# Civil Engineering and Development Department

EP-344/2009 – New Sewage Pumping Stations Serving KTD and EP-337/2009 – New Distributor Roads Serving the Planned KTD

Contract No. KL/2010/03

Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities

Monthly EM&A Report

March 2014

(Version 2.0)

Approved By

(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

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#### **EXECUTIVE SUMMARY**

#### Introduction

- 1. This is the 29<sup>th</sup> Monthly Environmental Monitoring and Audit Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2010/03-Kai Tak Development Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities" (Hereafter referred to as "the Project"). This contract comprises two Schedule 2 designated projects (DPs), namely the new sewage pumping station PS1A serving the planned KTD and the new distributor road D2 serving the planned KTD. The two DPs are part of the designated projects under Environmental Permit No.: EP-344/2009 ("New sewage pumping stations serving Kai Tak Development) and EP-337/2009 ("New distributor roads serving the planned Kai Tak Development") respectively. This report documents the findings of EM&A Works conducted in March 2014.
- 2. With reference to the same principle of EIA report of the Project, air quality monitoring stations within 500m and noise monitoring stations within 300m from the boundary of this Project are considered as relevant monitoring locations. In such regard, the relevant air quality and noise monitoring locations are tabulated in Table I (see Figure 2 and 3 for their locations).

Table I – Air Quality and Noise Monitoring Stations for this Project

Locations	Monitoring Stations In accordance with EM&A Manual	Alternative Monitoring Stations	
Air Quality Monitoring Stations			
AM1 - Rhythm Garden	No	AM1(B) - Contractor Site Office (KL/2012/02)*	
AM2 - Lee Kau Yan Memorial School	Yes	N/A	
AM6 – Site 1B4 (Planned)	N/A		
Noise Monitoring Stations			
M1 - Buddhist Chi King Primary School	Yes	N/A	
M2 - S.K.H. Kowloon Bay Kei Lok Primary School	Yes	N/A	
M3 - Cognitio College	Yes	N/A	
M4 - Lee Kau Yan Memorial School	Yes	N/A	
M9 – Site 1B1 (Planned) M10 – Site 1B4 (Planned)	N/A		

Remark:\* The Contractor Site Office of KL/2012/02 occupied the same location of previous KL/2008/09 site office of and therefore the location of monitoring station AM1(B) is remain unchanged.

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- 3. According to the Environmental Monitoring and Audit Manual (EM&A Manual) of the Kai Tak Development (KTD) Schedule 3 Environmental Impact Assessment (EIA) Report, the impact monitoring at the designated monitoring stations as required in KTD EM&A Manual under two EPs, have been conducted in Contract No. KLN/2010/04 Environmental Monitoring Works for Kai Tak Development under Schedule 3 of KTD, which is on-going starting from December 2010. The impact monitoring data under Contract No. KLN/2010/04 will be adopted for the Project. Therefore, this report presents the air quality and noise monitoring works extracted from Contract No. KLN/2010/04.
- 4. The major site activities undertaken in the reporting month included:
  - Builder's works and E&M works of pumping station PS1A;
  - Surface drainage and ducting construction at pumping station PS1A;
  - Drainage works at Road L4, Road L5 & pedestrian streets;
  - Water supply pipeworks at Road L5;
  - Duct and irrigation pipe laying along pedestrian streets;
  - Trimming formation and laying sub-base along Road L4 and pedestrian streets; and
  - Construction of Box Culvert at Portions A & N.

# **Environmental Monitoring Works**

- 5. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 6. Summary of the non-compliance in the reporting month for the Project is tabulated in Table II.

Table II Non-compliance Record for the Project in the Reporting Month

Parameter	No. of Project-rela	No. of Project-related Exceedance		
1 at afficter	Action Level	Limit Level	Action Taken	
1-hr TSP	0	0	N/A	
24-hr TSP	0	0	N/A	
Noise	0	0	N/A	

1-hour & 24-hour TSP Monitoring

7. All 1-hour & 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

8. All construction noise monitoring was conducted as scheduled in the reporting month except 31 March 2014. Noise monitoring at M3 (Cognitio College) was rescheduled to 3 April 2014 due to heavy rain. No Action/Limit Level exceedance was recorded.

#### **Environmental Licenses and Permits**

- 9. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Environmental Permits No. EP-344/2009 and EP-337/2009 were issued on 23 April 2009.
- 10. Registration of Chemical Waste Producer (License: 5213-286-P1079-04).
- 11. Water Discharge License (License No.: WT00011274-2011 and WT00011276-2011).
- 12. Construction Noise Permit (License No.: GW-RE0165-14).

# **Key Information in the Reporting Month**

13. Summary of key information in the reporting month is tabulated in Table III.

Table III Summary Table for Key Information in the Reporting Month

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Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	
Reporting Changes	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

# **Future Key Issues**

- 14. The future key environmental issues in the coming month include:
  - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
  - Water spraying for dust generating activity and on haul road;
  - Storage of chemicals/fuel and chemical waste/waste oil on site;
  - Accumulation of general and construction waste on site;
  - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
  - Wastewater and runoff discharge from site;
  - Regular removal of silt, mud and sand along u-channels and sedimentation tanks; and
  - Review and implementation of temporary drainage system for the surface runoff.

#### 1. INTRODUCTION

# **Background**

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. It covers a land area of about 328 hectares. Stage 2 infrastructure works at North Apron Area of Kai Tak Airport for Public Housing and Government Office Developments is one of the construction stages of KTD. It contains various Schedule 2 DPs including new distributor roads serving the planned KTD and new sewage pumping stations serving the planned KTD. The general layout of the Project is shown in **Figure 1.**
- 1.2 Two Environmental Permits (EPs) No. EP-344/2009 and EP-337/2009 were also issued on 23 April 2009 for new sewage pumping stations serving the planned KTD and new distributor roads serving the planned KTD respectively to Civil Engineering and Development Department as the Permit Holder.
- 1.3 A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. An EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 April 2009.
- 1.4 Cinotech Consultants Limited (Cinotech) was commissioned by Peako Engineering Co., Ltd. (the Contractor) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2010/03 Kai Tak Development Stage 2 Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities. The construction work under KL/2010/03 comprises the construction of Road D2 & Sewage Pumping Station PS1A which forms a part of the works under two EPs (EP-337/2009 and EP-344/2009).
- 1.5 Cinotech Consultants Limited was commissioned by Peako Engineering Co., Ltd. to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of this Contract was on 24<sup>th</sup> October 2011 for Sewage Pumping Station PS1A. This is the 29<sup>th</sup> Monthly EM&A report summarizing the EM&A works for the Project in March 2014.

# **Project Organizations**

- 1.6 Different parties with different levels of involvement in the project organization include:
  - Project Proponent Civil Engineering and Development Department (CEDD).
  - The Engineer and the Engineer's Representative (ER) Ove Arup & Partners (ARUP).
  - Environmental Team (ET) Cinotech Consultants Limited (CCL).
  - Independent Environmental Checker (IEC) EDMS Consultants Ltd. (EDMS).
  - Contractor Peako Engineering Co., Ltd. (Peako).

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1.7 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 Key Project Contacts

Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD Project Proponent		Mr. Alfred Lee	Engineer	2301 1449	2301 1277
Engineer's		Mr. Keith Cheung	SRE	2756 8132	2756 8236
ARUP	Representative	Ms. Gloria Kwok	RE		
	Environmental Team	Dr. Priscilla Choy	Environmental Team Leader	2151 2089	
Cinotech		Ms. Ivy Tam	Project Coordinator and Audit Team Leader	2151 2090	3107 1388
EDMS	Independent Environmental Checker	Mr. Adi Lee	Independent Environmental Checker	2230 7165	3007 8556
Peako	Contractor	Mr. C.P. Lam	Project Manager	27730511	

#### **Construction Activities undertaken during the Reporting Month**

- 1.8 The site activities undertaken in the reporting month included:
  - Builder's works and E&M works of pumping station PS1A;
  - Surface drainage and ducting construction at pumping station PS1A;
  - Drainage works at Road L4, Road L5 & pedestrian streets;
  - Water supply pipeworks at Road L5;
  - Ducting, irrigation pipe laying and kerb laying along pedestrian streets;
  - Kerb laying along Roads L4 and L5;
  - Laying sub-base and placing bituminous pavement along L4 and pedestrian streets;
  - Paving concrete/granite blocks along pedestrian streets and footpaths of Road L4; and
  - Construction of Box Culvert at Portions A & N.
- 1.9 The construction programme showing the inter-relationship with environmental protection/mitigation measures are presented in Table 1.2.

Table 1.2 Construction Programme Showing the Inter-Relationship with Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.8	Noise, dust impact, water quality and waste generation	Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles; On-site waste sorting and implementation of trip ticket system Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Use of quiet plant and well-maintained construction plant; Provide movable noise barrier;

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Provide sufficient mitigation measures recommended in Approved EIA Report/Lease requirement.
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# **Summary of EM&A Requirements**

- 1.10 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
  - All monitoring parameters;
  - Action and Limit levels for all environmental parameters;
  - Event Action Plans;
  - Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the two EPs.
- 1.11 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.
- 1.12 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely air quality and noise levels and audit works for the Project in March 2014.

# 2. AIR QUALITY

# **Monitoring Requirements**

2.1 According to EM&A Manual under the two EPs, 1-hour and 24-hour TSP monitoring were conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days shall be undertaken when the highest dust impact occurs. **Appendix** A shows the established Action/Limit Levels for the environmental monitoring works.

# **Monitoring Locations**

2.2 Three designated monitoring stations were selected for air quality monitoring programme. Impact dust monitoring was conducted at two air quality monitoring stations, Contractor Site Office (KL/2012/02) AM1(B) <sup>(1)</sup>, Lee Kau Yan Memorial School (AM2) in the reporting month. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

**Table 2.1** Locations for Air Quality Monitoring

<b>Monitoring Stations</b>	Locations	Location of Measurement
AM1(B)	Contractor Site Office (KL/2012/02) <sup>(1)</sup>	Ground Floor Area
AM2	Lee Kau Yan Memorial School	Rooftop (about 8/F) Area
#AM6	PA 15	Site 1B4 (Planned)

Remarks: # The impact monitoring at these locations will only be carried out until existence of the sensitive receiver at the building.

Note 1: The Contractor Site Office of KL/2012/02 occupied the same location of previous KL/2008/09 site office of and therefore the location of monitoring station AM1(B) is remain unchanged.

#### **Monitoring Equipment**

2.3 Table 2.2 summarizes the equipment used in the impact air monitoring programme. Copies of calibration certificates are attached in **Appendix B**.

