Ming Chun Construction Co., Ltd.

The Decommissioning of Underground Fuel Tanks at Tsuen Wan No. 1 Pumping Station Contact No. WSD/ST 456/02

Monthly Environmental Monitoring and Audit Report August 2003

First Issue

# Ming Chun Construction Co., Ltd.

# The Decommissioning of Underground Fuel Tanks at Tsuen Wan No. 1 Pumping Station Contact No. WSD/ST 456/02

**Environmental Monitoring and Audit** 

Monthly Environmental Monitoring and Audit Report – August 2003

September 2003

# Ove Arup & Partners Hong Kong Ltd

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Job number 23605



Job title		The Decommi Wan No. 1 Pu	ssioning of Underground	d Fuel Tanks at Tsuen	Job number
			WSD/ST 456/02		23605
Document	title		Monitoring and Audit		File reference
Document	ref	23605-14			
Revision	Date	Filename	G:\any\nroject\23605\ren	orts\monthly\2003-08\14-A	ua 03 doc
First Issue	04/09/03	Description	Monthly EM&A Repor		uig 05.00C
			Prepared by	Checked by	Approved by
		Name	Fredrick Leong	Sam Tsoi	Sam Tsoi
		Signature			
		Filename			
		Description			
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# **CONTENTS**

		Page
EXECUTIV	/E SUMMARY	1
1.	INTRODUCTION	2
1.1	Project Background	2
1.2	Impact EM&A Requirements	3
1.3	Purpose of the Report	3
2.	ENVIRONMENTAL STATUS	4
2.1	Construction Programme	4
2.2	Construction Activities of the Month	4
3.	SUMMARY OF EM&A REQUIREMENTS	5
3.1	Construction Noise Monitoring	5
3.2	Performance Limits and Event-Action Plans	6
3.3	Site Inspection and Environmental Complaint Handling	8
4.	NOISE	11
4.1	Monitoring Equipment	11
4.2	Methodology	11
4.3	Results and Observations	12
5.	SITE INSPECTION, ENVIRONMENTAL COMPLAINTS, ENVIRONMENTAL LICEN	
	AND NON-COMPLIANCE RECORDS	14
5.1	Site Audit Results	14
5.2	Waste Disposal	15
5.3	Complaint Record	15
5.4	Non-compliances	15
5.5	Environmental Licenses	15
6.	REFERENCES	16
TABLES		
Table 3-1	Construction noise monitoring parameters and frequency	
Table 3-2	Construction noise monitoring locations	
Table 3-3	Action and Limit Levels for construction noise	
Table 3-4 Table 4-1	Event/Action plan for construction noise Equipment list for construction noise monitoring	
Table 4-1		

# **FIGURES**

Figure 1-1	Site location plan
F: 2 4	Nichaelas academical

Figure 3-1 Noise monitoring locations

Figure 3-2 Flow chart of the complaint response procedure

Table 4-3 Daytime noise monitoring results (0700 – 1900 hours on normal weekdays)

Figure 5-2 Temporary coverage of unpaved area

# **APPENDICES**

# **APPENDIX A**

Monitoring schedule for August 2003 and September 2003

# **APPENDIX B**

Calibration Certificates of Sound Level Maters and Acoustic Calibrators

# **APPENDIX C**

Detailed noise monitoring results for August 2003

# **APPENDIX D**

Trip ticket of chemical waste disposal

# ABBREVIATIONS AND ACTONYMS

A/L Action or Limit Levels

Arup Ove Arup & Partners Hong Kong Limited

B&K Brüel & Kjær

CNP Construction Noise Permit

CT Contractor

EA Environmental Auditor

EIA Environmental Impact Assessment
EM&A Environmental Monitoring and Audit

EP Environmental Permit

EPD Environmental Protection Department ER Engineer / Engineer's Representative

ET Environmental Team

HKPSG Hong Kong Planning Standards and Guidelines HKSAR Hong Kong Special Administrative Region

NSR Noise Sensitive Receiver

# **EXECUTIVE SUMMARY**

This is the thirteenth monthly environmental monitoring and audit (EM&A) report summarising the EM&A works from 1 August 2003 to 31 August 2003.

Noise monitoring was conducted in  $L_{\rm eq(30min)}$  once per week during construction hours at 2 monitoring locations. A total of 4 sets of measurement were conducted at 2 monitoring locations during the reporting month. The lowest noise level was 65.5 dB(A) recorded at Fong Hon Chu Gifted Education Centre (NM2) on 15 August 2003, and the highest noise level was 69.0 dB(A) recorded at Caritas Adult Education Centre (NM1) on 7 August 2003. No exceedance on the Action and Limit (A/L) Levels was recorded during the monitoring period.

