Document Details			
Client	**Drainage Services Department**		
Project	**Contract No. DC/2007/24 Harbour Area Treatment Scheme Stage 2A Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun**		
Document Title	**Quarterly Environmental Monitoring and Audit Report No. 11 Covering the Period from 1 July 2012 to 30 September 2012**		
Document No.	**EMA/042**		

Distribution			
Copy No.	**Issued To**	**Copy No.**	**Issued To**
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09	DSD		

Submission Ref		Controlled Copy No.
SUBM Ref.		
Atkins Ref.(s)	DC/2007/24/31.20/OG3882/EC/SH/EY	

Revision History					
B	31 October 2012	Submission to IEC and ER for Further Review	Various	Susana Halliday	Eric Chui
A	29 October 2012	Submission to IEC and ER for Review	Various	Susana Halliday	Eric Chui
Rev.	**Date**	**Description**	**Prepared**	**Checked & Reviewed**	**Approved**

LEIGHTON 禮頓 | LNS | Leighton - LNS Joint Venture | ATKINS

Rev.

B

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 – 46

Reference ~~Procedure~~/Document~~/Plan~~

Document/~~Plan/Changes/Information to be~~ Certified/ Verified:	Quarterly Environmental Monitoring and Audit Report No.11 (EMA/042, Rev B)
Date of Report:	31 October 2012
Date of correspondence to IEC:	31 October 2012
Date received:	31 October 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: 31 October 2012

Mott MacDonald

Our ref KMY/AFK/FY/TK/bw/T261332/22.01/L-0463
T 2828 5757
E Anne.Kerr@mottmac.com.hk
Your ref -

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

31 October 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 11th Quarterly EM&A Report for July to September 2012 (Rev. B)

We refer to the 11th Quarterly EM&A Report for July to September 2012 (Rev. B) received on 31 October 2012 and we confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED

P.P.

Dr. Anne F Kerr
Independent Environmental Checker

c.c.	AECOM	Mr. Simon Mui	By email
	Leighton – LNS JV	Mr. Kevin Herman	By email
	Atkins	Ms. Susana Bezy	By email

EXECUTIVE SUMMARY

This is the Eleventh 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 July 2012 to 30 September 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. 11, eighteen non-project related Limit Level (LL) exceedances in noise criteria were recorded on 5, 8, 10, 19 and 26 July 2012; 2nd, 5th, 17th, 22th and 30th August 2012; 2th, 5th, 11th,19th and 25th September 2012. One non-project related Action Level (AL) exceedances in 1-hour TSP criteria was recorded on 6Th and 28th August 2012.

One non-project related LL exceedance was recorded during the restricted hours (evening time) monitoring at station M5a (near the entrance of Chuk Lam Ming Tong) on 25th September 2012.
Three 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 8July, 5 August and 2nd September 2012.
Five 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 10 and 26 July, 22 August, and 5th and 25th September 2012.
Three non-project related LL exceedances were recorded during the restricted hours (night time) monitoring at station M6a (Aegean Terrace) on 5 July, 17 August and 11th September2012. And
Four 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 19 July, 2 and 30th August and 19th September2012.
Two non-project related AL exceedance of 1-hr TSP was recorded on 8 August 2012 (Station CM_WF1a, Wah Ming House), and on 28 August 2012(Station CM_CB1a, the Arcade, Cyberport).

A summary of exceedance is provided in the table below.

Date of Exceedance	Monitoring Location	Exceedance	Details
5 July 2012	M6a, Aegean Terrace	Limit Level exceedance 52.9dB(A) during night time	Exceedance was considered to be non-project related.

8 July 2012	M5a, near the entrance of Chuk Lam Ming Tong	Limit Level exceedance 62.0dB(A) during daytime and evening time in general holiday	Exceedance was considered to be non-project related.
10 July 2012	M5a, near entrance of Chuk Lam Ming Tong	Limit Level exceedance 61.0dB(A) during night time	Exceedance was considered to be non-project related.
19 July 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.
26 July 2012	M5a, near the entrance of the Chuk Lam Ming Tong	Limit Level exceedance 59.0dB(A) during night time	Exceedance was considered to be non-project related.
2 August 2012	M3, Kwan Yick building Phase III	Limit Level exceedance 65.4dB(A) during night time	Exceedance was considered to be non-project related.
5 August 2012	M5a, near entrance of Chuk Lam Ming Tong	Limit Level exceedance 63.3 dB(A) during daytime and evening time in general holiday	Exceedance was considered to be non-project related.
8August 2012	Station CM_WF1a, Wah Ming House	1-hr TSP Action Level exceedance 332.8 $\mu g/m^3$	Exceedance was considered to be non-project related.
17 August 2012	M6a, Aegean Terrace	Limit Level exceedance 52.2dB(A) during night time	Exceedance was considered to be non-project related.
22 August 2012	M5a, near the entrance of Chuk Lam Ming Tong	Limit Level exceedance 60.4dB(A) during night time	Exceedance was considered to be non-project related.
28 August 2012	Station CM_CB1a, the Arcade, Cyberport	1-hr TSP Action Level exceedance 379.3 $\mu g/m^3$	Exceedance was considered to be non-project related
30 August 2012	M3, Kwan Yick Building Phase III	Limit Level exceedance 65.0dB(A) during night time	Exceedance was considered to be non-project related
2 September 2012	M5a, near entrance of Chuk Lam Ming Tong	Limit Level exceedance 65.6 dB(A) during daytime and evening of general holiday	Exceedance was considered to be non-project related.
5 September 2012	M5a, near entrance of Chuk Lam Ming Tong	Limit Level exceedance 57.5 dB(A) during night time	Exceedance was considered to be non-project related.
11 September 2012	M6a, Aegean Terrace	Limit Level exceedance 53.9 dB(A) during night time	Exceedance was considered to be non-project related.
19 September 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
25 September 2012	M5a, near entrance of Chuk Lam Ming Tong	Limit Level exceedance 64.0 dB(A) during evening time	Exceedance was considered to be non-project related.
25 September 2012	M5a, near entrance of Chuk Lam Ming Tong	Limit Level exceedance 61.5 dB(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 4, 10, 17, 27 and 31 July 2012; 7, 14, 21 and 29 August 2012; 4th,11th,18th and 25th September 2012 with Independent Environmental Checker's participation on 17 July 2012, 14 August 2012 and 18th September 2012.

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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):

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/m³		24-hour TSP Level, µg/m³	
	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 m³)					
July 2012	12.619	0	0	7.203	5.416	0
August 2012	16.916	0	0	3.501	13.415	0
September 2012	13.211	0	0	5.686	7.525	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 m³)	
July 2012	8.990	0.137	0.026	1.800	0.020	
August 2012	3.320	0.242	0	1.200	0.023	
September 2012	4.750	0.199	0	1.800	0.025	

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 27 July 2012, 28 August 2012 and 25 September 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. The summary of vibration monitoring for reporting period is provided in the table 3.2.

3.5 Cultural Heritage

There were tunneling/ blasting works (Tunnel M) carried out during July, August and September. 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)	6 July 2012	130	0.44	25
2.	Felix Villas (HATS 23)	12 July 2012	130	0.37	25
3.	Felix Villas (HATS 23)	17 July 2012	130	0.74	25
4.	Felix Villas (HATS 23)	18 July 2012	130	0.59	25
5.	Felix Villas (HATS 23)	19 July 2012	130	0.31	25
6.	Felix Villas (HATS 23)	21 July 2012	130	0.50	25
7.	Felix Villas (HATS 23)	28 July 2012	130	No data (below trigger level)*	25
8.	Felix Villas (HATS 23)	30 July 2012	130	0.53	25
9	Felix Villas (HATS 23)	31 July 0212	130	0.51	25
10	Felix Villas (HATS 23)	03 August 2012	130	0.54	25
11	Felix Villas (HATS 23)	16 August 2012	130	0.43	25
12	Felix Villas (HATS 23)	18 August 2012	130	0.65	25
13	Felix Villas (HATS 23)	23 August 2012	130	0.47	25
14	Felix Villas (HATS 23)	23 August 2012	130	0.53	25
15	Felix Villas (HATS 23)	25 August 2012	130	0.63	25
16	Felix Villas (HATS 23)	27 August 2012	130	0.81	25

17	Felix Villas (HATS 23)	27 August 2012	130	0.61	25
18	Felix Villas (HATS 23)	29 August 2012	130	0.27	25
19	Felix Villas (HATS 23)	03 September 2012	130	0.82	25
20	Felix Villas (HATS 23)	04 September 2012	130	0.65	25
21	Felix Villas (HATS 23)	05 September 2012	130	0.68	25
22	Felix Villas (HATS 23)	06 September 2012	130	0.45	25
23	Felix Villas (HATS 23)	08 September 2012	130	0.43	25
24	Felix Villas (HATS 23)	10 September 2012	130	0.49	25
25	Felix Villas (HATS 23)	11 September 2012	130	No data (below trigger level)*	25
26	Felix Villas (HATS 23)	13 September 2012	130	No data (below trigger level)*	25
27	Felix Villas (HATS 23)	13 September 2012	130	0.51	25
28	Felix Villas (HATS 23)	17 September 2012	130	0.38	25
29	Felix Villas (HATS 23)	18 September 2012	130	No data (below trigger level)*	25
30	Felix Villas (HATS 23)	19 September 2012	130	0.52	25
31	Felix Villas (HATS 23)	20 September 2012	130	0.68	25
32	Felix Villas (HATS 23)	24 September 2012	130	0.97	25
33	Felix Villas (HATS 23)	26 September 2012	130	0.68	25
34	Felix Villas (HATS 23)	27 September 2012	130	No data (below trigger level)*	25
35	Felix Villas (HATS 23)	28 September 2012	130	0.46	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. 11, , eighteen non-project related Limit Level (LL) exceedances in noise criteria were recorded on 5, 8, 10, 19 and 26 July 2012; 2nd, 5th, 17th, 22th and 30th August 2012; 2th, 5th, 11th,19th and 25th September 2012. Two non-project related Action Level (AL) exceedances in 1-hour TSP criteria were recorded on 8th and 28th August 2012.

One non-project related LL exceedance was recorded during the restricted hours (evening time) monitoring at station M5a (near the entrance of Chuk Lam Ming Tong) on 25th September 2012.
Three 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 8July, 5 August and 2nd September 2012.
Five 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 10 and 26 July, 22 August, and 5th and 25th September 2012.
Three non-project related LL exceedances were recorded during the restricted hours (night time) monitoring at station M6a (Aegean Terrace) on 5 July, 17 August and 11th September2012. And Four 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 19 July, 2 and 30th August and 19th September2012.
Two non-project related AL exceedance of 1-hr TSP was recorded on 8 August 2012 (Station CM_WF1a, Wah Ming House), and on 28 August 2012(Station CM_CB1a, the Arcade, Cyberport).

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 27 July 2012, a metal bar was still tied to a branch of the retained tree T065(R) in Cyberport site.

The retained tree T074(R) was still not properly tagged and marking was also observed on the tree trunk. The Contractor was asked again to provide a proper identification tag for the retained tree and not to make any marking on the tree surfaces.

The retained tree T038(R) and T053(R) in Sandy Bay site were still deteriorating with damages to their stems and foliage since the audit of September and November 2011. Identification tags for the retained trees T045(R), T021(R), T027(R), T36(R) and T038(R) were still missing. No proper protection zone has been provided to the retained tree T038(R).
Construction materials and a cable were hanging from the tree branches of the retained tree T027(R).

The retained tree T076(R) and T083(R) in Aberdeen site were in very poor health. The conditions of the retained trees T078(R), T079(R) and T080(R) have been deteriorating since the audit of November 2011. The retained tree T081 and T084 (Photos 9 & 11) still did not have proper identification tags. The Contractor was asked to provide proper identification tags for the retained trees

On 28 August 2012, the identification tag for the retained tree T066(R) at Cyberport site was missing.

In Sandy Bay site, a new wound was observed on the tree trunk of the transplanted tree T038 (T). Construction materials were stored close to the tree trunk of the retained tree T044 (R). The identification tag for the retained tree T046 (R) was still missing. In addition, construction materials and cable were hanging from the tree branches of the retained trees T021 (R) and T028(R).

In the Aberdeen site, construction materials were stored close to the tree trunk of the transplanted tree T003 (T) and new wound was observed on the tree trunk. As well as, construction materials were stored very close to the root area of the retained tree T084 (R).

On 25 September 2012, Excessive amounts of weeds were growing within the root zone of the retained tree T66(R) (Photo 19). The Contractor was asked to remove the weeds.
A tarpaulin sheet was hung from the branch of the retained tree T72(R) using a rope (Photo 20). The Contractor was asked to remove the tarpaulin sheet.

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 17 July, 14 August and 18 September 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

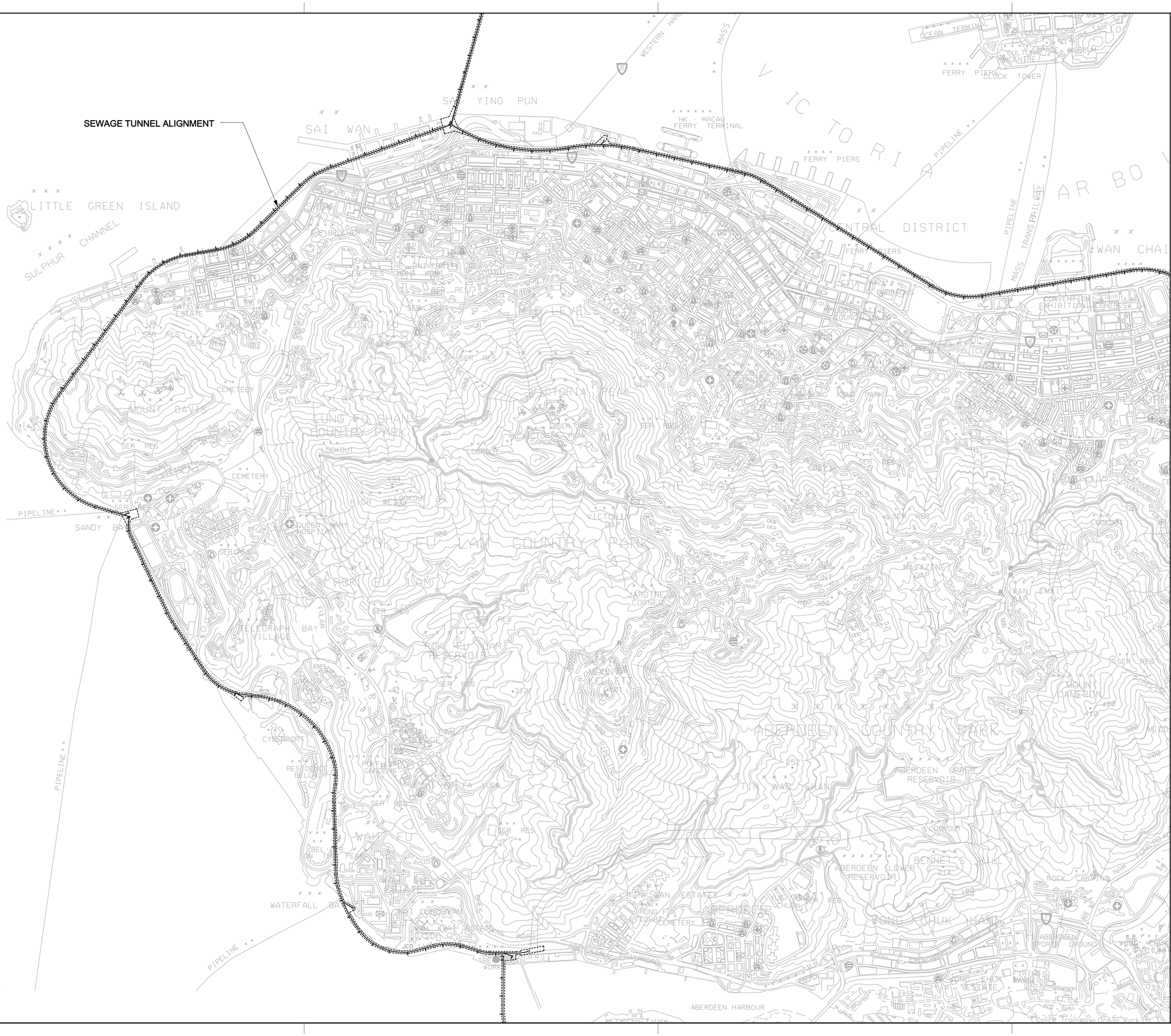
5. CONCLUSION

This is the Eleventh 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 July 2012 to 30 September 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



Rev	Description	Date	Dgn	Chk	Auth
A	FIRST ISSUE	03/02	SC	SB	EC

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

Metcalf & Eddy – AECOM Joint Venture

Main Contractor

LEIGHTON 禮頓 LNS

Leighton - LNS Joint Venture

Designer

ATKINS

Drawing title

OVERALL LAYOUT PLAN

Designed: SC	Scale at A3: N.T.S.
Drawn: AC	Status: Quarterly EM&A Report
Checked: SB	
Authorised: EC	Figure No.: 1.1
CAD ref.: 4417-EM-FIG-1-1.dgn	Rev.: A

100mm

A1 841mm x 594mm

Print : chew8306 Time : 14:43:58 03/02/2010
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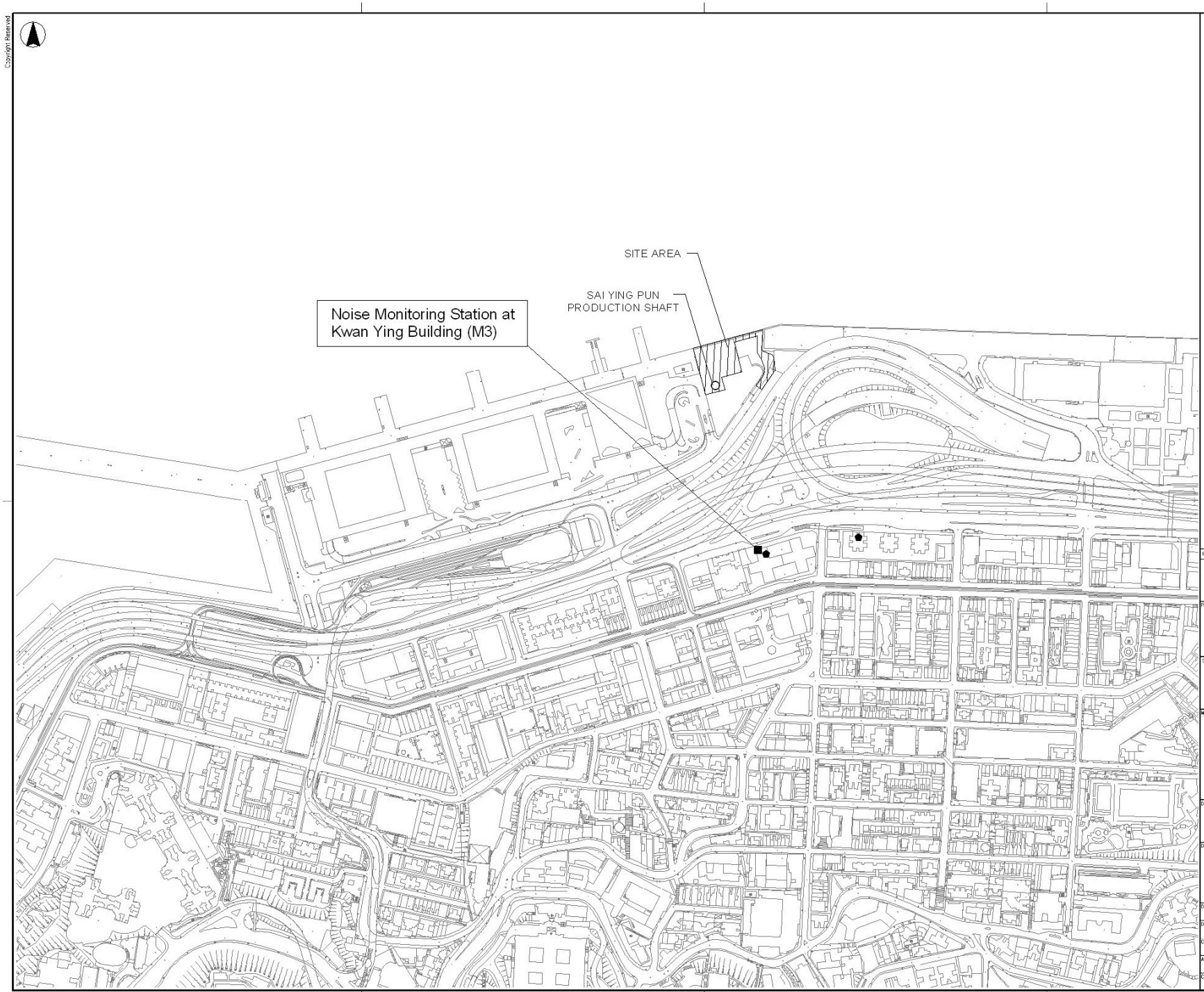


LEGEND
- NOISE MONITORING STATION
- NOISE SENSITIVE RECEIVERS

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

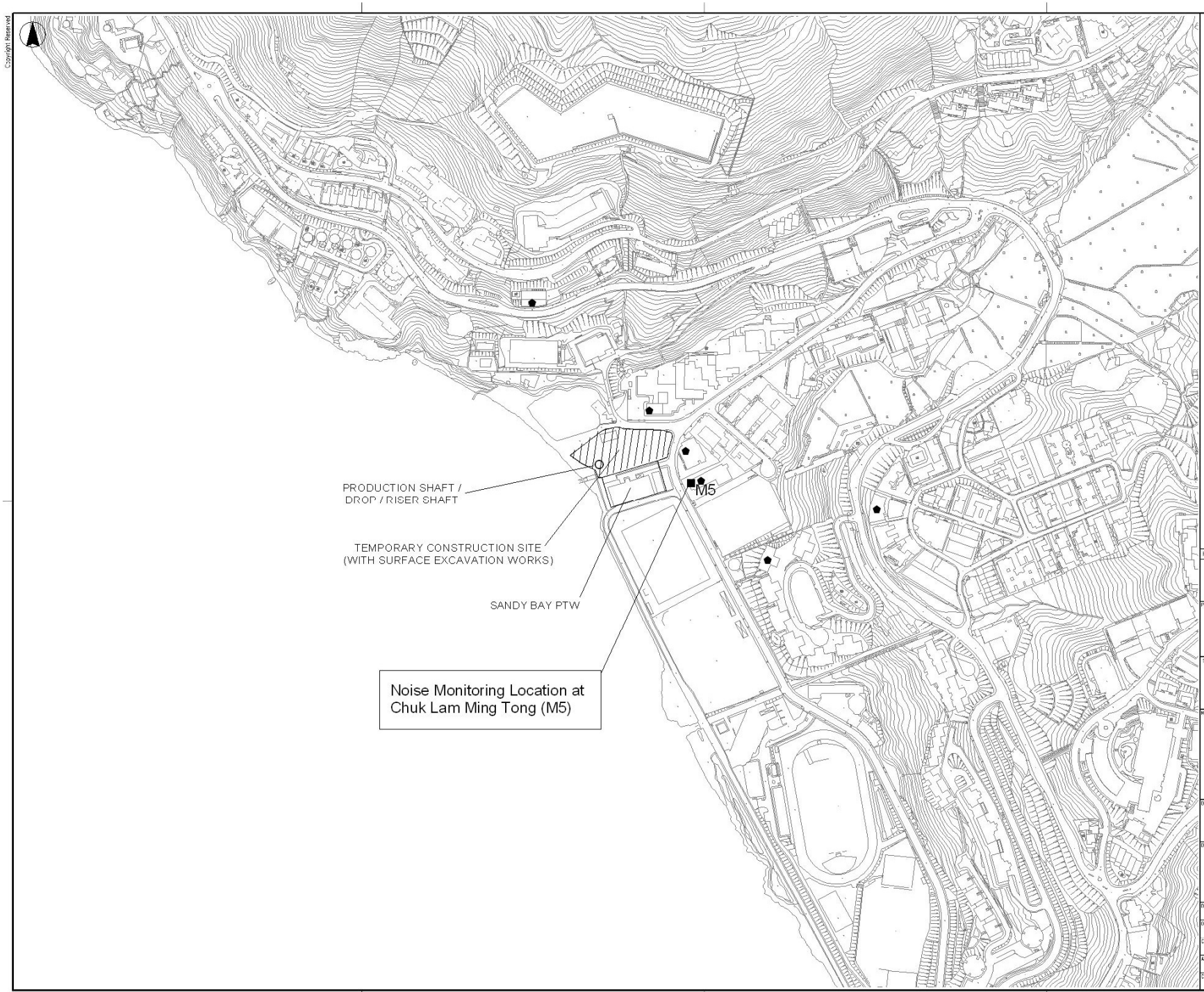
Supervising Officer: AECOM
Metcalf & Eddy – AECOM Joint Venture

Main Contractor: Leighton - LNS Joint Venture

Designer: ATKINS

Drawing Title
CONSTRUCTION NOISE
MONITORING STATION
AT FUNG MAT ROAD SITE

Designed | Scale at A1
Drawn | Status: Quarterly EM&A Report
Checked
Authorised | Drawing No. 2.1 | Rev. A
CAD ref.



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 Officer

AECOM

Metcalf & Eddy – AECOM Joint Venture

Main Contractor

Leighton - LNS Joint Venture

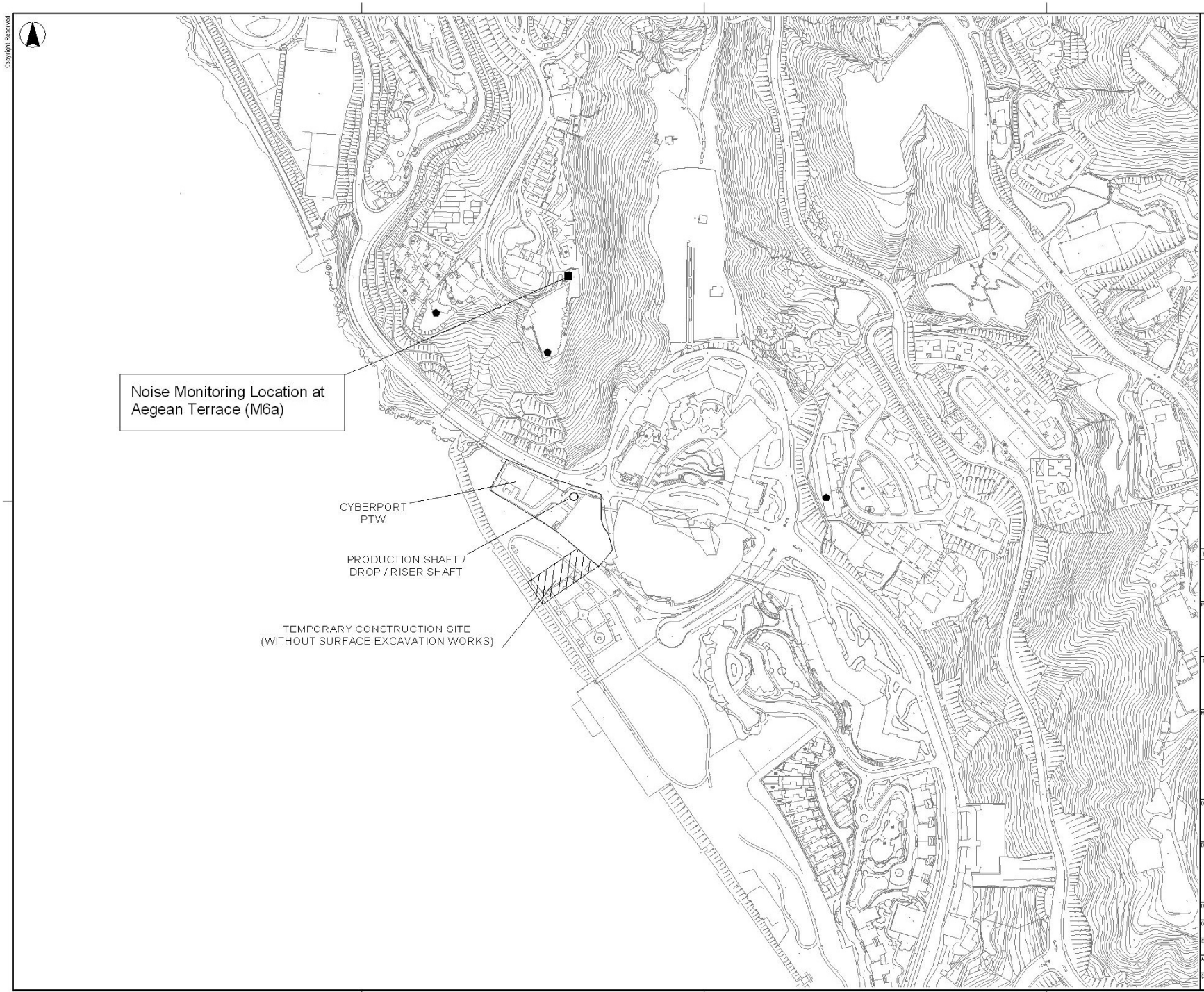
Designer

ATKINS

Drawing Title

CONSTRUCTION NOISE MONITORING STATION AT SANDY BAY PTW

Designed	Scale at A1
Drawn	Status
Checked	Quarterly EM&A Report
Authorised	Drawing No. 2.2
CAD ref.	Rev. A



