was found again in the corner near the danger goods storage (Photo 1)

Previous Environmental Site Inspection Checklist – Report No. 120508

General Housekeeping:

The contactor was reminded to clear stagnant water pool at the corner near the danger goods storage.

Current Environmental Site Inspection Checklist – Report No. 120508

1. The contactor was reminded to clear stagnant water pool at the corner near the danger goods storage

Photo 1 Accumulated water was found at the corner near the danger goods storage since last inspection



Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

1. Fuel containers were found without drip trays. (Photo1)
2. Stagnant water was found within machine parts. (Photo 2).
3. Oil stains were found near sewers next to the noise enclosure. (Photo 3)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120508

General Housekeeping:

1. The contractor was reminded to repair the roof of site office to avoid the water leakage.
2. The contractor was reminded to repair the pipe of air conditioner.
3. The contractor was reminded to clear all stagnant water pools to prevent mosquito breeding.
4. The contractor was reminded to clean and remove the broken bag of cement.

Waste Management:

1. The contractor has improved in keeping the tidiness of the Site and workers were encouraged to use rubbish bins.

Chemical Management:

1. The contractor provided labels accordingly to containers.

Current Environmental Site Inspection Checklist – Report No. 120515

Chemical Management:

1. The contractor was reminded to provide drip trays for its fuel containers.
2. The contractor was reminded to clear stagnant waters inside machineries.
3. The contractor was reminded to prevent oil stains leeching into the sewers.

Photo 1 The contractor was reminded to provide a drip tray for its fuel containers.



Photo 2 The contractor was reminded to clear stagnant water inside machineries.



Photo 3 The contractor was reminded to prevent oil contamination in the by the sewer areas.



Wah Fu PTW

Notes / Issues Recorded On Site:

House Keeping:

1. The site was found to be un-tidy. (Photo 1).
2. The contractor is reminded to remove stagnant water and rubbish inside the skip. (Photo 2).

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120508

Waste / Chemical Management:

1. The contractor has kept the tidiness of the site. (Photo 3)

Current Environmental Site Inspection Checklist – Report No. 120515

Waste / Chemical Management:

1. The contractor is reminded to keep the tidiness of the site area.
2. The contractor is reminded to remove stagnant water and rubbish inside container.

Photo 1 The contractor is reminded to keep the tidiness of the site area.



Photo 2 The contractor is reminded to remove stagnant water and rubbish inside the skip.



Photo 3 The contractor has kept the tidiness of the site



22 May 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found near the electric box near the fencing. (photo 1)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120515

General Housekeeping:

1. The contractor was recommended to clear stagnant water pools in the container between the site offices, in the car wash bay, in a drip tray at generator platform, and in the washing basin in the workshop area.
2. No more contaminated water leaking into the gulley.(photo 2)

Waste Management:

1. The contractor has improved the sanitation level of the toilet.

Air Quality:

1. Cement bags had been covered properly.(Photo 3)

Current Environmental Site Inspection Checklist – Report No. 120522

General Housekeeping:

1. The contractor is reminded to clear the accumulated water and prevent the accumulation.

Photo 1 Water accumulation was found near the electric box near the fencing



Photo 2 No more contaminated water leaking into the gulley



Photo 3 Cement bags had been covered properly



Cyberport PTW

Notes / Issues Recorded On Site:

Air Quality:

1. Cement bags were found near the gate of noise enclosure without proper cover.(Photo 1)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120515

General Housekeeping:

1. Leaves accumulation near the electric box was cleared.(Photos 2 and 3)
2. Those chemicals were removed.(Photos 4 and 5)
3. Stagnant water in drip tray was cleared.(Photo 6)

Current Environmental Site Inspection Checklist – Report No. 120522

Air Quality:

1. The contractor is reminded to cover dusty material near the gate of noise enclosure properly.

Photo 1 Cement bags were found near the gate of noise enclosure without proper cover.



Photos 2 Leaves accumulation near the electric box was cleared.



Photo 3 Leaves accumulation near the electric box was cleared



Photo 4 Chemicals near noise enclosure were removed.



Photo 5 Chemicals near noise enclosure were removed.



Photo 6 Stagnant water in drip tray was cleared.



Fung Mat Road Site

Notes / Issues Recorded On Site:

Air Quality:

1. Some cement bags were found without proper cover (Photo 1)

Previous Environmental Site Inspection Checklist – Report No. 120515

General Housekeeping:

Accumulated water near danger goods storage was removed. (Photo 2)

Current Environmental Site Inspection Checklist – Report No. 120522

1. The contractor was reminded to cover properly to all dusty material.

Photo 1 Some cement bags were found without proper cover



Photo 2 Accumulated water near danger goods storage was removed



Sandy Bay PTW

Notes / Issues Recorded On Site:

Chemical Management:

- 1. Fuel container near the AMV plant was found without drip tray since last inspection. (Photo1)

General Housekeeping:

- 1. Water accumulation was found on the cover near the noise enclosure. (Photo 2)

Waste Management:

- 1. Non paper material was found in paper recycle bin. (Photos 3 and 4)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120515

General Housekeeping:

- 1. The contractor was reminded to repair the roof of site office to avoid the water leakage in PTW. (Photo 5)
- 2. The contractor was reminded to repair the pipe of air conditioner in PTW. (Photo 6)
- 3. The contractor was reminded to clean and remove the broken bag of cement in workshop.
- 4. Stagnant water was found within machine parts and clear by contractor immediately.