Weekly environmental site audits had been conducted on 5<sup>th</sup>, 13<sup>th</sup>, 20<sup>th</sup> and 28<sup>th</sup> August 2003. There was no significant noise, air and water quality impact identified from the construction activities in August 2003.

The total quantity of the disposed inert material to Public fill was 151.8 m<sup>3</sup> by common dump truck in August 2003. The total quantity of the disposed chemical waste to SENT Landfill was 4.16 tonnes August 2003.

No complaint on environmental issue was received in August 2003 or since the commencement of the Project.

# 1. INTRODUCTION

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by Ming Chun Construction Co., Ltd. as the Environmental Team (ET) for *Contract No. WSD/ST 456/02 The Decommission of Underground Fuel Tanks at Tsuen Wan No. 1 Pumping Station* (hereafter called the "Project"). The construction noise was selected for impact monitoring during the decommissioning of underground fuel tanks. The construction period of the Project is re-scheduled to last for 10.5 months from mid August 2002 to September 2003.

# 1.1 Project Background

The Pumping Station has been in operation since 1955. All pumpsets, associated power supply, and control equipment are now approaching the end of their serviceable lives. To improve the operation of the Pumping Station, the existing manned equipment including pumpsets, electrical switchgears, and piping and valving systems will have to be replaced. The seven electrical motor driven and three diesel engine driven pumpsets currently in use are to be replaced by eight electrical pumpsets.

With the phasing out of the three diesel engine driven pumpsets, the four underground diesel fuel storage tanks at the Pumping Station, each with a capacity of 64,000 litres will be decommissioned, dismantled, and removed. The location of the site is shown in Figure 1-1.



# 1.2 Impact EM&A Requirements

The impact environmental monitoring and audit includes noise monitoring and environmental audit.

# 1.3 Purpose of the Report

The purpose of the monthly environmental monitoring and audit report is to present the progress on noise monitoring and environmental audit for the Project on a monthly basis.

This is the thirteenth monthly EM&A report prepared by Arup for the submission to Ming Chun Construction Co., Ltd. summarising the monitoring methodology, locations, periods, frequencies, results and any observation from the noise monitoring and environmental audit from 1 August 2003 to 31 August 2003.

# 2. ENVIRONMENTAL STATUS

# 2.1 Construction Programme

The Project is re-scheduled to last for 10.5 months from mid August 2002 to September 2003. An updated construction programme is given in the Monthly EM&A Report – January 2003<sup>[1]</sup>.

# 2.2 Construction Activities of the Month

The major construction activity carried out by the Contractor (CT) in August 2003 was mainly the demolition of the diesel fuel tank chamber by using one hand held rock breaker and erection of temporary formwork inside the fuel tank chamber.

# 3. SUMMARY OF EM&A REQUIREMENTS

Noise is the significant environmental impact identified for the construction period of the Project. In accordance with the EM&A Manual<sup>[2]</sup> of the Project, noise impact monitoring, shall be performed by an ET at all specified monitoring locations during the construction stages. The monitoring schedule for August 2003 and the tentative schedule for September 2003 are attached in Appendix A.

# 3.1 Construction Noise Monitoring

# 3.1.1 Monitoring Parameters

Construction noise monitoring was measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).  $L_{10}$  and  $L_{90}$  shall also be recorded as supplementary reference information for data auditing.

# 3.1.2 Monitoring Frequency

Construction noise measurements were required to be conducted on a weekly basis according to the EM&A Manual. The monitoring time periods, monitoring parameters and frequency are specified in Table 3-1.

Table 3-1 Construction noise monitoring parameters and frequency

Time Period (when construction activity is found)	Parameters	Monitoring Frequency	No. of Measurements for Each Monitoring
Between 0700-1900 hours on normal weekdays	L <sub>eq(30 min)</sub>		1
Between 1900-2300 hours on normal weekdays		Once per week	
Between 2300-0700 hours of next day	Leq(5 min)*		3 (consecutive)
Between 0700-1900 hours on holidays			

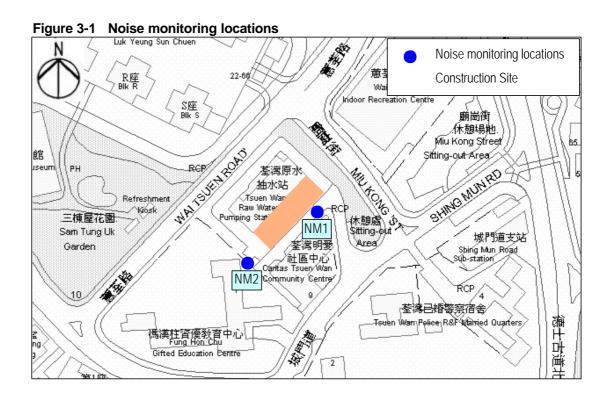
**Remarks:** \* The L<sub>eq(5 min)</sub> will only be measured if construction activities are conducted in holidays and between the period of 1900 and 0700 hours during normal weekdays.