LEGEND

■ NOISE MONITORING STATION

⬟ NOISE SENSITIVE RECEIVERS

0 50 100 150 Meters

Rev	Description	Date	Dgn	Chk	Auth

政務署
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

Metcalf & Eddy – AECOM Joint Venture

Main Contractor

LEIGHTON 禮和 LNS

Leighton - LNS Joint Venture

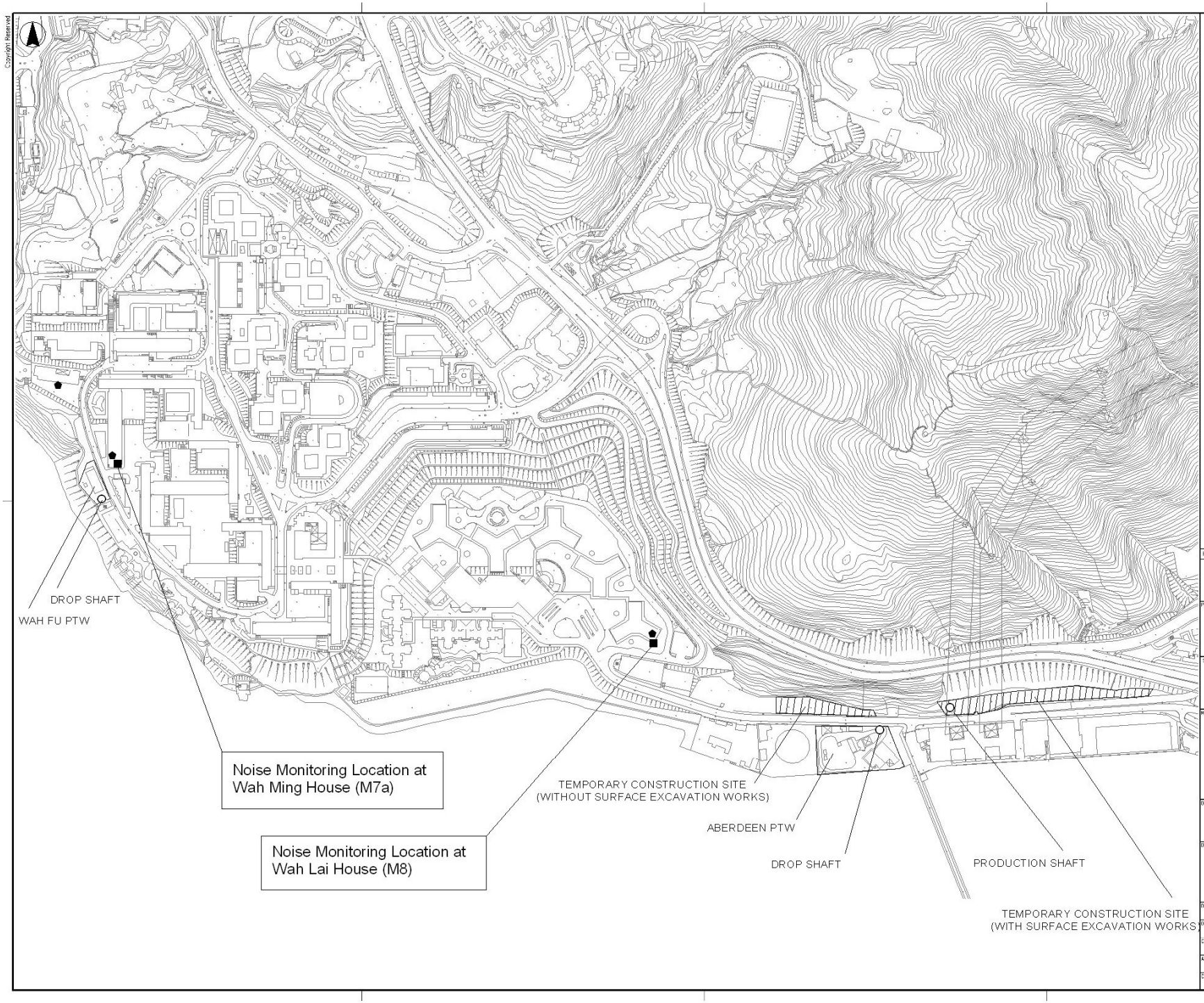
Designer

ATKINS

Drawing title

CONSTRUCTION NOISE MONITORING STATION AT CYBERPORT PTW

Designed	Scale at A1
Drawn	Status
Checked	Quarterly EM&A Report
Authorised	Drawing no. 2.3
CAD ref.	Rev. A



Copyright Reserved

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 Officer

AECOM

Metcalf & Eddy – AECOM Joint Venture

Main Contractor

LEIGHTON 禮和 LNS

Leighton - LNS Joint Venture

Designer

ATKINS

Drawing title

CONSTRUCTION NOISE MONITORING STATION AT WAH FU AND ABERDEEN PTW

Designed	Scale at A1
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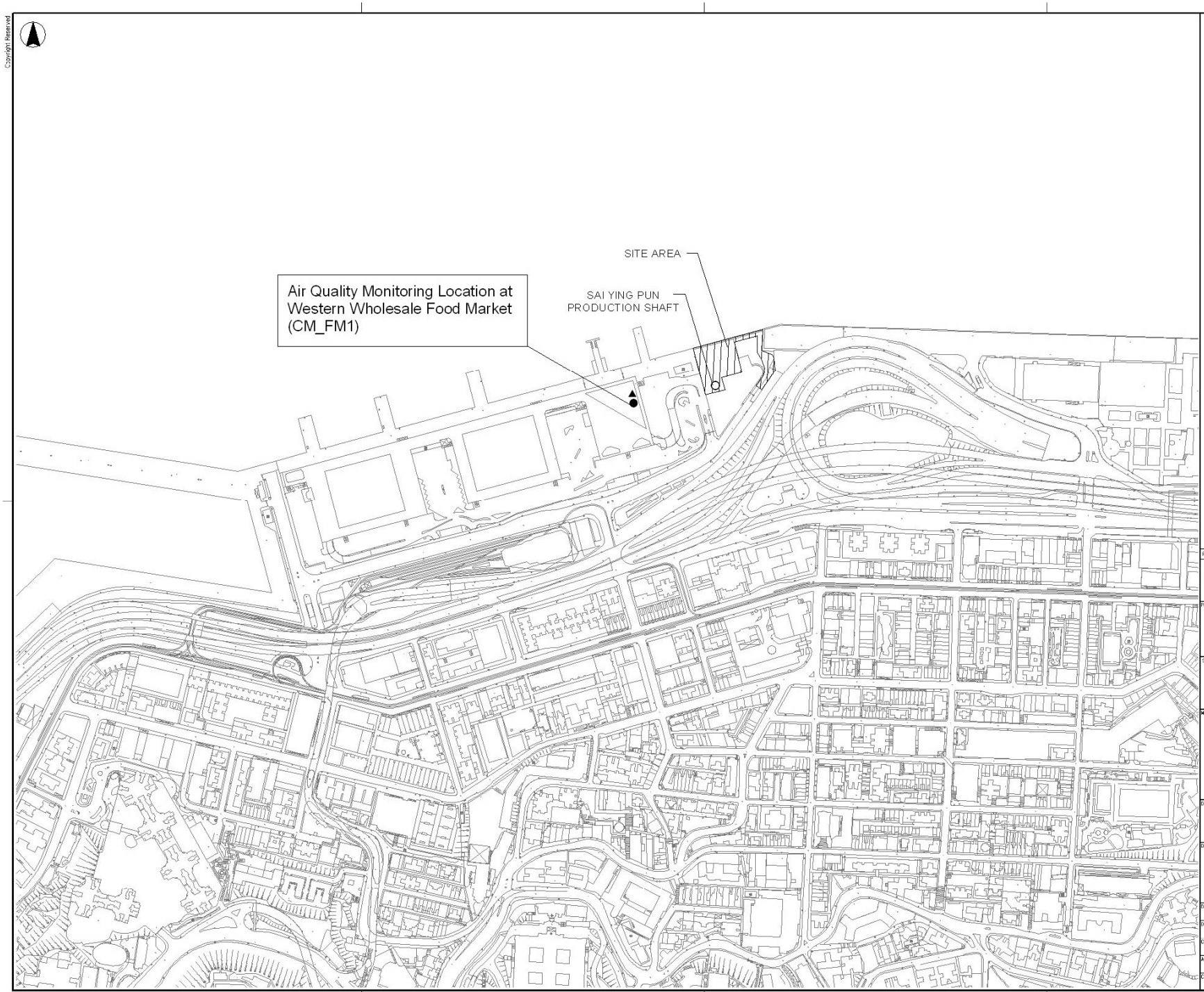
Checked	
Authorised	Drawing no.: 2.4
CAD ref.	Rev.: A



LEGEND
- ▲ AIR SENSITIVE RECEIVERS
- ● DUST MONITORING STATION

0 50 100 150 Meters

Rev	Description	Date	Dgn	Chk	Auth

土木工程拓展署
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
Metcalf & Eddy – AECOM Joint Venture

Main Contractor
LEIGHTON 禮頓 LNS
Leighton - LNS Joint Venture

Designer
ATKINS

Drawing Title
CONSTRUCTION DUST
MONITORING STATION
AT FUNG MAT ROAD SITE

Designed	Scale at A1	
Drawn	Status	
Checked	Quarterly EM&A Report	
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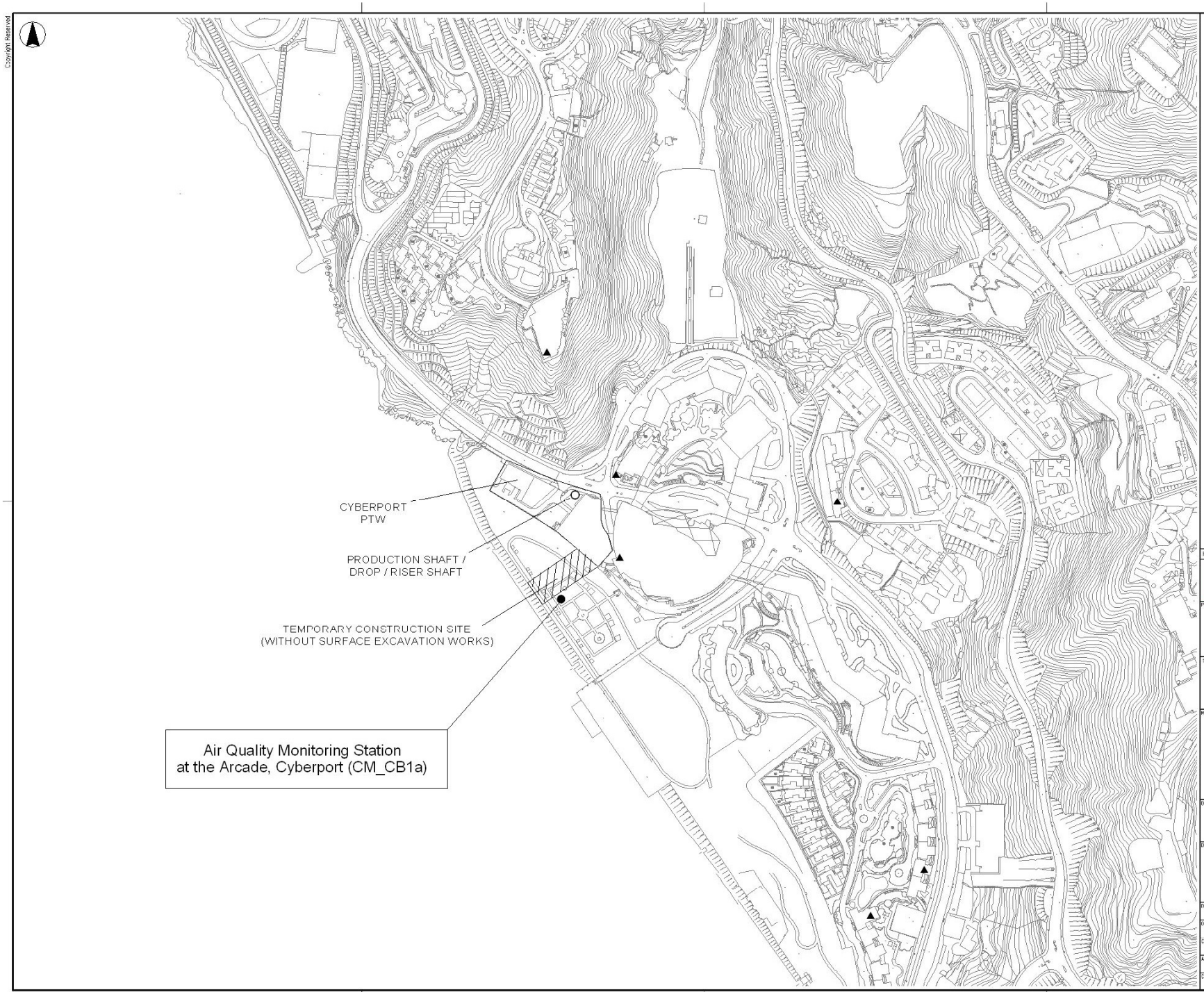

LEGEND

▲ 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 Officer

AECOM

Metcalf & Eddy – AECOM Joint Venture

Main Contractor

LEIGHTON 禮和 LNS

Leighton - LNS Joint Venture

Designer

ATKINS

Drawing Title

CONSTRUCTION DUST
MONITORING STATION AT
CYBERPORT PTW

Designed	Scale at A1
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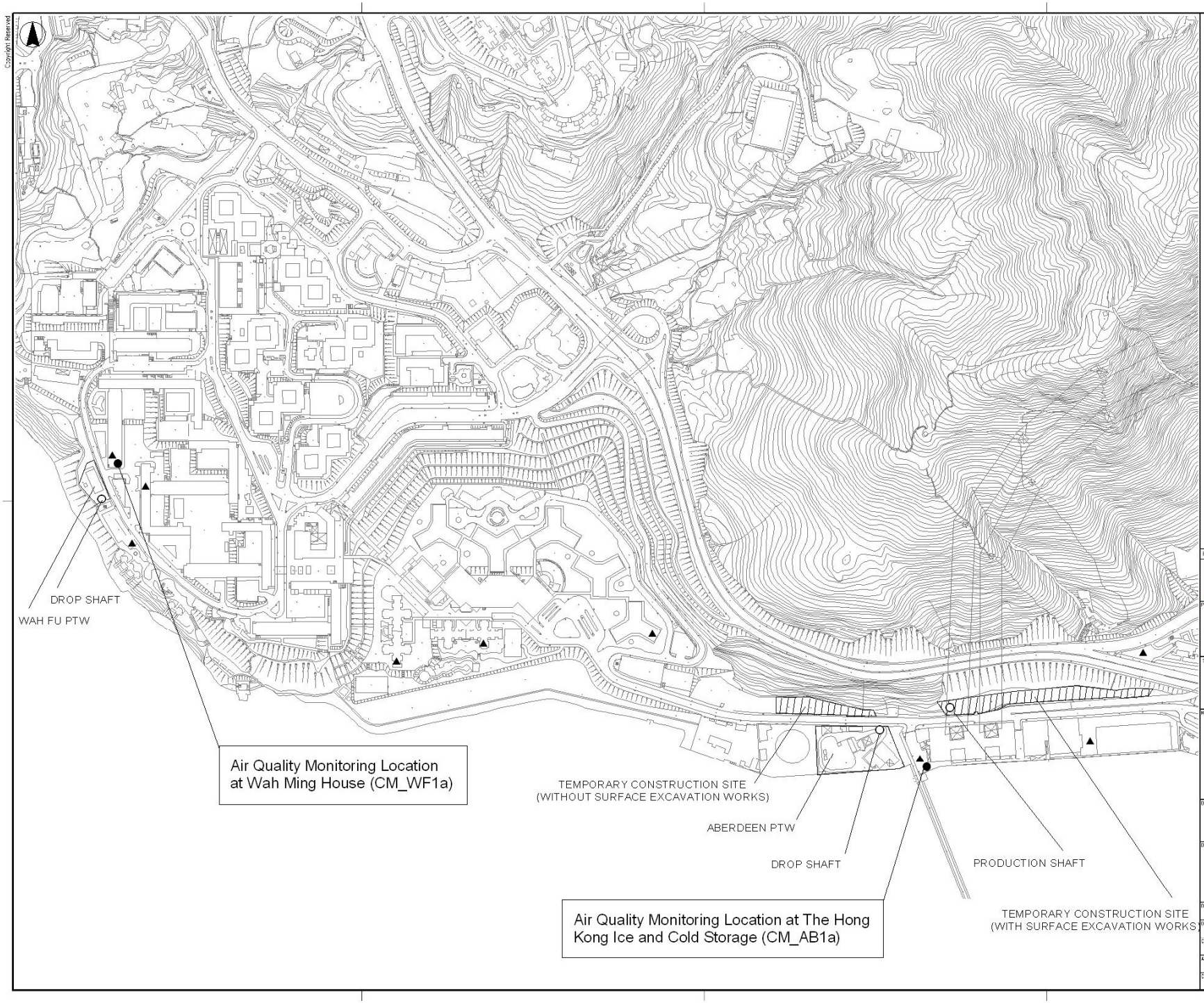
Checked	Quarterly EM&A Report
Authorised	Drawing No. 2.6
CAD ref.	Rev. A



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

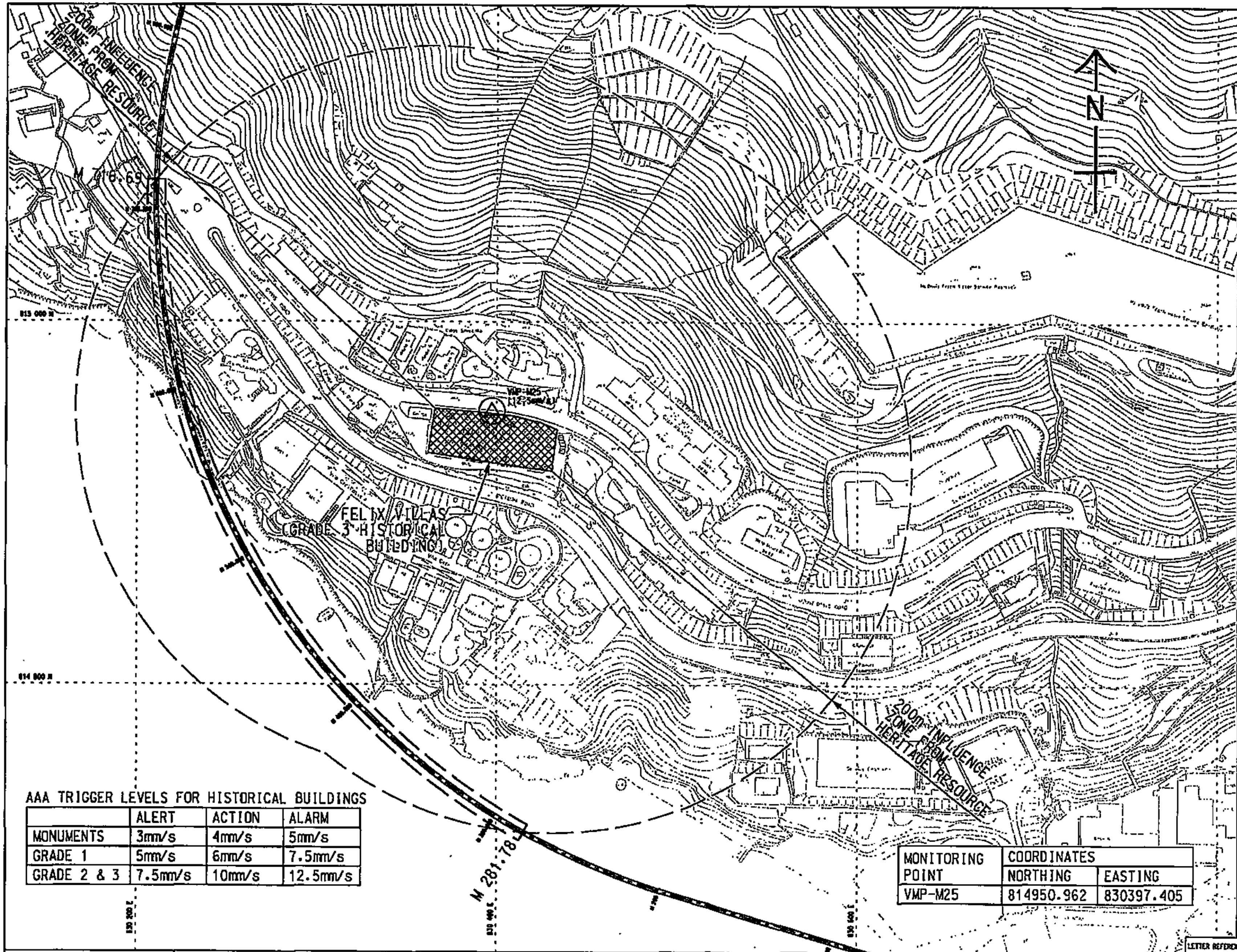
Supervising Officer
AECOM
Metcalf & Eddy - AECOM Joint Venture

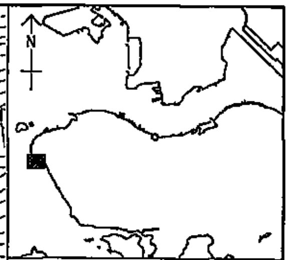
Main Contractor
Leighton - LNS Joint Venture

Designer
ATKINS

Drawing Title
CONSTRUCTION DUST MONITORING STATION AT WAH FU AND ABERDEEN PTW

Designed | Scale at A1
Drawn | Status: Quarterly EM&A Report
Checked
Authorised | Drawing No. A-72 | Rev. A
CAD ref.





LOCATION PLAN

NOTES:

1. VIBRATION MONITORING ON HERITAGE STRUCTURES AS SHOWN FOR EVERY BLAST SHALL BE CARRIED OUT WHEN TUNNEL FACES ARE BETWEEN TUNNEL CHAINAGE M281.78 - M716.69.

LEGEND:

VMP-J1 — VIBRATION MONITORING POINT

(25mm/s) — MAXIMUM ALLOWABLE GROUND VIBRATION TO THE CORRESPONDING VIBRATION MONITORING POINTS

HERITAGE STRUCTURE

INFLUENCE ZONE FROM HERITAGE RESOURCE

AAA TRIGGER LEVELS FOR HISTORICAL BUILDINGS

	ALERT	ACTION	ALARM
MONUMENTS	3mm/s	4mm/s	5mm/s
GRADE 1	5mm/s	6mm/s	7.5mm/s
GRADE 2 & 3	7.5mm/s	10mm/s	12.5mm/s

MONITORING POINT	COORDINATES	
	NORTHING	EASTING
VMP-M25	814950.962	830397.405

FOR CONSTRUCTION

AECOM

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

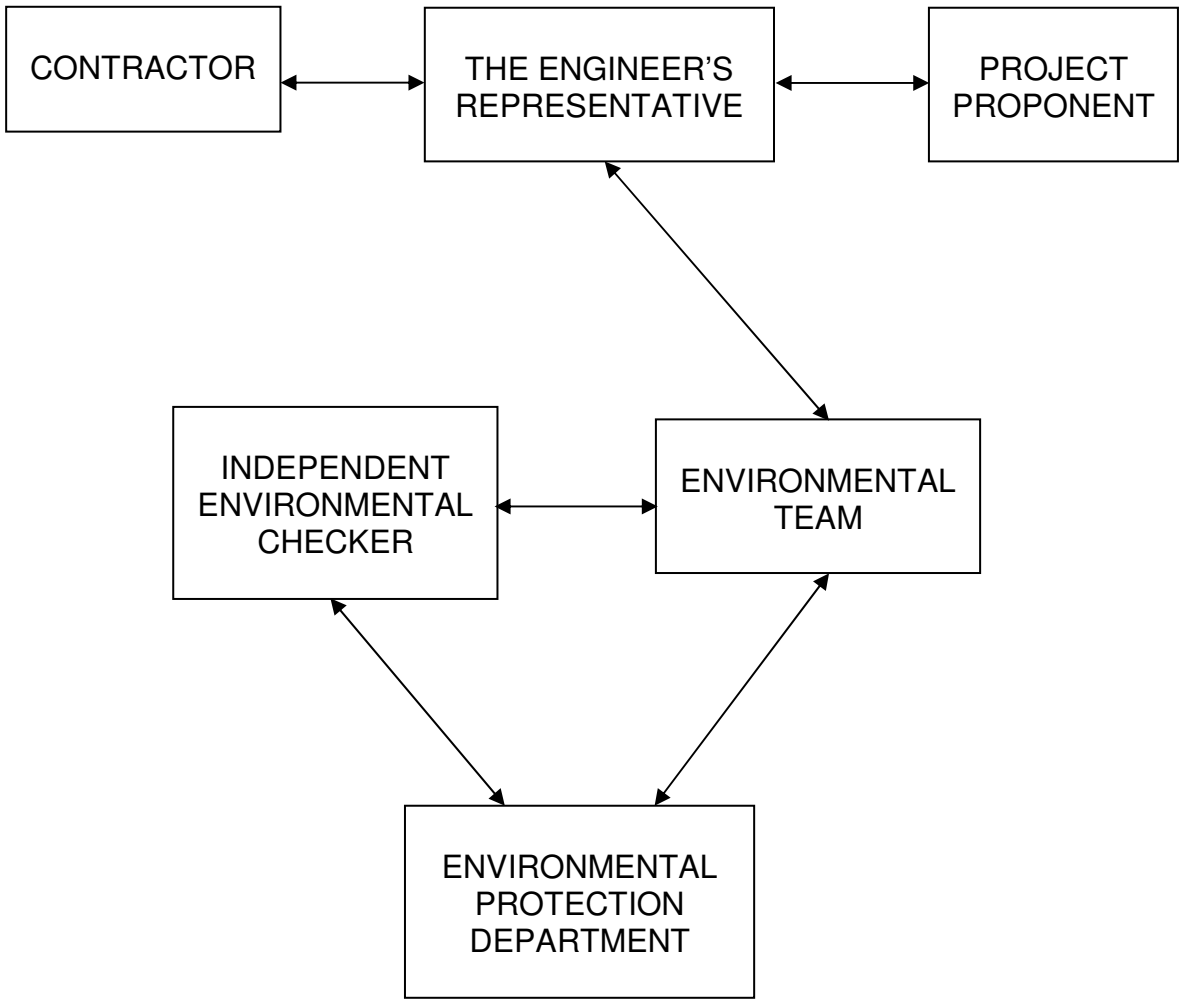
VIBRATION MONITORING FOR HERITAGE RESOURCES - FELIX VILLAS (200m INFLUENCE ZONE)

LETTER REFERENCE No.	(DC/2007/24)/M15/210079(0001)		
SCALE	1:2000 (A3)	DATE	31 JAN 2012
CHECKED BY	FT	DRAWN BY	TPN
SITE SKETCH No.	90806/DC200724/SK/0262	REV	B

APPENDIX A

PROJECT ORGANISATION, CONTACT DETAILS AND HOTLINES FOR PUBLICS

Project Organisation



Legend:

↔ Line of communication

Contact Details

Project Proponent, Drainage Services Department

Mr. Vincent Kin Shing LUI
Senior Engineer
Phone: 2159 3402
Fax: 2833 9162
E-mail: kslui@dsd.gov.hk

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Independent Environmental Checker (IEC), Mott MacDonald Hong Kong Ltd.

Dr. Anne Kerr
Independent Environmental Checker
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Fax: 2827 1823
E-mail: anne.kerr@mottmac.com.hk

Environmental Team Leader (ETL), Atkins China Limited

Ms. Susana Halliday
Environmental Team Leader
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Fax: 2890 6343
E-mail: susana.halliday@atkinsglobal.com

Ms Enid Yung
Senior Consultant
Phone: 2972 1766
Fax: 2890 6343
E-mail: enid.yung@atkinsglobal.com

Environmental Protection Department (EPD)

Regional Office (South)
Mr. YUNG Ching-hung
Phone: 2516 1872
Fax: 2960 1761
E-mail: chyung@epd.gov.hk

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. : C116334

Certificate of Calibration

This is to certify that the equipment

Description : Acoustical Calibrator

Manufacturer : Bruel & Kjaer

Model No. : 4231

Serial No. : 2656516

RECEIVED
17 NOV 2011
BY:

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

輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C125531
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC12-2363)

Description / 儀器名稱	:	Integrating Sound Level Meter
Manufacturer / 製造商	:	Bruel & Kjaer
Model No. / 型號	:	2238
Serial No. / 編號	:	2381580
Supplied By / 委託者	:	Atkins China Limited 13/F, Wharf T&T Centre, Harbour City, Tsim Sha Tsui, Kowloon

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C
Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 20 September 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Precision Measurement Ltd., UK
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By 測試 : H C Chan

Certified By 核證 : K C Lee

Date of Issue 簽發日期 : 21 September 2012

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 – 校正及檢測實驗所
c/o 香港新界屯門興安里一號青山灣機樓四樓
Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

MANUFACTURER'S CERTIFICATE OF CONFORMANCE

We certify that Brüel & Kjær **-2238--001-** Serial No. **2808432** has been tested and passed all production tests, confirming compliance with the manufacturer's published specification at the date of the test.

The final test has been performed using calibrated equipment, traceable to National or International Standards or by ratio measurements.

Brüel & Kjær is certified under ISO 9001:2008 assuring that all test data is retained on file and is available for inspection upon request.

Nærum 23-aug-2012

Torben Bjørn
Vice President, Operations

Please note that this document is not a calibration certificate.
For information on our calibration services please contact your nearest Brüel & Kjær office.

BA 0238 - 11

HEADQUARTERS: Brüel & Kjær Sound & Vibration Measurement A/S · DK-2850 Nærum · Denmark
Telephone: +45 7741 2000 · Fax: +45 4580 1405 · www.bksv.com · info@bksv.com
Local representatives and service organisations worldwide

Brüel & Kjær

Calibration Chart

Brüel & Kjær

Type 4231

Serial No. 3003246

Sound Pressure Level: 94.00 or 114.00 dB ±0.20 dB
(re 20 μPa at reference conditions)

Frequency: 1000 Hz ±0.1%

Distortion: <1%

Reference Conditions:

Temperature:	23°C
Pressure:	101.325 kPa
Humidity:	50% RH
Load:	0.25 cm^3 (½" Brüel & Kjær Mic.)