Chemical Management:

- 1. Oil stain near sewers next to the noise enclosure was cleared. (Photo 7)

Current Environmental Site Inspection Checklist – Report No. 120522

Chemical Management:

- 1. The contractor was reminded to provide drip trays chemical labels for fuel container.

General Housekeeping:

- 1. The contractor to recommended keeping the tidiness of the Site and clear all stagnant water pools to prevent mosquito breeding.

Waste Management:

- 1. The contractor was recommended to carry out good practice of recycling and workers were encouraged to separate different kind of material.

Photo 1 Fuel container near the AMV plant was found without drip tray since last inspection.



Photo 2 Water accumulation was found on the cover near the noise enclosure.



Photo 3 Non paper material was found in paper recycle bin

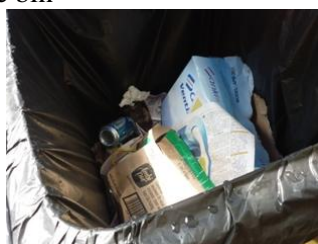


Photo 4 Non paper material was found in paper recycle bin



Photo 5 The contractor was reminded to repair the roof of site office to avoid the water leakage in PTW



Photo 6 The contractor was reminded to repair the pipe of air conditioner in PTW



Photo 7 Oil stain near sewers next to the noise enclosure was cleared



Wah Fu PTW

<p>Notes / Issues Recorded On Site: General House Keeping: 1. Water accumulation was found in skip on the noise platform. (Photos 1 and 2).</p> <p>Corrective Actions – Mitigation Measures Implemented or Proposed (if any): Previous Environmental Site Inspection Checklist – Report No. 120515 Waste / Chemical Management: 1. The accumulation waste was cleared. (Photo 3)</p> <p>Current Environmental Site Inspection Checklist – Report No. 120522 General House Keeping: 1. The contractor is reminded to remove stagnant water inside container and prevent the water accumulation.</p>
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Photo 1 Water accumulation was found in skip on the noise platform



Photo 2 Water accumulation was found in skip on the noise platform



Photo 3 The accumulation waste was cleared



29 May 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found near the electric box near the fencing. (photo 1)
2. In workshop, stagnant water was found in car wash bay and drip tray of generator.(Photos 2 and 3)
3. Some trash were found within 1.5 m from site boundary of workshop.(Photos 4 and 5)

Water Quality:

1. Gulley without cover was found near the entrance gate of PTW.(photo 6)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120522

Nil.

Current Environmental Site Inspection Checklist – Report No. 120529

General Housekeeping:

1. The contractor is strongly reminded to clear the accumulated water and prevent the accumulation.
2. The contractor is recommended to keep the site tidiness (include the sanitation level of the toilet).

Water Quality:

1. The contractor is reminded to cover the gulley to prevent the contamination.

Photo 1 Water accumulation was found near the electric box near the fencing.



Photo 2 In workshop, stagnant water was found in car wash bay and drip tray of generator.



Photo 3 In workshop, stagnant water was found in car wash bay and drip tray of generator

Photo 4 Some trashes were found within 1.5 m from site boundary of workshop



Photo 5 Some trashes were found within 1.5 m from site boundary of workshop



Photo 6 Gully without cover was found near the entrance gate of PTW



Cyberport PTW

Notes / Issues Recorded On Site:	
General Housekeeping:	
1. Water accumulation was found in chemical storage container (Photos 1 and 2)	
Corrective Actions – Mitigation Measures Implemented or Proposed (if any):	
Previous Environmental Site Inspection Checklist – Report No. 120522	
Air Quality:	
1. Cement bags were covered properly. (Photo 3)	
Current Environmental Site Inspection Checklist – Report No. 120529	
General Housekeeping:	
1. The contactor was reminded to avoid water accumulation in chemical storage container.	

Photo 1 Water accumulation was found in chemical storage container



Photo 2 Water accumulation was found in chemical storage container



Photo 3 Cement bags were covered properly



Fung Mat Road Site

Notes / Issues Recorded On Site:

General Housekeeping:

1. Some stagnant water was found near the access road. (Photo 1)

Previous Environmental Site Inspection Checklist – Report No. 120522

Air Quality:

1. Cement bags were covered properly. (Photo 2)

Current Environmental Site Inspection Checklist – Report No. 120529

General Housekeeping:

1. The contractor was reminded to avoid water accumulation.

Photo 1 Some stagnant water was found near the access path



Photo 2 Some cement bags were found without proper cover.