# 3.1.3 Monitoring Locations

A total of 2 noise monitoring locations were specified. They are given in Table 3-4 and shown in Figure 3-1. The measurements were taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

Table 3-2 Construction noise monitoring locations

Noise Monitoring Station No.	Location
NM1	Caritas Adult Education Centre
NM2	Fong Hon Chu Gifted Education Centre



# 3.2 Performance Limits and Event-Action Plans

The monitoring results shall be checked against appropriate standards and requirements. A two-tier system performance limits was established in the Project specific EM&A Manual. The "Action Level" and the "Limit Level" are established according to the EPD requirements. Corresponding actions will be taken by ET, ER and CT in accordance with the Event-Action Plan if the monitoring results exceed the performance limits.

### 3.2.1 **Construction Noise Impact**

The Action and Limit (A/L) levels for the construction noise extracted from the Baseline Monitoring Report<sup>[3]</sup> are tabulated in Table 3-3.

Table 3-3 Action and Limit Levels for construction noise

Time Period	Action	Limit
0700 – 1900 hours on any day not being a Sunday or public holiday	When one documented complaint is received	70dB(A) (1) (2)

- Remarks: (1) As NM1 and NM2 are both considered educational establishments, limit level is corrected to 70dB(A) instead of the conventional 75dB(A).
  - (2) For educational establishments, the limit level shall be reduced to 65dB(A) during examination periods.

Table 3-4 details the actions required to be carried out by different parties in the case of an exceedance of performance limits being detected.

Table 3-4 Event/Action plan for construction noise

Event	Action	
LVCIIL	ET Leader or ER	Contractor
Action Level	<ol> <li>Notify Contractor</li> <li>Analyse investigation</li> <li>Require Contractor to propose measures for the analysed noise problem</li> <li>Increase monitoring frequency to check mitigation effectiveness</li> </ol>	Submit noise mitigation proposals to Environmental Team Leader/Engineer's Representative     Implement noise mitigation proposals
Limit Level	<ol> <li>Notify Contractor</li> <li>Notify EPD</li> <li>Require contractor to implement mitigation measures</li> <li>Increase monitoring frequency to check mitigation effectiveness</li> </ol>	<ol> <li>Implement mitigation measures</li> <li>Prove to Environmental Team Leader/ER effectiveness of measures applied</li> </ol>

# 3.3 Site Inspection and Environmental Complaint Handling

# 3.3.1 Site Inspection Frequency and Areas Covered

Regular site inspections shall be carried out on a weekly basis. The areas of inspection cover the different environmental impacts, such as air, noise, water and waste, and their pollution controls and mitigation measures for both within and outside the site area.

Ad hoc site inspection will be carried out if significant environmental non-compliance is identified. Inspections may also be carried out subsequent to receipt of any environmental complaints, or as part of the investigation work, as specified in the Event-Action Plans.

# 3.3.2 Site Inspection Procedures

- a) The CT and/or ER will advise the Environmental Auditor (EA) for all information on any environmental related aspects.
- b) The EA will conduct discussion with the CT and/or ER to sort out and forecast any potential environmental impact.
- c) The EA will conduct a site walk with the CT and/or ER, particularly the areas with extensive construction works.
- d) The EA will conduct inspection for the main environmental facilities and measures such as the wheel washing facilities located at the site exits, water spraying truck, temporary noise barrier, and the internal noise-reducing measures of the heavy equipment etc, to ensure that these environmental facilities operate normally and effectively.
- e) The EA will fill up a site inspection checklist during the site inspection for recording of any special observations.
- f) The EA will conduct post-discussion with the CT and/or ER for the establishment of additional/special measures if any non-conformance is found. The completion date for such additional measures will be confirmed during the post-discussion.
- g) The EA will propose a reasonable timeframe together with the CT and/or ER, for the preparation of the proposal for the remediation of environmental noncompliance.
- h) The completed site inspection checklist will be signed by the EA, the CT and/or ER, for reference and for taking actions in accordance with the agreed procedures, reporting systems and time frame.