Date: 20/05/12 Signed: [signature]

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : Aberdeen
Calibrated by : K.F.Ho
Date : 10/08/2012

Sampler
Model : TE-5170
Serial Number : S/N2099

Calibration Orfice 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) : 303

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1	18 holes	11.0	3.270	1.642	57	56.2
2	13 holes	9.4	3.022	1.518	52	51.3
3	10 holes	7.3	2.664	1.338	46	45.3
4	7 holes	4.8	2.160	1.085	37	36.5
5	5 holes	2.7	1.620	0.814	27	26.6

Sampler Calibration Relationship

Slope(m):35.405 Intercept(b): -2.116 Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan Date: 10/08/2012

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : Wah Fu Estate
Calibrated by : K.F.Ho
Date : 20/08/2012

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

Calibration Orfice 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) : 1004
Ta(K) : 303

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1	18 holes	10.6	3.214	1.614	58	57.3
2	13 holes	9.5	3.043	1.528	54	53.3
3	10 holes	7.0	2.612	1.312	46	45.4
4	7 holes	5.6	2.336	1.174	40	39.5
5	5 holes	2.8	1.652	0.830	27	26.7

Sampler Calibration Relationship

Slope(m):40.628 Intercept(b): -7.762 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan Date: 23/08/2012

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : Sai Ying Pun
Calibrated by : K.F.Ho
Date : 13/09/2012

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

Calibration Orfice 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) : 1009
Ta(K) : 302

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1	18 holes	11.1	3.303	1.658	60	59.5
2	13 holes	9.7	3.088	1.550	55	54.5
3	10 holes	7.9	2.7871	1.399	50	49.6
4	7 holes	4.8	2.172	1.091	38	37.7
5	5 holes	2.8	1.659	0.834	28	27.8

Sampler Calibration Relationship

Slope(m):38.059 Intercept(b): -3.929 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan Date: 17/09/2012

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : Cyber Port
Calibrated by : K.F.Ho
Date : 21/9/2012

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

Calibration Orfice and Standard Calibration Relationship
Serial Number : 1378
Service Date : 22 Feb 2012
Slope (m) : 1.99405
Intercept (b) : -0.00397
Correlation Coefficient(r) : 0.99999

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

Calibration Condition
Pa (hpa) : 1010
Ta(K) : 302

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1	18 holes	10.9	3.275	1.644	59	58.5
2	13 holes	9.7	3.089	1.551	55	54.6
3	10 holes	7.2	2.662	1.337	47	46.6
4	7 holes	5.8	2.389	1.200	41	40.7
5	5 holes	2.9	1.689	0.849	28	27.8

Sampler Calibration Relationship

Slope(m):38.647 Intercept(b): -5.241 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan Date: 22/09/2012

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

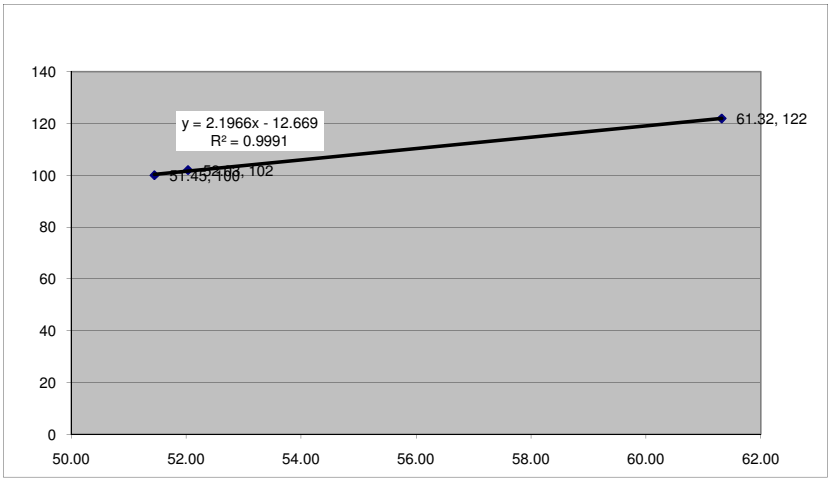
Calibration Result

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

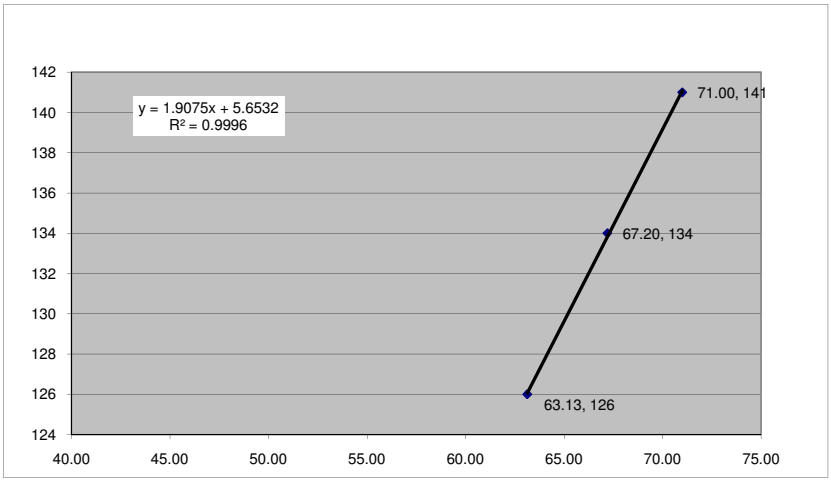
Calibration Result

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: Date: 10/21/2011

Checked by: Keith Chau Signature: Date: 10/21/2011

Summary of Calibration Date of Monitoring Equipment:

Equipment	Description	ID	Latest Calibration Date	Next Calibration Date
Calibrator for Sound Level Meters	B&K 4231	2656516	16th November 2011	15th November 2012
Calibrator for Sound Level Meters	B&K 4231	3003246	20th May 2012	19th May 2013
Integrated Sound Level Meters	B&K 2238	2808432	23rd August 2012	22nd August 2013
Integrated Sound Level Meters	B&K 2238	2381580	26th September 2011	25th September 2012
			21st September 2012	20th September 2013
Laser Dust Monitor	LD-3B-001	974350	17th October 2011	16th October 2012
Laser Dust Monitor	LD-3B-002	934393	18th October 2011	17th October 2012
High Volume Sampler	TE-5170	2099 (Aberdeen PTW)	10th August 2012	9th October 2012
High Volume Sampler	TE-5170	2100 (Wah Fu PTW)	20th August 2012	19th October 2012
High Volume Sampler	TE-5170	2146 (Sai Ying Pun)	13th September 2012	12th November 2012
High Volume Sampler	TE-5170	2098 (Cyberport)	21st September 2012	20th November 2012

APPENDIX C

EVENT AND ACTION PLAN

Event/ Action Plan for Construction Noise

Event	Action			
	ET	IEC	ER	Contractor
Action Level being exceeded	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.	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.	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.	1. Submit noise mitigation proposals to IEC and ER; 2. Implement noise mitigation proposals.
Limit Level being exceeded	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.	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.	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.	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	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	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	1. Notify the Contractor 2. Ensure remedial measures are properly implemented	1. Amend working methods 2. Rectify damage and undertake remedial measures or any necessary replacement
Repeated Non-conformity	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)	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	1. Notify the Contractor 2. Ensure remedial measures are properly implemented	1. Amend working methods 2. Rectify damage and undertake remedial measures or any necessary replacement

APPENDIX D

MITIGATION MEASURES CHECKLIST

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	• 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	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. • 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	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. • 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 og 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	

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					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	Good Site Practice: • 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	Construction Site Runoff and General Construction Activities The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage should be adopted where applicable.	During Construction	√	
6.376		Water Quality Control	Effluent Discharge 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.	During Construction	√	
6.377		Water Quality Control	Accidental Spillage of Chemicals 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.	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	√	

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: • 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. • 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	

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					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: • 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:- • 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:- • 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	√	

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					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 devises 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	√	

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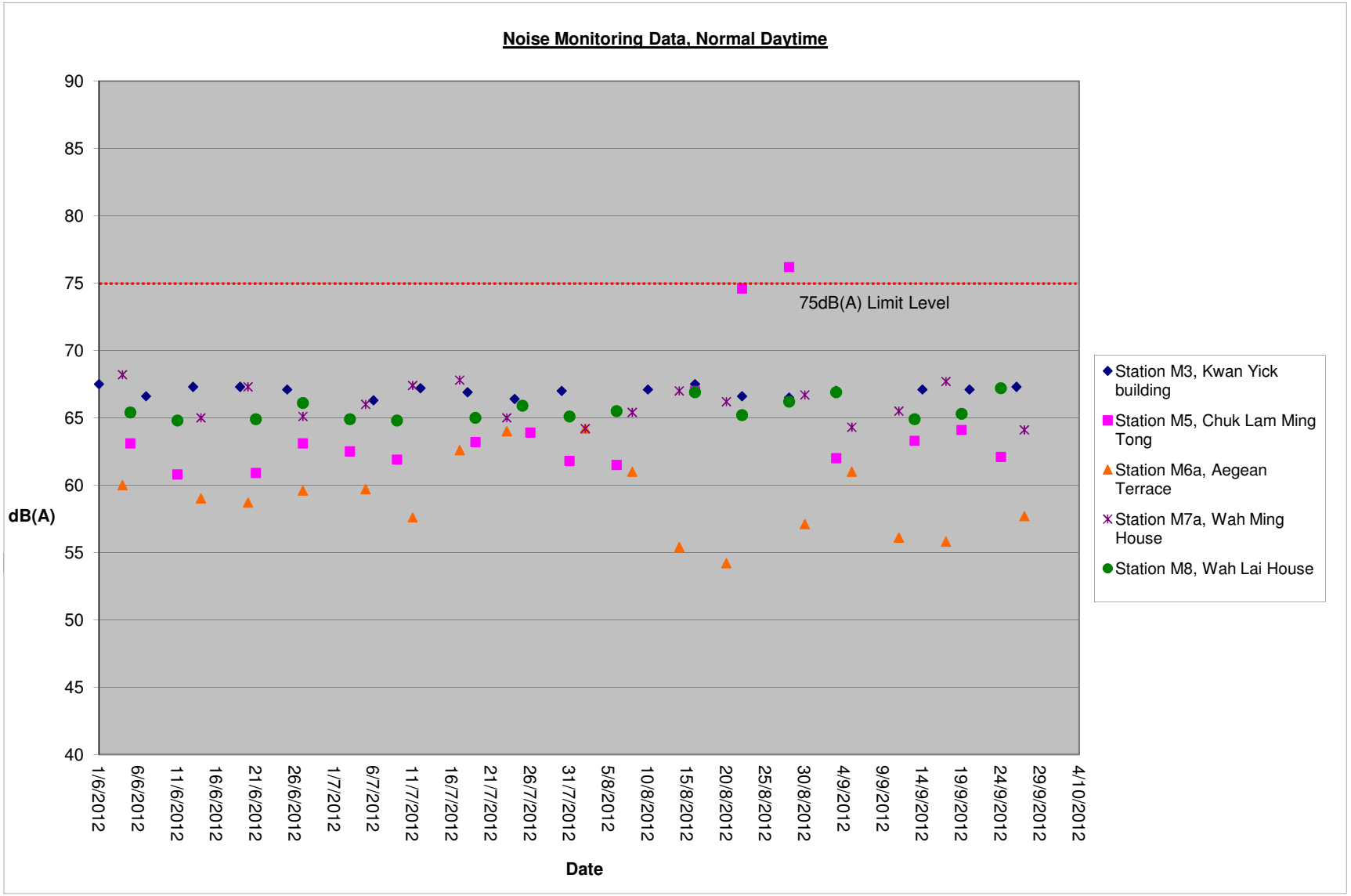
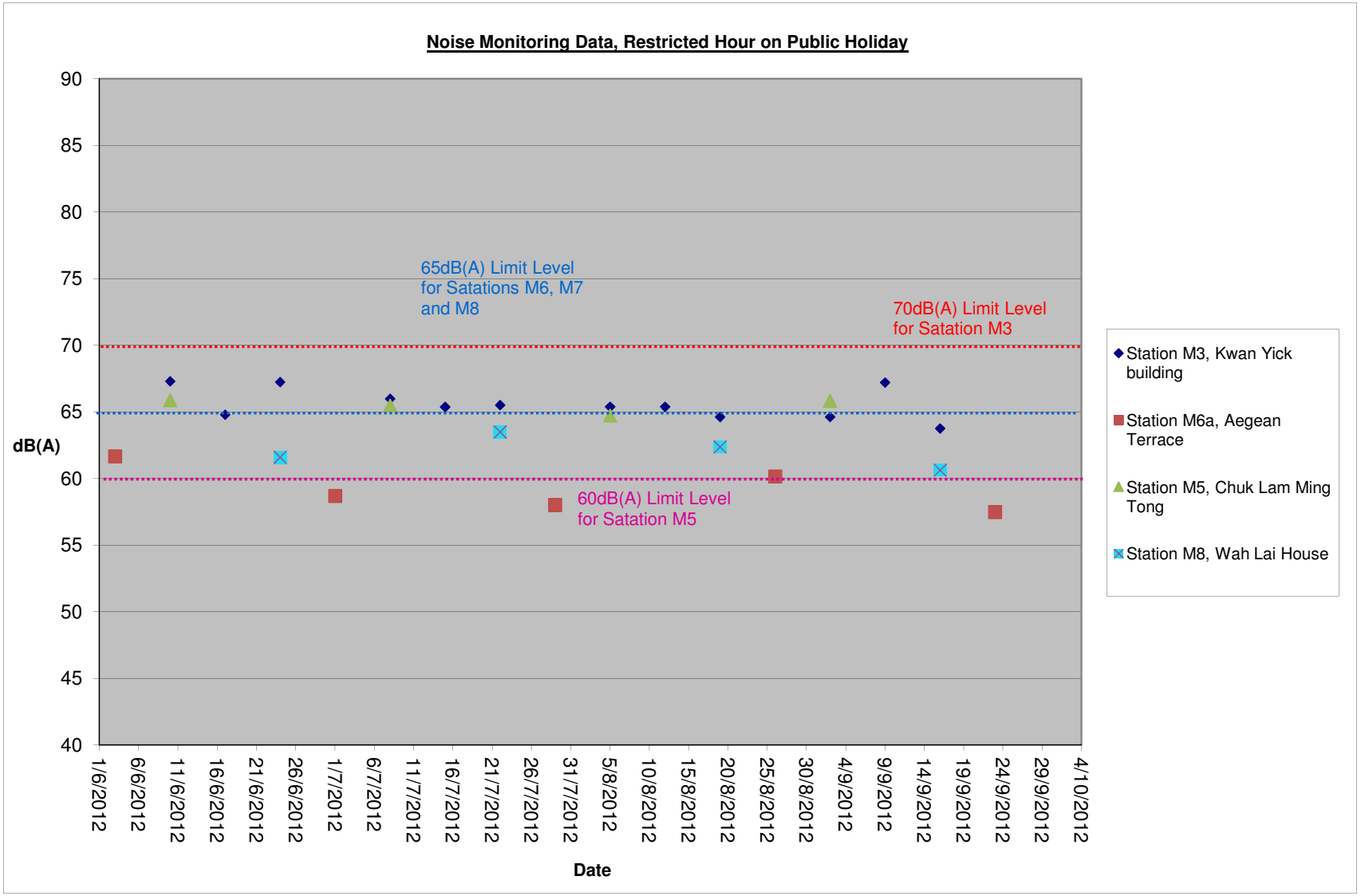
					Status	Remarks
10.96		Terrestrial Ecology	Standard good site practices as suggested in Section 10 should be implemented.	During Construction	√	
10.97		Terrestrial Ecology	Provision of proper drainage system and runoff control measures such as use of sand/silt traps, oil/grease separators, sedimentation 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	• 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	• 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	

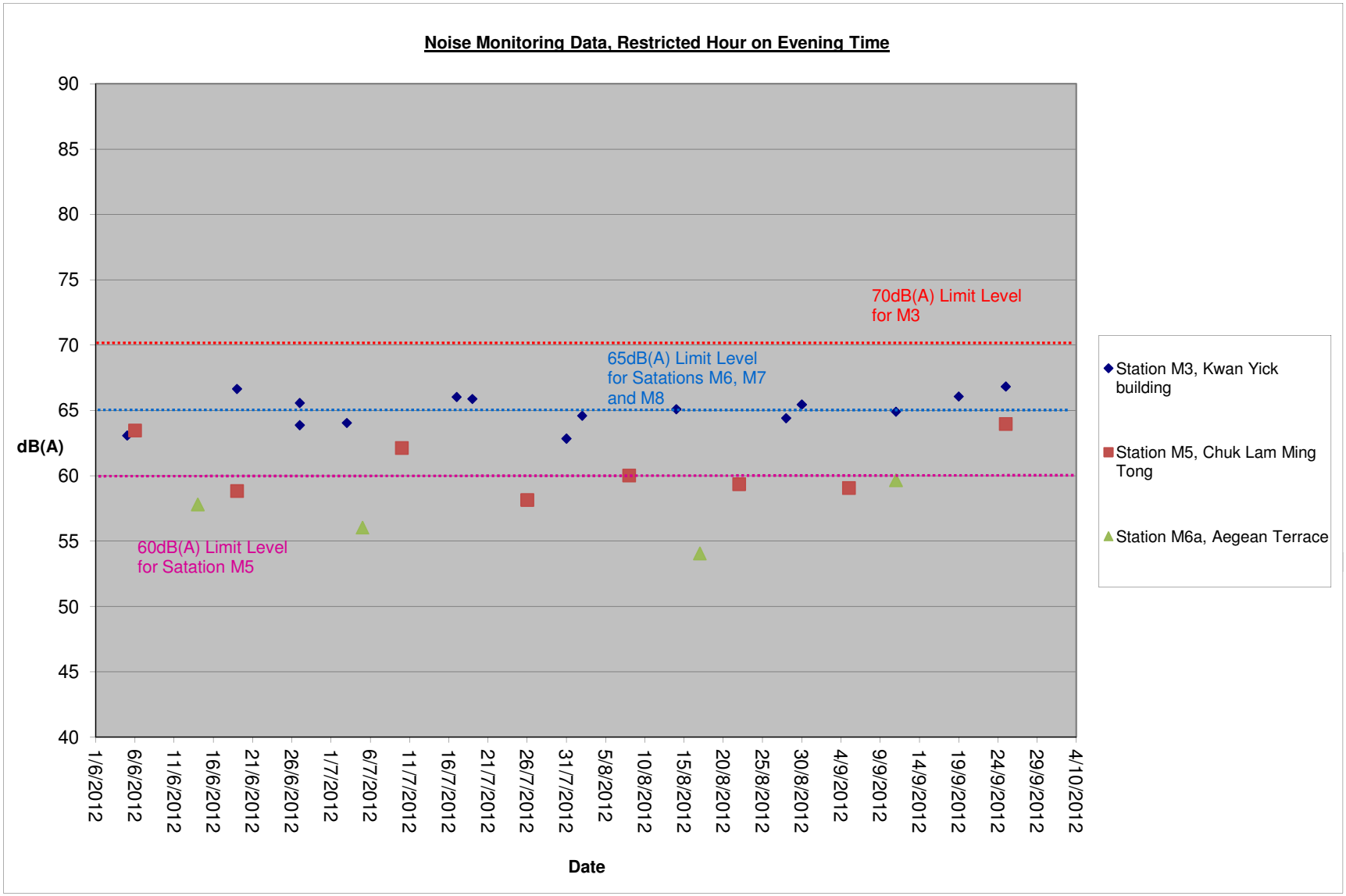
EIA Ref.	Final EM&A Manual Ref.	Environmental Aspect	Mitigation Measures	Timing	Compliance Status: √ = compliant; x = non-compliant; N/A = not applicable	
					Status	Remarks
14A.199 & 14A.204		Hazard to Life	Limiting of the vibration levels associated with the blasting programme for the Tunnel P, shafts 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 • 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	√	

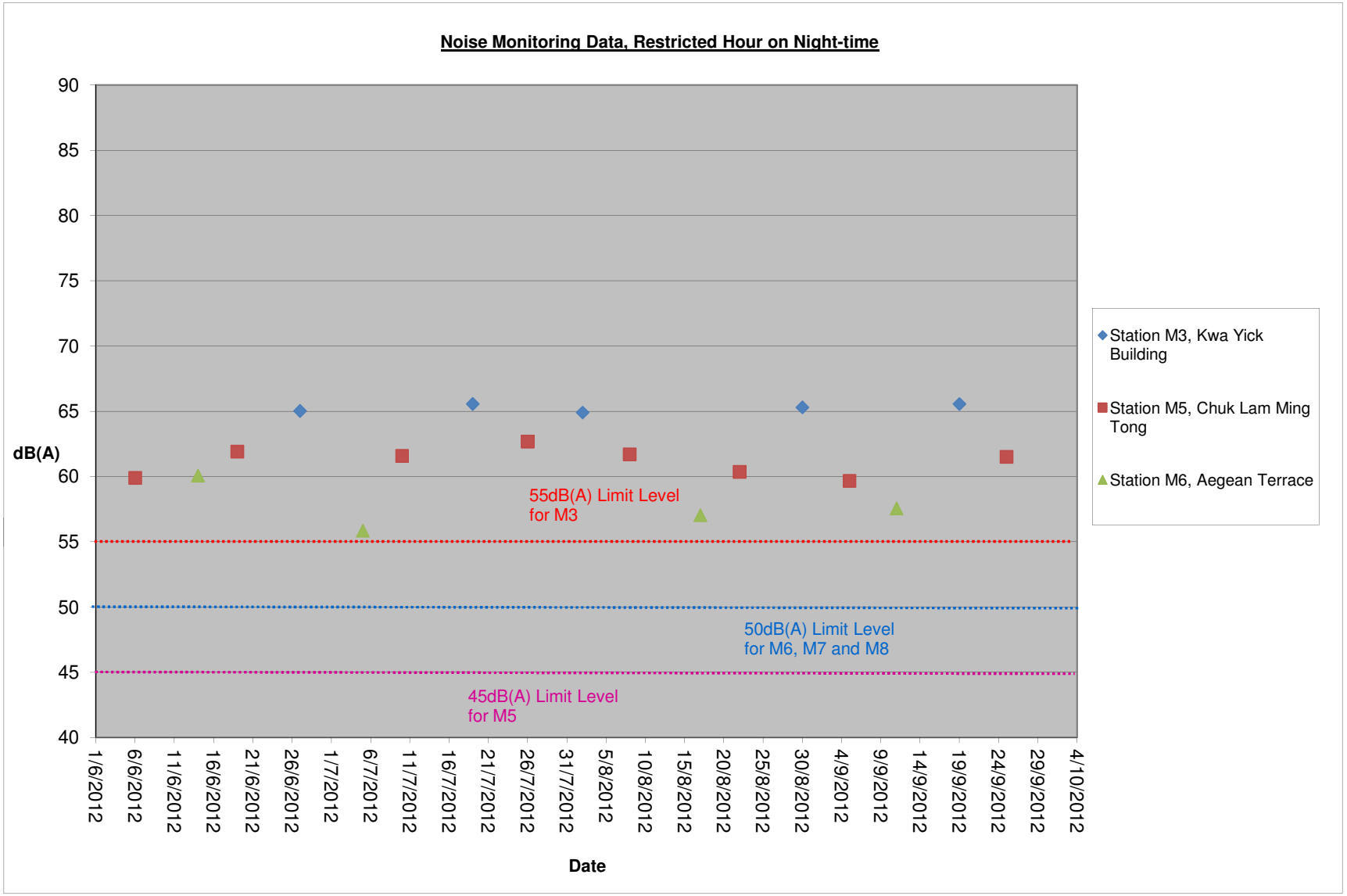
APPENDIX E

GRAPHICAL PRESENTATION OF NOISE MONITORING DATA


Noise Monitoring Data, Normal Daytime
90
85
80
75
70
65
60
55
50
45
40
dB(A)
75dB(A) Limit Level
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
4/10/2012
Date
Station M3, Kwan Yick building
Station M5, Chuk Lam Ming Tong
Station M6a, Aegean Terrace
Station M7a, Wah Ming House
Station M8, Wah Lai House

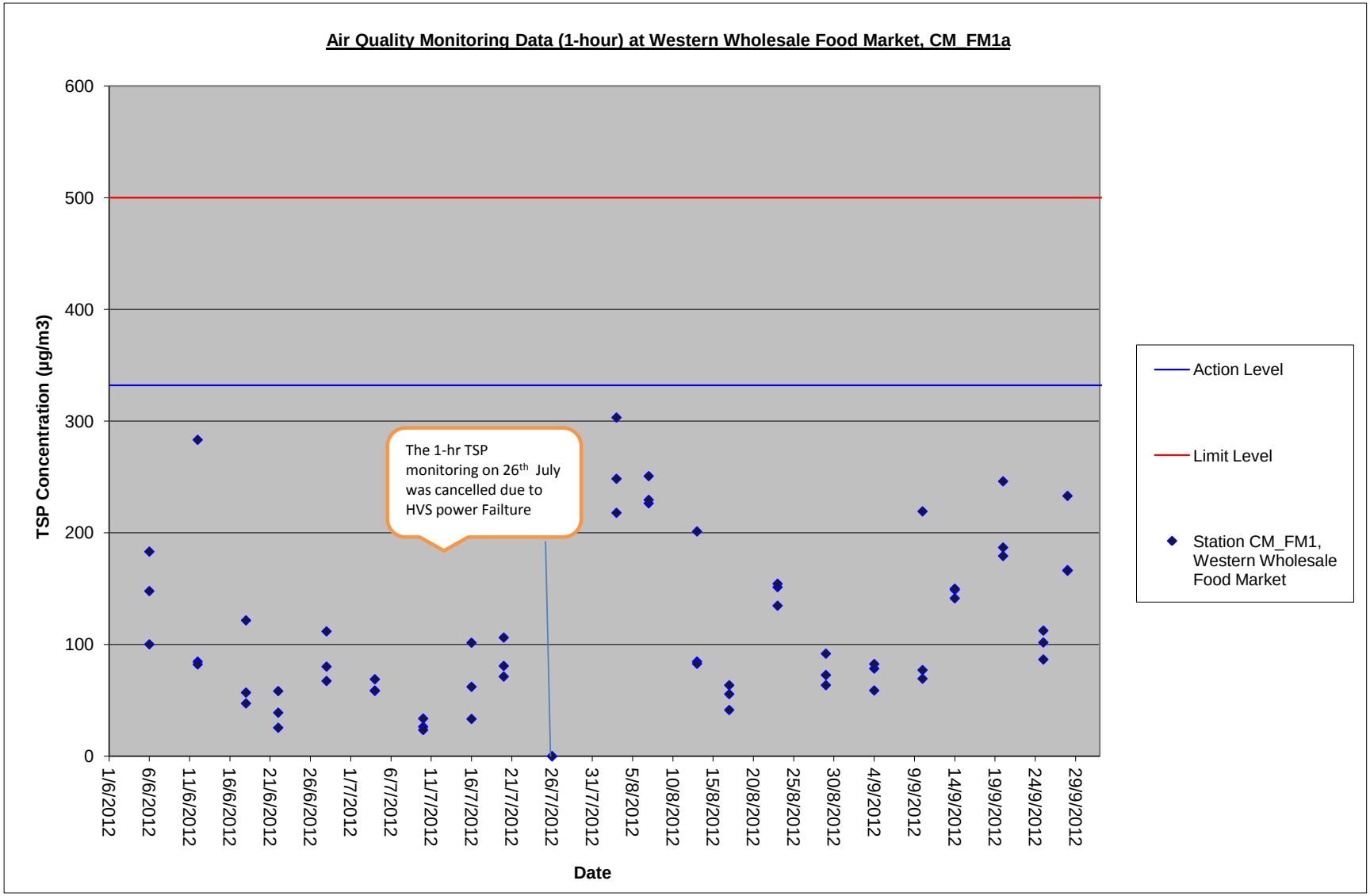

Noise Monitoring Data, Restricted Hour on Public Holiday
dB(A)
90
85
80
75
70
65
60
55
50
45
40
65dB(A) Limit Level for Satations M6, M7 and M8
70dB(A) Limit Level for Satation M3
60dB(A) Limit Level for Satation M5
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
4/10/2012
Date
Station M3, Kwan Yick building
Station M6a, Aegean Terrace
Station M5, Chuk Lam Ming Tong
Station M8, Wah Lai House