**Table 2.2** Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
Calibrator	TISCH - TE-5025A	1
1-hour TSP Dust Meter	Laser Dust Monitor – Model LD-3, LD-3B	7
HVS Sampler	GMWS 2310 c/w of TSP sampling inlet	2
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1

# **Monitoring Parameters, Frequency and Duration**

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2.4 **Table 2.3** summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

**Table 2.3** Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency	
1-hr TSP	Three times / 6 days	
24-hr TSP	Once / 6 days	

### Monitoring Methodology and QA/QC Procedure

1-hour TSP Monitoring

# Measuring Procedures

- 2.5 The measuring procedures of the 1-hour dust meters were in accordance with the Manufacturer's Instruction Manual as follows:
  - The 1-hour dust meter is placed at least 1.3 meters above ground.
  - Set POWER to "ON" and make sure that the battery level was not flash or in low level.
  - Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
  - Push the knob at MEASURE position.
  - Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
  - Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
  - Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

# Maintenance/Calibration

- 2.6 The following maintenance/calibration was required for the direct dust meters:
  - Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

# 24-hour TSP Monitoring

# Instrumentation

2.7 High volume (HVS) samplers (Model GMWS-2310 Accu-Vol) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in section 2.5 of the updated EM&A Manual.

# Operating/Analytical Procedures

- 2.8 Operating/analytical procedures for the operation of HVS were as follows:
  - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
  - No two samplers were placed less than 2 meters apart.
  - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
  - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
  - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
  - No furnaces or incineration flues were nearby.
  - Airflow around the sampler was unrestricted.
  - The sampler was more than 20 meters from the drip line.
  - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.9 Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m³/min. and 1.4 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.10 For TSP sampling, fiberglass filters have a collection efficiency of > 99% for particles of 0.3µm diameter were used.
- 2.11 The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.12 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.13 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with

swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.

- 2.14 The shelter lid was closed and secured with the aluminum strip.
- 2.15 The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.16 After sampling, the filter was removed and sent to the HOKLAS laboratory (Wellab Ltd.) for weighing. The elapsed time was also recorded.
- 2.17 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

# Maintenance/Calibration

- 2.18 The following maintenance/calibration was required for the HVS:
  - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
  - High volume samplers were calibrated at bi-monthly intervals using G25A Calibration Kit throughout all stages of the air quality monitoring.

### **Results and Observations**

- 2.19 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.20 All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.21 The air temperature, precipitation and the relative humidity data was obtained from Hong Kong Observatory where the wind speed and wind direction were recorded by the installed Wind Anemometer set at Lee Kau Yan Memorial School from 26 April 2013. The location is shown in **Figure 4**. This weather information for the reporting month is summarized in **Appendix C.**
- 2.22 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E and F** respectively.
- 2.23 The summary of exceedance record in reporting month is shown in **Appendix H**. No exceedance was recorded for the air quality monitoring.
- 2.24 According to our field observations, the major dust source identified at the designated air quality monitoring stations are as follows:

Station	Major Dust Source
AM1(B) – Contractor Site Office (KL/2012/02)	Road Traffic Dust
	Exposed site area and open stockpiles
	Site vehicle movement
AM2 – Lee Kau Yan Memorial School	Road Traffic Dust
	Exposed site area and open stockpiles
	Excavation works
	Site vehicle movement

2.25 **Table 2.4** shows the summary of air quality monitoring results during the reporting month.

Table 2.4 Summary Table of Air Quality Monitoring Results during the reporting month

Parameter	Date	Concentration (µg/m3)	Action Level, μg/m3	Limit Level, µg/m3		
AM1(B) – Contractor Site	Office (KL/2012	2/02)	•			
	3-Mar-14	212.4				
	3-Mar-14	226.6				
	3-Mar-14	236.6				
	7-Mar-14	166.2				
	7-Mar-14	173.0				
	7-Mar-14	175.4				
	13-Mar-14	53.1				
	13-Mar-14	56.4				
1-hr TSP	13-Mar-14	58.1	342	500		
1-111 131	19-Mar-14	136.3		300		
	19-Mar-14	146.5				
	19-Mar-14	142.1				
	25-Mar-14	129.6				
	25-Mar-14	132.0				
	25-Mar-14	128.3				
	31-Mar-14	131.3				
	31-Mar-14	127.9				
	31-Mar-14	133.7				
	6-Mar-14	67.2				
	12-Mar-14	128.0				
24-hr TSP	18-Mar-14	107.1	159	260		
	24-Mar-14	98.6				
	28-Mar-14	95.6				
AM2 – Lee Kau Yan Mem	AM2 – Lee Kau Yan Memorial School					
	3-Mar-14	311.3	346 500			
	3-Mar-14	317.2				
1-hr TSP	3-Mar-14	297.5		500		
	7-Mar-14	173.6				
	7-Mar-14	181.3				

	7-Mar-14	198.0		
	13-Mar-14	63.8		
	13-Mar-14	66.6		
	13-Mar-14	67.5		
	19-Mar-14	179.2		
	19-Mar-14	168.6		
	19-Mar-14	161.9		
	25-Mar-14	122.6		
	25-Mar-14	128.1		
	25-Mar-14	133.7		
	31-Mar-14	84.4		
	31-Mar-14	87.3		
	31-Mar-14	89.5		
	6-Mar-14	63.0		
	12-Mar-14	145.8		
24-hr TSP	18-Mar-14	147.8	157	260
	24-Mar-14	134.2		
	28-Mar-14	71.5		

#### 3. NOISE

# **Monitoring Requirements**

3.1 According to EM&A Manuals under the two EPs, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities within KTD. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

# **Monitoring Locations**

3.2 Six designated monitoring stations were selected for noise monitoring programme. Noise monitoring was conducted at four designated monitoring stations (M1, M2, M3, M4(A)) in the reporting month. **Figure 3** shows the locations of these stations.

**Table 3.1 Noise Monitoring Stations** 

<b>Monitoring Stations</b>	Locations	<b>Location of Measurement</b>
M1	Buddhist Chi King Primary School	7/F Sport Area
M2	S.K.H. Kowloon Bay Kei Lok Primary School	7/F Podium
M3	Cognitio College	Rooftop (about 6/F) Area
M4	Lee Kau Yan Memorial College	Rooftop (about 7/F) Area
#M9	Site 1B1 (Planned)	-
#M10	Site 1B4 (Planned)	-

Remarks: # The impact monitoring at these locations will only be carried out until existence of the sensitive receiver at the building.

#### **Monitoring Equipment**

**Table 3.2** summarizes the noise monitoring equipment. Copies of calibration certificates are provided in **Appendix B**.

**Table 3.2** Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	SVAN 955 & 957	6
Calibrator	SVAN 30A / B&K4231	5

# **Monitoring Parameters, Frequency and Duration**

**Table 3.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

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 Table 3.3
 Noise Monitoring Parameters, Frequency and Duration

Monitoring Stations	Parameter	Period	Frequency	Measurement
M1 M2 M3 M4	L <sub>10</sub> (30 min.) dB(A) L <sub>90</sub> (30 min.) dB(A) L <sub>eq</sub> (30 min.) dB(A)	0700-1900 hrs on normal weekdays	Once per week	Façade

# Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2 m above the ground.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

frequency weightingtime weightingFast

— time measurement : 30 minutes

- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the  $L_{eq}$ ,  $L_{90}$  and  $L_{10}$  were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused temporarily during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

#### **Maintenance and Calibration**

- 3.5 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.6 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.7 Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

#### **Results and Observations**

- 3.8 All construction noise monitoring was conducted as scheduled in the reporting month except 31 March 2014. Noise monitoring at M3 (Cognitio College) was rescheduled to 3 April 2014 due to heavy rain. No Action/Limit Level exceedance was recorded. The summary of exceedance record in reporting month is shown in **Appendix H**.
- 3.9 The baseline noise level and the Noise Limit Level at each designated noise monitoring

station are presented in **Table 3.4**.

- 3.10 Noise monitoring results and graphical presentations are shown in **Appendix G**.
- 3.11 The major noise source identified at the designated noise monitoring stations are as follows:

Monitoring Stations	Locations	Major Noise Source
M1	Buddhist Chi King Primary School	Traffic Noise
M2	S.K.H. Kowloon Bay Kei Lok Primary School	Site vehicle movement
M3	Cognitio College	Traffic Noise Daily school activities Construction Noise from nearby Construction Sites
M4	Lee Kau Yan Memorial School	Traffic Noise Site vehicle movement Excavation works Piling works Daily school activities

**Table 3.4** Baseline Noise Level and Noise Limit Level for Monitoring Stations

Station	Baseline Noise Level, dB (A)	Noise Limit Level,dB (A)
M1	64.4 (at 0700 – 1900 hrs on normal weekdays)	70* (at 0700 – 1900 hrs on
M2	61.3 (at 0700 – 1900 hrs on normal weekdays)	normal weekdays)
M3	76.3 <sup>(1)</sup> /78.6 <sup>(2)</sup> (at 0700 – 1900 hrs on normal weekdays)	70* (at 0700 – 1900 hrs on normal weekdays)
M4	76.7 (at 0700 – 1900 hrs on normal weekdays)	70* (at 0700 – 1900 hrs on normal weekdays)

<sup>(\*)</sup> Noise Limit Level is 65 dB(A) during school examination periods.

Note (1): The alternative monitoring plan was approved by the EPD on  $21^{st}$  June 2013 to relocate the Noise Monitoring Stations from M3(A) - Kai Tak Operational Base (closed in mid of Year 2013) to M3 - Cognitio College with adopting the baseline noise level recorded at Rhythm Garden (i.e. 76.3dB(A) as both locations were affected by comparative traffic amount from Edward Road East.

<sup>(2):</sup> Since the request to conduct the noise monitoring at the Rooftop was approved by Cognitio College, a baseline noise review report was submitted under Schedule 3 EIA Project – Tak Tai Development (KLN/2010/04) for M3 and was approved by EPD on 23<sup>rd</sup> August 2013. (Baseline Level was found to be 78.6dB(A) at Rooftop of Cognitio College)

Table 3.5 Summary Table of Noise Monitoring Results during the Reporting Month

Date	Measured Noise Level, Leq(30min) dB (A)	Baseline Level dB (A)	Construction Noise Level (1): Leq(30min) dB (A)
M1 - Buddhist	Chi King Primary Scho	ol	
5-Mar-14	66.9		63.3
12-Mar-14	65.2	64.4	57.5
18-Mar-14	64.4	04.4	64.4 Measured ≦ Baseline
27-Mar-14	65.3		58.0
M2 - S.K.H. K	owloon Bay Kei Lok Pr	imary School	
5-Mar-14	68.8		67.9
12-Mar-14	66.1	61.2	64.4
18-Mar-14	67.2	61.3	65.9
27-Mar-14	67.7		66.6
M3 - Cognitio	College		
		Background Noise <sup>(2)</sup>	
3-Mar-14	80.5	80.7	80.5 Measured ≤ Background
13-Mar-14	79.8	79.5	68.0
19-Mar-14	80.1	79.7	69.5
25-Mar-14	79.8	79.4	69.2
M4 – Lee Kau	Yan Memorial College		
3-Mar-14	75.7		75.7 Measured ≦ Baseline
13-Mar-14	74.1		74.1 Measured ≦ Baseline
19-Mar-14	73.2	76.7	73.2 Measured ≦ Baseline
25-Mar-14	74.9		74.9 Measured ≦ Baseline
31-Mar-14	67.1		67.1 Measured ≦ Baseline

Note (1) The noise level due to the construction work (CNL) was calculated by the following formula:

$$CNL = 10 \log (10^{MNL/10} - 10^{BNL/10})$$

Remarks: MNL = Measured Noise Level BNL = Baseline Noise Level

(2): Since the Background Noise Level recorded during the Lunch Hour of Construction Site (i.e. 12:00-13:00) on the same day of impact noise monitoring was considered more appropriate for compliance checking for Noise Action and Limit Level than the baseline noise level obtained during the baseline review in July 2013. The measurement of Background Noise Level at M3 was then commenced from 9 September 2013 to provide a referencing value for compliance checking for Noise Action and Limit Level.