# 3.3.3 Environmental Complaints

In accordance with the EM&A Manual, environmental complaints will be referred to the ET for initiation of the complaint investigation procedures. The ET will undertake the following procedures upon receipt of the complaints:

- a) The ET will record the details of the complaint and the date of receipt onto the complaint database, and inform ER immediately.
- b) The ET will perform compliant investigation to determine its validity, and to assess whether the source of the problem is due to work activities.
- c) The ER will instruct the CT to identify mitigation measures in consultation with the ET, if the compliant is valid and due to works.
- d) The ET will liaise with the CT on their mitigation measure proposals and implementation, if required.
- e) The ET will conduct review of the CT's response on the identified mitigation measures, and of the updated situation.
- f) The ET will submit interim report to EPD if the complaint is received via EPD. The interim report will clearly state the status of the complaint investigation and the follow-up action within the time frame assigned by EPD.
- g) The ET will undertake additional monitoring and audit to verify the situation if necessary, and ensure that any valid reason for complaint does not recur.
- h) The ET will report on the investigation results and the subsequent actions to the source of complaint for responding to the complainant (If the source of complaint is via EPD, the results will be reported within the time frame assigned by EPD).
- i) The ET will record the details of the complaint, investigation, subsequent actions and results in the monthly EM&A reports.

During the complaint investigation work undertaken by the ET, the CT and ER shall cooperate with the ET on providing all the necessary information and assistance for completion of the investigation. If mitigation measures are identified as necessary after the investigation, the CT shall promptly carry out the required mitigation to the satisfaction of ET. The ER shall ensure that the CT has carried out such identified measures.

A flow chart of the complaint response procedures is shown in Figure 3-2 for reference.

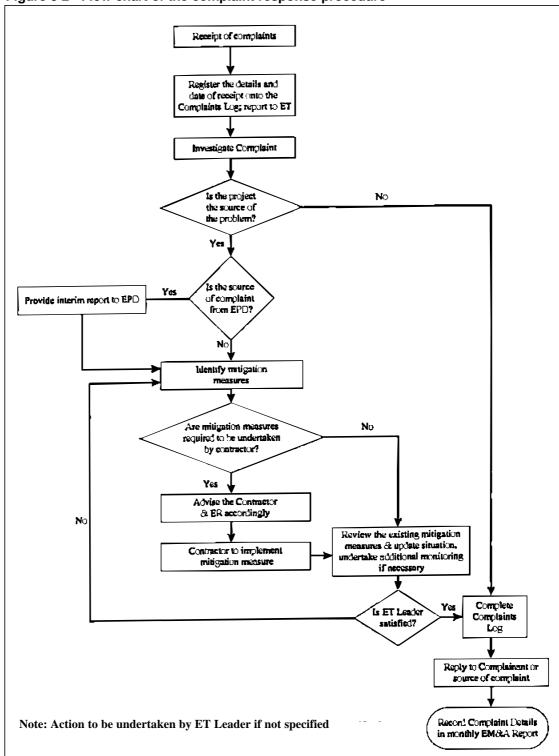


Figure 3-2 Flow chart of the complaint response procedure

# 4. NOISE

# 4.1 Monitoring Equipment

An integrating sound level meter was used for the noise monitoring. The sound level meter complies with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. An acoustical calibrator in compliance with IEC 942:1988 (Type 1) was used to calibrate the sound level meter before and after each set of measurements to confirm that the data drift was less than 1dB(A). The detailed descriptions of the noise equipment are listed in Table 4-1.

Table 4-1 Equipment list for construction noise monitoring

Equipment	Manufacturer & Model No.	Precision Grade	Qty.
Integrating sound level meter	Brüel & Kjær 2238	IEC 651 Type 1	1
Windshield	Brüel & Kjær UA0237	IEC 804 Type 1	1
Acoustical calibrator	Brüel & Kjær 4226	IEC 942 Type 1	1
Acoustical calibrator	Brüel & Kjær 4231	1LC 742 Type T	•
LCD wind speed indicator	Kestrel Vane Anemometer		1

# 4.2 Methodology

# 4.2.1 Field Measurement

- The sound level meter and the battery were checked to ensure that they were in proper condition.
- The sound level meter was set on a tripod at 1.2m above ground and at 1m from the exterior of the building façade.
- Before conducting the measurement, the sound level meter was calibrated by an acoustical calibrator.
- The measurement parameter was set to A-weighted sound pressure level. The time weighting was set in fast response and the time period of measurement at 30 minutes.
- The wind speed was checked during noise monitoring to ensure the steady wind speed did not exceed 5m/s, or wind with gusts did not exceed 10m/s.

- Any abnormal conditions that generated intrusive noise during the measurement were recorded on the field record sheet.
- After each measurement, the equivalent continuous sound pressure level ( $L_{eq}$ ),  $L_{10}$  and  $L_{90}$  were recorded on the field record sheet.
- The sound level meter was re-calibrated by the acoustical calibrator to confirm that there was no significant drift of reading.