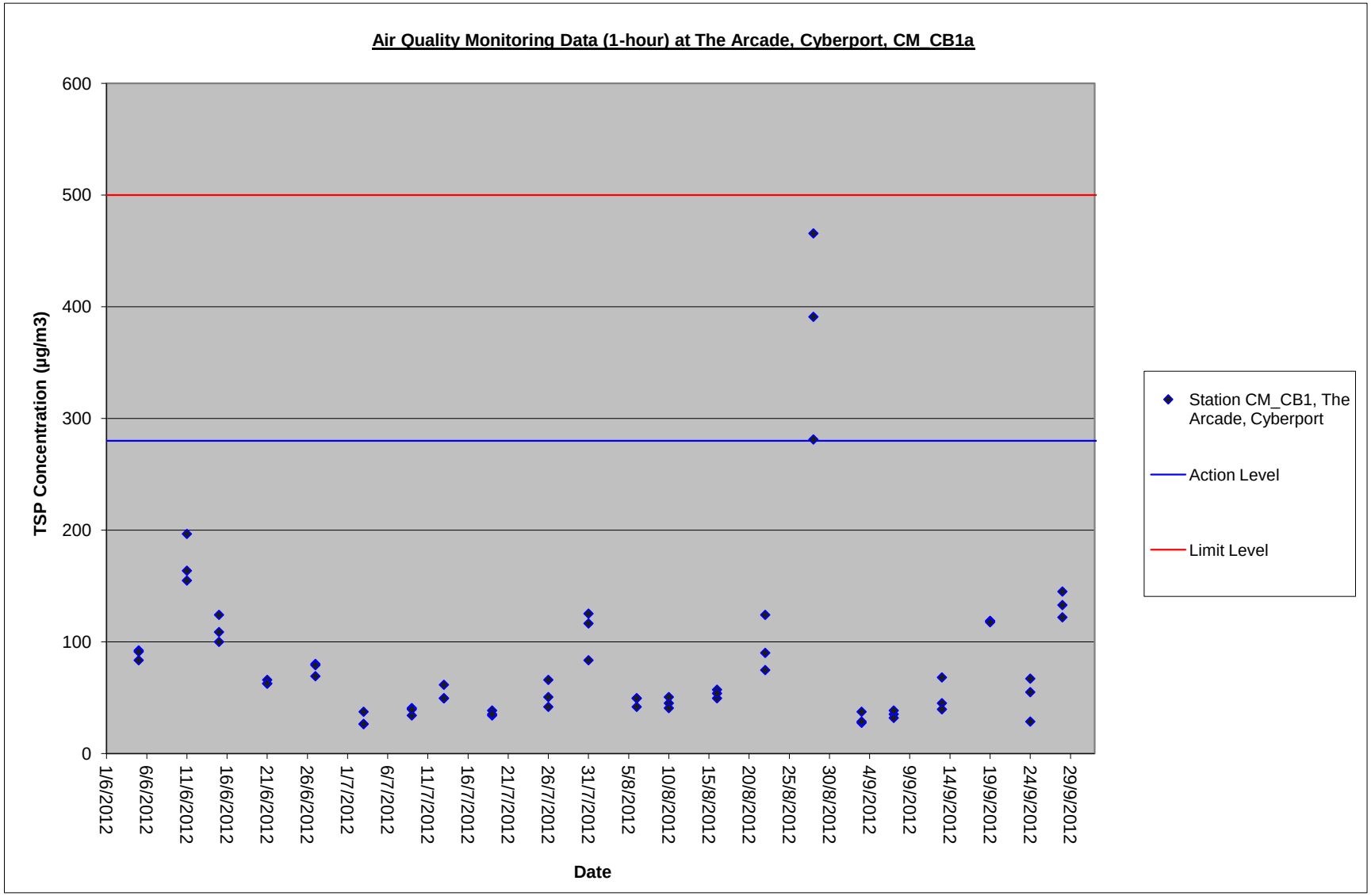

Noise Monitoring Data, Restricted Hour on Evening Time
90
85
80
75
70
65
60
55
50
45
40
dB(A)
70dB(A) Limit Level for M3
65dB(A) Limit Level for Satations M6, M7 and M8
60dB(A) Limit Level for Satation M5
Station M3, Kwan Yick building
Station M5, Chuk Lam Ming Tong
Station M6a, Aegean Terrace
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
4/10/2012
Date

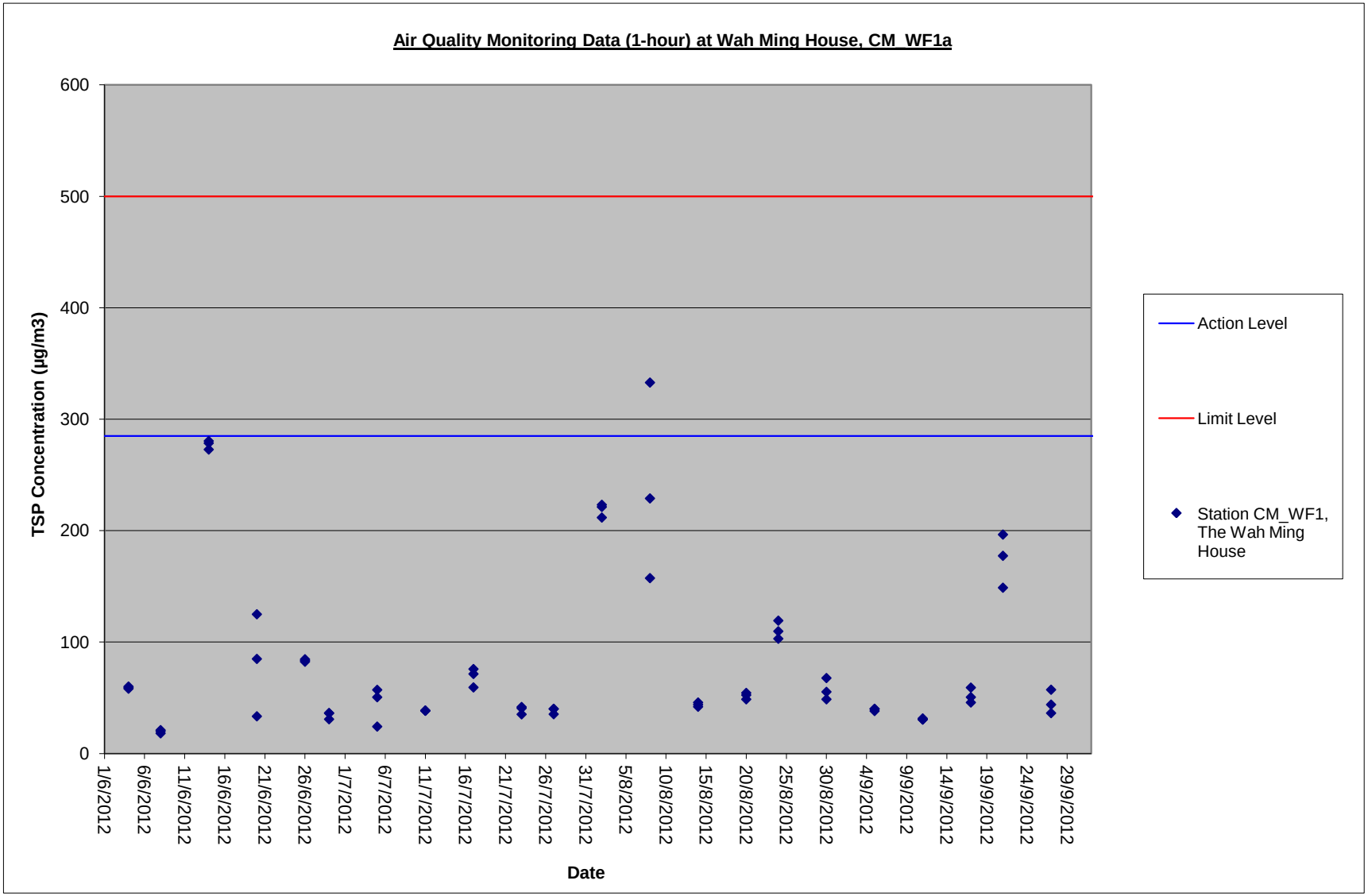

Noise Monitoring Data, Restricted Hour on Night-time
dB(A)
90
85
80
75
70
65
60
55
50
45
40
55dB(A) Limit Level for M3
50dB(A) Limit Level for M6, M7 and M8
45dB(A) Limit Level for M5
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
4/10/2012
Date
Station M3, Kwa Yick Building
Station M5, Chuk Lam Ming Tong
Station M6, Aegean Terrace

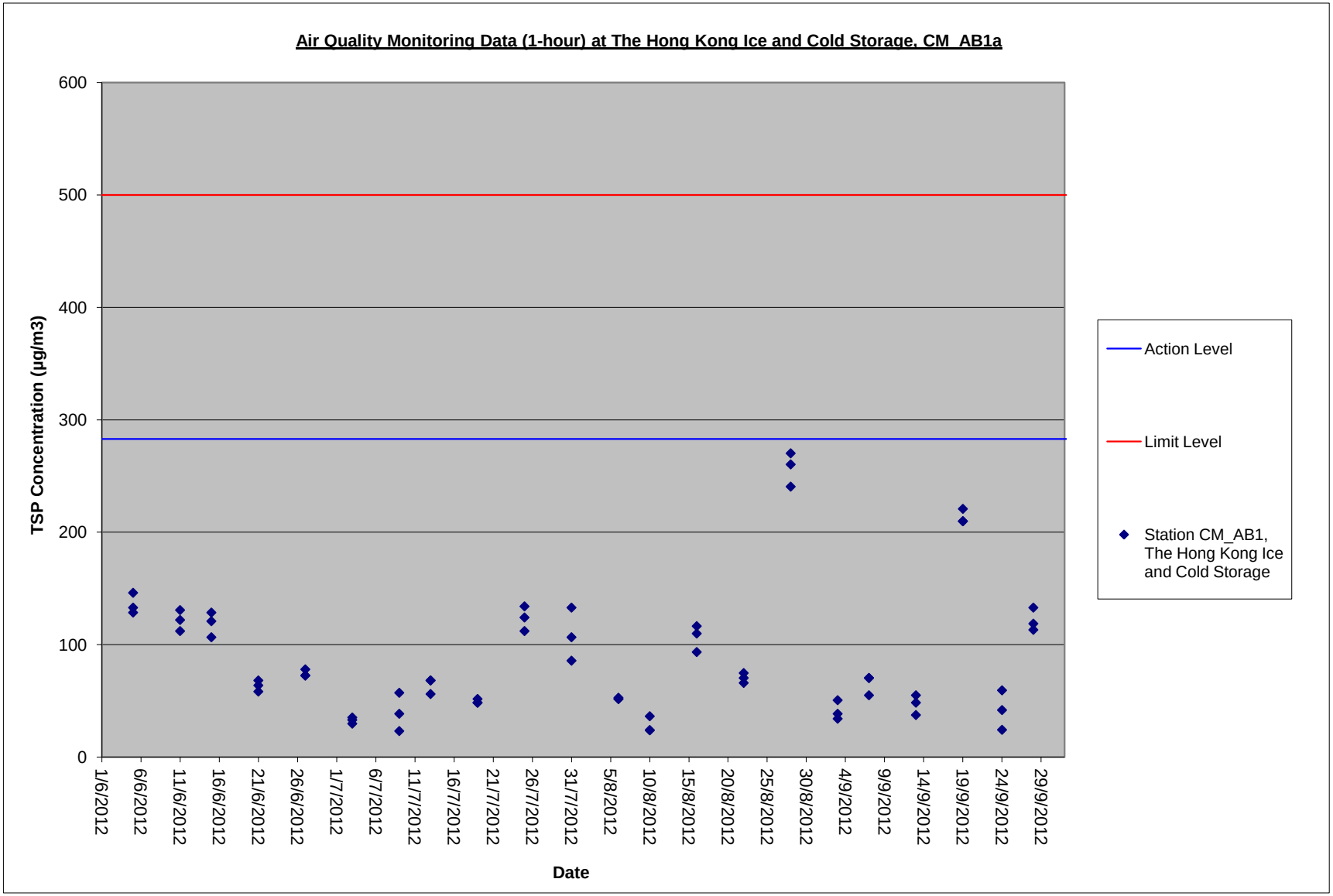
APPENDIX F

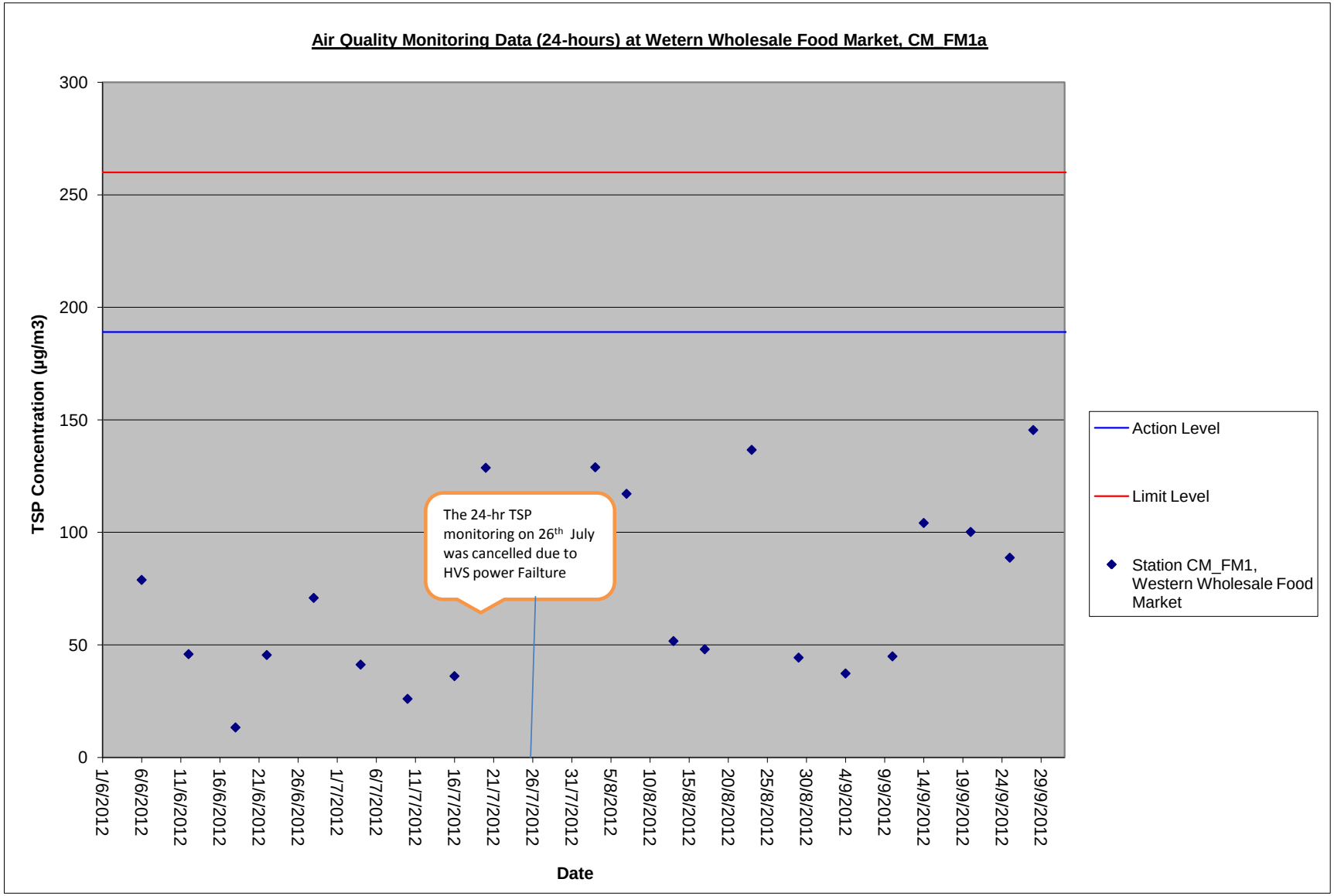
GRAPHICAL PRESENTATION OF AIR QUALITY MONITORING DATA

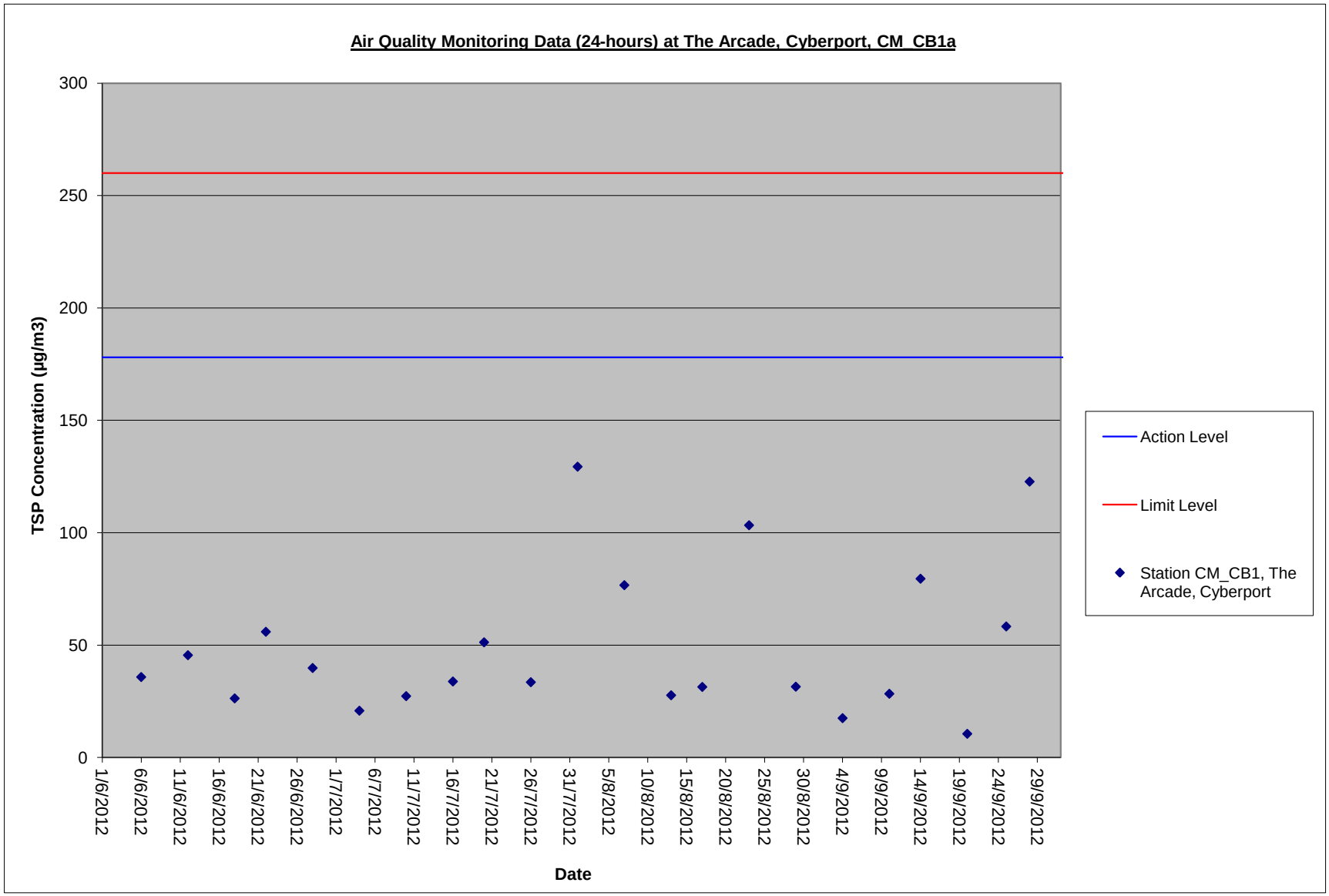

Air Quality Monitoring Data (1-hour) at Western Wholesale Food Market, CM_FM1a
TSP Concentration (µg/m3)
600
500
400
300
200
100
0
The 1-hr TSP monitoring on 26th July was cancelled due to HVS power Failture
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
Date
Action Level
Limit Level
Station CM_FM1, Western Wholesale Food Market

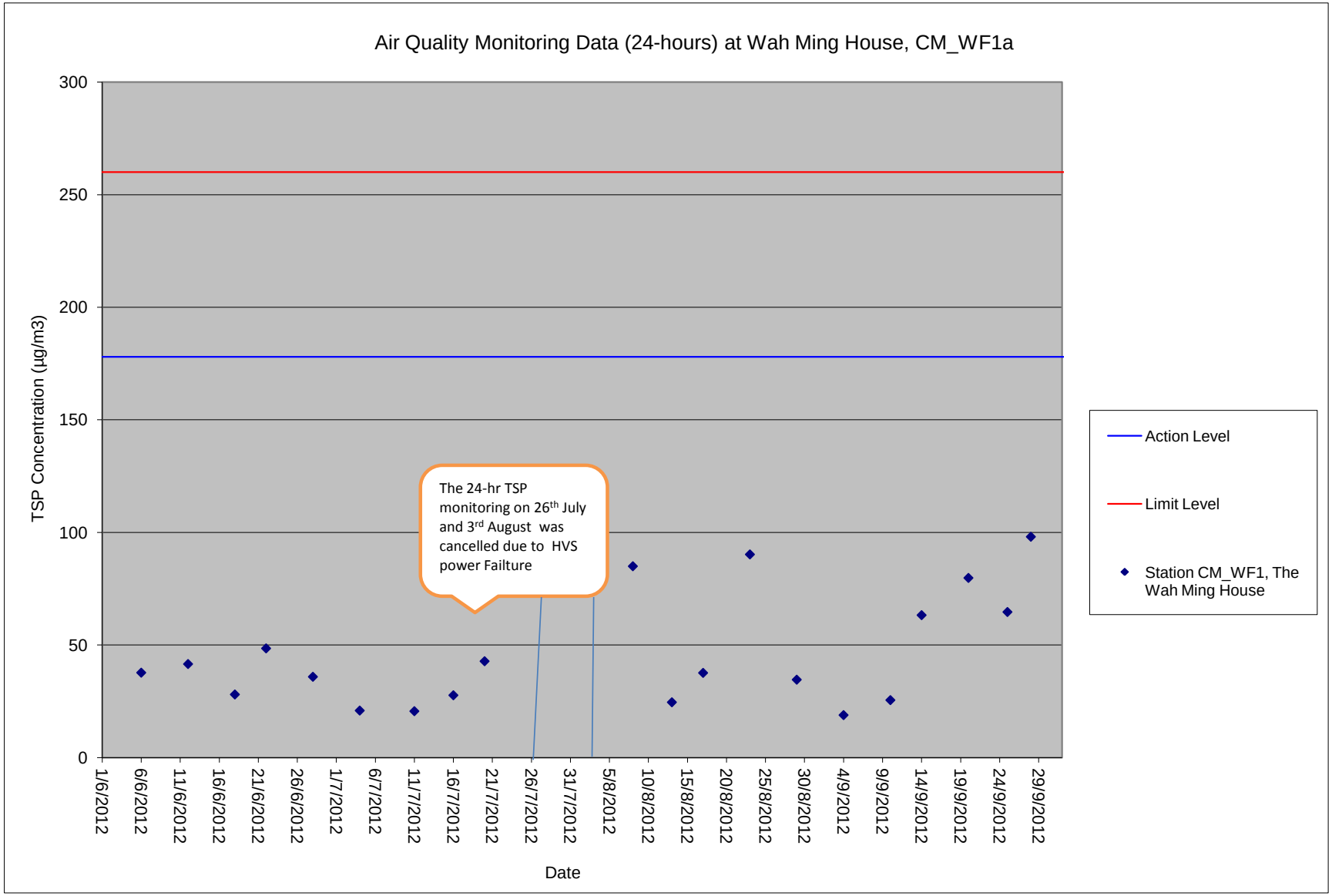

Air Quality Monitoring Data (1-hour) at The Arcade, Cyberport, CM_CB1a
TSP Concentration (µg/m3)
600
500
400
300
200
100
0
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
Date
Station CM_CB1, The Arcade, Cyberport
Action Level
Limit Level

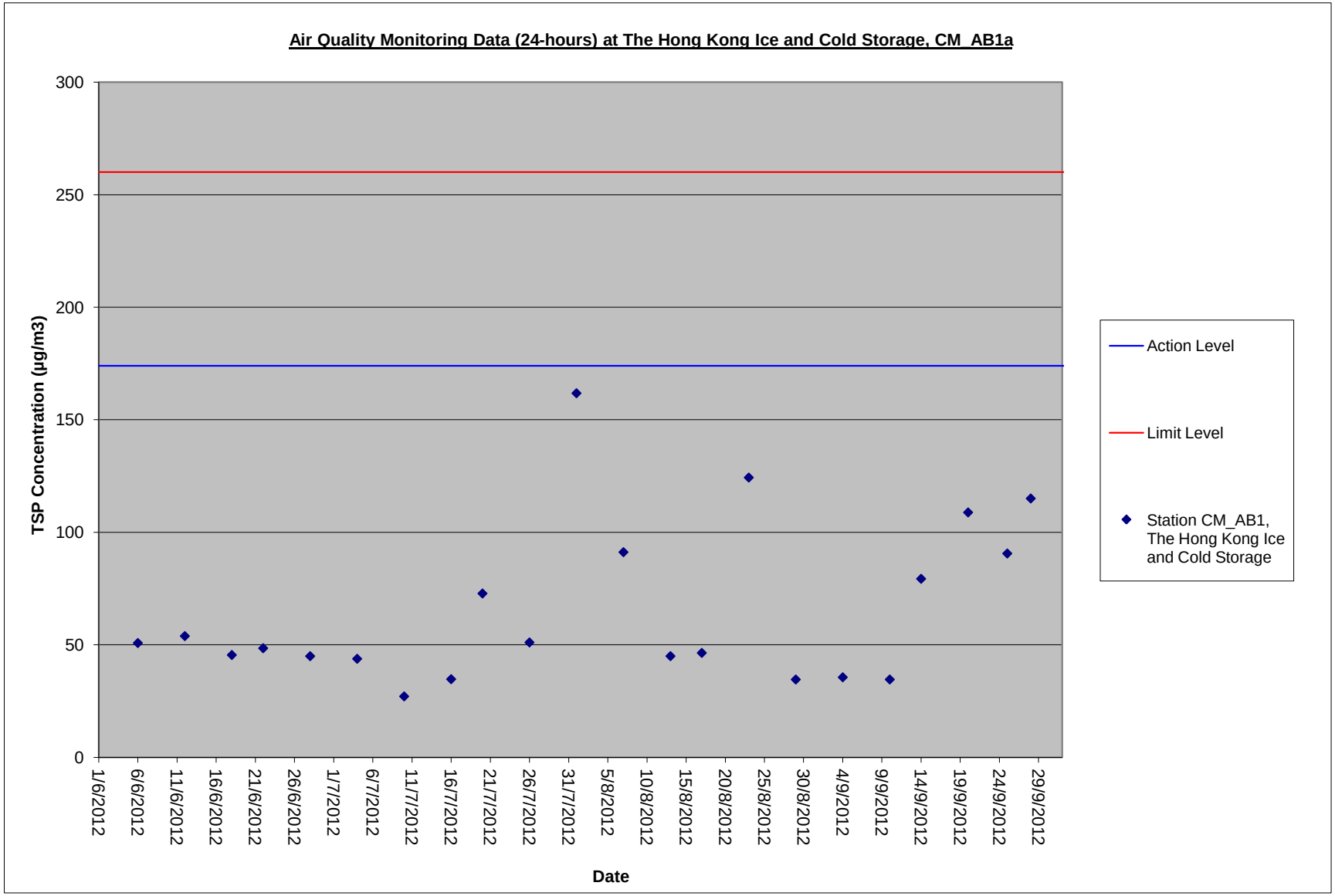

Air Quality Monitoring Data (1-hour) at Wah Ming House, CM_WF1a
TSP Concentration (µg/m3)
600
500
400
300
200
100
0
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
Date
Action Level
Limit Level
Station CM_WF1, The Wah Ming House


Air Quality Monitoring Data (1-hour) at The Hong Kong Ice and Cold Storage, CM_AB1a
TSP Concentration (µg/m3)
600
500
400
300
200
100
0
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
Date
Action Level
Limit Level
Station CM_AB1, The Hong Kong Ice and Cold Storage


Air Quality Monitoring Data (24-hours) at Wetern Wholesale Food Market, CM_FM1a
TSP Concentration (µg/m3)
300
250
200
150
100
50
0
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
Date
The 24-hr TSP monitoring on 26th July was cancelled due to HVS power Failture
Action Level
Limit Level
Station CM_FM1, Western Wholesale Food Market


Air Quality Monitoring Data (24-hours) at The Arcade, Cyberport, CM_CB1a
TSP Concentration (µg/m3)
300
250
200
150
100
50
0
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
Date
Action Level
Limit Level
Station CM_CB1, The Arcade, Cyberport


Air Quality Monitoring Data (24-hours) at Wah Ming House, CM_WF1a
TSP Concentration (µg/m3)
300
250
200
150
100
50
0
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
Date
The 24-hr TSP monitoring on 26th July and 3rd August was cancelled due to HVS power Failture
Action Level
Limit Level
Station CM_WF1, The Wah Ming House


Air Quality Monitoring Data (24-hours) at The Hong Kong Ice and Cold Storage, CM_AB1a
TSP Concentration (µg/m3)
300
250
200
150
100
50
0
1/6/2012
6/6/2012
11/6/2012
16/6/2012
21/6/2012
26/6/2012
1/7/2012
6/7/2012
11/7/2012
16/7/2012
21/7/2012
26/7/2012
31/7/2012
5/8/2012
10/8/2012
15/8/2012
20/8/2012
25/8/2012
30/8/2012
4/9/2012
9/9/2012
14/9/2012
19/9/2012
24/9/2012
29/9/2012
Date
Action Level
Limit Level
Station CM_AB1, The Hong Kong Ice and Cold Storage

APPENDIX G

LANDSCAPE AND VISUAL MONITORING REPORT

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: *11th Quarterly Landscape & Visual Monitoring Report*

October 2012

Environmental Resources Management
16/F DCH Commercial Centre
25 Westlands Road
Quarry Bay, Hong Kong
Telephone: (852) 2271 3000
Facsimile: (852) 2723 5660
E-mail: post.hk@erm.com
http://www.erm.com

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: *11th Quarterly Landscape & Visual Monitoring Report*

October 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 October 2012

CONTENTS

1 LANDSCAPE AND VISUAL IMPACT MONITORING

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 eleventh quarterly landscape and visual (L&V) impact monitoring report presenting the findings of the L&V site audit conducted during the period from 1 July 2012 to 30 September 2012.