# Monthly EM&A Report – March 2014

# 4. COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1 The EM&A data was compared with the EIA predictions as summarized in **Tables 4.1 to 4.3**.

Table 4.1 Comparison of 1-hr TSP data with EIA predictions

Station	Predicted 1-hr TSP conc.			
	Scenario1 (Mid 2009 to Mid 2013), µg/m3	Scenario2 (Mid 2013 to Late 2016), µg/m3	Reporting Month (Mar 14), µg/m3	
AM1(B) – Contractor Site Office of KL/2012/02	192	298	143	
AM 2 – Lee Kau Yan Memorial School	290	312	157	

 Table 4.2
 Comparison of 24-hr TSP data with EIA predictions

Station	Predicted 24-hr TSP conc.			
	Scenario1 (Mid 2009 to Mid 2013), µg/m3	Scenario2 (Mid 2013 to Late 2016), µg/m3	Reporting Month (Mar 14), µg/m3	
AM1(B) – Contractor Site Office of KL/2012/02	121	156	99	
AM2 – Lee Kau Yan Memorial School	145	169	112	

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels during Normal Working Hour (L <sub>eq (30min)</sub> dB(A))	$\begin{array}{c} \text{Reporting Month (Mar 14),} \\ L_{eq \; (30min)} \; dB(A) \end{array}$
M1 - Buddhist Chi King Primary School	51 – 68	57.5 – 64.4
M2 - S.K.H. Kowloon Bay Kei Lok Primary School	51 – 70	64.4 – 67.9
M3 - Cognitio College	47 - 75	68.0 - 80.5
M4 - Lee Kau Yan Memorial School	47 – 74	67.1 – 75.7 <sup>(1)</sup>

Note 1: The recorded noise levels were considered non-valid exceedance of Noise Limit Level as the baseline level at noise monitoring station M4 was 76.7 dB(A) and

4.2 The 1-hour TSP concentrations in the reporting month were below to the prediction in the approved Environmental Impact Assessment (EIA) Report.

- 4.3 The 24-hour TSP concentrations in the reporting month were below to the prediction in the approved Environmental Impact Assessment (EIA) Report.
- 4.4 The noise monitoring results in the reporting month at monitoring stations M3 were higher than the predicted mitigated construction noise levels in the EIA report and lower than the referencing baseline level. This was due to the major noise source during monitoring, i.e. background road traffic noise at the monitoring stations.

#### 5. LANDSCAPE OF VISUAL

# **Monitoring Requirements**

5.1 According to EM&A Manual of the Kai Tak Development EIA Study, ET shall monitor and audit the contractor's operation during the construction period on a weekly basis, and to report on the contractor's compliance.

# **Results and Observations**

- 5.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.
- 5.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.4 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in **Appendix J** shall be performed.

#### 6. ENVIRONMENTAL AUDIT

#### **Site Audits**

- 6.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 6.2 Site audits were conducted on 5<sup>th</sup>, 13<sup>th</sup>, 19<sup>th</sup> and 26<sup>th</sup> March 2014 in the reporting month. IEC site inspections were conducted on 13<sup>th</sup> March 2014. No non-compliance was observed during the site audits.

#### **Review of Environmental Monitoring Procedures**

6.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

#### Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

#### Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

# **Status of Environmental Licensing and Permitting**

6.4 All permits/licenses obtained for the Project are summarized in Table 6.1.

Permit No.	Valid Period		Details	Ctatus
refint No.	From	To	Details	Status
Environmental Permit (EP)				
EP-344/2009			Construction of a new sewage pumping station serving the planned Kai Tak development with installed capacity of more than 2,000 m³ per day and a boundary of which is less than 150m from an existing or planned residential area or educational institution.	Valid

Permit No.	Valid Period		Details	C4 - 4
Permit No.	From	To	Details	Status
EP-337/2009	23/04/09	N/A	Construction of new distributor roads serving the planned Kai Tak development.	Valid
Effluent Discharge Li	cense			
WT00011274-2011	-	31/12/16	Industrial discharge (near Kai Tak Tunnel)	Valid
WT00011276-2011	-	31/12/16	Industrial discharge (near Concorde Road)	Valid
Registration of Chem	Registration of Chemical Waste Producer			
5213-286-P1079-04	-	N/A	Chemical Waste Types:	Valid
			Spent lubricating oil, spent solvent and	
			spent battery containing heavy metals	
<b>Construction Noise P</b>	ermit (CNP)	)		
GW-RE0165-14	21/02/14	20/08/14	Construction Noise Permit for the use of powered mechanical equipment for carrying out construction work other than percussive pilling and performing prescribed construction work at Construction site of Kai Tak Development at north apron area of Kai Tak Airport near Eastern Road. Box Culvert & Sewage Pumping Station No. PS1A, Kowloon	Valid

# **Status of Waste Management**

- 6.5 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix M**.
- 6.6 In respect of the dump truck cover, the Contractor is advised to take record photos and inspection to ensure that all dump trucks have fully covered the skip before leaving the site.

# **Implementation Status of Environmental Mitigation Measures**

6.7 During site inspections in the reporting month, no non-conformance was identified. ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in Table 6.2.

**Table 6.2** Observations and Recommendations of Site Inspections

Parameters	Date	Observations and Recommendations	Follow-up	
Water Quality				
Air Quality	5/3/14	Dusty stockpile should be covered by impervious materials to prevent dust generation. (Road L5)	Rectification/improvement was observed during the follow-up audit session on 19/03/2014.	
	13/3/14	Dusty stockpile should be covered by impervious materials to prevent dust generation. (Outside PS1A, Road L4)	Rectification/improvement was observed during the follow-up audit session.	

Parameters	Date	Observations and Recommendations	Follow-up
	13/3/14	Unpaved haul road should be watered regularly to prevent dust generation. (Road L4)	Rectification/improvement was observed during the follow-up audit session.
	19/3/14	Dust generating activity should be watered. (Road D2)	Rectification/improvement was observed during the follow-up audit session.
	19/3/14	Dusty stockpile should be covered by impervious materials. (Near PS1A)	Rectification/improvement was observed during the follow-up audit session.
	26/3/14	Stock of cement should be covered by impervious materials. (PS1A)	Rectification/improvement was observed during the follow-up audit session.
Noise			-
Waste/Chemical Management	26/3/14	Construction waste should be cleared regularly. (PS1A)	Rectification/improvement was observed during the follow-up audit session.
Landscape and Visual			
Permits /Licences			

# **Summary of Mitigation Measures Implemented**

6.8 The monthly IEC audit was carried out on 13<sup>th</sup> March 2014, the observations were recorded and they are presented as follows:

# Observations:

- Area next to Road L4/L5 and pumping station PS1A Dusty stockpile without proper cover was observed. The contractor should provide tarpaulin cover for overnight stocking.
- Area of Road L4/L5 Dry unpaved haul road was observed. The contractor should spray water on unpaved haul road regularly in order to prevent dust generation.

#### Follow up of last site inspection:

- At pumping station PS1A Cigarette boxes were removed. Also, no general refuse was observed. Last observation closed.
- At pumping station PS1A Chemical contain was removed. Last observation closed.
- 6.9 An updated summary of the EMIS is provided in **Appendix K**.

#### **Implementation Status of Event Action Plans**

6.10 The Event Action Plans for air quality, noise and landscape and visual are presented in **Appendix J**.

#### 1-hr TSP Monitoring

6.11 No Action/Limit Level exceedance was recorded in the reporting month.

#### 24-hr TSP Monitoring

6.12 No Action/Limit Level exceedance was recorded in the reporting month.

Construction Noise

6.13 No Action/Limit Level exceedance was recorded in the reporting month.

Landscape and visual

6.14 No non-compliance was recorded in the reporting month.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

6.15 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix L**.

#### 7. FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
  - Builder's works and E&M works of pumping station PS1A;
  - Surface drainage and ducting construction at pumping station PS1A;
  - Drainage works at Road L4, Road L5 & pedestrian streets;
  - Water supply pipeworks at Road L5;
  - Ducting, irrigation pipe laying and kerb laying along pedestrian streets;
  - Kerb laying along Roads L4 and L5;
  - Laying sub-base and placing bituminous pavement along L4 and pedestrian streets;
  - Paving concrete/granite blocks along pedestrian streets and footpaths of Road L4; and
  - Construction of Box Culvert at Portions A & N.

# **Key Issues for the Coming Month**

- 7.2 Key environmental issues in the coming month include:
  - Review and implementation of temporary drainage system for the surface runoff;
  - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
  - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
  - To properly sort the construction waste;
  - Dust generation should be mitigated by adequate water spraying, especially in dry days;
  - Watering for dust generating activity and on haul road;
  - Storage of chemicals/fuel and chemical waste/waste oil on site:
  - Accumulation of general and construction waste on site.

7.3 The tentative program of major site activities and the impact prediction and control measures for the coming two months, i.e. April and May 2014 are summarized as follows:

<b>Construction Works</b>	Major Impact Prediction	Control Measures
As mentioned in Section 7.1	Air quality impact (dust)  Water quality impact (surface run-off)	<ul> <li>a) Frequent watering of haul road and unpaved/exposed areas;</li> <li>b) Frequent watering or covering stockpiles with tarpaulin or similar means; and</li> <li>c) Watering of any earth moving activities.</li> <li>d) Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains;</li> <li>e) Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge;</li> <li>f) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and</li> <li>g) Provision of measures to prevent discharge into the stream.</li> </ul>
	Noise Impact	<ul> <li>h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation;</li> <li>i) Controlling the number of plants use on site;</li> <li>j) Regular maintenance of machines; and</li> <li>k) Use of acoustic barriers if necessary.</li> </ul>

# **Monitoring Schedule for the Next Month**

7.4 The tentative environmental monitoring schedules for the next month are shown in **Appendix D**.

#### 8. CONCLUSIONS AND RECOMMENDATIONS

#### **Conclusions**

8.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

# 1-hr TSP Monitoring

8.2 All 1-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

# 24-hr TSP Monitoring

8.3 All 24-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

# **Construction Noise Monitoring**

8.4 All construction noise monitoring was conducted as scheduled in the reporting month except 31 March 2014. Noise monitoring at M3 (Cognitio College) was rescheduled to 3 April 2014 due to heavy rain. No Action/Limit Level exceedance was recorded.