# 4.2.2 Equipment Maintenance and Calibration

The sound level meter complies with the standards of IEC 651 (Fast, Slow, Impulse rms detector tests) and IEC 804 (L<sub>eq</sub> functions). The acoustical calibrator model no. 4231 is in compliance with IEC 942. Both equipment are calibrated annually in-house using Brüel & Kjær (B&K) calibrator model no. 4226.

The National Physical Laboratory in Teddington, London, which is accredited by National Measurement accreditation Service (NAMAS), annually calibrates the B&K calibrator model no. 4226. All in-house calibrations that are undertaken can be traced back to the National Physical Laboratory. The calibration certificate of the equipment is given in Appendix B. Table 4-2 summarizes the calibration date of the sound level meter used for this project.

Table 4-2 Summary of calibration dates of noise monitoring equipment

Sound level meter	Serial number	Last calibration date	Next calibration date (on or before)
B&K 2238	2320696	19 August 2002	18 September 2003

# 4.3 Results and Observations

# 4.3.1 Weather Conditions and Other Factors

Weather condition was sunny and fine during the monitoring period. The major noise source was the operational noise of the pumping station and the hand held rock breaker.

# 4.3.2 Summary Results

The noise monitoring results are summarised in Table 4-3 for the daytime periods, and the details are attached in Appendix C.

Table 4-3 Daytime noise monitoring results (0700 – 1900 hours on normal weekdays)

Date of	Monitoring	Monitoring Res	ults, dB(A) (30 min)
Monitoring	Parameters	NM1	NM2
	L <sub>eq</sub>	69.0	67.5
07/08/03 (Thu)	L <sub>10</sub>	74.5	71.5
	L <sub>90</sub>	62.5	62.0
	L <sub>eq</sub>	67.0	65.5
15/08/03 (Fri)	L <sub>10</sub>	70.0	69.0
	L <sub>90</sub>	62.5	60.5
	L <sub>eq</sub>	67.0	66.5
22/08/03 (Fri)	L <sub>10</sub>	72.5	70.0
	L <sub>90</sub>	61.5	62.0
	L <sub>eq</sub>	67.0	68.5
26/08/03 (Tue)	L <sub>10</sub>	70.5	73.0
	L <sub>90</sub>	62.0	61.5

# 5. SITE INSPECTION, ENVIRONMENTAL COMPLAINTS, ENVIRONMENTAL LICENSES AND NON-COMPLIANCE RECORDS

# 5.1 Site Audit Results

Weekly environmental site audits had been conducted on 5<sup>th</sup>, 13<sup>th</sup>, 20<sup>th</sup> and 28<sup>th</sup> August 2003. The audit findings are summarised in the following sub-sections.

# 5.1.1 Air Quality

• Water spraying was maintained during the operation of the hand held rock breaker and no significant dust impact was identified.

# 5.1.2 Noise

 A movable noise barrier lined with sound absorption material was continually provided for the hand held rock breaker. No significant noise impact was identified.

# 5.1.3 Water Quality

• No significant water quality impact was identified from the construction activities in August 2003.

# 5.1.4 Waste Management

 No significant waste impact was identified from the construction activities in August 2003.

# 5.2 Waste Disposal

The total quantity of the disposed inert material to Public fill was 151.8 m<sup>3</sup> by common dump truck in August 2003. The total quantity of the disposed chemical waste to SENT Landfill was 4.16 tonnes August 2003. The detail is given in Appendix D.

# 5.3 Complaint Record

No complaint on environmental issue was received in August 2003 or since the commencement of the Project.

# 5.4 Non-compliances

No non-compliance on environmental issue was recorded in August 2003.

# 5.5 Environmental Licenses

No environmental license or permit was granted by EPD in August 2003. Copies of Environmental Licenses/ Permits are attached in Monthly EM&A Report – August 2002.

# 6. REFERENCES

- [1] Ove Arup & Partners Hong Kong Limited. February 2003. The Decommissioning of Underground Fuel Tanks at Tsuen Wan No.1 Pumping Station, Monthly Environmental Monitoring and Audit Report January 2003.
- [2] Ove Arup & Partners Hong Kong Limited. December 2001 The Decommissioning of Underground Fuel Tanks at Tsuen Wan No.1 Pumping Station, Environmental Monitoring & Audit Manual.
- [3] Ove Arup & Partners Hong Kong Limited. August 2002. The Decommissioning of Underground Fuel Tanks at Tsuen Wan No.1 Pumping Station, Environmental Baseline Monitoring Report.
- [4] Ove Arup & Partners Hong Kong Limited. September 2002. The Decommissioning of Underground Fuel Tanks at Tsuen Wan No.1 Pumping Station, Monthly Environmental Monitoring and Audit Report August 2002.