Sandy Bay PTW

Notes / Issues Recorded On Site:

Chemical Management:

1. Oil drums without drip trays were found near stockpiles. (Photo 1)

General Housekeeping:

1. Water accumulation was found in drip tray near the Plant Department container. (Photo 2)
2. The dilapidation roof of site office was found to avoid the water leakage in PTW. (Photo 3)

Waste Management:

1. Non paper material was found in paper recycle bin since last inspection. (Photos 4 and 5)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120522

General Housekeeping:

1. The contractor was using tape to temporary fix the pipe of air conditioner in PTW. (Photo 6)
2. Water accumulation on the cover near the noise enclosure was cleared. (Photo 7)
3. Leaves accumulated in channel were cleared. (Photo 8)

Current Environmental Site Inspection Checklist – Report No. 120529

Chemical Management:

1. The contractor was reminded to provide drip trays and chemical labels for fuel container near stockpiles.

General Housekeeping:

1. The contractor to clear stagnant water pools in drip tray near the Plant Department container to prevent mosquito breeding.
2. The contractor was waiting the material from supplier and the pipe of roof will be changed once material received.

Waste Management:

1. The contractor was recommended to carry out good practice of recycling and workers were encouraged to separate different kind of material.

Photo 1 Oil drums without drip trays were found near stockpiles



Photo 2 Water accumulation was found in drip tray near the Plant Department container



Photo 3 The dilapidation roof of site office was found to avoid the water leakage in PTW



Photo 4 Non paper material was found in paper recycle bin since last inspection

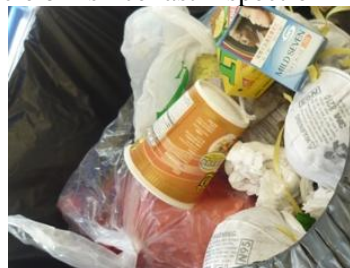


Photo 5 Non paper material was found in paper recycle bin since last inspection



Photo 6 The contractor was using tape to temporary fix the pipe of air conditioner in PTW



Photo 7 Water accumulation on the cover near the noise enclosure was cleared



Photo 8 Leaves accumulated in channel were cleared



Wah Fu PTW

Notes / Issues Recorded On Site:

General House Keeping:

1. Water accumulation was found in skip on the noise platform since last inspection. (Photos 1 and 2).

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120522

Nil.

Current Environmental Site Inspection Checklist – Report No. 120529

General House Keeping:

1. The contractor is reminded to remove stagnant water inside container and prevent the water accumulation.
2. The contractor is reminded to keep the site and 1.5m of site boundary tidiness.

Photo 1 Water accumulation was found in skip on the noise platform since last inspection



Photo 2 Water accumulation was found in skip on the noise platform since last inspection



5 June 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found near the electric box near the fencing since last inspection. (photo 1)
2. In workshop, stagnant water was found in car wash bay since last inspection. (Photo 2)
3. Some trashes were found within 1.5 m area from site boundary of workshop since last inspection. (Photos 3 and 4)

Water Quality:

1. Gully without cover was found near the entrance gate of PTW since last inspection. (photo 5)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120529

General Housekeeping:

1. Water accumulation drip tray of generator was cleared. (Photo 6)

Current Environmental Site Inspection Checklist – Report No. 120605

General Housekeeping:

1. The contractor is strongly reminded to clear the accumulated water and prevent the accumulation in workshop.
2. The contractor is recommended to keep the site tidiness (include the sanitation level of the toilet).

Water Quality:

1. The contractor is reminded to cover the gully to prevent the water contamination.

Photo 1 Water accumulation was found near the electric box near the fencing.

Photo 2 In workshop, stagnant water was found in car wash bay and drip tray of generator.



Photo 3 Some trashes were found within 1.5 m from site boundary of workshop



Photo 4 Some trashes were found within 1.5 m from site boundary of workshop



Photo 5 Gulley without cover was found near the entrance gate of PTW



Photo 6 In workshop, stagnant water was found in car wash bay and drip tray of generator



Cyberport PTW

Notes / Issues Recorded On Site:

General Refuse:

1. Empty chemical drums were accumulated near the First-Aid container. (Photo 1)

Chemical Storage:

1. Chemical was found without drip tray on the access and near the noise enclosure. (Photos 2 and 3)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120529

General Housekeeping:

1. Water accumulation in chemical storage container was cleared. (Photos 4 and 5)

Current Environmental Site Inspection Checklist – Report No. 120605

General Refuse:

1. The contractor is reminded to avoid empty containers accumulate in work site.

Chemical Storage:

1. The contractor is reminded to provide the drip tray to chemical on the access and in the noise enclosure.

Photo 1 Empty chemical drums were accumulated near the First-Aid container

Photo 2 Chemical was found without drip tray on the access and near the noise enclosure



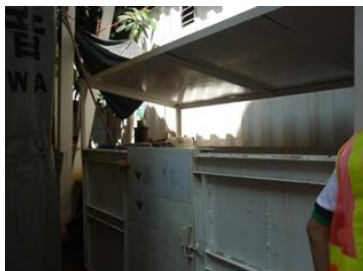
Photo 3 Chemical was found without drip tray on the access and near the noise enclosure



Photo 4 Water accumulation in chemical storage container was cleared



Photo 5 Water accumulation in chemical storage container was cleared



Fung Mat Road Site

Notes / Issues Recorded On Site:

Chemical Storage:

1. Chemical barrels without drip tray were found near stockpiles (Photo 1)

Previous Environmental Site Inspection Checklist – Report No. 120529

General Housekeeping:

1. Stagnant water near the access road was removed.

Current Environmental Site Inspection Checklist – Report No. 120605

General Housekeeping:

1. The contactor was reminded to provide drip tray to chemical barrels near stockpiles.

Photo 1 Chemical barrels without drip tray were found near stockpiles



Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

- 1. Oil drums without drip trays were found near stockpiles.(Photo 1)

General Housekeeping:

- 1. Water accumulation was found in drip tray near the Plant Department container. (Photo 2)
- 2. The dilapidation roof of site office was found to avoid the water leakage in PTW. (Photo 3)

Waste Management:

- 1. Non paper material was found in paper recycle bin since last inspection.(Photos 4 and 5)

Remark:

No inspection had been undertaken.

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120529

Chemical Management:

- 1. The contractor was reminded to provide drip trays and chemical labels for fuel container near stockpiles.

General Housekeeping:

- 1. The contractor to clear stagnant water pools in drip tray near the Plant Department container to prevent mosquito breeding.
- 2. The contractor was waiting the material from supplier and the pipe of roof will be changed once material received.

Waste Management:

- 1. The contractor was recommended to carry out good practice of recycling and workers were encouraged to separate different kind of material.

Current Environmental Site Inspection Checklist – Report No. 120605

N/A

Remark:

No inspection had been undertaken, items in checklist on 29 May 2012 will be follow up in next inspection

Photo 1 Oil drums without drip trays were found near stockpiles



Photo 2 Water accumulation was found in drip tray near the Plant Department container



Photo 3 The dilapidation roof of site office was found to avoid the water leakage in PTW



Photo 4 Non paper material was found in paper recycle bin since last inspection



Photo 5 Non paper material was found in paper

recycle bin since last inspection



Wah Fu PTW

Notes / Issues Recorded On Site: Nil.
Corrective Actions – Mitigation Measures Implemented or Proposed (if any): Previous Environmental Site Inspection Checklist – Report No. 120529 General Housekeeping 1. Water accumulation in skip on the noise platform was cleared. (Photo 1) Current Environmental Site Inspection Checklist – Report No. 120605 Nil.

Photo 1 Water accumulation in skip on the noise platform was cleared



12 June 2012

Aberdeen PTW

Notes / Issues Recorded On Site: General Housekeeping: 1. Some trashes also found near the site boundary.(Photo 1)
Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120605

Water Quality:

1. Plant moves away from gully. (Photo 2)

General Housekeeping:

1. Water accumulation near the electric box near the fencing was reduced.

Items following are General Housekeeping in workshop and will be follow-up next inspection due to no inspection was undertaken this time.

1. In workshop, stagnant water was found in car wash bay since last inspection. (Photo 3)
2. Some trash were found within 1.5 m area from site boundary of workshop since last inspection.(Photos 4 and 5)

Current Environmental Site Inspection Checklist – Report No. 120612

General Housekeeping:

1. The contractor is strongly reminded to clear the accumulated water and prevent the accumulation in workshop.
2. The contractor is recommended to keep the site and site boundary within 1.5m tidiness (include the sanitation level of the toilet).

Water Quality:

1. The contractor is recommended to provide cover to gully to prevent the water contamination.

Photo 1 Some trashes also found near the site boundary



Photo 2 Plant moves away from gully



Photo 3 In workshop, stagnant water was found in car wash bay since last inspection



Photo 4 Some trashes were found within 1.5 m from site boundary of workshop



Photo 5 Some trashes were found within 1.5 m from site boundary of workshop



Cyberport PTW

Notes / Issues Recorded On Site:

General Refuse:

1. Empty chemical drums were accumulated near the First-Aid container since last inspection. (Photo 1)

General Housekeeping:

1. Some trashes and water accumulation was found in the stockpiles opposite of the contractor office (Photos 2 and 3), and some water accumulation was found in drip tray near the noise enclosure. (Photo 4)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120605

Chemical Storage:

1. Chemical without drip tray on the access and near the noise enclosure were removed. (Photos 5 and 6)

Current Environmental Site Inspection Checklist – Report No. 120612

General Refuse:

1. According to contractor, accumulated empty containers will be collected in coming Friday (15 June 2012).

General Housekeeping:

1. The contractor is reminded keep the site tidiness.

Photo 1 Empty chemical drums were accumulated near the First-Aid container since last inspection



Photo 2 Some trashes and water accumulation was found in the stockpiles opposite of the contractor office



Photo 3 Some trashes and water accumulation was found in the stockpiles opposite of the contractor office



Photo 4 Some water accumulation was found in drip tray near the noise enclosure



Photo 5 Chemical without drip tray on the access and near the noise enclosure were removed



Photo 6 Chemical without drip tray on the access and near the noise enclosure were removed



Fung Mat Road Site

Notes / Issues Recorded On Site:

General Housekeeping:

1. Stagnant water was found on access roads. (Photo 1)

Air Quality:

1. Sand pit without cover or pre-wetting near the noise enclosure. (Photo 2)

Previous Environmental Site Inspection Checklist – Report No. 120605

Chemical Storage:

1. Drip tray had been provided to chemical barrels near stockpiles. (Photo 3).

Current Environmental Site Inspection Checklist – Report No. 120612

General Housekeeping:

1. The contractor is reminded to clear the water accumulation in noise enclosure.

Air Quality:

1. The contractor is reminded to avoid dust emission in work areas.

Photo 1 Stagnant water was found on access roads

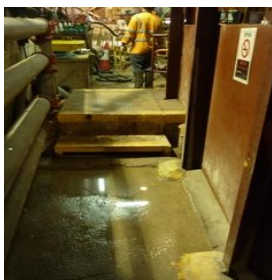


Photo 2 Sand pit without cover or pre-wetting near the noise enclosure



Photo 3 Drip tray had been provided to chemical barrels near stockpiles



Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

1. Oil drums without drip trays were found near stockpiles since inspection on 29 May 2012. (Photo 1)
2. Some unknown chemical were found near the chemical storage. (Photo 2)

General Housekeeping:

1. Water accumulation was found in drip tray near the Plant Department container since inspection on 29 May 2012. (Photo 3)
2. The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012. (Photo 4)

Waste Management:

1. Non paper material was found in paper recycle bin since inspection on 29 May 2012. (Photos 5 and 6)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120605

Environmental items were still outstanding since inspection on 29 May 2012.

Current Environmental Site Inspection Checklist – Report No. 120612

Chemical Management:

1. The contractor was reminded to provide drip trays and chemical labels for fuel container near stockpiles and chemical storage.

General Housekeeping:

1. The contractor to clear stagnant water pools in drip tray near the Plant Department container to prevent mosquito breeding.
2. According to contractor, material had been ordered with supplier and waiting for the delivery.

Waste Management:

1. The contractor was recommended to carry out good practice of recycling and workers were encouraged to separate different kind of material.

Photo 1 Oil drums without drip trays were found near stockpiles since inspection on 29 May 2012.



Photo 2 Some unknown chemical were found near the chemical storage.



Photo 3 Water accumulation was found in drip tray near the Plant Department container since inspection on 29 May 2012

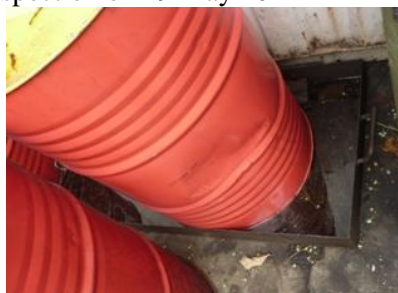


Photo 4 The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012



Photo 5 Non paper material was found in paper recycle bin since inspection on 29 May 2012



Photo 6 Non paper material was found in paper recycle bin since inspection on 29 May 2012



Wah Fu PTW

Notes / Issues Recorded On Site:

Nil.

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120606

Nil.

Current Environmental Site Inspection Checklist – Report No. 120612

Nil.

19 June 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Air Quality:

1. The shelter of the mixing plant was not properly covered. (Photo 1)

Waste Management:

1. Trash mix with soil was found near the gate. (Photo 2)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120612

The following items of General Housekeeping in workshop will be follow-up in next inspection due to no inspection was undertaken this time.

1. In workshop, stagnant water was found in car wash bay since the inspection on 5 June 2012. (Photo 1)
2. Some trashes were found within 1.5 m area from site boundary of workshop since the inspection on 5 June 2012. (Photos 2 and 3)

Current Environmental Site Inspection Checklist – Report No. 120619

General Housekeeping:

1. The contractor is strongly reminded to clear the accumulated water and prevent the accumulation in workshop.
2. The contractor is recommended to keep the site and site boundary within 1.5m tidiness (include the sanitation level of the toilet).

Air Quality:

1. The Contractor was reminded to cover the mixer plant properly.

Waste Management:

1. The contractor is reminded trash should be separate with construction waste.

Photo 3 In workshop, stagnant water was found in car wash bay and drip tray of generator



Photo 5 Some trashes were found within 1.5 m from site boundary of workshop



Photo 6 Some trashes were found within 1.5 m from site boundary of workshop



Cyberport PTW

Notes / Issues Recorded On Site:

Chemical Storage:

1. Chemical without drip tray were found on the access near the noise enclosure and near the recycle bins. (Photos 1 and 2)

Chemical Waste Management:

1. Empty barrel was found near the noise enclosure gate. (Photo 3)

General Housekeeping:

2. Some trashes and water accumulation was found in the stockpiles opposite of the contractor office. (photos 4 and 5)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120612

General Refuse:

1. Empty chemical drums near the First-Aid container had been reduced and the contractor is reminded to collect chemical waste regularly. (Photo 6)

General Housekeeping:

1. Water accumulation in drip tray was cleared.

Item of trashes accumulation in last inspection will be follow in next inspection due to no inspection had been undertaken on opposite of the contractor office

Current Environmental Site Inspection Checklist – Report No. 120619

Chemical Storage:

1. The contractor is reminded to provide drip tray to chemical on the access near the noise enclosure and near the recycle bins.