# Landscape and visual

8.5 No non-compliance was recorded in the reporting month.

# **Complaint and Prosecution**

8.6 No environmental complaints and environmental prosecution were received in the reporting month.

#### Recommendations

8.7 According to the environmental audit performed in the reporting month, the following recommendations were made:

#### Air Quality Impact

- To regularly maintain the quality of machinery and vehicles on site.
- To implement dust suppression measures on all haul roads, stockpiles, dry surfaces and excavation works.
- To provide hoarding along the entire length of that portion of the site boundary.
- To mitigate the dust generation by adequate water spraying in dry days.

#### Noise Impact

- To inspect the noise sources inside the site.
- To space out noisy equipment and position the equipment as far away as possible from sensitive receivers.

- To provide temporary noise barriers for operations of noisy equipment near the noise sensitive receivers in an appropriate location.
- To well maintain the mechanical equipment/ machineries to avoid abnormal noise nuisance.

# Water Impact

- To prevent any surface runoff discharge into any stream course.
- To review and implement temporary drainage system.
- To clear the silt and sediment in the sedimentation tanks.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.

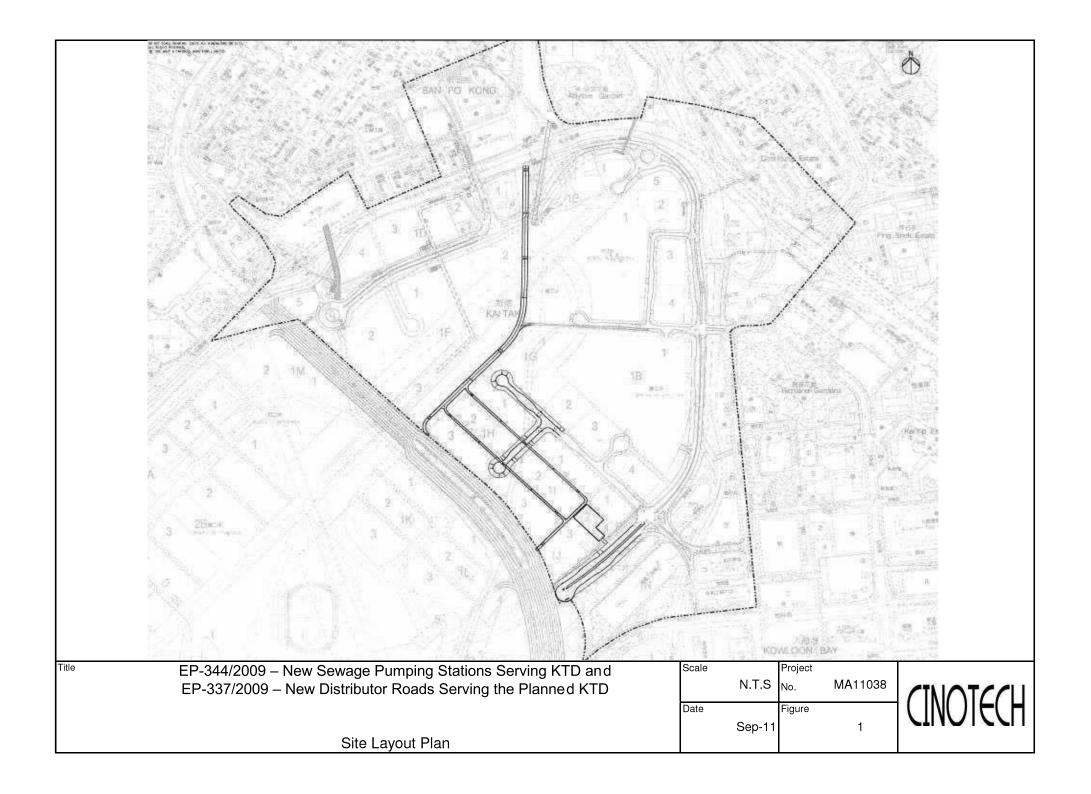
#### Waste/Chemical Management

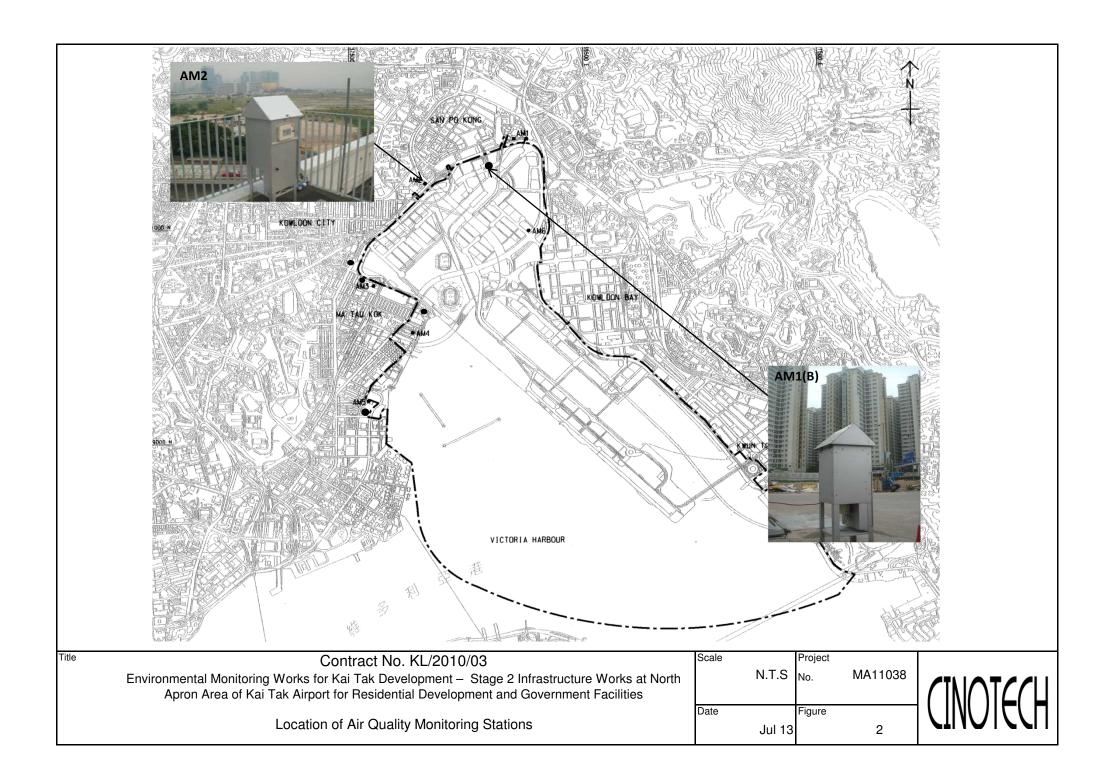
- To check for any accumulation of waste materials or rubbish on site.
- To ensure the performance of sorting of C&D materials at source (during generation);
- To carry out inspection of dump truck at site exit to ensure inert and non-inert C&D materials are properly segregated before removing off site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To provide proper storage area or drip trays for oil containers/ equipment on site.
- To avoid improper handling or storage of oil drum on site.
- To keep machines and equipments in good condition to avoid oil leakage.