# APPENDIX A

Monitoring schedule for August 2003 and September 2003

# Environmental Monitoring and Audit Programme - August 2003

Note 1: L30 denotes L<sub>eq(30 min)</sub>
Note 2: TSP denotes Total Suspended Particulate
Note 3: LFG denotes Landfill Gas

	Saturday	2	б	16	23	30	
	Friday		8	15 L30 monitoring	22 L30 monitoring	29	
	Thursday		7 L30 monitoring	41	21	28 Site inspection	
Aug-2003	Wednesday		9	Site inspection	Site inspection	27	
	Tuesday		5 Site inspection	12	19	26 L30 monitoring	
	Monday		4	-	18	25	
	Sunday		e,	10	17	54	31

# Tentative Environmental Monitoring and Audit Schedule - September 2003

Note 1: L30 denotes Leq(30 min)
Note 2: TSP denotes Total Suspended Particulate

			Sep-2003			
Sunday	Monday	Tuesday		Thursday	Friday	Saturday
	1	Site inspection L30 monitoring	က	4	ع	9
7	8 L30 monitoring	9 Site inspection	10	7-	12	13
<b>T</b>	15	16 Site inspection	17	18 L30 monitoring	19	20
्टा	22	Site inspection	24	25 L30 monitoring	26	27
58	59	30 Site inspection				

# APPENDIX B

Calibration Certificates of Sound Level Maters and Acoustic Calibrators

Level 5 Festival Walk 80 Tat Chee Avenue

Kowloon Tong, Kowloon HONG KONG

Tel: 2268 3216

Fax: 2268 3950

AAc Certificate No. 2003001

# CERTIFICATE OF CONFORMITY

**Description of Test Instrument** 

Type No.

Serial No.

Bruel & Kjaer 4230 Acoustic Calibrator

4230

1233887

Date of Test:

18 August 2003

Carried out by:

Steven Wong

Approved by:

William Ng

Signature:

Con-

Signature:

m-culai

Ambient Conditions During Test:	
Atmospheric Pressure:	1KPa
Air Temperature:	22°C
Relative Humidity:	60%

This document is to certify that the above Test Instrumentation did conform to the manufacturer's original specification on the date of the test. Any adjustments that were required to bring the instrumentation back into specification are duly noted in this document.

The tests were carried out using the reference calibrator described below.

Description of Reference Calibrator

Type No.

Serial No.

Bruel & Kjaer Multi Frequency Calibrator

4226

1531372

Certificate of Calibration No.

11449

By Bruel & Kjaer (A Division of Spectris (UK) Ltd)

Calibration Date: 20 Mar 2003

The reference calibrator, type 4226 has traceable calibrator back to National Measurement Standards. As such it is used as Arup Acoustics own 'Primary Standard' and is used only for controlled laboratory calibration tests on all sound measuring equipment owned by Arup Acoustics.

# Footnote



Level 5 Festival Walk

80 Tat Chee Avenue Kowloon Tong, Kowloon

HONG KONG

Tel: 2268 3216

Fax: 2268 3950

AAc Certificate No. 2003002

# CERTIFICATE OF CONFORMITY

**Description** of Test Instrument

Type No.

Serial No.

Bruel & Kjaer 4231 Acoustic Calibrator

4231

2314016

Date of Test:

18 August 2003

Carried out by:

Steven Wong

Approved by:

William Ng

Signature: Govern

Signature:

ry-way

<b>Ambient Conditions During Test</b>	•
Atmospheric Pressure:	1KPa
Air Temperature:	<b>22℃</b>
Relative Humidity:	60%

This document is to certify that the above Test Instrumentation did conform to the manufacturer's original specification on the date of the test. Any adjustments that were required to bring the instrumentation back into specification are duly noted in this document.

The tests were carried out using the reference calibrator described below.

Description of Reference Calibrator

Type No.

Serial No.

Bruel & Kjaer Multi Frequency Calibrator

4226

1531372

Certificate of Calibration No.

11449

By Bruel & Kjaer (A Division of Spectris (UK) Ltd)

Calibration Date: 20 Mar 2003

The reference calibrator, type 4226 has traceable calibrator back to National Measurement Standards. As such it is used as Arup Acoustics own 'Primary Standard' and is used only for controlled laboratory calibration tests on all sound measuring equipment owned by Arup Acoustics.