Chemical Waste Management:

1. Chemical waste near the noise enclosure gate should be storage properly.

General Housekeeping:

1. The contractor is reminded keep the site tidiness.

Photo 1 Chemical without drip tray were found on the access near the noise enclosure

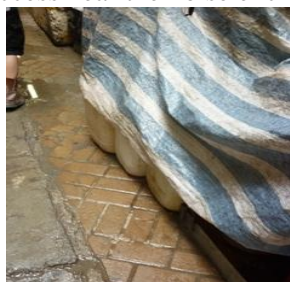


Photo 2 Chemical without drip tray was found near the recycle bins



Photo 3 Empty barrel was found near the noise enclosure gate



Photo 4 Some trashes and water accumulation was found in the stockpiles opposite of the contractor office



Photo 5 Some trashes and water accumulation was found in the stockpiles opposite of the contractor office



Photo 6 Empty chemical drums near the First-Aid container had been reduced and the contractor is reminded to collect chemical waste regularly



Fung Mat Road Site

Notes / Issues Recorded On Site:

General Housekeeping:

1. Stagnant water was found on access roads since last inspection. (Photo 1)

Waste oil management:

1. Some oil droplets were found near stockpiles in the noise enclosure. (photo 2)

Chemical Storage:

1. Chemical barrels without drip tray were found near stockpiles. (Photo 3)

Water Quality:

1. Dilapidation pile was found near the access. (Photo 4)

Previous Environmental Site Inspection Checklist – Report No. 120612

Air Quality:

1. Dust mitigation measures were implemented properly.

Current Environmental Site Inspection Checklist – Report No. 120619

General Housekeeping:

1. The contractor is reminded to clear the water accumulation in noise enclosure.

Waste oil management:

1. The contractor is suggested to clear the oil droplets and prevent oil leaking.

Chemical Storage:

1. The contractor was reminded to provide drip tray to chemical barrels near stockpiles.

Water Quality:

1. The contractor is recommended all drainage system adequate should be well maintained.

Photo 1 Stagnant water was found on access roads since last inspection



Photo 2 Some oil droplets were found near stockpiles in the noise enclosure



Photo 3 Chemical barrels without drip tray were found near stockpiles



Photo 4 Dilapidation pile was found near the access



Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

1. Some new oil barrels were found near Plants container without drip trays. (Photo 1)

General Housekeeping:

1. Water accumulation was found in drip tray near the Plant Department container since inspection on 29 May 2012. (Photo 2)
2. The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012. (Photo 3)

Waste Management:

1. Non paper material was found in paper recycle bin since inspection on 29 May 2012. (Photos 4 and 5)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120612

General Housekeeping:

1. According to contractor, material for roof of site office had been ordered with supplier and waiting for the delivery.

Chemical Management:

1. Item of unknown chemical were found near the chemical storage. (Photo 6) will be follow in next inspection since access had been blocked.

Environmental items were still outstanding since inspection on 29 May 2012.

Current Environmental Site Inspection Checklist – Report No. 120619

Chemical Management:

1. The contractor was reminded to provide drip trays and chemical labels for fuel container near Plants container.

General Housekeeping:

1. The contractor is reminded to clear stagnant water pools in drip tray near the Plant Department container to prevent mosquito breeding.

Waste Management:

1. The contractor was recommended to carry out good practice of recycling and workers were encouraged to separate different kind of material.

Photo 1 Some new oil barrels were found near Plants container without drip trays



Photo 2 Water accumulation was found in drip tray near the Plant Department container since inspection on 29 May 2012

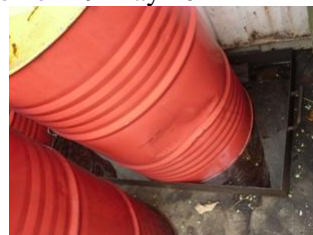


Photo 3 The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012

Photo 4 Non paper material was found in paper recycle bin since inspection on 29 May 2012



Photo 5 Non paper material was found in paper recycle bin since inspection on 29 May 2012



Photo 6 Some unknown chemical were found near the chemical storage



Wah Fu PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found on the skip on the noise cover (Photo 1). Oil and water mix was found in drip tray near the air compressor. (Photo 2)

Chemical Management:

1. Some of chemical were found without labels. (Photo 3)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120612

Nil.

Current Environmental Site Inspection Checklist – Report No. 120619

General Housekeeping:

1. The contractor is reminded to clear accumulation in skip and drip tray near the air compressor and keep the site tidiness.

Chemical Management:

1. The contractor should provide suitable labels to chemical near air compressor.

Photo 1 Water accumulation was found on the skip on the noise cover



Photo 2 Oil and water mix was found in drip tray near the air compressor



Photo 3 Some of chemical were found without labels



26 June 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Waste Management:

1. Trashes were found around the storage areas in the workshop. (Photos 1 and 2)
2. An oil barrel without drip tray was found in the workshop. (Photo 3)

General Housekeeping

1. Stagnant water pools were found in the drip tray, skip, and on the shelter of equipments in the workshop area. (Photos 4, 5 and 6)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120619

General Housekeeping:

1. The issue of water accumulation was not improved in workshop.
2. The trashes within 1.5m from the site boundary of workshop were cleared. (Photo 7 and 8)

Air Quality:

1. The mixer plant was covered properly.

Waste Management:

1. The trash was cleared from the construction waste near the gate. (Photo 9)

Current Environmental Site Inspection Checklist – Report No. 120626

General Housekeeping:

1. The contractor is strongly reminded to clear the stagnant water pools and prevent the water accumulation in the workshop.