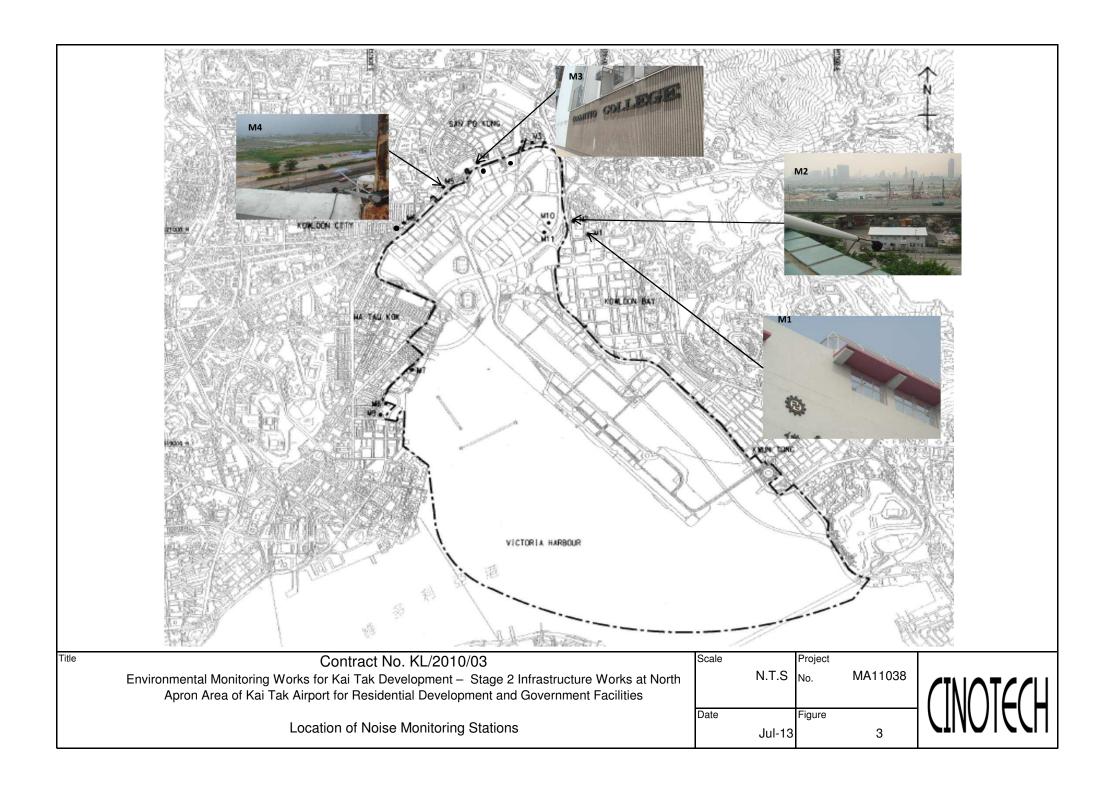
#### Landscape and Visual

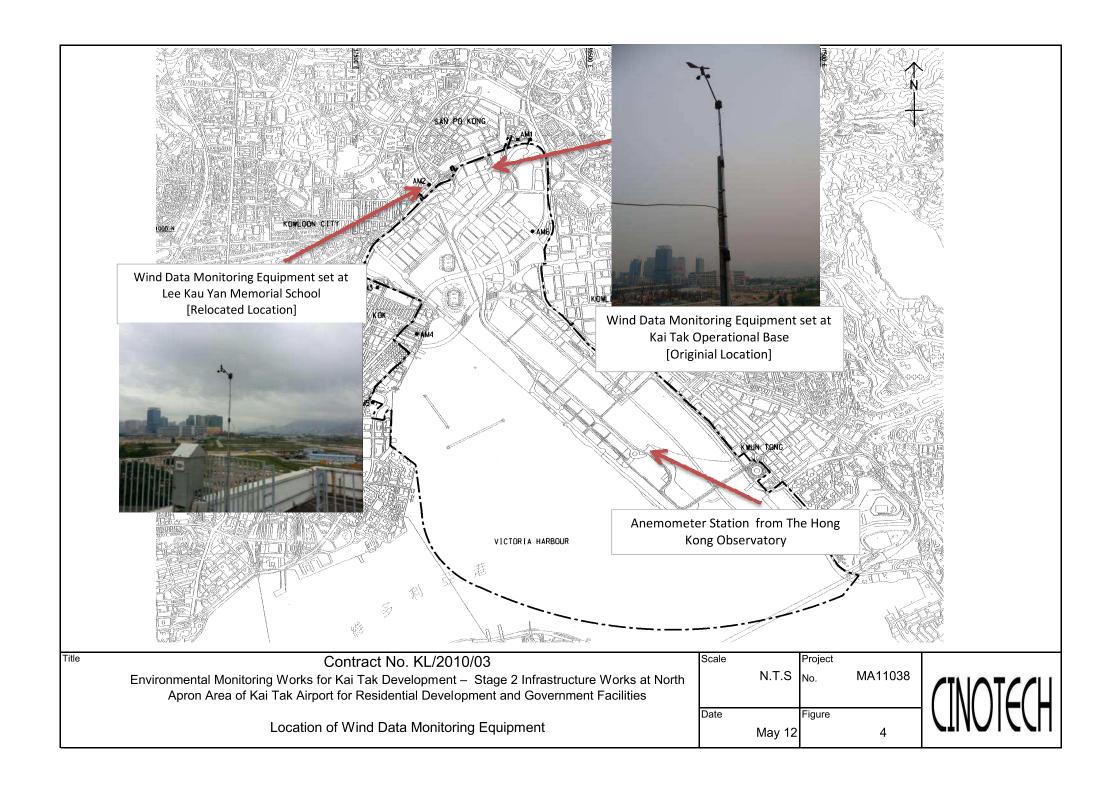
- To protect the existing trees to be retained.
- To transplant the trees unavoidably affected by the works.
- To control of night-time lighting.
- To provide decorative screen hoarding.
- To complete landscape works at site area as early as possible.

# **FIGURES**









## APPENDIX A ACTION AND LIMIT LEVELS

## **Appendix A - Action and Limit Levels**

**Table A-1** Action and Limit Levels for 1-Hour TSP

Location	Action Level, μg/m³	Limit Level, μg/m³
AM1(B)	342	500
AM2	346	500

**Table A-2** Action and Limit Levels for 24-Hour TSP

Location	Action Level, μg/m³	Limit Level, μg/m³
AM1(B)	159	260
AM2	157	260

Table A-3 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. \*70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

## APPENDIX B COPIES OF CALIBRATION CERTIFCATES

# High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



						File No.	MA14008/58/0021
Station	AM1(B) - Outsi	de RLJV site off	ice (KL/2008/09)	Operator:	WK		
Date:	27-Feb-14		_	Next Due Date:	26-Apr	-14	-
Equipment No.:	A-01-58		_	Serial No.	2357		-
			Ambient (	Condition			
	m (TZ)	202.8	1		<u> </u>	768.4	
Temperatur	e, 1a(K)	292.8	Pressure, Pa	і (шилд)		700.4	
		О	rifice Transfer Sta	ndard Inform	ation		
Equipme	nt No.:	A-04-04	Slope, mc	0.0588	Intercep	t, bc	-0.0461
Last Calibra	tion Date:	30-Sep-13		me x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$		a)] <sup>1/2</sup>	
Next Calibra	ntion Date:	29-Sep-14			x (Pa/760) x (298		
							V
			Calibration of	TSP Sampler			
Calibration		<u>O</u>	fice	<u> </u>		HVS	1.0
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of oil		760) x (298/Ta)] <sup>1/2</sup> Y- axis
1	11.7		3.47	59.79	7.7		2.81
2	9.8		3.18	54.79	6.4		2.57
3	7,4	2.76		47.71	5.0		2.27
4	5.4	2.36		40.87	3.4		1.87
5	3.3		1.84	32.12	2.1		1.47
Slope, mw = Correlation Corre	_		9990	Intercept, bw -	-0.102	26	-
The second secon							
				Calculation			
From the TSP Fi							
From the Regres	sion Equation, th	ie "Y" value acc	oraing to				
		mw x	$Qstd + bw = [\Delta W$	x (Pa/760) x (2	298/Ta)] <sup>1/2</sup>		
Therefore, S	et Point; W = ( n	aw x Qstd + bw	) <sup>2</sup> x ( 760 / Pa ) x (	Ta / 298 ) =	3.89		<del>-</del>
Remarks:	<del></del>	Mark					
			ì				/ / /
Conducted by:	Wk. Tang	Signature:	KIU	sai/		Date:	27/2/14
Checked by:		Signature:	-	X	_	Date:	27 /2/14 27 February Q
•							' 0
				1			

# High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

## CINOTECH

						File No.	MA14008/59/0022
Station	AM2 - Lee Kau	Yan Memorial Sc	hool	Operator:	WK		
Date:	3-Mar-14		1	Next Due Date:	2-May-	14	
Equipment No.:	A-01-59			Serial No.	2354		
4 5 1 S		Electric Control	Ambient (	Condition			:
Temperatu	re, Ta (K)	288.2	Pressure, Pa	(mmHg)		764.9	
		Or	ifice Transfer Sta	ındard İnform	ation		
Equipme	ent No.:	A-04-04	Slope, mc	0.0588	Intercept		-0.0461
Last Calibra	ation Date:	30-Sep-13			$\mathbf{bc} = [\Delta \mathbf{H} \ \mathbf{x} \ (\mathbf{Pa}/76$		
Next Calibr	ation Date:	29-Sep-14		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} :$	x (Pa/760) x (298	/Ta)] <sup>1/2</sup> -bc}	/ mc
		•					
			Calibration of	TSP Sampler			
Calibration		Orf	ice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760	)) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of oil		760) x (298/Ta)] <sup>1/2</sup> Y- axis
1	12.1	3	.55	61.13	8.0		2.89
2	9.7	3	.18	54.82	6.5		2.60
3	7.6	2	.81	48.61	4.9		2.26
4	5.3	2	.35	40.72	3.2		1.82
5	3.2	1	.82	31.82	2.0		1,44
Slope , mw = Correlation of		0,9	989	Intercept, bw	-0.181	1	-
			Set Point C	Calculation			
From the TSP F	ield Calibration C		: 43 CFM				
	ssion Equation, th						
	,			(D) 18 (A) (A	100 cm ×11/2		
		mw x (	$Qstd + bw = [\Delta W]$	x (Pa//60) x (2	(98/Ta)j"		
Therefore, S	Set Point; W = ( m	w x Qstd + bw) <sup>2</sup>	x (760 / Pa) x (	$\Gamma a / 298) =$	3.77		-
Remarks:							
Conducted by: Checked by	INK Tang	Signature: Signature:	Ku	ai]	-	Date:	3/3/14 3 March 2014



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

#### TEST REPORT

**Description** Calibration Orifice

Serial No.

0993

Model No.

TE-5025A

Date

30 September 2013

Manufacturer

TISCH

Temperature,Ta (K)

300.8

Pressure, Pa (mmHg)

759.3

**Equipment No.:** 

A-04-04

Plate	Diff.Vol (m³)	Diff.Time (min)	Diff.Hg (mm)	Diff.H <sub>2</sub> O (in.)
1	1.00	1.4103	3.4	2.00
2	1.00	0.9980	6.8	4.00
3	1.00	0.8970	8.5	5.00
. 4	1.00	0.8540	9.4	5.50
5	1.00	0.7060	13.6	8.00

#### **DATA TABULATION**

Vstd	(X axis) Qstd	(Y axis)
0.9853	0.6986	1.4069
0.9808	0.9828	1.9897
0.9786	1.0910	2.2245
0.9775	1.1446	2.3331
0.9720	1.3768	2.8138

Y axis= SQRT[H<sub>2</sub>O(Pa/760)(298/Ta)]

Qstd Slope ( m ) = 2.07768

Intercept (b) =  $\frac{-0.04613}{}$ 

Coefficient (r) = 0.99997

Va	(X axis) Qa	(Y axis)
0.9955	0.7059	0.8901
0.9910	0.9930	1.2589
0.9888	1.1023	1.4074
0.9876	1.1565	1.4761
0.9821	1 3911	1.7803

Y axis= SQRT[H2O(Ta/Pa)]

Qa Slope ( m ) = 1.30101

Intercept (b) = -0.02919

Coefficient (r) = 0.99997

#### **CALCULATIONS**

Vstd=Diff. Vol[(Pa-Diff.Hg)/760](298/Ta) Qstd=Vstd/Time Va=Diff.Vol[(Pa-Diff.Hg)/Pa] Qa=Va/Time

For subsequent flow rate calculations:

 $Qstd=I/m\{[SQRT(H_2O(Pa/760)(298/Ta))]-b\}$ 

Qa=I/m{[SQRT H<sub>2</sub>O(Ta/Pa)]-b}

PREPARED AND CHECKED BY:

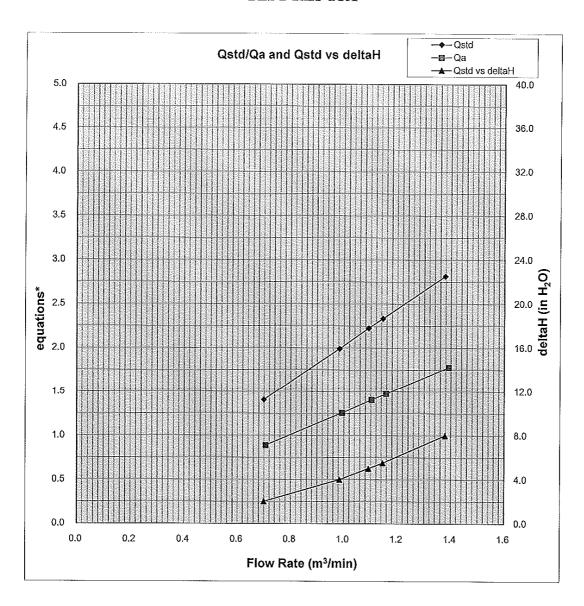
For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



## TEST REPORT



Y-axis equations:

Qstd series: SQRT[\(\triangle H(Pa/Pstd)(Tstd/Ta)]\)

Qa series: SQRT[∆H(Ta/Pa)]



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#### TEST REPORT

APPLICANT:

**Cinotech Consultants Limited** 

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/131019A

Date of Issue: 2013-10-19

Date Received: 2013-10-19 Date Tested: 2013-10-19

Date Completed: 2013-10-19

Next Due Date: 2014-04-18

ATTN:

Mr. W.K. Tang

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## **Certificate of Calibration**

#### Item for calibration:

Description

: Weather Monitor II

Manufacturer

: Davis Instruments

Model No.