1.2 MONITORING PARAMETERS

According to the EM&A Manual, the L&V impact monitoring includes auditing the design, implementation and maintenance of L&V mitigation measures to ensure that they are undertaken in accordance with the recommendations of the approved EIA Report (*EIA-148/2008*). Three monthly site audits were undertaken on 27 July, 28 August and 25 September 2012 at work sites in Aberdeen, Wah Fu, Cyberport, Sandy Bay and Sai Ying Pun.

The L&V mitigation measures recommended in the approved EIA Report (*EIA-148/2008*) for the construction phase are listed in *Table 1.1* and the landscape mitigation measure plans are shown in *Annex A*.

The implementation statuses of the proposed landscape mitigation measures for the construction phase are recorded and summarised in *Annex B*.

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

2 SITE AUDIT FINDINGS AND OBSERVATIONS

2.1 OUTSTANDING FOLLOW-UP ACTIONS

Follow-up actions addressing general tree issues identified during the June 2012 site audits (i.e. poor health of transplanted and retained trees) remain outstanding at the Sandy Bay, Cyberport and Aberdeen sites.

All L&V mitigation measures presented in *Table 1.1* have been implemented in full except for CM2 at Cyberport, Aberdeen and Sandy Bay sites.

Cyberport Site

(1) A metal bar was still tied to the branch of the retained tree T065(R). The contractor has been asked again to remove the metal bar; and

(2) The identification tags for the retained tree T066(R) and T074(R) were still missing. The Contractor has been asked again to provide proper tree tags for the retained trees.

Sandy Bay Site

(1) The transplanted tree T017(T) was still in very poor health.

(2) Identification tags for the retained trees T046(R), T021(R) and T058(R) were still missing. The Contractor has been asked again to provide proper tree tags for the retained trees;

(3) The identification tag for the retained trees T038(T) was still missing. In addition, a proper tree protection zone for T038(T) has not yet been provided. The Contractor has been asked again to provide a proper tree tag and protection zone for the retained tree;

(4) The retained tree T039(R) was still in bad condition with dry leaves and cracks on tree barks; and

(5) The condition of the retained tree T053(R) was still deteriorating with damages to its stems and foliage since the audit of September 2011;

(6) Construction materials and a cable were still hanging from the tree branches of the retained tree T027(R). The Contractor was asked again to remove them;

(7) The Contractor has not provided a proper tree protection zone for transplanted tree T038(T). The Contractor has been asked again to provide a proper protection zone for the tree;

(8) Construction materials were still stored close to the tree truck of the retained tree T044(R). The Contractor was asked again to remove the materials;

(9) Construction materials and cables were still hanging from the tree branches of the retained trees T021(R) and T028(R). The Contractor was asked again to remove the materials and cables.

The Contractor was asked to inspect the condition of the trees at Sandy Bay Site and take necessary mitigation measures immediately to improve the overall health condition of all retained and transplanted trees at the site.

Aberdeen Site

(1) The identification tag for the retained trees T084(R) was still missing. The Contractor was asked again to provide proper tree identification tags for the retained tree;

(2) The retained tree T076(R) was in very poor health with cracks on tree bark and no leaves;

(3) The retained tree T083(R) was in very poor health. Large wound on the main trunk was observed and all the leaves were dead

(4) The conditions of the retained trees T078(R), T079(R) and T080(R) were still deteriorating with some of their stems and leaves dying off.

(5) Construction materials were still stored very close to the root area of the retained trees T081(R), T003(R) and T084(R). The Contractor was asked again to remove the construction materials.

The Contractor was asked to inspect the condition of the trees at the Aberdeen works site and take the necessary mitigation measures immediately to improve the overall health condition of the retained trees.

2.2 *NEW OBSERVATIONS AND RECOMMENDATIONS*

The key findings during the site inspection on 27 July 2012 are as follows:

Cyberport Site

(3) A metal bar was still tied to the tree branch of the retained tree T065(R) (*Photo 1*). The Contractor was asked again to remove the metal bar.

(4) The retained tree T074(R) was still not properly tagged and marking was also observed on the tree trunk (*Photo 2*). The Contractor was asked again to provide a proper identification tag for the retained tree and not to make any marking on the tree surfaces.

Sandy Bay Site

(1) The branches of the retained trees T038(R) and T053(R) showed signs of deterioration and have lost their leaves since the audits of September and November 2011. The transplanted tree T017(T) and retained tree T214(R) were also in very poor health. The Contractor was asked to arrange for a landscape sub-contractor to inspect the condition of the trees and take the necessary mitigation measures recommended by the sub-contractor to improve the overall health condition of all retained and transplanted trees at the site.

(2) The tree protection zone for the retained tree T038(R) was inadequate (*Photo 3*). The fencing was touching the tree trunk and part of the tree root was outside the tree protection zone. The Contractor was asked to provide a proper tree protection zone.

(3) No proper identification tag was provided for T038(R), T045(R), T027(R), T036(R) and T021(R) (*Photos 3, 4, 5, 6* and *7*). The Contractor was asked to provide proper identification tags for the retained trees.

(4) Construction materials and a cable were hanging from the tree branches of the retained tree T027(R) (*Photo 5*). The Contractor was asked to remove them.

Aberdeen Site

(1) The retained tree T076(R) was in very poor health (*Photo 8*). The condition of the retained trees T079(R) was still deteriorating with some of its stems and leaves dying off. The nearby trees T078(R) and T080(R) also showed similar problems. The Contractor was asked to arrange for a landscape sub-contractor to inspect the condition of the trees and take the necessary mitigation measures recommended by the sub-contractor to improve the overall health condition of the retained trees.

(2) The retained tree T081 and T084 (*Photos 9 & 11*) still did not have proper identification tags. The Contractor was asked to provide proper identification tags for the retained trees.

(3) The retained tree T083(R) was in very poor health. Large wound on the main trunk was observed and all the leaves were dead (*Photo 10*). The Contractor was asked to arrange for a landscape sub-contractor to inspect the condition of the tree, prepare a tree observation form and take the necessary mitigation measures recommended by the sub-contractor to improve the overall health condition of the retained trees.

The key findings during the site inspection on 28 August 2012 are as follows:

Cyberport Site

The identification tag for the retained tree T066(R) was missing (*Photo 12*). The Contractor has been asked again to provide a proper tag for the retained tree.Sandy Bay Site

(1) A new wound was observed on the tree trunk of the transplanted tree T038(T) (*Photo 13*). The Contractor has been asked to provide a proper tree protection zone for the tree;

(2) Construction materials were stored close to the tree truck of the retained tree T044(R) (*Photo 14*). The Contractor was asked to remove the materials;

(3) The identification tag for the retained tree T046(R) was still missing (*Photo 15*). The Contractor has been asked again to provide a proper tag for the retained tree;

Construction materials and cables were hanging from the branches of the retained trees T021(R) and T028(R) (*Photo 16*). The Contractor was asked to remove the materials.<u>Aberdeen Site</u>

(1) Construction materials were stored close to the trunk of the transplanted tree T003(T)(R) and a new wound was observed on the trunk (*Photo 17*). The Contractor was asked to remove the materials;

(2) Construction materials were stored very close to the root area of the retained tree T084(R) (*Photo 18*). The Contractor was asked again to remove the construction materials.

The key observations during the site inspection on 25 September 2012 are as follows:

<u>Cyberport Site</u>

(1) Excessive amounts of weeds were growing within the root zone of the retained tree T66(R) (*Photo 19*). The Contractor was asked to remove the weeds.

(2) A tarpaulin sheet was hung from the branch of the retained tree T72(R) using a rope (*Photo 20*). The Contractor was asked to remove the tarpaulin sheet.

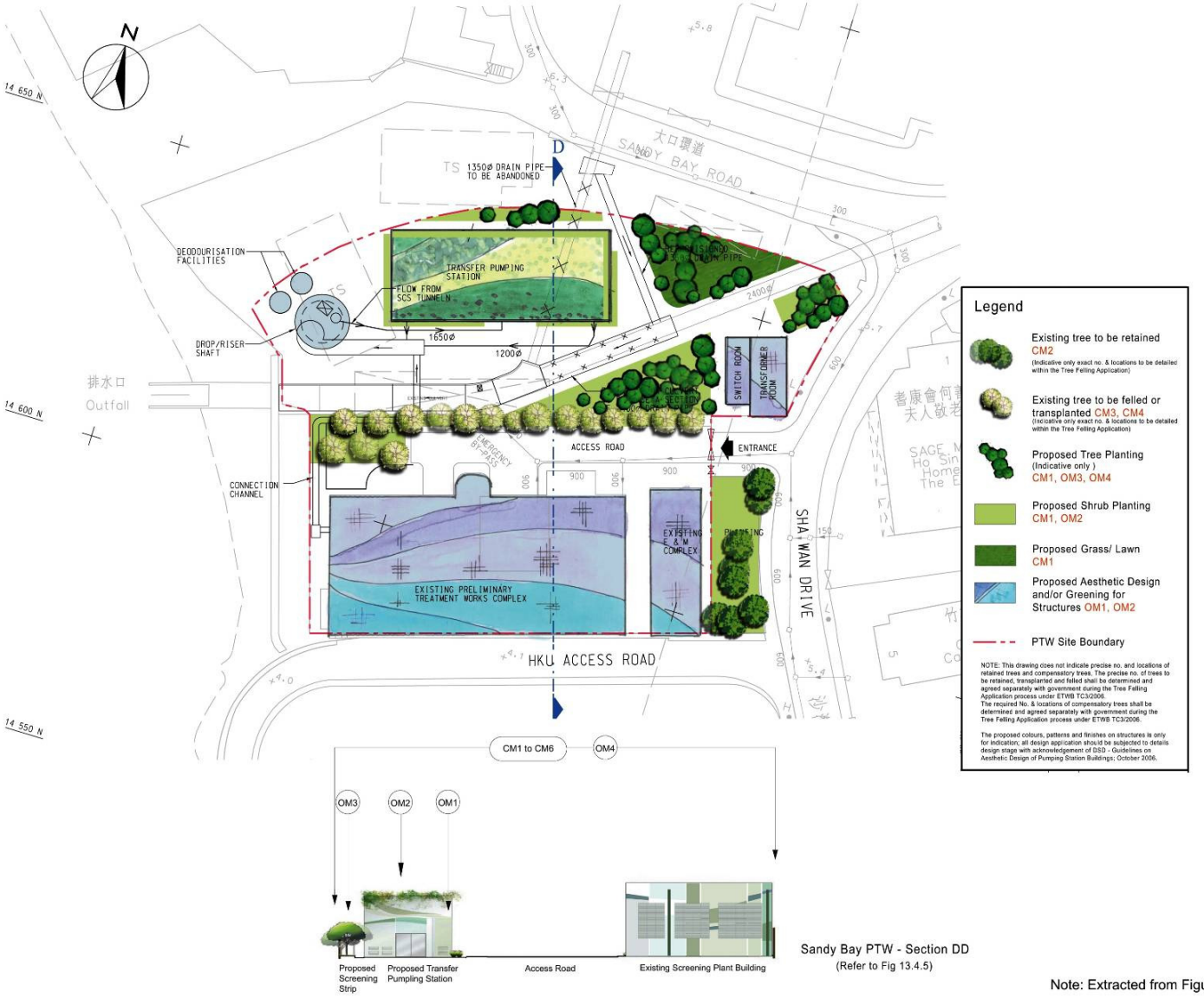
3 CONCLUSIONS

This report summarises the three monthly landscape and visual monitoring audits undertaken during the period from 1 July to 30 September 2012 in accordance with EM&A Manual. The monthly landscape and visual site audits were undertaken on 27 July, 28 August and 25 September 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*.

All L&V mitigation measures have been implemented in full except for several areas as described in *Sections 2.1 and 2.2*. After discussions with the Contractor about the issues, feasible and effective remedial measures have been agreed. The Contractor was asked to ensure that proper mitigation measures are implemented.

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.

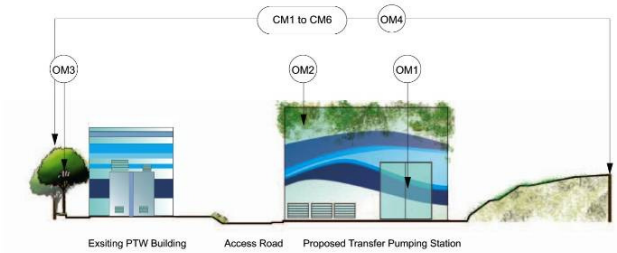
Figure 1.1

Landscape Mitigation Measure in Sandy Bay

FILE: 0109356-ILV-SB-Fig1.1
DATE: 30 March 2010

Environmental Resources Management

ERM



Cyberport PTW - Section EE
(Refer to Fig 13.4.6)

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

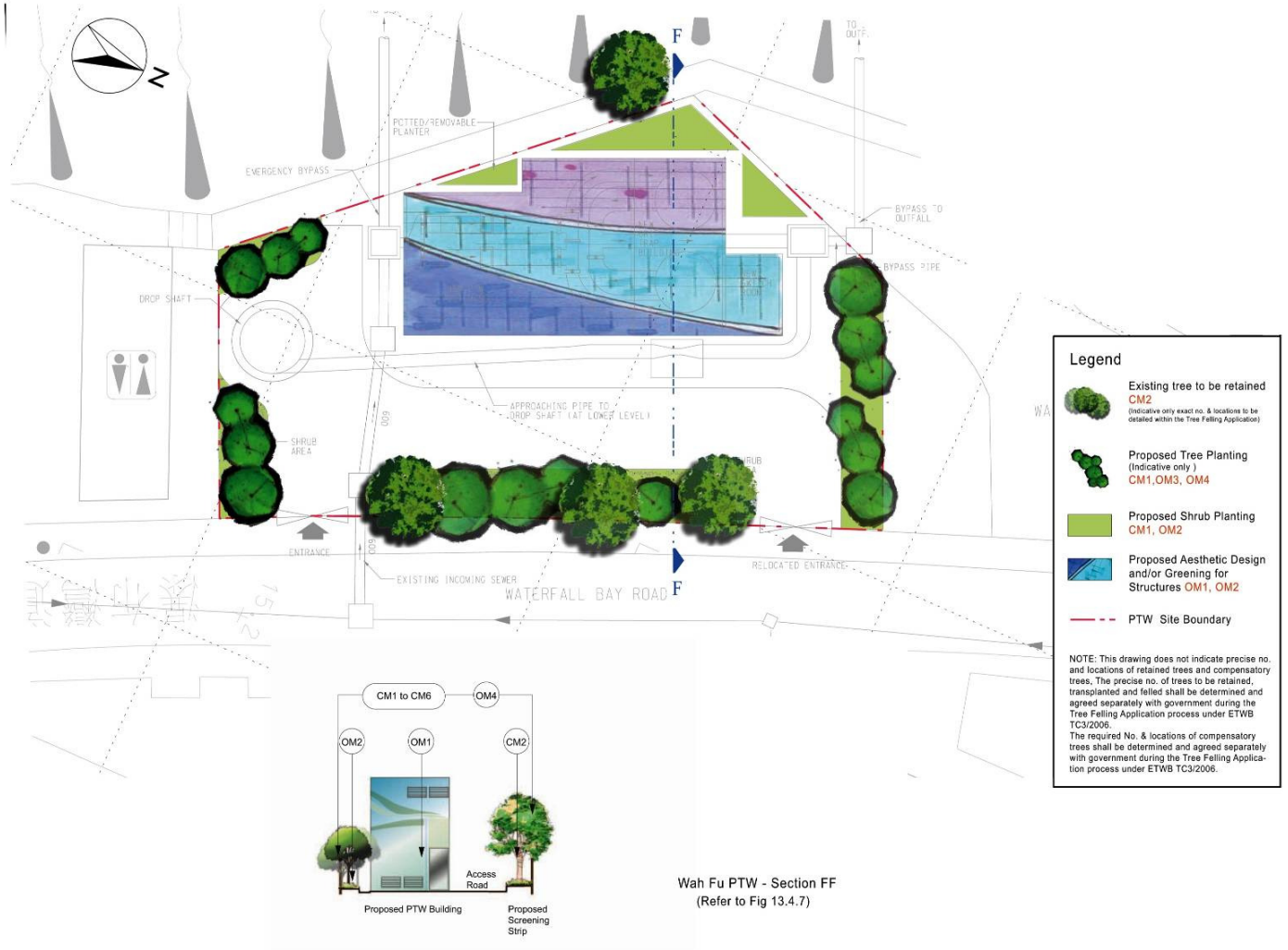
Figure 1.2

Landscape Mitigation Measure in Cyberport

FILE: 0109356-ILV-CP-Fig1.2.cdr
DATE: 30 March 2010

Environmental Resources Management

ERM



Wah Fu PTW - Section FF
(Refer to Fig 13.4.7)

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

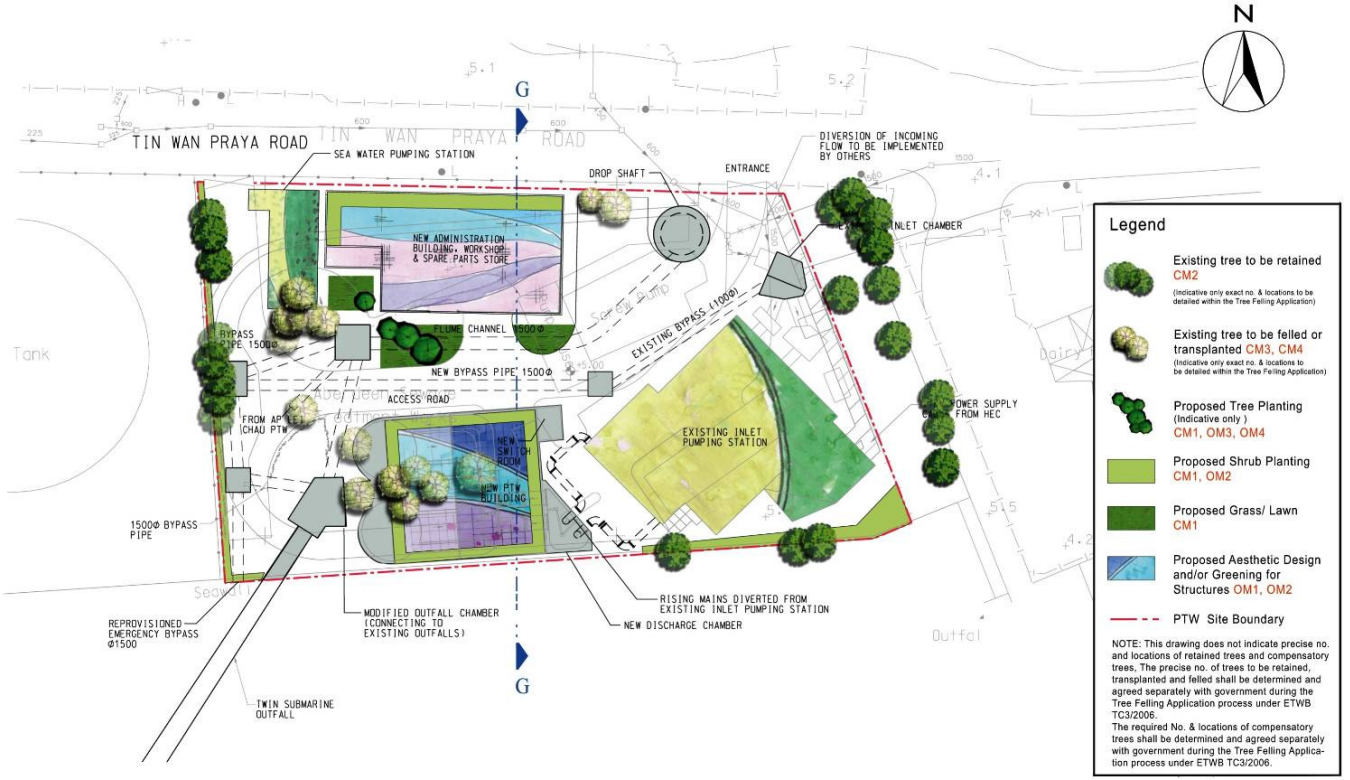
Figure 1.3

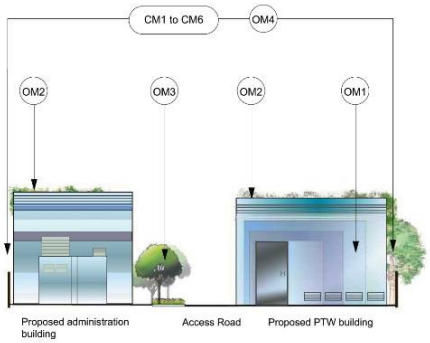
Landscape Mitigation Measure in Wah Fu

FILE: 0109356-ILV-WF-Fig1.3.cdr
DATE: 30 March 2010

Environmental Resources Management

ERM





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

FILE: 0109356-ILV-A-Fig1.4.cdr
DATE: 30 March 2010

Environmental Resources Management

ERM

Annex B

Site Inspection Checklists

Reporting Period : 1 July to 31 July 2012

Site Inspection Date : 27 July 2012

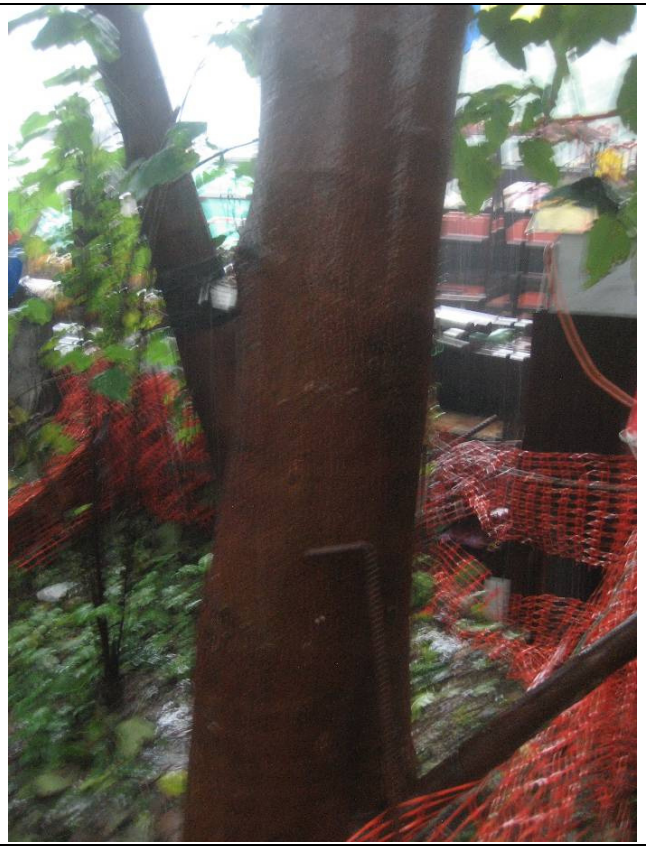
Inspected By : Andrew Fung

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 had been conducted since the last audit. 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 from 1 to 31 July 2012 except on 1 and 2 July 2012. All night-time lightings have appropriate controls.	Decorative screen hoarding compatible with the surrounding setting was erected.	Not required
Cyberport	No major excavation works had been conducted since the last audit. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly expect for the retained trees T065(R) and T074(R)	No tree was transplanted during this reporting month.	Not applicable - Compensatory tree planting has not been started yet.	Night-time lighting was used from 1 to 31 July 2012 except on 1 and 2 July 2012. All night-time lightings have appropriate controls.	Noise enclosure was erected over the shaft. A yellow tone, similar to the colour of the existing STW façade, was used for the materials of the noise enclosure,.	The Contractor was asked to implement all the necessary measures to protect the trees.
Sandy Bay	No major excavation	Existing trees have	No tree was	Not applicable -	Night-time lighting	Decorative screen	The Contractor was asked to

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
	works had been conducted since the last audit. No stockpile of excavated soil was observed.	been retained on site, fenced off and protected properly expect for the retained/ transplanted trees T017(T), T021(R), T027(R), T036(R), T038(T), T045(R), and T053(R)	transplanted during this reporting month.	Compensatory tree planting has not been started yet.	was used from 1 to 31 July 2012 except on 1 and 2 July 2012. All night-time lightings have appropriate controls.	hoarding compatible with the surrounding setting was erected..	implement all the necessary measures to protect the trees.
Wah Fu	No major excavation works had been conducted since the last audit. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly.	Not Applicable - No existing tree was identified to be within the works area.	Not applicable - No existing tree was identified to be within the works area.	Not applicable - No night-time lighting was used.	Screening compatible with the surrounding setting was erected .	Not required
Aberdeen	No major excavation works had been conducted since the last audit. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly expect for the retained/ transplanted trees T076(R), T078(R), T079(R), T080(R), T081(R), T083(R), and T084(R).	All the tree transplantation works had been completed and all the transplanted trees were properly supported by tripods.	Not applicable - Compensatory tree planting has not been started yet.	Night-time lighting with appropriate controls was used until 23:00 hours on 4, 11, 18 and 25 July.	Grey screen hoarding compatible with the surrounding setting was erected s.	The Contractor was asked to implement all the necessary measures to protect the trees.

	
Cyberport site --- Photo 1	**Cyberport site --- Photo 2**
A metal bar was still tied to the branch of the retained tree T038(R)	The retained tree T074(R) was still not properly tagged. Marking was also observed on the trunk.

	
Sandy Bay site --- Photo 3	**Sandy Bay site --- Photo 4**
The tree protection zone for the retained tree T038(R) was inadequate. The fencing was touching the tree trunk and part of the tree root was outside the tree protection zone. The tree identification tag was still missing.	The tree identification tags were still missing from the retained trees T058(R) and T045(R).

	
Sandy Bay site --- Photo 5	**Sandy Bay site --- Photo 6**
The retained tree T027(R) was not tagged. Construction materials and a cable were hanging from the branches.	The tree identification tag was still missing from the retained tree T021(R).

	
Sandy Bay site --- Photo 7	**Aberdeen site --- Photo 8**
The tree identification tag was still missing from the retained tree T036(R).	The retained Tree T076(R) was in very poor health.

	
Aberdeen site --- Photo 9	**Aberdeen site --- Photo 10**
The tree identification tag was still missing from the retained tree T081(R).	The retained tree T083 was in very poor health.

Aberdeen site --- Photo 11

The tree identification tag was still missing from the retained tree T084(R) and the tree next to it. Construction materials were stored close to the retained tree and touching the tree trunk.

(Name: Christina Ip,
Registered Landscape Architect)

Reporting Period : 1 August to 31 August 2012

Site Inspection Date : 28 August 2012

Inspected By : Andrew Fung

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.**	
Sai Ying Pun	No major excavation works had been conducted since the last audit. 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 with appropriate controls was used from 1 to 31 August 2012.	Decorative screen hoarding compatible with the surrounding setting was erected .	Not required
Cyberport	No major excavation works had been conducted since the last audit. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly expect for the retained trees T065(R), T066(R) and T074(R)	No tree was transplanted during this reporting month.	Not applicable - Compensatory tree planting has not been started yet.	Night-time lighting with appropriate controls was used from 1 to 31 August 2012.	Noise enclosure was erected over the shaft. A yellow tone, similar to the colour of the existing STW façade, was used for the materials of the noise enclosure,.	The Contractor was asked to implement all the necessary measures to protect the trees.
Sandy Bay	No major excavation works had been	Existing trees have been retained on site,	No tree was transplanted during	Not applicable - Compensatory	Night-time lighting with appropriate	Decorative screen hoarding compatible	The Contractor was asked to implement all the necessary

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**
	conducted since the last audit. No stockpile of excavated soil was observed.	fenced off and protected properly expectfor the retained/ transplanted trees T017(T), T021(R), T027(R), T028(R), T038(T), T039(R), T044(R), T046(R), T053(R) and T058(R)	this reporting month.	tree planting has not been started yet.	controls was used from 1 to 31 August 2012.	with the surrounding setting was erected.	measures to protect the trees.
Wah Fu	No major excavation works had been conducted since the last audit. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly.	Not Applicable - No existing tree was identified to be within the works area.	Not applicable - No existing tree was identified to be within the works area.	Not applicable - No night-time lighting was used.	Screening compatible with the surrounding setting was erected. .	Not required
Aberdeen	No major excavation works had been conducted since the last audit. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly expect for the retained/ transplanted trees T003(T), T076(R), T078(R), T079(R), T080(R), T081(R), T083(R), T084(R)	All the tree transplantation works hadbeen completed and all the transplanted trees were properly supported by tripods.	Not applicable - Compensatory tree planting has not been started yet.	Night-time lighting with appropriate controls was used until 23:00 hours on 22 and 29 August.	Grey screen hoarding compatible with the surrounding setting was erected.	The Contractor was asked to implement all the necessary measures to protect the trees.

	
Cyberport site --- Photo 12	**Sandy Bay site --- Photo 13**
The identification tag for the retained tree T066(R) was missing.	A new wound was observed on the trunk of the transplanted tree T038(T)

	
Sandy Bay site --- Photo 14	**Sandy Bay site --- Photo 15**
Construction materials were stored close to the trunk of the retain tree T044(R).	The identification tag for the retained tree T046(R) was still missing.