Waste Management:

1. The contractor is recommended to keep the workshop tidiness (include the sanitation level of the toilet).
2. The contractor is reminded to provide drip trays to the oil barrels.

Photo 1 Trashes were found around the storage areas in the workshop

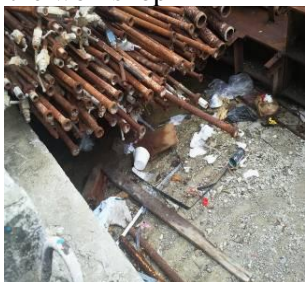


Photo 2 Trashes were found around the storage areas in the workshop.



Photo 3 An oil barrel without drip tray was found in the workshop.



Photo 4 Stagnant water pools were found in the drip tray in the workshop area.



Photo 5 Stagnant water pools were found in the skip in the workshop area.



Photo 6 Stagnant water pools were found on the shelter of equipments in the workshop area.



Photo 7 The trashes within 1.5m from the site boundary of workshop were cleared.



Photo 8 The trashes within 1.5m from the site boundary of workshop were cleared.



Photo 9 The trash was cleared from the construction waste near the gate.



Cyberport PTW

Notes / Issues Recorded On Site:

Chemical Storage:

1. Chemical without drip tray were found on the access near the noise enclosure since 19th June 2012. (Photo 1)

Waste Management:

1. Some soil droplets were found near stockpiles in the noise enclosure. (Photo 2)

General Housekeeping:

1. Some water accumulation was found in drip tray. (Photo 3)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120619

Chemical Storage:

1. Chemical without drip tray were found on the access near the noise enclosure and near the recycle bins. (Refer to photo 2)

Chemical Waste Management:

1. Empty barrel near the noise enclosure gate was removed.

General Housekeeping:

1. Some trashes and water accumulation was cleared in the stockpiles opposite of the contractor office.

Current Environmental Site Inspection Checklist – Report No. 120626

Chemical Storage:

1. The contractor is reminded to provide drip tray to chemical on the access near the noise enclosure.

General Housekeeping:

1. The contractor is reminded to clear the water accumulated in drip tray.

Photo 1 Chemical without drip tray were found on the access near the noise enclosure



Photo 2 Some soil droplets were found near stockpiles in the noise enclosure.



Photo 3 Some water accumulation was found in drip tray near the noise enclosure



Fung Mat Road Site

Notes / Issues Recorded On Site:

Air Quality:

1. Some cement bags were not properly covered. (Photo 1)

Waste oil management:

1. Some oil droplets were found near stockpiles in the noise enclosure.(Photo 2)

Chemical Storage:

1. Unlabelled chemical barrels without drip tray were found. (Photo 3)

Previous Environmental Site Inspection Checklist – Report No. 120619

Water Quality:

1. Dilapidation pile was repaired near the main access road. (Photo 4)

Waste Oil Management:

1. Some oil droplets were found near stockpiles in the noise enclosure since 19th June 2012.

General Housekeeping:

1. Stagnant water was cleared on the access roads.

Current Environmental Site Inspection Checklist – Report No. 120626

Air Quality:

1. The contractor is reminded to cover the cement bags properly.

Waste Oil Management:

1. The contractor is suggested to clear the oil droplets and prevent oil leaking.

Chemical Storage:

1. The contractor was reminded to provide drip tray to chemical barrels in the noise enclosure area.

General Housekeeping:

1. The contractor is reminded to clear the water accumulation in noise enclosure.

Photo 1 Some cement bags were not properly covered



Photo 2 Some oil droplets were found near stockpiles in the noise enclosure



Photo 3 Unlabelled chemical barrels without drip tray were found in the noise enclosure area



Photo 4 Dilapidation pile was repaired near the main access road



Sandy Bay PTW

Notes / Issues Recorded On Site:

Chemical Management:

1. Chemicals were found outside the chemical storage area. (Photo 1)
2. Liquid state battery was stored improperly near the fuel storage area. (Photo 2)
3. Chemical storage area was unlocked during inspection. (Photo 3)
4. Oil contaminated soils were found near the fuel storage area. (Photo 4)

General Housekeeping:

1. Water accumulation on the top of the empty oil barrels and in the drip tray for containing oil droplet were found on the fuel storage area. (Photo 5 and 6)
2. The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012. (Photo 7)

Waste Management:

1. Non paper material was found in paper recycle bin since inspection on 29 May 2012. (Photo 8)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 120619

General Housekeeping:

1. The oil drums without drip trays.
2. The item of dilapidation roof was still outstanding. The contractor will arrange the worker to repair the dilapidation roof.

Waste Management:

1. Non paper material was found in paper recycle bin since inspection on 29 May 2012.

Current Environmental Site Inspection Checklist – Report No. 120626

Chemical Management:

1. The contractor was reminded to storage of the chemicals and battery in the designated areas.
2. The contractor was reminded to remove the oil contaminated soils as far as possible and utilize the sandy packs to prevent leakage of oil into soil.