: 7440

Serial No.

: MC20813A11

#### **Test conditions:**

Room Temperature

: 20 degree Celsius

Relative Humidity

: 53%

#### **Test Specifications:**

- 1. Performance check of anemometer
- 2. Performance check of wind direction sensor

## Methodology:

In-house method with reference anemometer (RS232 Integral Vane Digital Anemometer)

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE
Laboratory Manager



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### TEST REPORT

**APPLICANT: Cinotech Consultants Limited** 

Room 1710, Technology Park,

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Shatin, NT, Hong Kong

Test Report No.: C/140301/2
Date of Issue: 2014-03-03
Date Received: 2014-03-01
Date Tested: 2014-03-01
Date Completed: 2014-03-03
Next Due Date: 2014-05-02

ATTN:

Mr. W.K. Tang

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## **Certificate of Calibration**

#### Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata

Model No.

: LD-3

Serial No.

: 251634

Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$ 

Sen. Adjustment Scale Setting

: 550 CPM

Equipment No.

: A-02-01

#### **Test Conditions:**

Room Temperature

: 18 degree Celsius

Relative Humidity

: 69%

#### **Test Specifications & Methodology:**

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

#### Paculte.

Correlation Factor (CF) 0.0030

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Test Report No.: C/140301/1
Date of Issue: 2014-03-03

Date Received: 2014-03-01

Date Tested: 2014-03-01

Date Completed: 2014-03-03

Next Due Date: 2014-05-02

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ATTN:

Mr. W. K. Tang

## **Certificate of Calibration**

## Item for Calibration:

Description : Laser Dust Monitor

Manufacturer : Sibata
Model No. : LD-3B
Serial No. : 853944

Sensitivity (K) 1 CPM : 0.001 mg/m<sup>3</sup>
Sen. Adjustment Scale Setting : 685 CPM
Equipment No. : A-02-04

**Test Conditions:** 

Room Temperature : 18 degree Celsius

Relative Humidity : 69%

#### **Test Specifications & Methodology:**

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

### Results:

PREPARED AND CHECKED BY:

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#### TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

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Test Report No.: C/140221/1
Date of Issue: 2014-02-24
Date Received: 2014-02-21
Date Tested: 2014-02-21
Date Completed: 2014-02-24

Next Due Date:
Page:

2014-04-23 1 of 1

ATTN:

Mr. WK Tang

## **Certificate of Calibration**

#### Item for Calibration:

Description : Laser Dust Monitor

Manufacturer : Sibata

Model No. : LD-3B

Serial No. : 954253

Sensitivity (K) 1 CPM : 0.001 mg/m³

Sen. Adjustment Scale Setting : 772 CPM

Equipment No. : A-02-05

**Test Conditions:** 

Room Temperature : 19 degree Celsius

Relative Humidity : 67%

## Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

#### Results:

Correlation Factor (CF)	0.0031

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



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## TEST REPORT

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Test Report No.: C/140301/3
Date of Issue: 2014-03-03
Date Received: 2014-03-01
Date Tested: 2014-03-01
Date Completed: 2014-03-03
Next Due Date: 2014-05-02

ATTN:

Mr. W. K. Tang

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## **Certificate of Calibration**

#### Item for Calibration:

Description : Laser Dust Monitor

Manufacturer : Sibata

Model No. : LD-3B

Serial No. : 014750

Sensitivity (K) 1 CPM : 0.001 mg/m³

Sen. Adjustment Scale Setting : 790 CPM

Equipment No. : A-02-06

**Test Conditions:** 

Room Temperature : 18 degree Celsius

Relative Humidity : 69%

#### Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

#### Results:

Correlation Factor (CF)	0.0029

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APPLICANT: **Cinotech Consultants Limited** 

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Test Report No.: C/140227/1 Date of Issue: 2014-03-01 Date Received: 2014-02-27 Date Tested: 2014-02-27 Date Completed: 2014-03-01 Next Due Date: 2014-04-30

ATTN:

Mr. W. K. Tang

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## **Certificate of Calibration**

#### Item for Calibration:

: Laser Dust Monitor Description

: Sibata Manufacturer : LD-3B Model No. Serial No. : 095039  $: 0.001 \text{ mg/m}^3$ Sensitivity (K) 1 CPM : 764 CPM Sen. Adjustment Scale Setting : A-02-08 Equipment No.

**Test Conditions:** 

Room Temperature : 20 degree Celsius

Relative Humidity : 65%

#### **Test Specifications & Methodology:**

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

### **Results:**

Correlation Factor (CF) 0.0031 \*

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#### TEST REPORT

APPLICANT: Cinotech Consultants Limited

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Test Report No.: C/140227/2
Date of Issue: 2014-03-01
Date Received: 2014-02-27
Date Tested: 2014-02-27
Date Completed: 2014-03-01
Next Due Date: 2014-04-30

ATTN:

Mr. W. K. Tang

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## **Certificate of Calibration**

#### Item for Calibration:

Description : Laser Dust Monitor

Manufacturer : Sibata

Model No. : LD-3B

Serial No. : 095050

Sensitivity (K) 1 CPM : 0.001 mg/m<sup>3</sup>

Sen. Adjustment Scale Setting : 577 CPM

Equipment No. : A-02-09

**Test Conditions:** 

Room Temperature : 20 degree Celsius

Relative Humidity : 65%

## **Test Specifications & Methodology:**

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

#### Results:

Correlation Factor (CF) 0.0033
--------------------------------

\*

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PATRICK TSE
Laboratory Manager



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### TEST REPORT

Cinotech Consultants Limited APPLICANT:

Room 1710, Technology Park,

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Test Report No.: C/140227/3 Date of Issue: 2014-03-01 Date Received: 2014-02-27 Date Tested: 2014-02-27 Date Completed: 2014-03-01 Next Due Date: 2014-04-30

ATTN:

Mr. W. K. Tang

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## **Certificate of Calibration**

#### Item for Calibration:

: Laser Dust Monitor Description

Manufacturer : Sibata Model No. : LD-3B Serial No. : 095029 Sensitivity (K) 1 CPM  $: 0.001 \text{ mg/m}^3$ : 551 CPM Sen. Adjustment Scale Setting : A-02-10

Equipment No.

**Test Conditions:** 

Room Temperature

: 20 degree Celsius

Relative Humidity : 65%

### Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

#### **Results:**

	Correlation Factor (CF)	0.0033
--	-------------------------	--------

\*\*\*\*\*\*\*\*\*\*\*\*\*

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## TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

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 Test Report No.:
 C/N/130919/1

 Date of Issue:
 2013-09-21

 Date Received:
 2013-09-19

 Date Tested:
 2013-09-21

 Date Completed:
 2013-09-21

 Next Due Date:
 2014-09-20

ATTN:

Mr. W.K. Tang

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## **Certificate of Calibration**

#### Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer Model No.

: SVANTEK : SVAN 955

Serial No.
Microphone No.

: 12553 : 35222

Equipment No.

: N-08-02

#### Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 57%

### **Test Specifications:**

Performance checking at 94 and 114 dB

### Methodology:

In-house method, according to manufacturer instruction manual

#### Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

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## TEST REPORT

APPLICANT: Cinotech Consultants Limited

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 Test Report No.:
 C/N/130919/2

 Date of Issue:
 2013-09-21

 Date Received:
 2013-09-19

 Date Tested:
 2013-09-21

 Date Completed:
 2013-09-21

 Next Due Date:
 2014-09-20

ATTN:

Mr. W.K. Tang

Page:

1 of 1

## **Certificate of Calibration**

#### Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer Model No.

: SVANTEK : SVAN 955

Serial No.
Microphone No.

: 12563

Microphone No. Equipment No.

: 34377 : N-08-03

#### Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 57%

#### **Test Specifications:**

Performance checking at 94 and 114 dB

### Methodology:

In-house method, according to manufacturer instruction manual

#### Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

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PATRICK TSE



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#### TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/140104 Date of Issue: 2014-01-05

Date Received: 2014-01-04

Date Tested: 2014-01-04

Date Completed: 2014-01-05

Next Due Date: 2015-01-04

ATTN:

Mr. W. K. Tang

Page:

1 of 1

## **Certificate of Calibration**

#### Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer Model No.

: SVANTEK : SVAN 955

Serial No.
Microphone No.

: 14303 : 35222

Equipment No.

: N-08-05

#### **Test conditions:**

Room Temperatre

: 19 degree Celsius

Relative Humidity

: 52%

#### **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

#### **Results:**

Reference Set Point, dB	Instrument Readings, dB	
94	94.0	
114	114.0	

Remark: 1)This report supersedes the one dated 2012/01/21 with certificate number C/N/120120/1.

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

## TEST REPORT

APPLICANT: **Cinotech Consultants Limited** 

Room 1710, Technology Park,

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Test Report No.: C/N/130830/2 Date of Issue: 2013-08-31 Date Received: 2013-08-30 Date Tested: 2013-08-30 Date Completed: 2013-08-31 Next Due Date: 2014-08-30

ATTN:

Mr. W.K. Tang

Page:

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## Certificate of Calibration

#### Item for calibration:

Description : 'SVANTEK' Integrating Sound Level Meter

Manufacturer : SVANTEK Model No. : SVAN 957 Serial No. : 21459 Microphone No. : 43676 Equipment No. : N-08-08

#### Test conditions:

Room Temperatre : 21 degree Celsius

Relative Humidity : 69%

### **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

#### **Results:**

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

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#### TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

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 Test Report No.:
 C/N/130830/3

 Date of Issue:
 2013-08-31

 Date Received:
 2013-08-30

 Date Tested:
 2013-08-30

 Date Completed:
 2013-08-31

 Next Due Date:
 2014-08-30

ATTN:

Mr. W.K. Tang

Page: 1 of 1

## **Certificate of Calibration**

#### Item for calibration:

Description : 'SVANTEK' Integrating Sound Level Meter

Manufacturer : SVANTEK
Model No. : SVAN 957
Serial No. : 21460
Microphone No. : 43679
Equipment No. : N-08-09

Test conditions:

Room Temperatre : 21 degree Celsius

Relative Humidity : 69%

#### **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

#### Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE
Laboratory Manager



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#### TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

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Test Report No.: C/N/131129/1
Date of Issue: 2013-11-30
Date Received: 2013-11-29
Date Tested: 2013-11-29
Date Completed: 2013-11-30
Next Due Date: 2014-11-29

ATTN:

Mr. W.K. Tang

Page:

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## **Certificate of Calibration**

#### Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 957

Serial No.

: 23853

Microphone No.

: 48530

Equipment No.