	
Sandy Bay site --- Photo 16	**Sandy Bay site --- Photo 17**
Construction materials and cables were hanging from the branches of the retained trees T021(R) and T028(R).	Construction materials were stored close to the trunk of the transplanted tree T003(T)(R) and a new wound was observed on the tree trunk

Sandy Bay site --- Photo 18

Construction materials were stored very close to the root area of the retained tree T084(R)

(Name: Christina Ip,
Registered Landscape Architect)

Reporting Period : 1 September to 31 September 2012

Site Inspection Date : 25 September 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 had been conducted since the last audit. 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 with appropriate controls was used from 1 to 30 September 2012.	Decorative screen hoarding compatible with the surrounding setting was erected..	Not required
Cyberport	No major excavation works had been conducted since the last audit. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly except for the retained trees T065(R), T066(R), T072(R) and T074(R)	No tree was transplanted during this reporting month.	Not applicable - Compensatory tree planting has not been started yet.	Night-time lighting with appropriate controls was used from 1 to 30 September 2012.	Noise enclosure was erected over the shaft. A yellow tone, similar to the colour of the existing STW façade, was used for the materials of the noise enclosure.	The Contractor was asked to implement all the necessary measures to protect the trees.
Sandy Bay	No major excavation works had been	Existing trees have been retained on site,	No tree was transplanted during	Not applicable - Compensatory	Night-time lighting with appropriate	Decorative screen hoarding compatible	The Contractor was asked to implement all the necessary

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**
	conducted since the last audit. No stockpile of excavated soil was observed.	fenced off and protected properly except for the retained/ transplanted trees T017(T), T021(R), T027(R), T028(R), T038(T), T039(R), T044(R), T046(R), T053(R) and T058(R)	this reporting month.	tree planting has not been started yet.	controls was used from 1 to 30 September 2012.	with the surrounding setting was erected..	measures to protect the trees.
Wah Fu	No major excavation works had been conducted since the last audit. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly.	Not Applicable - No existing tree was identified to be within the works area.	Not applicable - No existing tree was identified to be within the works area.	Not applicable - No night-time lighting was used.	Screening compatible with the surrounding setting was erected..	Not required
Aberdeen	No major excavation works had been conducted since the last audit. No stockpile of excavated soil was observed.	Existing trees have been retained on site, fenced off and protected properly except for the retained/ transplanted trees T003(T), T076(R), T078(R), T079(R), T080(R), T081(R), T083(R), T084(R)	All the tree transplantation works had been completed and all transplanted trees were properly supported by tripods.	Not applicable - Compensatory tree planting has not been started yet.	Not applicable - No night-time lighting was used.	Grey screen hoarding compatible with the surrounding setting. was erected.	The Contractor was asked to implement all the necessary measures to protect the trees.

	
Cyperport site --- Photo 19	**Cyperport site --- Photo 20**
Excessive weeds were observed within the root zone of the retained tree T66(R).	A tarpaulin sheet was hung from the branch of the retained tree T72(R) using a rope.

_____

(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.: 147

Date of Notification: 11th July 2012

Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 5th July 2012

Noise Monitoring Location: M6a — Aegean Terrace

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 5h July 2012		
23:00–07:00 hrs Normal weekday	1 complaint	50 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				52.5 dB(A)	53.6 dB(A)	52.4 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 5th July 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 : Keith Chau Title : Environmental Consultant

Date : 11th July 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 11th July 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.: 148

Date of Notification: 11th July 2012

Works Inspected: Data collected from daytime and evening time during general holiday (between 07:00-23:00 hrs) noise monitoring on 8th July 2012

Noise Monitoring Location: M5a — near entrance of Chuk Lam Ming Tong

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	13:22 – 13:37 hrs on 8th July 2012		
07:00–23:00 hrs	1 complaint	60 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				62.0 dB(A)	61.3 dB(A)	62.5 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 8th July 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 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).

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 July 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 11th July 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.: 149

Date of Notification: 11 July 2012

Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 10th July 2012

Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 10th July 2012		
23:00–07:00 hrs Normal weekday	1 complaint	45 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				60.0 dB(A)	61.3 dB(A)	61.5 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 10th July 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 6th 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 July 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 11th July 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.: 150

Date of Notification: 23rd July 2012

Works Inspected: Data collected from normal weekday night time (between 23:00-07:00 hrs of next day) noise monitoring on 19th July 2012

Noise Monitoring Location: M3 — Kwan Yick Building Phase III

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 19th July 2012		
23:00–07:00 hrs Normal weekday	1 complaint	55dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				65.7 dB(A)	65.5 dB(A)	65.7 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 19th July 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 2nd 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 : 23rd July 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 23rd July 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.: 151

Date of Notification: 30 July 2012

Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 26th July 2012

Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 26th July 2012		
23:00–07:00 hrs Normal weekday	1 complaint	45 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				57.5 dB(A)	53.0 dB(A)	62.1 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 26th July 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 6th 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 : 30th July 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 30th July 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.: 152

Date of Notification: 7th August 2012

Works Inspected: Data collected from normal weekday night time (between 23:00-07:00 hrs of next day) noise monitoring on 2nd August 2012

Noise Monitoring Location: M3 — Kwan Yick Building Phase III

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 2nd August 2012		
23:00–07:00 hrs Normal weekday	1 complaint	55dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				66.1 dB(A)	64.5 dB(A)	65.5 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 2nd August 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 2nd 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 : 7th August 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 7th August 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.: 153

Date of Notification: 9th August 2012

Works Inspected: Data collected from daytime and evening time during general holiday (between 07:00-23:00 hrs) noise monitoring on 5th August 2012

Noise Monitoring Location: M5a — near entrance of Chuk Lam Ming Tong

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	10:39 – 10:54 hrs on 5th August 2012		
07:00–23:00 hrs	1 complaint	60 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				64.3 dB(A)	61.7 dB(A)	63.8 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 5th August 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 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).

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 : Eva Keung Title : Environmental Technician

Eva

Date : 9th August 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 9th August 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.: 154

Date of Notification: 9 August 2012

Works Inspected: TSP-Data collected from sampling on 8 August 2012

Monitoring Location: Station CM_WF1a, The Wah Ming House

Parameter: 1 hour Total Suspended Particulates (1-hr TSP)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	AL (µg/m^3)	LL (µg/m^3)	MEASURED LEVEL, µg/m^3
1-hr TSP	CM_WF1a	284.5	500	**332.9**

Possible reason for Action or Limit Level Non-compliance:

On 8 August 2012, an exceedance of the Action Level for 1-hr TSP was recorded at Station CM_WF1a, The Wah Ming House air quality monitoring station.

Key works carried out by Contractor during the monitoring period included the following:

- Mucking

According to the site staff recorded, the poor air quality was observed during sampling day. The weather conditions were very hazy with very low visibility (shown as Photo 1). According to data from EPD, pollutants (NO_2, O_3 and RSP) record on 8 August was relatively high (from 85.1 to 116.9). Based on observations, dust emissions from the HATS construction site was very low.

It is concluded that the above exceedance was not resulted from site activities but the regional poor air quality in Hong Kong.

Actions taken/ to be taken:

As the 1-hr TSP exceedance was not related to project works, no immediate actions are considered necessary. The Contractor is reminded to suppress potential dust generation during the construction works.

Inspected by : Ruby Law Title : Environmental Technician

Date : 9th August 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 9th August 2012

Sent to : PRE, Contractor, CEDD, EPD & IEC

Photo 1 The hazy condition during monitoring at Wah Fu

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.: 155

Date of Notification: 21st August 2012

Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 17th August 2012

Noise Monitoring Location: M6a — Aegean Terrace

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 17th August 2012		
23:00–07:00 hrs Normal weekday	1 complaint	50 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				52.5 dB(A)	54.1 dB(A)	47.9 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 17th August 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-RS0637-12.

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 : 21st August 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 21st August 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.: 156

Date of Notification: 27 August 2012

Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 22nd August 2012

Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 22nd August 2012		
23:00–07:00 hrs Normal weekday	1 complaint	45 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				56.2 dB(A)	62.0 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 night-time noise monitoring at M5a on 22nd August 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 6th 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 : 27th August 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 27th August 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.: 157

Date of Notification: 31 August 2012

Works Inspected: TSP-Data collected from sampling on 28 August 2012

Monitoring Location: Station CM_CB1a, The Arcade, Cyberport

Parameter: 1 hour Total Suspended Particulates (1-hr TSP)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	AL ($\mu g/m^3$)	LL ($\mu g/m^3$)	MEASURED LEVEL, $\mu g/m^3$
1-hr TSP	CM_CB1a	279.9	500	**465.7**
1-hr TSP	CM_CB1a	279.9	500	**391.0**
1-hr TSP	CM_CB1a	279.9	500	**281.2**

Possible reason for Action or Limit Level Non-compliance:

On 28 August 2012, exceedances of the Action Level for 1-hr TSP was recorded at Station CM_CB1a, The Arcade, Cyberport air quality monitoring station.

Key works carried out by Contractor during the monitoring period included the following:

- Shotcrete in tunnel

According to the site staff recorded, the poor air quality was observed during sampling day. The weather conditions were very hazy with very low visibility. According to data from EPD, pollutants (NO_2, O_3 and RSP) record on 28 August was relatively high (from 83.5 to 182.9) (shown as Figure 1). Based on observations, dust emissions from the HATS construction site was very low.

It is concluded that the above exceedance was not resulted from site activities but the regional poor air quality in Hong Kong.

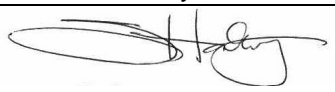
Actions taken/ to be taken:

As the 1-hr TSP exceedance was not related to project works, no immediate actions are considered necessary. The Contractor is reminded to suppress potential dust generation during the construction works.

Inspected by : Ruby Law Title : Environmental Technician

Date : 31st August 2012

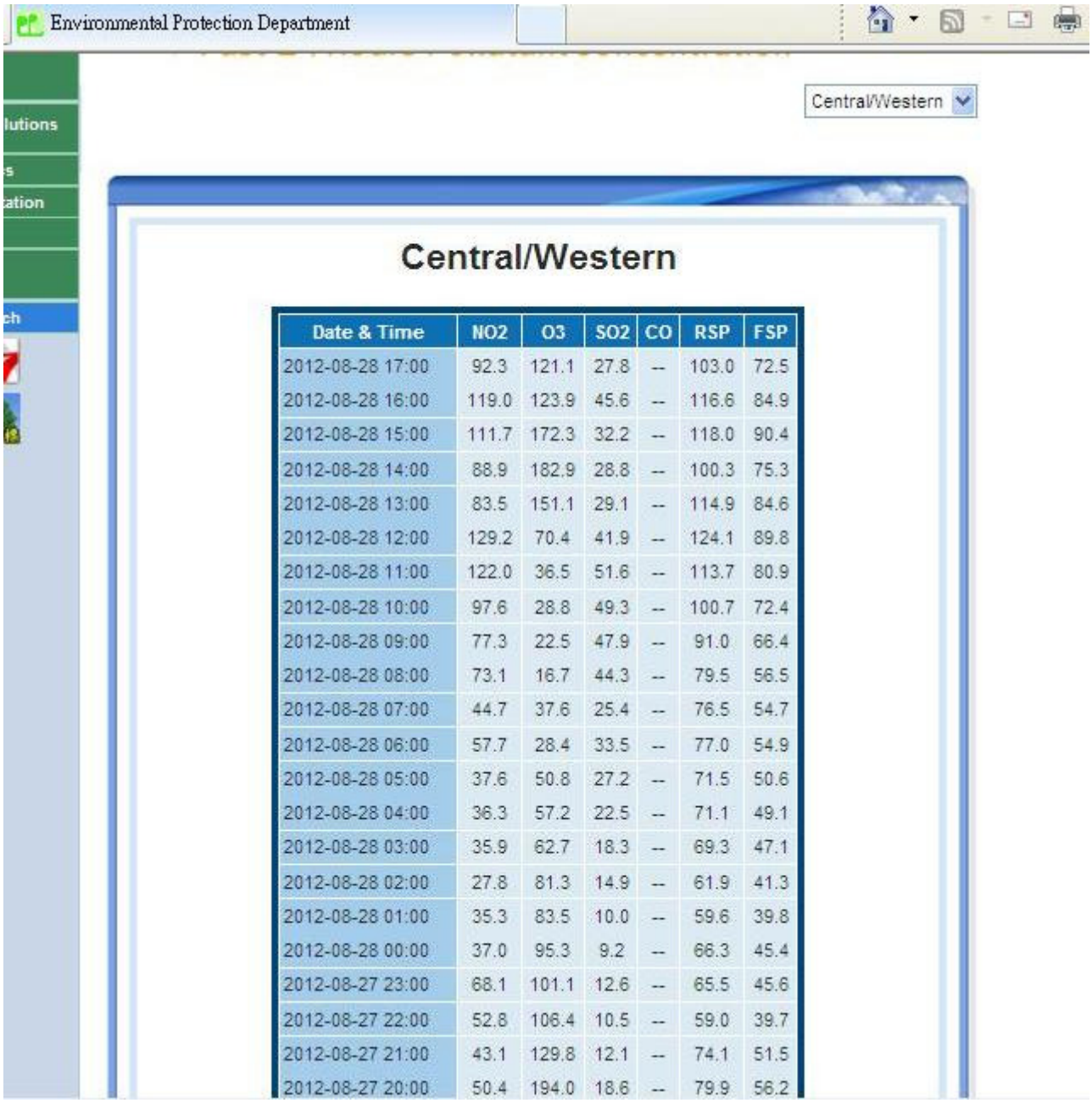
Reviewed and approved by : Susana Halliday Title : Environmental Team Leader



Date : 31st August 2012

Sent to : PRE, Contractor, CEDD, EPD & IEC

Figure 1 The hazy condition during monitoring at Wah Fu



Central/Western

Date & Time	NO2	O3	SO2	CO	RSP	FSP
2012-08-28 17:00	92.3	121.1	27.8	--	103.0	72.5
2012-08-28 16:00	119.0	123.9	45.6	--	116.6	84.9
2012-08-28 15:00	111.7	172.3	32.2	--	118.0	90.4
2012-08-28 14:00	88.9	182.9	28.8	--	100.3	75.3
2012-08-28 13:00	83.5	151.1	29.1	--	114.9	84.6
2012-08-28 12:00	129.2	70.4	41.9	--	124.1	89.8
2012-08-28 11:00	122.0	36.5	51.6	--	113.7	80.9
2012-08-28 10:00	97.6	28.8	49.3	--	100.7	72.4
2012-08-28 09:00	77.3	22.5	47.9	--	91.0	66.4
2012-08-28 08:00	73.1	16.7	44.3	--	79.5	56.5
2012-08-28 07:00	44.7	37.6	25.4	--	76.5	54.7
2012-08-28 06:00	57.7	28.4	33.5	--	77.0	54.9
2012-08-28 05:00	37.6	50.8	27.2	--	71.5	50.6
2012-08-28 04:00	36.3	57.2	22.5	--	71.1	49.1
2012-08-28 03:00	35.9	62.7	18.3	--	69.3	47.1
2012-08-28 02:00	27.8	81.3	14.9	--	61.9	41.3
2012-08-28 01:00	35.3	83.5	10.0	--	59.6	39.8
2012-08-28 00:00	37.0	95.3	9.2	--	66.3	45.4
2012-08-27 23:00	68.1	101.1	12.6	--	65.5	45.6
2012-08-27 22:00	52.8	106.4	10.5	--	59.0	39.7
2012-08-27 21:00	43.1	129.8	12.1	--	74.1	51.5
2012-08-27 20:00	50.4	194.0	18.6	--	79.9	56.2

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.: 158

Date of Notification: 31st August 2012

Works Inspected: Data collected from normal weekday night time (between 23:00-07:00 hrs of next day) noise monitoring on 30th August 2012

Noise Monitoring Location: M3 — Kwan Yick Building Phase III

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 30th August 2012		
23:00–07:00 hrs Normal weekday	1 complaint	55dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				65.7 dB(A)	64.8 dB(A)	64.4 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 30th August 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 2nd 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 August 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 31st August 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.: 159

Date of Notification: 7th September 2012

Works Inspected: Data collected from daytime and evening time during general holiday (between 07:00-23:00 hrs) noise monitoring on 2nd September 2012

Noise Monitoring Location: M5a — near entrance of Chuk Lam Ming Tong

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	16:35 – 16:50 hrs on 2nd September 2012		
07:00–23:00 hrs	1 complaint	60 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				67.5 dB(A)	64.2 dB(A)	65.1 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 2nd September 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-RS0853-12.

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).

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 : 7 September 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 7 September 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.: 160

Date of Notification: 7 September 2012

Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 5th September 2012

Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 5th September 2012		
23:00–07:00 hrs Normal weekday	1 complaint	45 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				59.7 dB(A)	50.5 dB(A)	62.4 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 5th September 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-RS0835-12.

A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 6th 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 : 7th September 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 7th September 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.: 161

Date of Notification: 17th September 2012

Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 11th September 2012

Noise Monitoring Location: M6a — Aegean Terrace

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 11th September 2012		
23:00–07:00 hrs Normal weekday	1 complaint	50 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				49.2 dB(A)	50.3 dB(A)	53.1 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 11th September 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-RS0637-12.

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 : 17th September 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 17th September 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.: 162

Date of Notification: 21st September 2012

Works Inspected: Data collected from normal weekday night time (between 23:00-07:00 hrs of next day) noise monitoring on 19th September 2012

Noise Monitoring Location: M3 — Kwan Yick Building Phase III

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 19th September 2012		
23:00–07:00 hrs Normal weekday	1 complaint	55dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				65.5 dB(A)	65.5 dB(A)	65.7 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 19th September 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-RS0914-12.

A background noise level (BGL) monitoring was conducted on 2nd 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 September 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 21st September 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.: 163

Date of Notification: 8 October 2012

Works Inspected: Data collected from evening-time (between 19:00-23:00 hrs) noise monitoring on 25th September 2012

Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	22:45 – 23:00 hrs on 25th September 2012		
19:00–23:00 hrs Normal weekday	1 complaint	60 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				65.5 dB(A)	56.5 dB(A)	64.1 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 25th September 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-RS0835-12.

A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 6th 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 : 8th October 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 8th October 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.: 164

Date of Notification: 5 October 2012

Works Inspected: Data collected from night-time (between 23:00-07:00 hrs of next day) noise monitoring on 25th September 2012

Noise Monitoring Location: M5a —near entrance of Chuk Lam Ming Tong

Parameter: Noise - $L_{eq(5\ min)}$

Action & Limit Levels			**Measured Noise Level ***			
Time Period	Action Level	Limit Level	Time :	23:00 – 23:15 hrs on 25th September 2012		
23:00–07:00 hrs Normal weekday	1 complaint	45 dB(A)	$L_{eq(5\ min)}$ reading	1st	2nd	3rd
				57.6 dB(A)	63.3 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 25th September 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-RS0835-12.

A baseline noise level monitoring at this monitoring location (for restricted hours) was conducted on 6th 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 : 5th October 2012

Reviewed and approved by : Susana Halliday Title : Environmental Team Leader

Date : 5th October 2012

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

APPENDIX I

SUMMARY RECORDS OF SITE INSPECTION

4 July 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Waste Management:

1. Trashes were found next to the skip near the gate.(Photo 1)

Chemical Management:

1. An oil barrel without drip tray was found in the workshop since last inspection. (Photo 2)

General Housekeeping

1. Stagnant water pools were found under the stockpiles near the entrance gate and in the drip tray, skip and on the shelter of equipments in the workshop area since last inspection. (Photos 3,4,5 and 6)

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

Previous Environmental Site Inspection Checklist – Report No. 120626

General Housekeeping:

1. The issue of water accumulation, Chemical Management and Waste Management were not improved in workshop.

Current Environmental Site Inspection Checklist – Report No. 120704

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 next to the skip near the gate

Photo 2 An oil barrel without drip tray was found in the workshop since last inspection.

Photo 3 Stagnant water pools were found under the stockpiles near the entrance gate

Photo 4 Stagnant water pools were found under the stockpiles near the entrance gate

Photo 5 Stagnant water pools were found in the drip tray

Photo 6 Stagnant water pools were found on the shelter of equipments in the workshop area.

Cyberport PTW

Notes / Issues Recorded On Site:

Chemical Storage:

1. Chemicals without drip tray were found on the access near the noise enclosure since 19th June 2012. (Photo 1)

General Housekeeping:

1. Water accumulation was found in drip tray since last inspection. (Photo 3)

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

Previous Environmental Site Inspection Checklist – Report No. 120626

Waste Management:

1. Soil droplets near stockpiles near the noise enclosure were cleared. (Photo 2)

Current Environmental Site Inspection Checklist – Report No. 120704

Chemical Storage:

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

General Housekeeping:

1. The contractor is reminded to clear the water accumulated in drip tray.

Photo 1 Chemicals 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.

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Photo 3 Some water accumulation was found in drip tray near the noise enclosure

Fung Mat Road Site

Notes / Issues Recorded On Site:

Waste Oil Management:

1. Some oil droplets were found near stockpiles in the noise enclosure since last inspection.(Photo 1)

Chemical Storage:

1. Chemical barrels without drip tray were found. (Photo 2)

Previous Environmental Site Inspection Checklist – Report No. 120626

Air Quality:

1. Cement bags were covered properly. (Photo 3)

Waste Oil Management:

1. Some oil droplets were found near stockpiles in the noise enclosure since 19th June 2012.(Photo 1)

Current Environmental Site Inspection Checklist – Report No. 120626

Waste Oil Management:

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

Chemical Storage:

1. The contactor was reminded to provide drip tray to chemical barrels in the stockpiles area.

Photo 1 Some oil droplets were found near stockpiles in the noise enclosure since last inspection.

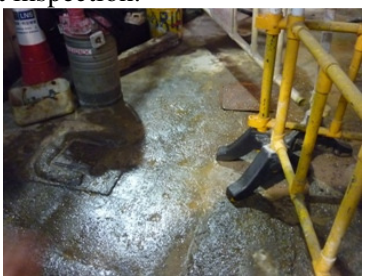


Photo 2 Chemical barrels without drip tray were found

Photo 3 Cement bags were covered properly

Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

1. Chemicals were found outside the chemical storage area since last inspection.(Photo 1)
2. Liquid state battery was stored improperly near the fuel storage area since last inspection. (Photo 2)
3. Chemical storage area was unlocked during inspection. (Photo 3)
4. Chemical barrel was found near the AMV plant. (photo 4)

General Housekeeping:

1. Water accumulation was found behind the storage container. (Photo 5).
2. The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012.(Photo 6)

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

Previous Environmental Site Inspection Checklist – Report No. 120626

General Housekeeping:

1. Oil drums were found 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. Good practice of recycling was carrying out.

Chemical Management:

1. Oil contaminated soil near the fuel storage area was cleared (Photo 7)

Current Environmental Site Inspection Checklist – Report No. 120704

Chemical Management:

1. The contractor was reminded to store the chemicals and battery in the designated areas.
2. Chemical Storage areas should be locked all the time.

General Housekeeping:

1. The contractor is reminded to clear stagnant water behind the storage container to prevent mosquito breeding.

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 Oil drum without drip tray was found near the AMV plant

Photo 5 Water accumulation was found behind the storage container

Photo 6 The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012

Photo 7 Oil contaminated soil near the fuel storage area was cleared

Wah Fu PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found on the public access pathway near the site boundary since last inspection. (Photo 1)

Waste oil:

1. Oil droplets were found on sand bags near chemical container. (Photo 2)

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

Previous Environmental Site Inspection Checklist – Report No. 120626

General Housekeeping:

1. Oil and water mix in drip tray near the air compressor was cleared. (Photo 3)

Chemical Management:

1. Labels had been provided to chemical in the skip.(Photo 4)

Current Environmental Site Inspection Checklist – Report No. 120704

General Housekeeping:

1. The contractor is reminded to clear accumulated water in public access pathway.

Waste oil:

1. The contractor is reminded to clear oil droplets on sand bags near chemical container.

Photo 1 Water accumulation was found on the public access pathway that is 1.5m from the site boundary since last inspection.

Photo 2 Oil droplets were found on sand bags near chemical container.

Photo 3 Oil and water mix in drip tray near the air compressor was cleared.

Photo 4 Labels had been provided to chemical in the skip.

10 July 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Waste Management:

1. Trashes were found next to the skip near the gate and near stockpiles. (Photos 1 and 2)

Chemical Management:

1. An oil barrel without drip tray was found in the workshop area. (Photo 3)

General Housekeeping

1. Stagnant water pools were found under the stockpiles near the entrance gate and in the drip tray and on the shelter of equipments in the workshop area since last inspection. (Photos 4, 5 and 6)
2. The larvicidal oil record was missing.

Landscape and Visual Impacts:

1. Construction material was found observed being stored very close to the roots of the retained tree(T003) (Photo 7)

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

Previous Environmental Site Inspection Checklist – Report No. 120704

General Housekeeping:

1. The issue of water accumulation, Chemical Management and Waste Management were not improved in workshop.

Current Environmental Site Inspection Checklist – Report No. 120710

General Housekeeping:

1. The contractor is strongly reminded to clear the stagnant water pools and prevent the water accumulation in the workshop.
2. The contractor is reminded to keep the larvicidal oil record properly and ready for inspection.

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.

Landscape and Visual Impacts:

1. The Contractor was reminded to remove the construction materials from retained tree (T003).

Photos 1 and 2 Trashes were found next to the skip near the gate

Photo 3 An oil barrel without drip tray was found in the workshop area.

Photo 4 Stagnant water pools were found under the stockpiles near the entrance gate.

Photo 5 Stagnant water pools were found on the shelter of equipments in the workshop area.

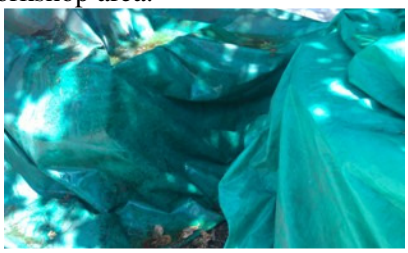


Photo 6 Stagnant water pools were found in the drip tray

Photo 7 Construction material was stored very close to the retained tree (T003)

Photo 8 The record of larvicidal oil was missing

Cyberport PTW

Notes / Issues Recorded On Site:

Chemical/Waste Storage:

1. Chemicals without drip tray were found on the access near the noise enclosure since 19th June 2012. (Photo 1)
2. Empty chemical were stored improperly. (Photo 2)

General Housekeeping:

1. Water accumulation was found in drip tray since last inspection (Photo 3) and also found on shelter of stockpiles. (Photo 4)

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

Previous Environmental Site Inspection Checklist – Report No. 120704

Nil.

Current Environmental Site Inspection Checklist – Report No. 120710

Chemical/Waste Storage:

1. The contractor is reminded to provide drip tray to chemical containers on the access near the noise enclosure.
2. The contractor is recommended that empty chemical were stored properly.

General Housekeeping:

1. The contractor is reminded to clear the water accumulated in drip tray.

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

Photo 2 Empty chemical were stored improperly

Photo 3 Some water accumulation was found in drip tray near the noise enclosure

Photo 4 Water accumulation was found on shelter of stockpiles.

Fung Mat Road Site

Notes / Issues Recorded On Site:

Waste Oil Management:

1. Oil droplets were found near stockpiles in the noise enclosure since last inspection.(Photo 1)

Chemical Storage:

1. Chemical barrels without drip tray were found. (Photo 2)

Previous Environmental Site Inspection Checklist – Report No. 120705

Waste Oil Management:

1. Oil droplets near stockpiles in the noise enclosure since had been reduced.(Photo 1)

Current Environmental Site Inspection Checklist – Report No. 120710

Waste Oil Management:

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

Chemical Storage:

1. The contactor was reminded to provide drip tray to chemical barrels in the stockpiles area.

Photo 1 Some oil droplets were found near stockpiles in the noise enclosure since last inspection.

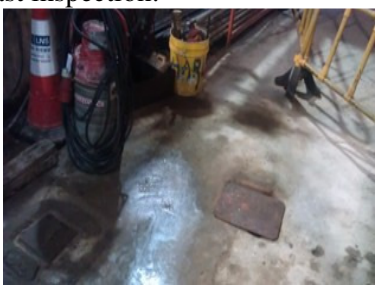


Photo 2 Chemical barrels without drip tray were found

Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

1. Chemicals were found outside the chemical storage area since inspection on 26th May 2012 .(Photo 1)
2. Liquid state battery was stored improperly near the fuel storage area since inspection on 26th May 2012. (Photo 2)
3. Chemical storage area was unlocked during inspection. (Photo 3)
4. Chemical barrel was found near the AMV plant. (photo 4)

General Housekeeping:

1. Water accumulation was found behind the storage container and shelter of stockpiles. (Photo 5).
2. The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012.(Photo 6)

Waste Oil Management:

1. Oil droplets was found near the chemical storage.(Photo 7)

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

Previous Environmental Site Inspection Checklist – Report No. 120704

General Housekeeping:

1. Oil drums were found without drip trays.
2. The item of dilapidation roof was still outstanding. The contractor will arrange the worker to repair the dilapidation roof.

Current Environmental Site Inspection Checklist – Report No. 120710

Chemical Management:

1. The contractor was reminded to store the chemicals and battery in the designated areas.
2. Chemical Storage areas should be locked all the time.

General Housekeeping:

1. The contractor is reminded to clear stagnant water behind the storage container shelter of stockpiles to prevent mosquito breeding.

Waste Oil Management:

1. The contractor is reminded to clear the oil droplets with oil dispenser.

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 Oil drum without drip tray was found near the AMV plant

Photo 5 Water accumulation was found behind the storage container and shelter of stockpiles

Photo 6 The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012

Photo 7 Oil droplets were found near the chemical storage.

Wah Fu PTW

Notes / Issues Recorded On Site:

Waste oil:

1. Oil droplets were found on sand bags near chemical container since last inspection. (Photo 2)

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

Previous Environmental Site Inspection Checklist – Report No. 120704

General Housekeeping:

1. Water accumulation on the public access pathway near the site boundary was cleared. (Photo 1)

Chemical Management:

Current Environmental Site Inspection Checklist – Report No. 120710

Waste oil:

1. The contractor is reminded to clear oil droplets on sand bags near chemical container.

Photo 1 Water accumulation on the public access pathway near the site boundary was cleared.