General Housekeeping:

1. The contractor is reminded to clear stagnant water on the oil barrels and in drip tray for containing oil droplet on the fuel storage area. That aims to prevent mosquito breeding.

Waste Management:

1. The contractor was recommended to carry out good practice of recycling and workers were encouraged to separate different kind of material.

Photo 1 Chemicals were found outside the chemical storage area.



Photo 2 Liquid state battery was stored improperly near the fuel storage area.



Photo 3 Chemical storage area was unlocked during inspection.

Photo 4 Fuel contaminated soil was found near the fuel storage area.



Photo 5 Water accumulation on the top of the empty oil barrels in the fuel storage area



Photo 6 Water accumulation in the drip tray for containing oil droplet was found in the fuel storage area.



Photo 7 The dilapidated roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012



Photo 8 Non paper material was found in paper recycle bin since inspection on 29 May 2012.



Wah Fu PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found on the public access pathway near the site boundary. (Photo 1)
2. Oil and water mix was found in drip tray near the air compressor (Photo 2)

Chemical Management:

1. Some of chemical were found without labels in the skip. (Photo 3)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

Previous Environmental Site Inspection Checklist – Report No. 190612

General Housekeeping:

1. Water accumulation issue was improved on the skip on the noise cover. (Photo 4)
2. Oil and water mix was found in drip tray near the air compressor since site inspection on 19th June 2012.

Chemical Management:

1. Some of chemical were found without labels since site inspection on 19th June 2012.

Current Environmental Site Inspection Checklist – Report No. 260612

General Housekeeping:

1. The contractor is reminded to clear accumulation in the drip tray near the air compressor and keep the affected public access pathway tidiness.

Chemical Management:

1. The contractor should provide suitable labels to chemical.

Photo 1 Water accumulation was found on the public access pathway that is 1.5m from the site boundary.



Photo 2 Oil and water mix was found in drip tray near the air compressor



Photo 3 Some of chemical were found without labels near the air compressor.



Photo 4 Some of chemical were found without labels in the skip.



Contract No. DC/2007/24
Harbour Area Treatment Scheme Stage 2A
Construction of Sewage Conveyance System
From Aberdeen to Sai Ying Pun

Comments and Responses

Submission Title: Quality EM&A Report (EMA/038) A

Comments	Designer (Atkins)'s Responses
<p>Independent Environmental Checker E-mail Date : 23 July 2012</p>	
<p>1 Executive Summary :</p>	
<p>Please change the following bullet "<i>At least once air monitoring in every six-days</i>" to "air quality monitoring at least once every six days".</p>	<p>Noted and the sentence has been revised.</p>
<p>2 Section 1.1: Basic Project information</p>	
<p>Please provide synopsis of the project programme in accordance with Section 15.10ii of the EM&A Manual.</p>	<p>The synopsis of the project programme was presented on section 1.3.</p>
<p>3 Section 1.3: Work undertaken during the Reporting Period</p>	
<p>Reference to figures 2.1 to 2.7 should be for information on location of site, monitoring stations and sensitive receivers. At presents the section reads as though information about the major construction activities are provided in these figures. Please amend.</p>	<p>Figures 2.1 to 2.7 have also shown the locations of construction activities that have been carrying out on the different sites. Thus, the reference to those figures has been remained.</p>
<p>4 Table 3.1:</p>	
<p>Please amend volume ('000 m4) to '000m3.</p>	<p>Noted and revised.</p>
<p>5 Section 4.1:</p>	
<p>Please complete/deselect Yellow highlighted text.</p>	<p>Noted and the yellow highlighted parts has been updated on section 4.1</p>
<p>6 Section 5:</p>	
<p>The following statement "<i>There was no environmental prosecution or non-compliance attributable to the Project works during the reporting period. No environmental prosecution</i></p>	<p>Notes and the sentence of "No environmental prosecution or summons was received during the reporting period." has been deleted.</p>

Comments	Designer (Atkins)'s Responses
<p><i>or summons was received during the reporting period.</i>” repeats ‘no environmental prosecution’. Please amend.</p>	
<p>7 Figures 2.1 to 2.7:</p>	
<p>Please indicate the locations of sensitive receivers (in addition to monitoring locations) in accordance with Section 15.10iv of the EM&A Manual.</p>	<p>We have already indicated the locations of sensitive receivers in Figures 2.1 to 2.7. The SRs' locations have been shown as five-pointed star in the figures. The legend has been presented on the upper right of the figures.</p>
<p>8 Appendix G:</p>	
<p>Please be reminded to provide Landscape and Visual Monitoring Report.</p>	<p>Noted and the Quarterly Landscape and Visual Monitoring Report has been enclosed as Appendix G in the quarterly report.</p>
<p>9 Appendix F:</p>	
<p>Graphical plots of the monitored parameters should be provided for the previous Four months (to include the last month of the previous reporting quarter), in accordance with Section 15.10v of the EM&A Manual.</p>	<p>We have already provided the charts which included the monitored parameters from 1 March to 30 June 2012 (totally four months).</p>