# Footnote



Level 5 Festival Walk

80 Tat Chee Avenue Kowloon Tong, Kowloon

HONG KONG

Tel: 2268 3216

Fax: 2268 3950

AAc Certificate No. 2003003

# CERTIFICATE OF CONFORMITY

Description of Test Instrument

Type No.

Serial No.

Bruel & Kjaer Sound Level Meter Kit 1

2231

1294630

Bruel & Kjaer 1/2" Microphone Kit 1

4188

2179478

Date of Test:

18 August 2003

Carried out by:

Steven Wong

Approved by:

William Ng

Signature: Stee

Signature:

hilli- my

<b>Ambient Conditions During Test</b>	
Atmospheric Pressure:	1KPa
Air Temperature:	22°C
Relative Humidity:	60%

This document is to certify that the above Test Instrumentation did conform to the manufacturer's original specification on the date of the test. Any adjustments that were required to bring the instrumentation back into specification are duly noted in this document.

The tests were carried out using the reference calibrator described below.

Description of Reference Calibrator

Type No.

Serial No.

Bruel & Kjaer Multi Frequency Calibrator

4226

1531372

Certificate of Calibration No.

11449

By Bruel & Kjaer (A Division of Spectris (UK) Ltd)

Calibration Date: 20 Mar 2003

The reference calibrator, type 4226 has traceable calibrator back to National Measurement Standards. As such it is used as Arup Acoustics own 'Primary Standard' and is used only for controlled laboratory calibration tests on all sound measuring equipment owned by Arup Acoustics.

# Footnote



Level 5 Festival Walk 80 Tat Chee Avenue Kowloon Tong, Kowloon

HONG KONG

Tel: 2268 3216

Fax: 2268 3950

AAc Certificate No. 2003004

# CERTIFICATE OF CONFORMITY

**Description of Test Instrument** 

Type No.

Serial No.

Bruel & Kjaer Sound Level Meter Kit 2

2231

1709184

Bruel & Kjaer 1/2" Microphone Kit 2

4188

2179476

Date of Test:

18 August 2003

Carried out by: Steven Wong

Approved by:

William Ng

Signature: June

Signature:

Willi- My

Ambient Conditions During Test	
Atmospheric Pressure:	1KPa
Air Temperature:	22°C
Relative Humidity:	60%

This document is to certify that the above Test Instrumentation did conform to the manufacturer's original specification on the date of the test. Any adjustments that were required to bring the instrumentation back into specification are duly noted in this document.

The tests were carried out using the reference calibrator described below.

Description of Reference Calibrator

Type No.

Serial No.

Bruel & Kjaer Multi Frequency Calibrator

4226

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Calibration Date: 20 Mar 2003

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# Footnote



Level 5 Festival Walk 80 Tat Chee Avenue

Kowloon Tong, Kowloon

HONG KONG

Tel: 2268 3216

Fax: 2268 3950

AAc Certificate No. 2003005

# CERTIFICATE OF CONFORMITY

Description of Test Instrument

Type No.

Serial No.

Bruel & Kjaer Sound Level Meter

*2238* 

2320707

Bruel & Kjaer 1/2" Microphone

4188

2179479

Date of Test:

18 August 2003

Carried out by:

Steven Wong

Approved by:

William Ng

Signature:

Steven

Signature:

Lila - M

Ambient Conditions During Tes	<b>t:</b>
Atmospheric Pressure:	1KPa
Air Temperature:	22°C
Relative Humidity:	60%

This document is to certify that the above Test Instrumentation did conform to the manufacturer's original specification on the date of the test. Any adjustments that were required to bring the instrumentation back into specification are duly noted in this document.

The tests were carried out using the reference calibrator described below.

Description of Reference Calibrator

Type No.

Serial No.

Bruel & Kjaer Multi Frequency Calibrator

4226

1531372

Certificate of Calibration No.

11449

By Bruel & Kjaer (A Division of Spectris (UK) Ltd)

Calibration Date: 20 Mar 2003

The reference calibrator, type 4226 has traceable calibrator back to National Measurement Standards. As such it is used as Arup Acoustics own 'Primary Standard' and is used only for controlled laboratory calibration tests on all sound measuring equipment owned by Arup Acoustics.

# Footnote



Level 5 Festival Walk

80 Tat Chee Avenue Kowloon Tong, Kowloon

HONG KONG

Tel: 2268 3216

Fax: 2268 3950

AAc Certificate No. 2003006

# CERTIFICATE OF CONFORMITY

**Description of Test Instrument** 

Type No.

Serial No.