: N-08-10

#### **Test conditions:**

Room Temperatre

: 19 degree Celsius

Relative Humidity

: 57%

## **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

#### Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

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#### TEST REPORT

APPLICANT: Cinotech Consultants Limited

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Test Report No.:	C/N/130919/3
Date of Issue:	2013-09-21
Date Received:	2013-09-19
Date Tested:	2013-09-21
Date Completed:	2013-09-21
Next Due Date:	2014-09-20

ATTN:

Mr. W.K. Tang

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#### Item for calibration:

Description

: Acoustical Calibrator

Manufacturer Model No. Serial No. : SVANTEK : SV30A

: 10929

Equipment No.

: N-09-01

#### Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 57%

#### Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

#### Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



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## TEST REPORT

APPLICANT: Cinotech Consultants Limited

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Test Report No.:	C/N/131004/1
Date of Issue:	2013-10-05
Date Received:	2013-10-04
Date Tested:	2013-10-04
Date Completed:	2013-10-05
Next Due Date:	2014-10-04

ATTN:

Mr. W.K. Tang

Page:

1 of 1

#### Item for calibration:

Description

: Acoustical Calibrator

Manufacturer Model No. Serial No. : SVANTEK : SV30A

Serial No. : 24803 Equipment No. : N-09-03

#### **Test conditions:**

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 57%

## Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

#### Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager





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## TEST REPORT

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Test Report No.:	C/N/131004/3
Date of Issue:	2013-10-05
Date Received:	2013-10-04
Date Tested:	2013-10-04
Date Completed:	2013-10-05
Next Due Date:	2014-10-04
Date Tested: Date Completed:	2013-10-04 2013-10-05

ATTN:

Mr. W.K. Tang

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#### Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 24780

Equipment No.

: N-09-05

### Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 57%

## Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

#### Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



WELLAB LIMITED
Rms 816, 1516 & 1701, Technology Park,
18 On Lai Street, Shatin, N.T, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

### TEST REPORT

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18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/131108/1
Date of Issue:	2013-11-09
Date Received:	2013-11-08
Date Tested:	2013-11-08
Date Completed:	2013-11-09
Next Due Date:	2014-11-08

ATTN:

Mr. W.K. Tang

Page:

1 of 1

#### Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: Brüel & Kjær

Model No.

: 4231

Serial No.

: 2326353

Project No.

: C13

Equipment No.

: N-02-01

#### **Test conditions:**

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 52 %

## Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

#### Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



2014-08-30

Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

## TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/130830/4-v1
Date of Issue: 2014-03-07
Date Received: 2013-08-30
Date Tested: 2013-08-30

Date Completed: 2013-08-31

Next Due Date:

ATTN:

Mr. W.K. Tang

#### Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: Brüel & Kjær

Model No.

: 4231

Serial No.

: 2412367

Equipment No.

: N-02-03

#### Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 64%

## Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

#### Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

**PATRICK TSE**Laboratory Manager

## APPENDIX C WEATHER INFORMATION

## I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 March 2014	18.4 – 22.1	84 – 97	0
2 March 2014	16.0 – 21.7	78 – 97	0.6
3 March 2014	15.4 – 16.3	81 – 91	Trace
4 March 2014	15.4 – 18.2	87 – 98	0.1
5 March 2014	15.9 – 17.6	78 – 99	0.1
6 March 2014	14.8 – 15.9	81 – 92	Trace
7 March 2014	15.1 – 14.1	83 – 94	0.1
8 March 2014	14.2 – 16.2	89 – 99	0.9
9 March 2014	14.2 – 15.5	82 – 96	Trace
10 March 2014	13.9 – 15.6	75 – 86	0
11 March 2014	14.1 – 15.9	82 – 96	0.3
12 March 2014	15.4 – 19.5	93 – 98	0.1
13 March 2014	19.0 –22.2	63 – 100	0.3
14 March 2014	14.7 – 19.9	55 – 88	0.4
15 March 2014	14.7 – 17.5	52 – 85	Trace
16 March 2014	16.3 – 19.9	58 – 87	0
17 March 2014	18.4 – 22.9	81 – 94	Trace
18 March 2014	19.9 – 25.0	77 – 98	0
19 March 2014	26.8 – 18.9	69 – 95	0

## I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
20 March 2014	18.7 – 25.2	66 – 97	0
21 March 2014	15.5 – 18.7	64 – 75	Trace
22 March 2014	15.2 – 20.8	49 – 80	0
23 March 2014	15.9 – 22.0	54 – 82	0
24 March 2014	16.6 – 23.1	57 – 83	0
25 March 2014	18.9 – 26.5	55 – 87	0
26 March 2014	20.6 – 26.2	65 – 93	Trace
27 March 2014	20.6 – 27.6	61 – 95	0
28 March 2014	21.2 – 23.3	88 – 95	Trace
29 March 2014	20.7 – 23.5	88 – 98	19.0
30 March 2014	19.1 – 26.0	85 – 99	103.1
31 March 2014	18.9 – 21.2	95 – 100	82.6

<sup>\*</sup> The above information was extracted from the daily weather summary by Hong Kong Observatory.

Date	Time	Wind Speed m/s	Direction
1-Mar-2014	00:00	1.7	WNW
1-Mar-2014	01:00	1.4	NNE
1-Mar-2014	02:00	1.6	W
1-Mar-2014	03:00	1.5	WSW
1-Mar-2014	04:00	0.6	NE
1-Mar-2014	05:00	0.7	ENE
1-Mar-2014	06:00	0.8	ENE
1-Mar-2014	07:00	1.1	ENE
1-Mar-2014	08:00	1.1	ENE
1-Mar-2014	09:00	1.4	NE
1-Mar-2014	10:00	2.5	N
1-Mar-2014	11:00	2.2	NE
1-Mar-2014	12:00	2.6	SSW
1-Mar-2014	13:00	3.6	SSW
1-Mar-2014	14:00	2.7	NE
1-Mar-2014	15:00	3.5	N
1-Mar-2014	16:00	2.9	N
1-Mar-2014	17:00	3	N
1-Mar-2014	18:00	2.5	N
1-Mar-2014	19:00	2.4	WNW
1-Mar-2014	20:00	2	WNW
1-Mar-2014	21:00	1.5	SSW
1-Mar-2014	22:00	2.3	SSW
1-Mar-2014	23:00	2.2	N
2-Mar-2014	00:00	2.5	NE
2-Mar-2014	01:00	2.2	WSW
2-Mar-2014	02:00	1.7	NNE
2-Mar-2014	03:00	1	N
2-Mar-2014	04:00	0.9	N
2-Mar-2014	05:00	0.7	ESE
2-Mar-2014	06:00	0.6	ENE
2-Mar-2014	07:00	1	ENE
2-Mar-2014	08:00	1.2	W
2-Mar-2014	09:00	1.9	ENE
2-Mar-2014	10:00	2.6	SSW
2-Mar-2014	11:00	3.2	NNE

2-Mar-2014	12:00	3.6	NNE
2-Mar-2014	13:00	3.6	NNE
2-Mar-2014	14:00	3.6	NNE
2-Mar-2014	15:00	3.5	ENE
2-Mar-2014	16:00	2.9	ENE
2-Mar-2014	17:00	3.2	SE
2-Mar-2014	18:00	3.3	ESE
2-Mar-2014	19:00	2.3	SSE
2-Mar-2014	20:00	2.2	NE
2-Mar-2014	21:00	2.4	NNE
2-Mar-2014	22:00	2.1	NNE
2-Mar-2014	23:00	2.5	NE
3-Mar-2014	00:00	3.1	ENE
3-Mar-2014	01:00	2.9	NNE
3-Mar-2014	02:00	2.8	SSE
3-Mar-2014	03:00	2.3	ENE
3-Mar-2014	04:00	2.3	NNE
3-Mar-2014	05:00	1.8	NNE
3-Mar-2014	06:00	1.3	NE
3-Mar-2014	07:00	2.3	ENE
3-Mar-2014	08:00	3.1	NE
3-Mar-2014	09:00	3.1	Е
3-Mar-2014	10:00	2.7	ENE
3-Mar-2014	11:00	2.9	NW
3-Mar-2014	12:00	2.9	SE
3-Mar-2014	13:00	2.3	SW
3-Mar-2014	14:00	2.4	WSW
3-Mar-2014	15:00	2.8	W
3-Mar-2014	16:00	3	W
3-Mar-2014	17:00	3	SSW
3-Mar-2014	18:00	2.8	SSW
3-Mar-2014	19:00	2.4	SSW
3-Mar-2014	20:00	2.1	W
3-Mar-2014	21:00	2.6	W
3-Mar-2014	22:00	2.4	W
3-Mar-2014	23:00	3.2	W
4-Mar-2014	00:00	3.1	W
	1 33.33		

			T
4-Mar-2014	01:00	3.1	SW
4-Mar-2014	02:00	3	W
4-Mar-2014	03:00	2.6	WSW
4-Mar-2014	04:00	2.2	WSW
4-Mar-2014	05:00	2.8	SSE
4-Mar-2014	06:00	2.8	E
4-Mar-2014	07:00	1.9	WSW
4-Mar-2014	08:00	1.8	W
4-Mar-2014	09:00	1.6	SW
4-Mar-2014	10:00	2.1	W
4-Mar-2014	11:00	2.7	W
4-Mar-2014	12:00	2.8	NW
4-Mar-2014	13:00	3	NW
4-Mar-2014	14:00	3	ENE
4-Mar-2014	15:00	3.5	W
4-Mar-2014	16:00	3	SW
4-Mar-2014	17:00	3	WNW
4-Mar-2014	18:00	2.3	WNW
4-Mar-2014	19:00	1.9	W
4-Mar-2014	20:00	2.1	W
4-Mar-2014	21:00	2.1	WNW
4-Mar-2014	22:00	2.7	WNW
4-Mar-2014	23:00	2.6	WNW
5-Mar-2014	00:00	2.4	W
5-Mar-2014	01:00	2.3	WNW
5-Mar-2014	02:00	2.4	SSW
5-Mar-2014	03:00	1.9	SW
5-Mar-2014	04:00	1.7	NW
5-Mar-2014	05:00	1.5	W
5-Mar-2014	06:00	1.1	NNE
5-Mar-2014	07:00	1.2	NE
5-Mar-2014	08:00	1.6	E
5-Mar-2014	09:00	2.5	ENE
5-Mar-2014	10:00	2.6	N
5-Mar-2014	11:00	3	WNW
5-Mar-2014	12:00	3.7	WNW
5-Mar-2014	13:00	3.7	SW