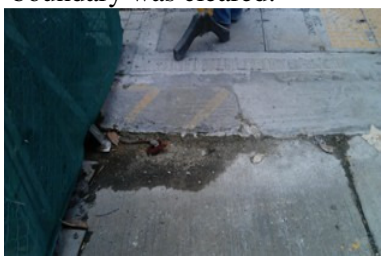


Photo 2 Oil droplets were found on sand bags near chemical container since last inspection.

17 July 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Chemical Management:

1. Some chemical drums were found without suitable labels and drip tray next to air compressor near the mobile crane (Photo 1) and near the retained tree near plants stockpiles in workshop.(Photo 2)

General Housekeeping:

1. Stagnant water pool was found under the stockpiles near the entrance gate since last inspection. (Photo 3)
2. The larvicidal oil record was still missing since last inspection.

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

Previous Environmental Site Inspection Checklist – Report No. 120417

General Housekeeping:

1. Trashes next to the skip near the gate and near stockpiles were cleared.
2. Stagnant water pools in the drip tray was cleared.(Photos 4 and 5)

Landscape and Visual Impacts:

1. Construction material was moved away from the roots of the retained tree(T003) (Photo 6)

Current Environmental Site Inspection Checklist – Report No. 120424

General Housekeeping:

2. The contractor was reminded to clean the stagnant water to avoid the mosquito breeding.
3. The contractor is reminded to provide the larvicidal oil record for inspection.

Chemical Management:

1. The contractor was reminded to provide drip tray and labels to chemical in site.

Photo 1 Some chemical drums were found without suitable labels and drip tray next to air compressor near the mobile crane.

Photo 2 Some chemical drums were found near the retained tree near plants stockpiles in workshop.

Photo 3	Stagnant water pool was found under the stockpiles near the entrance gate since last inspection	Photo 4	Stagnant water pools in the drip tray was cleared

Cyberport PTW

Notes / Issues Recorded On Site:

Chemical/Waste Storage:

1. Chemical spill on the ground near the channel.(Photo 5)

General Housekeeping:

1. Garbage was found near the electric box outside the noise enclosure. (Photo6)

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

Previous Environmental Site Inspection Checklist – Report No. 120710

Due to no inspection had been undertaken, items of Chemical/Waste Storage and General Housekeeping which found out in inspection on 19th June 2012 will be follow up in next inspection.

Chemical/Waste Storage:

3. Chemicals without drip tray were found on the access near the noise enclosure since 19th June 2012. (Photo 1)
4. Empty chemical containers were stored improperly. (Photo 2)

General Housekeeping:

Water accumulation was found in drip tray since last inspection (Photo 3) and also found on shelter of stockpiles. (Photo 4)

Current Environmental Site Inspection Checklist – Report No. 120717

Chemical/Waste Storage:

3. The contractor is reminded to provide drip tray to chemical containers on the access near the noise enclosure.
4. The contractor is recommended that empty chemical containers shall be stored or disposed properly.
5. The contractor is reminded to cleared chemical properly avoid chemical leaking.

General Housekeeping:

2. The contractor is reminded to clear the water accumulated in drip tray.
3. The contractor is suggested to avoid potential stagnant pool with garbage.

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

Photo 2 Empty chemical containers were stored improperly

Photo 3 Some water accumulation was found in drip tray near the noise enclosure

Photo 4 Water accumulation was found on shelter of stockpiles.

Photo 5 Chemical spill on the ground near the channel

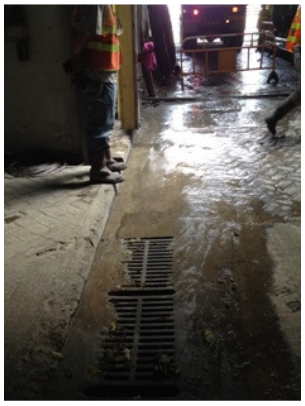


Photo 6 Garbage was found near the electric box outside the noise enclosure

Fung Mat Road Site

Notes / Issues Recorded On Site:
Chemical Management:

1. Some chemical containers were found without labels and drip tray near stockpiles. (Photo 1)

Previous Environmental Site Inspection Checklist – Report No. 120710

General Housekeeping:

1. The oil droplets were cleared.

Current Environmental Site Inspection Checklist – Report No. 120717

Chemical Management:

1. The contactor was reminded to provide suitable labels and drip tray to chemical containers near stockpiles.

Photo 1 Some chemical containers were found without labels and drip tray near stockpiles

Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

5. Chemicals were found outside the chemical storage area since inspection on 26th May 2012 .(Photo 1)
6. Oil barrels were found without drip trays.(Photo 2)
7. Chemical barrel was found without near the AMV plant. (photo 3)

General Housekeeping:

3. Water accumulation was found behind the storage container (Photo 4), drip tray near the Dangerous Goods Storage (Photos 5 and 6) and near the plant in front of site office. (Photo 7).
4. The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012.(Photo 8)

Waste Oil Management:

2. Oil remaining was found near the chemical storage (Photo 9) and near the plant next to noise enclosure.(Photos 10 and 11)

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

Previous Environmental Site Inspection Checklist – Report No. 120710

Chemical Management:

1. Liquid state battery near the fuel storage was removed.
2. Chemical storage area had been locked. (Photo 12)

General Housekeeping:

1. The item of dilapidation roof was still outstanding. The contractor will arrange the worker to repair the dilapidation roof.

Current Environmental Site Inspection Checklist – Report No. 120717

Chemical Management:

3. The contractor was reminded to store the chemicals in the designated areas.
4. According to contractor, a container for chemical storage has been ordered and waiting the delivery, the contractor is suggested to provide sand bags for temporary boundary to prevent oil leaking.

General Housekeeping:

2. The contractor is reminded to clear stagnant water behind the storage container shelter of stockpiles, drip tray near the Dangerous Goods Storage and near the plant in front of site office to prevent mosquito breeding.

Waste Oil Management:

2. The contractor is reminded to clear the oil droplets near the chemical storage and near the plant next to noise enclosure with oil dispenser.

Photo 1 Chemicals were found outside the chemical storage area.

Photo 2 Oil barrels were found without drip trays

Photo 3 Chemical barrel was found without near the AMV plant.

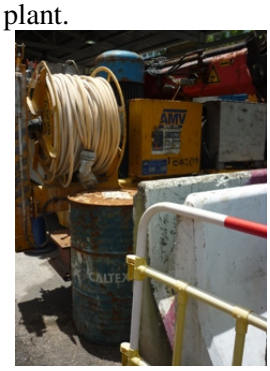


Photo 4 Water accumulation was found behind the storage container

Photos 5 and 6 Water accumulation was found in drip tray near the Dangerous Goods Storage

Photo 7 Water accumulation was found near the plant in front of site office The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012

Photo 8 The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012.

Photo 9 Oil remaining was found near the chemical storage

Wah Fu PTW

Notes / Issues Recorded On Site:
General Housekeeping:

1. Stagnant water was found in skip on noise enclosure cover (Photo 1)

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

Previous Environmental Site Inspection Checklist – Report No. 120710

Waste Oil management:

1. The sand bag with oil droplets was removed. (photo 2)

Current Environmental Site Inspection Checklist – Report No. 120717

Waste / Chemical Management:

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

Photo 1 Stagnant water was found in skip on noise enclosure cover

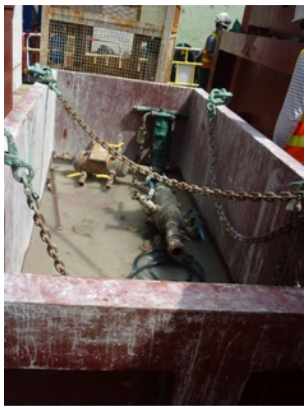


Photo 2 The sand bag with oil droplets was removed

27 July 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Chemical Management:

2. Some chemical drums were found without suitable labels and drip tray next to air compressor near the mobile crane (Photo 1) and near the retained tree near plants stockpiles in workshop.(Photo 2)

General Housekeeping:

3. Stagnant water pool was found under the stockpiles near the entrance gate since last inspection (17 July 2012). (Photo 3)

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

Previous Environmental Site Inspection Checklist – Report No. 120717

General Housekeeping:

3. The larvicidal oil record was displayed on notice board for inspection.(Photo 4)

Current Environmental Site Inspection Checklist – Report No. 120727

General Housekeeping:

4. The contractor was reminded to clean the stagnant water to avoid the mosquito breeding.

Chemical Management:

1. The contractor was reminded to provide drip tray and labels to chemical next to air compressor near the mobile crane and
   near the retained tree near plants stockpiles in workshop.

Photo 1 Some chemical drums were found without suitable labels and drip tray next to air compressor near the mobile crane.

Photo 2 Some chemical drums were found near the retained tree near plants stockpiles in workshop.

Photo 3 Stagnant water pool was found under the stockpiles near the entrance gate since last inspection

Photo 4 The larvicidal oil record was displayed on notice board for inspection

Cyberport PTW

Notes / Issues Recorded On Site:

Chemical/Waste Storage:

1. Chemicals without drip tray were found on the access near the noise enclosure since 19th June 2012. (Photo 1)

General Housekeeping:

1. Water accumulation was found in drip tray since last inspection (Photo 2) and in the plastic containers near noise enclosure. (Photo 3)

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

Previous Environmental Site Inspection Checklist – Report No. 120717

Chemical/Waste Storage:

1. Empty chemical containers were reduced. According to contractor, those empty used containers was scheduled to collect by license waste collector.(Photo 4)
2. Chemical spill on the ground near the channel was cleared. (Photo 5)

Current Environmental Site Inspection Checklist – Report No. 120727

Chemical/Waste Storage:

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

General Housekeeping:

2. The contractor is reminded to clear the water accumulated in drip tray and plastic containers near noise enclosure.

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

Photo 2 Water accumulation was found in drip tray since last inspection

Photo 3 Water accumulation was found in the plastic containers near noise enclosure

Photo 4 Empty chemical containers were reduced.

Photo 5 Chemical spill on the ground near the channel was cleared

Fung Mat Road Site

Notes / Issues Recorded On Site:

Chemical Management:

2. Some chemical containers were found without labels and drip tray near stockpiles since last inspection. (Photo 1)

Previous Environmental Site Inspection Checklist – Report No. 120717

Nil.

Current Environmental Site Inspection Checklist – Report No. 120727

Chemical Management:

2. The contactor was reminded to provide suitable labels and drip tray for chemical containers near stockpiles.

Photo 1 Some chemical containers were found without labels and drip tray near stockpiles

Sandy Bay PTW

Notes / Issues Recorded On Site:

Chemical Management with inspection on 17 July 2012:

8. Chemicals were found outside the chemical storage area since inspection on 26th May 2012 .(Photo 1)
9. Oil barrels were found without drip trays.(Photo 2)
10. Chemical barrel was found without near the AMV plant. (photo 3)

General Housekeeping with inspection on 17 July 2012:

5. Water accumulation was found behind the storage container (Photo 4), drip tray near the Dangerous Goods Storage (Photos 5 and 6) and near the plant in front of site office. (Photo 7).

Waste Oil Management with inspection on 17 July 2012:

3. Oil remaining was found near the chemical storage (Photo 8) and near the plant next to noise enclosure.(Photos 9 and 10)

Chemical Management: (according to Contractor's inspection in tunnel)

1. Chemical was found without labels in Tunnel Adit of inspection on 27 July 2012.(Photo 11)

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

Previous Environmental Site Inspection Checklist – Report No. 120717

Chemical Management:

5. The contractor was reminded to store the chemicals in the designated areas.
6. According to contractor, a container for chemical storage has been ordered and waiting the delivery, the contractor is suggested to provide sand bags for temporary boundary to prevent oil leaking.

General Housekeeping:

3. The contractor is reminded to clear stagnant water behind the storage container shelter of stockpiles, drip tray near the Dangerous Goods Storage and near the plant in front of site office to prevent mosquito breeding.

Waste Oil Management:

3. The contractor is reminded to clear the oil droplets near the chemical storage and near the plant next to noise enclosure with oil dispenser.

Current Environmental Site Inspection Checklist – Report No. 120727

Chemical Management: (inspection in tunnel)

1. The contractor is suggested to provide suitable labels to chemical in Tunnel Adit.

Photo 1 Chemicals were found outside the chemical storage area.

Photo 2 Oil barrels were found without drip trays

Photo 3 Chemical barrel was found without near the AMV plant.

Photo 4 Water accumulation was found behind the storage container

Photos 5 and 6 Water accumulation was found in drip tray near the Dangerous Goods Storage

Photo 7 Water accumulation was found near the plant in front of site office The dilapidation roof of site office was found to avoid the water leakage in PTW since inspection on 29 May 2012

Photo 8 Oil remaining was found near the chemical storage

Photo 9 Oil was found near the plant next to noise enclosure

Wah Fu PTW

Notes / Issues Recorded On Site:
Due to no inspection had been under taken on 27 July 2012, the environmental issue will be follow up in next inspection.
General Housekeeping:

2. Stagnant water was found in skip on noise enclosure cover (Photo 1)

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

Previous Environmental Site Inspection Checklist – Report No. 120717

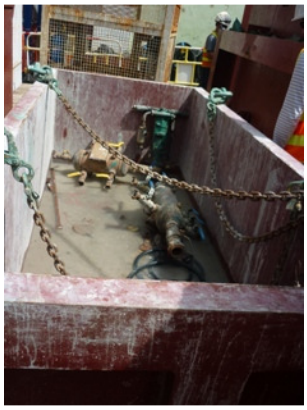
N/A

Current Environmental Site Inspection Checklist – Report No. 120727

Waste / Chemical Management:

2. The contractor was reminded to clean the accumulated water in skip on noise enclosure cover to prevent mosquito breeding.

Photo 1 Stagnant water was found in skip on noise enclosure cover



31 July 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Chemical Management:

3. Some chemical drums were found without suitable labels and drip tray next to air compressor near the mobile crane (Photo 1) and near the retained tree near plants stockpiles in workshop (Photo 2) since last inspection. (27 July 2012)

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

Previous Environmental Site Inspection Checklist – Report No. 120727

Chemical Management:

2. The contractor was reminded to provide drip tray and labels to chemical next to air compressor near the mobile crane and near the retained tree near plants stockpiles in workshop.

Current Environmental Site Inspection Checklist – Report No. 120731

Nil.

Photo 1 Some chemical drums were found without suitable labels and drip tray next to air compressor near the mobile crane.

Photo 2 Some chemical drums were found near the retained tree near plants stockpiles in workshop.

Cyberport PTW

Notes / Issues Recorded On Site:

Due to no inspection had been under taken on 31 July 2012, the environmental issue will be follow up in next inspection

Chemical/Waste Storage:

5. Chemicals without drip tray were found on the access near the noise enclosure since 19th June 2012. (Photo 1)

According to Contractor's inspection in tunnel)

6. Chemicals without drip tray were found in the tunnel adit. (Photo 4)

General Housekeeping:

3. Water accumulation was found in drip tray since last inspection (Photo 2) and in the plastic containers near noise enclosure. (Photo 3)

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

Previous Environmental Site Inspection Checklist – Report No. 120727

Chemical/Waste Storage:

6. The contractor is reminded to provide drip tray to chemical containers on the access near the noise enclosure.

General Housekeeping:

3. The contractor is reminded to clear the water accumulated in drip tray and plastic containers near noise enclosure

Current Environmental Site Inspection Checklist – Report No. 120731

Chemical/Waste Storage:

1. The contractor is reminded to provide drip tray to chemical containers in the tunnel adit.

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

Photo 2 Water accumulation was found in drip tray since last inspection

Photo 3 Water accumulation was found in the plastic containers near noise enclosure

Photo 4 Chemicals without drip tray were found in the tunnel adit.

Fung Mat Road Site

Notes / Issues Recorded On Site:

Chemical Management:

3. Some chemical containers were found without labels and drip tray near stockpiles since last inspection. (Photo 1)

Previous Environmental Site Inspection Checklist – Report No. 120727

Nil.

Current Environmental Site Inspection Checklist – Report No. 120731

Chemical Management:

3. The contactor was reminded to provide suitable labels and drip tray for chemical containers near stockpiles.

Photo 1 Some chemical containers were found without labels and drip tray near stockpiles

Sandy Bay PTW

Notes / Issues Recorded On Site:

Chemical Management:

11. Chemicals were found outside the chemical storage area.(Photo 1)

General:

6. Copies of Environmental Permit were wet / loosened after heavy rain. (Photo 2).

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

Previous Environmental Site Inspection Checklist – Report No. 120727

Chemical Management:

7. The contractor was reminded to store the chemicals in the designated areas.

Current Environmental Site Inspection Checklist – Report No. 120731

General:

1. The contractor was reminded to replace the copies of Environmental permit.

Photo 1 Chemicals were found outside the chemical storage area.

Photo 2 Copies of Environmental Permit were wet / loosened after heavy rain.

Wah Fu PTW

Notes / Issues Recorded On Site:

General Housekeeping:

3. Stagnant water was found in the I-beam (Photo 1)

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

Previous Environmental Site Inspection Checklist – Report No. 120727

1. The accumulated water in skip on noise enclosure cover was removed.

Current Environmental Site Inspection Checklist – Report No. 120731

Waste / Chemical Management:

3. The contractor was reminded to clean the accumulated water in the I-beam to prevent mosquito breeding.

Photo 1 Stagnant water was found in skip on noise enclosure cover

7 August 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Chemical Management:

2. Some chemical drums were found without suitable labels and drip tray next to air compressor near the mobile crane (Photo 1) since site inspection on 27 July 2012.
3. Some chemical barrels were found in workshop without suitable labels and drip tray (Photos 2, 3 and 4)

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

Previous Environmental Site Inspection Checklist – Report No. 120731

Chemical Management:

2. Chemical drum were found near the retained tree plants stockpiles in workshop was removed away the retain tree by contractor immediately but the chemical label still have not been attached.

Current Environmental Site Inspection Checklist – Report No. 120807

Chemical Management:

3. The contractor was reminded to provide suitable labels and drip tray to chemical barrels in workshop.

Photo 1 Some chemical drums were found without suitable labels and drip tray next to air compressor near the mobile crane

Photo 2 Some chemical barrels were found in workshop without suitable labels and drip tray

Photo 3 Some chemical barrels were found in workshop without suitable labels and drip tray

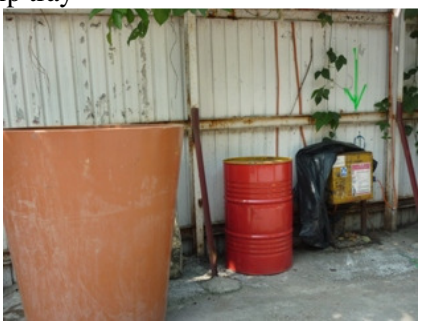


Photo 4 Some chemical barrels were found in workshop without suitable labels and drip tray

Cyberport PTW

Notes / Issues Recorded On Site:

General Housekeeping:

7. Water accumulation and trashes were found in skip inside the noise enclosure (Photo 1).

Water Quality:

2. The temporary drainage pipe was found with breakage (Photo 2)

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

Previous Environmental Site Inspection Checklist – Report No. 120731

Chemical/ Waste Storage:

2. The contractor provided some sand bags for temporary bunding (Photo 3)

Chemical/ Waste Storage which according to contractor's inspection in tunnel:

1. Drip tray has been provides to chemicals in the tunnel adit (Photo 4).

General Housekeeping:

1. The plastic containers located near the noise enclosure were removed (Photo 5).
2. The contractor was clearing water accumulation in drip tray (Photo 6).

Current Environmental Site Inspection Checklist – Report No. 120807

Chemical/ Waste Storage:

7. The contractor was reminded to clear the accumulated water and trashes in the skip inside the noise enclosure.

Water Quality:

4. The contractor was suggested to renew the breakage pipe.

Photo 1 Water accumulation and trashes were found in skip inside the noise enclosure

Photo 2 The temporary drainage pipe was found with breakage

Photo 3 The contractor provided some sand bags for temporary bunding

Photo 4 Drip tray has been provides to chemicals in the tunnel adit

Photo 5 The plastic containers located near the noise enclosure were removed

Photo 6 The contractor was clearing water accumulation in drip tray

Fung Mat Road Site

Notes / Issues Recorded On Site:
Nil.

Previous Environmental Site Inspection Checklist – Report No. 120731

Chemical Management:

2. Drip tray was provided to the chemical containers near the stockpiles (Photo 1).

Current Environmental Site Inspection Checklist – Report No. 120807

Nil.

Photo 1 Drip tray was provided to the chemical containers near the stockpiles

Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

1. Chemicals were found outside the chemical storage area since last site inspection (Photo 1).

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

Previous Environmental Site Inspection Checklist – Report No. 120731

General:

1. Copies of Environmental Permit were repainted and displayed at site exit (Photo 2).

Chemical Management:

2. According to the contractor, the delivery of a cargo for chemical storage was scheduled on mid of August.

Current Environmental Site Inspection Checklist – Report No. 120807

Chemical Management:

1. The contractor was reminded to place the chemical properly.

Photo 1 Chemicals were found outside the chemical storage area

Photo 2 Copies of Environmental Permit were wet/ loosened after heavy rain

Wah Fu PTW

Notes / Issues Recorded On Site:

Air Quality:

2. Cement bags were found without properly cover (Photo 1).

Waste oil:

2. Oil droplets were found on the ground near the stockpiles (Photo 2).

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

Previous Environmental Site Inspection Checklist – Report No. 120731

General Housekeeping:

2. Stagnant water in l-beam was cleared (Photo 3).

Current Environmental Site Inspection Checklist – Report No. 120807

Waste/Chemical Management:

2. The contractor was reminded to cover cement bags properly.

Waste oil:

2. The contractor was reminded to clear the oil droplets with oil dispenser.

Photo 1 Cement bags were found without properly cover

Photo 2 Oil droplets were found on the ground near the stockpiles

Photo 3 Stagnant water l-beam was cleared

14 August 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Chemical Management:

1. Some chemical drums were found without suitable labels and drip tray next to the air compressor near the mobile crane (Photo 1) since site inspection on 27 July 2012.
2. Some chemical barrels were found in workshop without suitable labels and drip tray (Photos 2, 3 and 4).

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

Previous Environmental Site Inspection Checklist – Report No. 120807

Chemical Management:

1. Chemical drum were found near the retained tree plants stockpiles in workshop was removed away the retain tree by contractor immediately but chemical label still have not been attached.

Current Environmental Site Inspection Checklist – Report No. 120814

Chemical Management:

1. The contractor was reminded to provide suitable label and drip tray to chemical barrels in the workshop.

Photo 1 Come chemical drums were found without suitable labels and drip tray next to the air compressor near the mobile crane

Photo 2 Some chemical barrels were found in the workshop without suitable labels and drip tray

Photo 3 Some chemical barrels were found in the workshop without suitable labels and drip tray

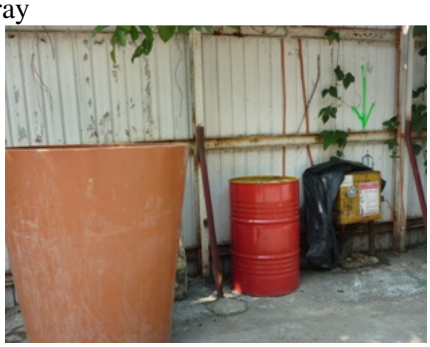


Photo 4 Some chemical barrels were found in the workshop without suitable labels and drip tray

Cyberport PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found in the chemical storage near the Aqua. sedimentation tank (Photo 1).

Chemical Management:

1. Some chemicals were found without drip tray near the noise enclosure (Photo 2).

Chemical Waste:

1. Contaminated soil was found near the drip tray (Photo 3).

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

Previous Environmental Site Inspection Checklist – Report No. 120807

General Housekeeping:

1. The skip inside the noise enclosure has been locked (Photo 4), the issue of water accumulated and trashes will be followed in the next inspection.

Current Environmental Site Inspection Checklist – Report No. 120814

General Housekeeping:

1. The contractor was reminded to clear the accumulated water in the chemical storage area near the Aqua. Sedimentation tank.

Chemical Management:

1. The contractor was suggested to provided drip tray to chemicals

Chemical Waste:

1. The contractor was reminded to treat the contaminated soil as chemical waste.

Photo 1 Water accumulation was found in the chemical storage near the Aqua. Sedimentation tank

Photo 2 Some chemicals were found without drip tray near the noise enclosure

Photo 3 Contaminated soil was found near the drip tray

Photo 4 The skip inside the noise enclosure has been locked

Fung Mat Road Site

Notes / Issues Recorded On Site:
Noise:
2. The door of noise enclosure was found broken (Photo 1).

Previous Environmental Site Inspection Checklist – Report No. 120807

Nil.

Current Environmental Site Inspection Checklist – Report No. 120814

Noise:
2. The contractor was recommended to repair the door of the noise enclosure as soon as possible.

Photo 1 The door of noise enclosure was found broken

Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:
1. Chemicals were found outside the chemical storage area (Photos 1 and 2).
2. Chemicals without labels were found in plant container (Photo 3).
3. Rechargeable batteries were placed improperly (Photo 4).

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

Previous Environmental Site Inspection Checklist – Report No. 120807

Chemical Management:
1. Chemicals near the washing hand facility were cleared.
2. According to the contractor, the delivery of cargo for chemical storage was scheduled on mid of August.

Current Environmental Site Inspection Checklist – Report No. 120814

Chemical Management:
1. The contractor was reminded to place chemical properly, and sand bags should be provided for temporary storage.
2. The contractor was reminded to provide suitable labels to chemicals.

Photo 1 Chemicals were found outside the chemical storage area

Photo 2 Chemicals were found outside the chemical storage area

Photo 3 Chemicals without labels were found in plant container

Photo 4 Rechargeable batteries were placed improperly

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. 120807** **Air Quality:** 1. Cement bags were covered properly (Photo 1). **Waste Oil:** 2. Oil droplets on the ground near the stockpiles were cleared (Photo 2). **Current Environmental Site Inspection Checklist – Report No. 120814** Nil.

Photo 1 Cement bags were covered properly

Photo 2 Oil droplets on the ground neat the stockpiles were cleared

21 August 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water pounding was found near the site entrance (Photo 1).

Chemical Management:

1. The issue of chemical drums without suitable labels and drip tray (Photo 2) will be inspecting in next inspection due to the access road had not been under site inspection.
2. Some chemical barrels were found in workshop without suitable labels and drip tray since the last inspection (Photo 3).

Waste Oil Treatment:

1. Oil droplets were found near the plants stockpile (Photo 4).
2. Oil spill out from drip tray was observed in workshop (Photo 5).
3. Oil stains were found under the air compressor near stockpiles in workshop (Photo 6).

Landscape and Visual Impacts:

1. The transplanted tree T003 was found without protective fence (Photo 7).

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

Previous Environmental Site Inspection Checklist – Report No. 120814

Chemical Housekeeping:

1. The issue of chemical drums without suitable labels and drip tray (Photo 2) will be inspected in next inspection due to the access road had not been under inspection.

Current Environmental Site Inspection Checklist – Report No. 120821

Chemical Management:

1. The contractor was reminded to provide suitable labels and drip tray to chemical barrels in workshop and near the air compressor in PTW.

Waste Oil Management:

1. The contractor was suggested that to clear waste oil with oil dispenser and ensure the air compressor functional well to prevent oil leaking.

Landscape and Visual Impacts:

1. The contractor was suggested to provide the tree protective fence toT003.

General Housekeeping:

1. The contractor was reminded to clear the accumulated water and ensure the drainage system is in good condition.

Photo 1 Water pounding was found near the site entrance

Photo 2 The issue of chemical drums without suitable labels and drip tray

Some chemical barrels were found in

Photo 4 Oil droplets were found near the plants stockpile

workshop without suitable labels and drip tray

Photo 3

Photo 5 Oil spill out from drip tray was observed in workshop

Photo 6 Oil stains were found under the air compressor near stockpiles in workshop

Photo 7 The transplanted tree T003 was found without protective fence

Cyberport PTW

Notes / Issues Recorded On Site:
General Housekeeping:
1. The broken folder that storage permits and licence was found near the entrance gate (Photo 1).

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

Previous Environmental Site Inspection Checklist – Report No. 120814

General Housekeeping:
1. The issue of water accumulated and trashes in the skip in the noise enclosure (Photo 2) will be followed in next site inspection due to no site inspection had been undertaken.
2. Water accumulation in chemical storage near the Aqua. Sedimentation tank was cleared (Photo 3).

Chemical Management:
1. Chemicals near the noise enclosure were removed (Photo 4).

Chemical Waste:
1. Contaminated soil near drip tray was cleared (Photo 5).

Current Environmental Site Inspection Checklist – Report No. 120821

General Housekeeping:
1. The contractor was recommended to renew the folder near the entrance gate.

Photo 1 The broken folder that storage permits and licence was found near the entrance gate

Photo 2 Water and trashes accumulated in the skip in the noise enclosure

Photo 3 Accumulated water in chemical storage near the Aqua. Sedimentation tank was cleared

Photo 4 Chemicals near the noise enclosure were removed

hoto 5 Contaminated soil near drip tray was cleared

Fung Mat Road Site

Notes / Issues Recorded On Site:

Noise:

1. The door of noise enclosure was found broken since last site inspection (Photo 1).

Chemical Management:

1. Chemical without suitable labels were found (Photo 2).

Previous Environmental Site Inspection Checklist – Report No. 120814

Nil

Current Environmental Site Inspection Checklist – Report No. 120821

Noise:

2. According to contractor, acoustic mat will be provided to cover broken part for temporary treatment.

Chemical Management:

1. The contractor was recommended to provide the suitable label to unknown chemical.

Photo 1 The door of noise enclosure was found broken

Photo 2 Chemical without suitable labels were found

Sandy Bay PTW

Notes / Issues Recorded On Site:

Chemical Management:

1. Chemical near welding zone was found without drip tray (Photo 1).

General Housekeeping:

7. Water accumulation was found behind the sedimentation tank (Photos 2 and 3).

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

Previous Environmental Site Inspection Checklist – Report No. 120814

Chemical Management:

1. The new cargo for chemical storage had been arrived, but the cargo without label (Photo 4).
2. The issue of chemicals without labels was found in Plant container will be inspected in next site inspection (Photo 5).
3. The issue of rechargeable batteries was placed improperly will be inspected in next site inspection (Photo 6).