Bruel & Kjaer Sound Level Meter

2238

2320694

Bruel & Kjaer 1/2" Microphone

4188

2274284

Date of Test:

18 August 2003

Carried out by: Steven Wong

Approved by:

William Ng

Signature: Stem-

Signature:

hallon hy

Ambient Conditions During Test:	
Atmospheric Pressure:	1KPa
Air Temperature:	22°C
Relative Humidity:	60%

This document is to certify that the above Test Instrumentation did conform to the manufacturer's original specification on the date of the test. Any adjustments that were required to bring the instrumentation back into specification are duly noted in this document.

The tests were carried out using the reference calibrator described below.

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Type No.

Serial No.

Bruel & Kjaer Multi Frequency Calibrator

4226

1531372

Certificate of Calibration No.

11449

By Bruel & Kjaer (A Division of Spectris (UK) Ltd)

Calibration Date: 20 Mar 2003

The reference calibrator, type 4226 has traceable calibrator back to National Measurement Standards. As such it is used as Arup Acoustics own 'Primary Standard' and is used only for controlled laboratory calibration tests on all sound measuring equipment owned by Arup Acoustics.

### Footnote



Arup Acoustics (HK) Level 5 Festival Walk

80 Tat Chee Avenue

Kowloon Tong, Kowloon HONG KONG

Tel: 2268 3216

Fax: 2268 3950

AAc Certificate No. 2003007

# CERTIFICATE OF CONFORMITY

Description of Test Instrument

Type No.

Serial No.

Bruel & Kjaer Sound Level Meter

2238

2320696

Bruel & Kjaer 1/2" Microphone

4188

2274206

Date of Test:

18 August 2003

Carried out by:

Steven Wong

Approved by:

William Ng

Signature: Jan

Signature:

Willia My

Ambient Conditions During Test:	
Atmospheric Pressure:	1KPa
Air Temperature:	22°C
Relative Humidity:	60%

This document is to certify that the above Test Instrumentation did conform to the manufacturer's original specification on the date of the test. Any adjustments that were required to bring the instrumentation back into specification are duly noted in this document.

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## Footnote



# APPENDIX C

Detailed noise monitoring results for August 2003

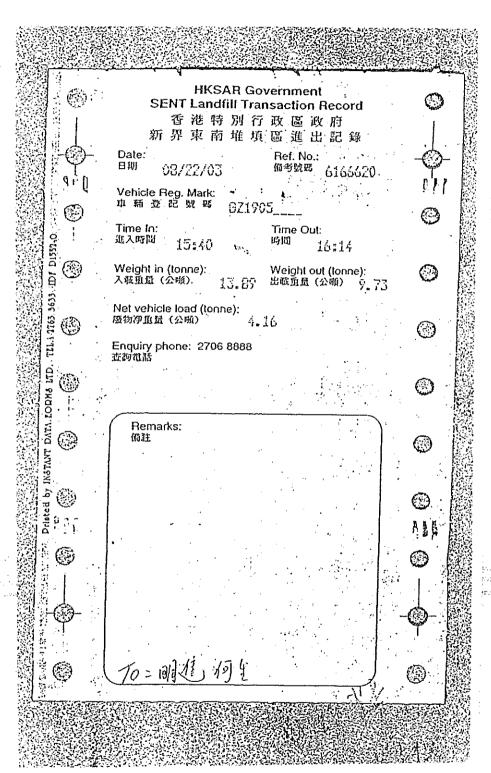
# **Details of Noise Impact Monitoring**

	NSR	Time p	eriods	Weather	Avg. wind	Nois	e Level o	B(A)	Influencing factors/
Date	No.	Start	Finish	condition	speed (m/s)	Leq	L <sub>10</sub>	L <sub>90</sub>	Site condition
07-Aug-03	NM1	13:00	13:30	Sunny	0.5	69,0	74.5	62.5	Normal Operation
07-Aug-03	NM2	13:00	13:30	Sunny	0.5	67.5	71.5	62.0	Normal Operation
15-Aug-03	NM1	11:20	11:50	Sunny	0.5	67.0	70.0	62.5	Normal Operation
15-Aug-03	NM2	11:25	11:55	Sunny	0.6	65.5	69.0	60.5	Normal Operation
22-Aug-03	NM1	13:00	13:30	Fine	0.4	67.0	72.5	61.5	Normal Operation
22-Aug-03	NM2	13:00	13:30	Fine	0.5	66.5	70.0	62.0	Normal Operation
26-Aug-03	NM1	13:10	13:40	Sunny	0.7	67.0	70.5	62.0	Normal Operation
26-Aug-03	NM2	13:50	14:20	Sunny	0.6	68.5	73,0	61.5	Normal Operation

# APPENDIX D

Trip ticket of chemical waste disposal

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