Current Environmental Site Inspection Checklist – Report No. 120821

Chemical Management:

1. The contractor was reminded to provide drip tray to chemical near the welding zone and provide suitable labels to chemicals storage cargo.

General Housekeeping:

4. The contractor was recommended to clear the water accumulation behind the sedimentation tank and prevent mosquito breeding.

Photo 1 Chemical near the welding zone was found without drip tray

Photo 2 Water accumulation was found behind the sedimentation tank

Photo 3 Water accumulation was found behind the sedimentation tank

Photo 4 The new cargo for chemical storage had been arrived, but cargo without label

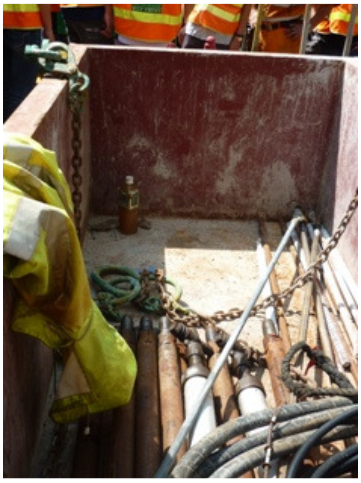
Photo 5 The issue of chemicals without labels was found in Plant container

Photo 6 The issue of rechargeable batteries was placed improperly

Wah Fu PTW

Notes / Issues Recorded On Site: **Chemical Management:** 1. A bottle of chemical without suitable label was found in skip (Photo1).
Corrective Actions – Mitigation Measures Implemented or Proposed (if any): **Previous Environmental Site Inspection Checklist – Report No. 120814** Nil. **Current Environmental Site Inspection Checklist – Report No. 120821** **Chemical Management:** 1. The contractor was recommended to provide the suitable label to unknown chemical in skip.

Photo 1 A bottle of chemical without suitable label was found in skip



29 August 2012

Aberdeen PTW

Notes / Issues Recorded On Site:
Since Aberdeen PTW had not been undertaken by ET, observations which found on 21st August will be follow in next site inspection.
General Housekeeping:

1. Water accumulation was found near the site entrance (Photo 1).

Chemical Management:

4. Some chemical drums were found without suitable labels and drip tray next to air compressor near the mobile crane (Photo 2).
5. Some chemical barrels were found in workshop without suitable labels and drip tray since last site inspection (Photo 3).

Waste Oil Management:

1. Oil droplets were found near the plants stockpile (Photo 4).
2. Oil spill out from drip tray was observed in workshop (Photo 5).
3. Oil stains was found under the air compressor near stockpiles in workshop (Photo 6).

Landscape and Visual Impacts:

1. The transplanted tree T003 was found without protective fence since last inspection (Photo 7).

Observations from contractor's inspection:

General Housekeeping:

1. Stagnant pool and leaves accumulation were found around the workshop (Photos 8 and 9).

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

Previous Environmental Site Inspection Checklist – Report No. 1200821

Chemical Management:

1. The issue of chemical drums without suitable labels and drip tray (Photo 2) will be inspecting in next site inspection due to the access road had not been under inspection.

Current Environmental Site Inspection Checklist – Report No. 120829

Chemical Management:

1. The contractor was reminded to provide suitable labels and drip tray to chemical barrels in workshop and near the air compressor in PTW.

Waste Oil Management:

1. The contractor was suggested to clear waste oil with oil dispenser and ensure the air compressor functional well to prevent oil leaking.

Landscape and Visual Impacts:

1. The contractor was suggested to provide the tree protective fence to T003.

General Housekeeping:

1. The contractor was reminded to clear water accumulation in PTW and to ensure the drainage system is in good condition.
2. The contractor was reminded to clear the stagnant pool in the man cage where had been found in workshop and keep the site tidiness.

Photo 1 Water accumulation was found near the site entrance

Photo 2 Some chemical drums were found without suitable labels and drip tray neat to air compressor near the mobile crane

Photo 3 Some chemical barrels were found in workshop without suitable labels and drip tray

Photo 4 Oil droplets were found near the plants stockpiles

Photo 5 Soil spill out from drip tray was observed in workshop

Photo 6 Oil stains was found under the air compressor near stockpiles in workshop

Photo 7 The transplanted tree T003 was found without protective fence since last inspection

Photo 8 Stagnant pool and leaves were found around the workshop

Photo 9 Stagnant pool and leaves were found around the workshop

Cyberport PTW

Notes / Issues Recorded On Site:

According to Contractor's inspection in tunnel

General Housekeeping:

4. Water leaking and accumulated were found opposite the adjacent contractor's site office (Photos 1 and 2).

Air Quality:

1. Cement bags without properly cover (Photo 3).

Oil Management:

1. Oil droplets were found near the noise enclosure (Photo 4).

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

Previous Environmental Site Inspection Checklist – Report No. 120821

General Housekeeping:

4. The issue of water accumulated and trashes in the skip in the noise enclosure (Photo 5) will be followed in next inspection due to no inspection had been undertaken.
5. The folder for permits storage where near the entrance gate has been renewed (Photo 6).

Current Environmental Site Inspection Checklist – Report No. 120829

General Housekeeping:

2. The contractor was recommended to clear the water accumulation and fix the pipe if the pipe is leaking.

Air Quality:

1. The contractor was recommended to provide cover to storage cement bags.

Oil Management:

1. The contractor was reminded to clear oil droplets near the noise enclosure with oil dispenser.

Photo 1 Water leaking and accumulated were found around the adjacent contractor's site office

Photo 2 Water leaking and accumulated were found around the adjacent contractor's site office

Photo 3 Cement bags without properly cover

Photo 4 Oil droplets was found near the noise enclosure

Photo 5 Water accumulated and trashes were found in the skip in the noise enclosure

Photo 6 The folder for permits storage where near the entrance gate has been renewed

Fung Mat Road Site

Notes / Issues Recorded On Site:
Observations (Noise and Chemical Management) will be follow in next inspection
Noise:

1. The door of noise enclosure was found broken since last site inspection (Photos 1 and 2).

Chemical Management:

1. Chemical without suitable labels were found (Photo 3).

General Housekeeping:

2. Stagnant pool was found in the noise enclosure (Photo 4).

Previous Environmental Site Inspection Checklist – Report No. 120821

Nil.

Current Environmental Site Inspection Checklist – Report No. 120829

Noise:

1. According to contractor, acoustic mat would be provided to cover broken part for temporary treatment.

Chemical Management:

1. The contractor was recommended to provide the suitable label to unknown chemical.

General Housekeeping:

1. The contractor was reminded to clear the stagnant pool and prevent the mosquito breeding.

Photo 1 The door of noise enclosure was found broken

Photo 2 The door of noise enclosure was found broken

Photo 3 Chemical without suitable labels were found

Photo 4 Stagnant pool was found in the noise enclosure

Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

1. Chemical near welding zone was found without drip tray since last site inspection (Photo 1).
2. The chemicals without labels were found in Plant container since last site inspection (Photo 2).

General Housekeeping:

1. Potential stagnant pools were found on the cover of the barrels near the DG Storage (Photos 3 and 4).

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

Previous Environmental Site Inspection Checklist – Report No. 120821

Chemical Management:

1. The label had been provided to the new chemical storage cargo (Photo 5).
2. No potential stagnant pools were found behind the sedimentation tank (Photo 6).

Current Environmental Site Inspection Checklist – Report No. 120829

Chemical Management:

1. The Contractor was reminded to provide drip tray to chemical near the welding zone and suitable labels to chemicals stored in material container.
2. The contractor was suggested to place the rechargeable batteries properly.

General Housekeeping:

5. The contractor was recommended to clear the water accumulation on the cover of the barrels near the DG storage area and prevent mosquito breeding.

Photo 1 Chemical near the welding zone wad found without drip tray

Photo 2 The chemicals without labels were found in Plant container

Photo 3 Potential stagnant pools were found on the cover of the barrels near the DG storage area

Photo 4 Potential stagnant pools were found on the cover of the barrels near the DG storage area

Photo 5 The label had been provided to the new chemical storage cargo

Photo 6 No potential stagnant pools were found behind the sedimentation tank

Wah Fu PTW

Notes / Issues Recorded On Site: **General Housekeeping:** 1. Stagnant pool was found in skip.(Photo 1)
Corrective Actions – Mitigation Measures Implemented or Proposed (if any): **Previous Environmental Site Inspection Checklist – Report No. 120821** **Chemical Management:** 1. Bottle of chemical without suitable label in skip was cleared. **Current Environmental Site Inspection Checklist – Report No. 120829** **General Housekeeping:** 1. The contractor was recommended to clear the stagnant pool and prevent mosquito breeding.

Photo 1 Stagnant pool was found in the skip

4 September 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Waste Oil Management:

4. Oil droplets were found near the plants stockpile since last inspection.(Photo 1)
5. Oil droplets were found under the plants near the entrance gate.(Photo 2)

Landscape and Visual Impacts:

2. The transplant tree (T003) was found without protective fence since last inspection.(Photo 3)

Chemical Management:

6. Some chemical barrels were found in workshop without suitable labels and drip tray since last inspection (Photo 4)

General Housekeeping:

1. Stagnant pool was found in tyre near the entrance gate.(Photo 5)

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

Previous Environmental Site Inspection Checklist – Report No. 120829

Chemical Management:

2. Chemical drums next to air compressor near the mobile crane were cleared (Photo 6).

General Housekeeping:

1. Water accumulation near the site entrance was cleared.

Waste Oil Management:

1. Oil stains in workshop area was cleared.(Photo 7)
2. Oil under the air compressor near stockpiles in workshop was cleared.

Current Environmental Site Inspection Checklist – Report No. 120904

Chemical Management:

2. The contractor is reminded to provide suitable labels and drip tray to chemical barrels in workshop.

Waste Oil Management:

2. The contractor is suggested that to clear waste oil near the plants stockpile and droplets under the plants near the entrance gate with oil dispenser.

Landscape and Visual Impacts:

2. The contractor is suggested to provide the tree protective fence for transplant tree (T003).

General Housekeeping:

3. To clear the water accumulation in the tyre near the entrance gate and keep the site tidiness.

Photo 1 Oil droplets were found near the plants stockpile since last inspection

Photo 2 Oil droplets were found under the plants near the entrance gate

Photo 3 The transplant tree T003 was found without protective fence since last inspection

Photo 4 Some chemical barrels were found in workshop without suitable labels and drip tray since last inspection

Photo 5 Stagnant pool was found in tyre near the entrance gate

Photo 6 Chemical drums next to air compressor near the mobile crane were cleared

Photo 7 Oil stains in workshop area was cleared

Cyberport PTW

Notes / Issues Recorded On Site:

According to Contractor's inspection in tunnel

General Housekeeping:

5. Water accumulation was found inside the enclosure and on the tarpaulin near the stockpiles. (Photos 1 and 2)

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

Previous Environmental Site Inspection Checklist – Report No. 120829

Air Quality:

1. Cement bags had been covered by tarpaulin. (Photo 3)

Oil Management:

1. Oil droplets near the noise enclosure were cleared. (Photo 4)

General Housekeeping:

6. The issue of water accumulated and trashes in the skip inside the noise enclosure (Photo 5) will be followed up in next inspection due to no inspection had been undertaken on 4 September 2012.
7. According to contractor, the pipe had been fixed and no water accumulation was observed.

Current Environmental Site Inspection Checklist – Report No. 120904

General Housekeeping:

3. The contractor is recommended to clear the water accumulation inside the enclosure and on the tarpaulin near the stockpiles.

Photos 1 and2 Water accumulation was found inside the enclosure and on the tarpaulin near the stockpiles

Photo 3 Cement bags had been covered by tarpaulin

Photo 4 Oil droplets were found near the noise enclosure

Photo 5 Water accumulated and trashes in the skip in the noise enclosure

Fung Mat Road Site

Notes / Issues Recorded On Site:
Observations (Noise, General Housekeeping and Chemical Management) will be follow in next inspection due to no inspection had been under taken.
Noise:

1. The door of noise enclosure was found broken since last inspection. (Photos 1 and 2)

Chemical Management:
1. Chemical without suitable labels were found. (Photo 3)

General Housekeeping:
1. Stagnant pool was found in the noise enclosure. (Photo 4)

Previous Environmental Site Inspection Checklist – Report No. 120829

Nil.

Current Environmental Site Inspection Checklist – Report No. 120904

Noise:

1. According to contractor, acoustic mat will be provided to cover broken part for temporary treatment.

Chemical Management:

1. The contractor is recommended to provide the suitable label to unknown chemical.

General Housekeeping:

1. To clear the stagnant pool and prevent the mosquito breeding.

Photo 1 The door of noise enclosure was found broken.

Photo 2 The door of noise enclosure was found broken.(Taken on 14th August 2012)

Photo 3 Chemical without suitable labels were found

Photo 4 Stagnant pool was found in the noise enclosure

Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

12. Chemical near welding zone was found without drip tray since last inspection.(Photo 1)
13. The chemicals without labels were found in Plant container since last inspection.(Photo 2)

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

Previous Environmental Site Inspection Checklist – Report No. 120829

General Housekeeping:

1. Tarpaulin had been provided to barrels near the DG Storage to prevent water accumulation.(Photo 3)

Current Environmental Site Inspection Checklist – Report No. 120904

Chemical Management:

3. The Contractor is reminded to provide drip tray to chemical near the welding zone and provide suitable labels to chemicals stored in material container.

Photo 1 Chemical near welding zone was found without drip tray

Photo 2 The chemicals without labels were found in Plant container

Photo 3 Tarpaulin had been provided to barrels near the DG Storage to prevent water accumulation

Wah Fu PTW

Notes / Issues Recorded On Site:

Air Quality:

1. Cement mixing was in process on the platform without proper cover with top and 3 sides.(Photo 1)

General:

1. The Environmental Permit (EP-322/2008/E) was missing in the notice board at entrance gate. (Photo 2)

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

Previous Environmental Site Inspection Checklist – Report No. 120829

General Housekeeping:

1. The skip had been removed.(Photo 3)

Current Environmental Site Inspection Checklist – Report No. 120904

Air Quality:

1. The contractor is recommended to prevent the dusty emission from the site.

General:

1. The contractor is recommended to provide the Environmental Permit (EP-322/2008/E) in the notice board at entrance gate.

Photo 1 Cement mixing was in process on the platform without proper cover with top and 3 sides.

Photo 2 The EP-322/2008/E was missing in the Notice Board near the entrance gate.

Photo 3 The skip had been removed.

11 September 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Landscape and Visual Impacts:

3. The transplant tree (T003) was found without protective fence since last inspection.(Photo 1)

Water Quality:

1. The leaking pipe was found near the sedimentation tank. (Photo 2)

Chemical Management:

7. Chemical barrel without drip tray in workshop near electric box. (Photo 3)

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

Previous Environmental Site Inspection Checklist – Report No. 120904

Waste Oil Management:

1. Oil droplets near the plants stockpile were found was cleared.(Photo 4)
2. Oil droplets under the plants near the entrance gate were cleared.

General Housekeeping:

1. Stagnant pool in tyre near the entrance gate was cleared.(Photo 5)

Current Environmental Site Inspection Checklist – Report No. 120911

Chemical Management:

3. The contractor is reminded to provide drip tray to chemical barrel in workshop.

Landscape and Visual Impacts:

3. The contractor is suggested to provide the tree protective fence for transplant tree (T003).

Water Quality:

1. The contractor is recommended to fix the leaking pipe near the sedimentation tank.

Photo 1 The transplant tree (T003) was found without protective fence since last inspection

Photo 2 The leaking pipe was found near the sedimentation tank

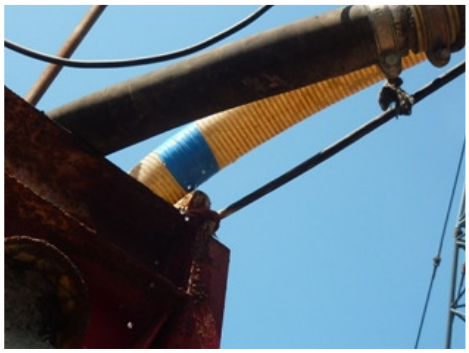


Photo 3 Chemical barrel without drip tray in workshop near electric box.

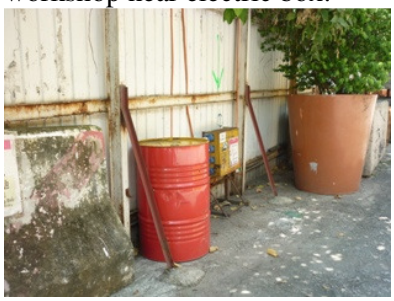


Photo 4 Oil droplets near the plants stockpile were found was cleared

Photo 5 Stagnant pool in tyre near the entrance gate was cleared

Cyberport PTW

Notes / Issues Recorded On Site:

Chemical Management:

1. Some chemical barrels were found without drip tray near the door of noise enclosure. (Photo 1)

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

Previous Environmental Site Inspection Checklist – Report No. 120904

General Housekeeping:

1. Water accumulation inside the enclosure and on the tarpaulin near the stockpiles was cleared. (Photos 2 and 3)

Current Environmental Site Inspection Checklist – Report No. 120911

General Housekeeping:

4. The contractor is recommended to provide drip tray to chemical barrels near the door of noise enclosure.

Photo 1 Some chemical barrels were found without drip tray near the door of noise enclosure

Photos 2 and 3 Water accumulation inside the enclosure and on the tarpaulin near the stockpiles was cleared

Fung Mat Road Site

Notes / Issues Recorded On Site:
Noise:

2. The door of noise enclosure was broken since last inspection. (Photos 1 and 2)

Chemical Management:

2. Chemical without trip dray was found. (Photo 3)

Previous Environmental Site Inspection Checklist – Report No. 120904

Chemical Management:

1. Chemical without suitable labels were removed.

General Housekeeping:

1. The stagnant pool in the noise enclosure was cleared. (Photo 4)

Current Environmental Site Inspection Checklist – Report No. 120911

Noise:

2. According to contractor, acoustic mat will be provided to cover broken part for temporary treatment.

Chemical Management:

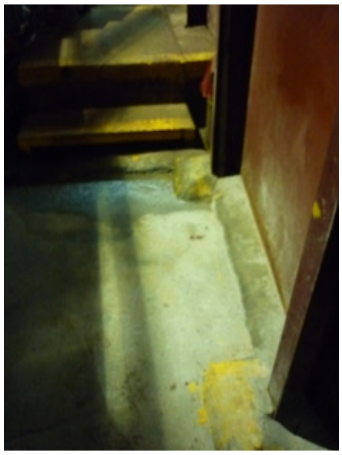
2. The contractor is recommended to provide the trip dray to chemical.

Photo 1 The door of noise enclosure was found broken.

Photo 2 The door of noise enclosure was found broken.(Taken on 14th August 2012)

Photo 3 Chemical without trip dray was found

Photo 4 The stagnant pool in the noise enclosure was cleared



Sandy Bay

Notes / Issues Recorded On Site:

No inspection had been undertaken on 11 September 2012, the observation/issue of last inspection will be followed in next inspection.

Chemical Management:

14. Chemical near welding zone was found without drip tray since last inspection.(Photo 1)
15. The chemicals without labels were found in Plant container since last inspection.(Photo 2)

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

Previous Environmental Site Inspection Checklist – Report No. 120904

General Housekeeping:

2. Tarpaulin had been provided to barrels near the DG Storage to prevent water accumulation.(Photo 3)

Current Environmental Site Inspection Checklist – Report No. 120911

Chemical Management:

4. The Contractor is reminded to provide drip tray to chemical near the welding zone and provide suitable labels to chemicals stored in material container.

Photo 1 Chemical near welding zone was found without drip tray

Photo 2 The chemicals without labels were found in Plant container

Photo 3 Tarpaulin had been provided to barrels near

the DG Storage to prevent water accumulation

Wah Fu PTW

Notes / Issues Recorded On Site:
General Housekeeping:

1. Dripping from air conditioner was found near material container. (Photos 1 and 2)

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

Previous Environmental Site Inspection Checklist – Report No. 120904

General:

1. The Environmental Permit (EP-322/2008/E) had been displayed in the notice board at vehicle entrance gate. (Photo 3) However, the contractor is still recommended to provide a valid EP in the notice board near the exit.

Air Quality:

2. No cement mixing process was observed during site inspection, but the contractor is reminded to provide properly cover (shelter with top & 3 sides) when cement maxing in process .(Photo 4)

Current Environmental Site Inspection Checklist – Report No. 120911

2. The contractor is recommended to fix the pipe and prevent potential stagnant pools cleared and mosquito breeding.

Photos 1 and 2 Dripping from air conditioner was found near material container

Photo 3 The Environmental Permit (EP-322/2008/E) had been displayed in the notice board at vehicle entrance gate.

Photo 4 No cement mixing process was observed during site inspection

18 September 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

1.

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

Previous Environmental Site Inspection Checklist – Report No. 120911

The issue of Landscape and Visual Impacts and Chemical Management will be follow in next inspection due to no inspection had been undertaken in workshop.

Landscape and Visual Impacts:

4. The transplant tree (T003) was found without protective fence on last inspection.(Photo 1)

Chemical Management:

1. The issue of chemical barrel without drip tray in workshop near electric box on last inspection. (Photo 2)

Water Quality:

1. No more leaking was found near the sedimentation tank. (Photo 3)

Current Environmental Site Inspection Checklist – Report No. 120918

Chemical Management:

4. The contractor is reminded to provide drip tray to chemical barrel in workshop.

Landscape and Visual Impacts:

4. The contractor is suggested to provide the tree protective fence for transplant tree (T003).

Photo 1 The transplant tree (T003) was found without protective fence on last inspection

Photo 2 Chemical barrel without drip tray in workshop near electric box on last inspection.

Photo 3 No more leaking was found near the sedimentation tank

Cyberport PTW

Notes / Issues Recorded On Site:
Chemical Management:

1. Chemical barrel was found without drip tray near the door of noise enclosure. (Photo 1)
2. Another chemical drum was found on access near the DSD plant without drip tray.(Photo 2)

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

Previous Environmental Site Inspection Checklist – Report No. 120911

Nil.

Current Environmental Site Inspection Checklist – Report No. 120918

General Housekeeping:

5. The contractor is recommended to provide drip tray or to clear chemical barrel near the door of noise enclosure and access near the DSD plant.

Photo 1 Chemical barrel was found without drip tray near the door of noise enclosure

Photo 2 Another chemical drum was found on access near the DSD plant without drip tray

Fung Mat Road Site

Notes / Issues Recorded On Site:
Noise:

1. The door of noise enclosure was broken since last inspection. (Photos 1 and 2)

Chemical Management:

1. Chemical without trip dray was found since last inspection. (Photo 3)

Previous Environmental Site Inspection Checklist – Report No. 120911

Nil.

Current Environmental Site Inspection Checklist – Report No. 120918

Noise:

1. The contractor is suggested to ensure the enclosure (including doors part) in well condition.

Chemical Management:

1. The contractor is recommended to provide the trip dray to chemical.

Photo 1 The door of noise enclosure was found broken.

Photo 2 The door of noise enclosure was found broken.

Photo 3 Chemical without trip dray was found

Sandy Bay PTW

Notes / Issues Recorded On Site: **Chemical Management:** 1. Chemical near welding zone was found without drip tray since inspection on 28 August .(Photo 1) 2. The chemicals without labels were found in Plant container since inspection on 28 August.(Photos 2 and 3)
Corrective Actions – Mitigation Measures Implemented or Proposed (if any): **Previous Environmental Site Inspection Checklist – Report No. 120911** Nil. **Current Environmental Site Inspection Checklist – Report No. 120918** **Chemical Management:** 1. The Contractor is reminded to provide drip tray to chemical near the welding zone and provide suitable labels to chemicals stored in material container.

Photo 1 Chemical near welding zone was found without drip tray

Photo 2 The chemicals without labels were found in Plant container

Photo 3 The chemicals without labels were found in Plant container

Wah Fu PTW

Notes / Issues Recorded On Site:
General Housekeeping:

1. The dripping tap was found near the noise cover platform.(Photo 3)

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

Previous Environmental Site Inspection Checklist – Report No. 120911

General Housekeeping:

1. The issue of dripping from air conditioner (Photos 1 and 2) will be follow next inspection due to no inspection had been undertaken in the resting zone.

Current Environmental Site Inspection Checklist – Report No. 120918

3. The contractor is recommended to fix the pipe and prevent potential stagnant pools cleared and mosquito breeding.

Photos 1 and 2 Dripping from air conditioner was found near material container

Photo 3 The dripping tap was found near the noise cover platform

25 September 2012

Aberdeen PTW

Notes / Issues Recorded On Site:

Nil.

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

Previous Environmental Site Inspection Checklist – Report No. 120918

Landscape and Visual Impacts:

1. The transplant tree (T003) was found without protective fence on last inspection.(Photo 1)

Chemical Management:

1. The issue of chemical barrel without drip tray in workshop near electric box on last inspection. (Photo 2)

Current Environmental Site Inspection Checklist – Report No. 120925

Chemical Management:

1. The contractor is reminded to provide drip tray to chemical barrel in workshop.

Landscape and Visual Impacts:

1. The contractor is suggested to provide the tree protective fence for transplant tree (T003).

Photo 1 The transplant tree (T003) was found without protective fence on last inspection

Photo 2 Chemical barrel without drip tray in workshop near electric box on last inspection.

Cyberport PTW

Notes / Issues Recorded On Site:

Chemical Management:

1. Chemical barrel was found without drip tray near the door of noise enclosure since last inspection. (Photo 1)

Waste Oil :

1. Oil droplets were found next to drip tray near the DSD plant.(Photo 2)

Waste Water Treatment:

1. Waste water was found during drilling.(Photos 3 and 4)

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

Previous Environmental Site Inspection Checklist – Report No. 120918

Chemical Management:

1. The drip tray was provided to chemical drum on access near the DSD plant

Current Environmental Site Inspection Checklist – Report No. 120925

Waste Water Treatment:

1. The contractor is reminded to pay attention to waste water that produce from drilling process.

General Housekeeping:

1. The contractor is recommended to provide drip tray or to clear chemical barrel near the door of noise enclosure.

Waste Oil

1. The contractor is recommended to clear waste oil with oil dispenser.

Photo 1 Chemical barrel was found without drip tray near the door of noise enclosure

Photo 2 Oil droplets were found next to drip tray near the DSD plant

Photos 3 and 4 Waste water was found during drilling

Fung Mat Road Site

Notes / Issues Recorded On Site:
Noise:

1. The door of noise enclosure was broken since last inspection.(Photos 1 and 2)

Chemical Management:

1. Chemical without trip dray was found since last inspection. (Photo 3)

Waste Management:

1. A broken skip was found near stockpiles.(Photos 4 and 5)

Previous Environmental Site Inspection Checklist – Report No. 120918

Nil.

Current Environmental Site Inspection Checklist – Report No. 120925

Noise:

1. The contractor is suggested to ensure the enclosure (including doors part) in well condition.

Chemical Management:

1. The contractor is recommended to provide the trip dray to chemical.

Waste Management:

1. The contractor is recommended that waste storage container should be in good condition.

Photo 1 The door of noise enclosure was found broken.

Photo 2 The door of noise enclosure was found broken.

Photo 3 Chemical without trip dray was found

Photo 4 A broken skip was found near stockpiles

Photo 5 A broken skip was found near stockpiles

Sandy Bay

Notes / Issues Recorded On Site:

Chemical Management:

1. Chemical near welding zone was found without drip tray since inspection on 28 August 2012.(Photo 1)
1. The chemicals without labels were found in Plant container since inspection on 28 August 2012.(Photos 2 and 3)

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

Previous Environmental Site Inspection Checklist – Report No. 120918

Nil.

Current Environmental Site Inspection Checklist – Report No. 120925

Chemical Management:

1. The Contractor is reminded to provide drip tray to chemical near the welding zone and provide suitable labels to chemicals stored in material container.

Photo 1 Chemical near welding zone was found without drip tray

Photo 2 The chemicals without labels were found in Plant container

Photo 3 The chemicals without labels were found in Plant container

Wah Fu PTW

Notes / Issues Recorded On Site:

General Housekeeping:

1. Water accumulation was found in the skip and near the boundary.(Photos 1and 2)
2. The dripping tap was found near the noise cover platform since last inspection.(Photo 3)

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

Previous Environmental Site Inspection Checklist – Report No. 120918

General Housekeeping:

1. The dripping condition of air conditioner was reduced.

Current Environmental Site Inspection Checklist – Report No. 120925

1. The contractor is recommended to fix the pipe and prevent potential stagnant pools in skip on noise cover.

Photos 1 and 2 Water accumulation was found in the skip and near the boundary

Photo 3 The dripping tap was found near the noise cover platform

Contract No. DC/2007/24
Habour 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/042) A

Comments	Designer (Atkins)'s Responses
Independent Environmental Checker **E-mail** **Date : 30 October 2012**	
1 **Section 4.1 (1st para, 5th line):**	
Please update the date of the first 1-hr TSP exceedance.	Noted with thanks
2 **Appendix B, 'Summary of Calibration Date of Monitoring Equipment' table** :	
Please ensure that the table is updated to clearly show noise monitoring equipments	Noted and the serial/ID had been updated.