5-Mar-2014	14:00	3.8	WNW
5-Mar-2014	15:00	3.4	NW
5-Mar-2014	16:00	3.3	SSW
5-Mar-2014	17:00	3.2	SW
5-Mar-2014	18:00	2.3	W
5-Mar-2014	19:00	2	W
5-Mar-2014	20:00	1.7	W
5-Mar-2014	21:00	1.5	WSW
5-Mar-2014	22:00	1.7	WSW
5-Mar-2014	23:00	1.6	W
6-Mar-2014	00:00	0.9	SW
6-Mar-2014	01:00	1.2	NNE
6-Mar-2014	02:00	1.2	N
6-Mar-2014	03:00	1.4	NE
6-Mar-2014	04:00	1.2	E
6-Mar-2014	05:00	1	NNW
6-Mar-2014	06:00	1.3	SSW
6-Mar-2014	07:00	0.9	NE
6-Mar-2014	08:00	1.5	WNW
6-Mar-2014	09:00	1.4	NW
6-Mar-2014	10:00	2.3	SW
6-Mar-2014	11:00	2.5	SSE
6-Mar-2014	12:00	2.6	SSW
6-Mar-2014	13:00	2.6	ESE
6-Mar-2014	14:00	2.4	SW
6-Mar-2014	15:00	2.8	SW
=		2.0	344
6-Mar-2014	16:00	2.2	E
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6-Mar-2014	16:00	2.2	E
6-Mar-2014 6-Mar-2014	16:00 17:00	2.2 1.9	E WNW
6-Mar-2014 6-Mar-2014 6-Mar-2014	16:00 17:00 18:00	2.2 1.9 1.6	E WNW N
6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014	16:00 17:00 18:00 19:00	2.2 1.9 1.6 2.1	E WNW N
6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014	16:00 17:00 18:00 19:00 20:00	2.2 1.9 1.6 2.1 1.6	E WNW N N WNW
6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014	16:00 17:00 18:00 19:00 20:00 21:00	2.2 1.9 1.6 2.1 1.6 1.3	E WNW N N WNW WSW
6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014	16:00 17:00 18:00 19:00 20:00 21:00 22:00	2.2 1.9 1.6 2.1 1.6 1.3	E WNW N N WNW WSW SSW
6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014 6-Mar-2014	16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00	2.2 1.9 1.6 2.1 1.6 1.3 1	E WNW N N WNW WSW SSW E

	1	T	
7-Mar-2014	03:00	0.6	ESE
7-Mar-2014	04:00	0.6	ESE
7-Mar-2014	05:00	0.7	ESE
7-Mar-2014	06:00	1	NW
7-Mar-2014	07:00	0.5	N
7-Mar-2014	08:00	0.8	N
7-Mar-2014	09:00	0.8	NE
7-Mar-2014	10:00	0.8	NNE
7-Mar-2014	11:00	0.8	ESE
7-Mar-2014	12:00	1.4	E
7-Mar-2014	13:00	1.6	WNW
7-Mar-2014	14:00	1.4	NNE
7-Mar-2014	15:00	1.3	NW
7-Mar-2014	16:00	1.4	N
7-Mar-2014	17:00	1.4	SSW
7-Mar-2014	18:00	1.2	ENE
7-Mar-2014	19:00	0.9	ESE
7-Mar-2014	20:00	0.5	N
7-Mar-2014	21:00	0.4	NNE
7-Mar-2014	22:00	0.3	SW
7-Mar-2014	23:00	0.3	N
8-Mar-2014	00:00	0.3	WNW
8-Mar-2014	01:00	0.3	W
8-Mar-2014	02:00	0.2	NNW
8-Mar-2014	03:00	0.5	NNW
8-Mar-2014	04:00	0.4	SSW
8-Mar-2014	05:00	0.4	NNE
8-Mar-2014	06:00	0.3	SW
8-Mar-2014	07:00	0.7	SW
8-Mar-2014	08:00	1.6	SW
8-Mar-2014	09:00	1.7	ESE
8-Mar-2014	10:00	1.9	WNW
8-Mar-2014	11:00	1.7	W
8-Mar-2014	12:00	1.6	W
8-Mar-2014	13:00	1.8	SW
8-Mar-2014	14:00	2.8	NNE
8-Mar-2014	15:00	2.5	NNE

10-Mar-2014	04:00	0.6	WSW
10-Mar-2014	03:00	0.6	ESE
10-Mar-2014	02:00	0.3	SSE
10-Mar-2014	01:00	0.5	S
10-Mar-2014	00:00	0.4	S
9-Mar-2014	23:00	0.3	SE
9-Mar-2014	22:00	0.3	SE
9-Mar-2014	21:00	0.5	WSW
9-Mar-2014	20:00	0.5	N
9-Mar-2014	19:00	0.6	WNW
9-Mar-2014	18:00	1	ESE
9-Mar-2014	17:00	1	W
9-Mar-2014	16:00	1.7	WNW
9-Mar-2014	15:00	1.7	W
9-Mar-2014	14:00	1.5	W
9-Mar-2014	13:00	1.6	WSW
9-Mar-2014	12:00	1.7	ENE
9-Mar-2014	11:00	1.4	ESE
9-Mar-2014	10:00	1.4	NE
9-Mar-2014	09:00	1	NNE
9-Mar-2014	08:00	0.9	ESE
9-Mar-2014	07:00	1	ENE
9-Mar-2014	06:00	1.1	ENE
9-Mar-2014	05:00	1.3	NE
9-Mar-2014	04:00	1.1	N
9-Mar-2014	03:00	0.8	NNE
9-Mar-2014	02:00	1	W
9-Mar-2014	01:00	1	NNE
9-Mar-2014	00:00	1.2	NNE
8-Mar-2014	23:00	1.4	NE
8-Mar-2014	22:00	1	NNE
8-Mar-2014	21:00	1.2	WSW
8-Mar-2014	20:00	1.1	W
8-Mar-2014	19:00	1.6	W
8-Mar-2014	18:00	1.7	W
8-Mar-2014	17:00	1.8	W
8-Mar-2014 8-Mar-2014	16:00 17:00	2.2	W

10-Mar-2014	05:00	0.4	E
10-Mar-2014	06:00	0.2	NE
10-Mar-2014	07:00	0.4	ENE
10-Mar-2014	08:00	0.9	ENE
10-Mar-2014	09:00	1.4	ENE
10-Mar-2014	10:00	2.3	NNE
10-Mar-2014	11:00	2.9	NE
10-Mar-2014	12:00	3.1	E
10-Mar-2014	13:00	3.1	ENE
10-Mar-2014	14:00	3.1	ENE
10-Mar-2014	15:00	2.4	SE
10-Mar-2014	16:00	2.4	SE
10-Mar-2014	17:00	2.7	SE
10-Mar-2014	18:00	2.4	SE
10-Mar-2014	19:00	1.9	SE
10-Mar-2014	20:00	1.8	ENE
10-Mar-2014	21:00	1.7	NNE
10-Mar-2014	22:00	1.9	NNE
10-Mar-2014	23:00	1.9	NNE
11-Mar-2014	00:00	1.8	N
11-Mar-2014	01:00	2	ENE
11-Mar-2014	02:00	1.9	N
11-Mar-2014	03:00	2	NNE
11-Mar-2014	04:00	1.5	ENE
11-Mar-2014	05:00	1.5	NE
11-Mar-2014	06:00	1.8	SSE
11-Mar-2014	07:00	1.7	ESE
11-Mar-2014	08:00	1.6	NE
11-Mar-2014	09:00	1.8	ENE
11-Mar-2014	10:00	2.6	ENE
11-Mar-2014	11:00	2.7	ESE
	12:00	2.7	SSE
11-Mar-2014	1 - 1 - 1		
11-Mar-2014 11-Mar-2014	13:00	2.4	SSE
		2.4 2.1	SSE S
11-Mar-2014	13:00		
11-Mar-2014 11-Mar-2014	13:00 14:00	2.1	S

11-Mar-2014 19:00 1.6 SSW  11-Mar-2014 20:00 1.6 SE  11-Mar-2014 21:00 1.7 ESE  11-Mar-2014 22:00 1.7 ESE  11-Mar-2014 23:00 1.7 ESE  11-Mar-2014 23:00 1.7 WSW  12-Mar-2014 00:00 1.9 E  12-Mar-2014 00:00 1.5 SSW  12-Mar-2014 00:00 1.5 SSW  12-Mar-2014 00:00 1.7 NE  12-Mar-2014 00:00 1.7 NE  12-Mar-2014 00:00 1.3 SW  12-Mar-2014 00:00 1.3 SW  12-Mar-2014 00:00 1.3 SSW  12-Mar-2014 00:00 1.4 ENE  12-Mar-2014 00:00 1.5 SSW  12-Mar-2014 00:00 1.7 NE  12-Mar-2014 00:00 1.9 ENE  12-Mar-2014 00:00 1.9 ENE  12-Mar-2014 10:00 1.4 ENE  12-Mar-2014 10:00 1.9 ENE  12-Mar-2014 10:00 1.9 ENE  12-Mar-2014 11:00 2.1 ENE  12-Mar-2014 11:00 1.9 ESE  12-Mar-2014 11:00 1.9 SE  12-Mar-2014 11:00 1.9 ESE  12-Mar-2014 11:00 1.9 SE  12-Mar-2014 11:00 1.8 SSE  12-Mar-2014 11:00 1.6 SSE  12-Mar-2014 11:00 1.7 SSE  12-Mar-2014 11:00 1.7 SSE  12-Mar-2014 11:00 1.7 SSE  12-Mar-2014 11:00 1.9 SE  12-Mar-2014 11:00 1.9 SE  12-Mar-2014 11:00 1.9 SE  12-Mar-2014 11:00 1.9 SE  12-Mar-2014 11:00 1.0 SSE  13-Mar-2014 00:00 1.1 SSE  13-Mar-2014 00:00 1.3 SSE  13-Mar-2014 00:00 1.2 SSE  13-Mar-2014 00:00 1.2 SSE  13-Mar-2014 00:00 1.2 SSE			<u> </u>	
11-Mar-2014         20:00         1.6         SE           11-Mar-2014         21:00         1.7         ESE           11-Mar-2014         22:00         1.7         ESE           11-Mar-2014         23:00         1.7         WSW           12-Mar-2014         00:00         1.9         E           12-Mar-2014         01:00         1.4         ENE           12-Mar-2014         02:00         1.5         SSW           12-Mar-2014         03:00         1.4         SW           12-Mar-2014         04:00         1.7         NE           12-Mar-2014         04:00         1.7         NE           12-Mar-2014         05:00         1.3         SW           12-Mar-2014         05:00         1.3         SSW           12-Mar-2014         07:00         1.4         SSW           12-Mar-2014         07:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         12:00         1.9         ESE	11-Mar-2014	18:00	1.4	SW
11-Mar-2014         21:00         1.7         ESE           11-Mar-2014         22:00         1.7         ESE           11-Mar-2014         23:00         1.7         WSW           12-Mar-2014         00:00         1.9         E           12-Mar-2014         01:00         1.4         ENE           12-Mar-2014         02:00         1.5         SSW           12-Mar-2014         03:00         1.4         SW           12-Mar-2014         04:00         1.7         NE           12-Mar-2014         05:00         1.3         SW           12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         07:00         1.4         SSW           12-Mar-2014         08:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         E	11-Mar-2014	19:00	1.6	SSW
11-Mar-2014         22:00         1.7         ESE           11-Mar-2014         23:00         1.7         WSW           12-Mar-2014         00:00         1.9         E           12-Mar-2014         01:00         1.4         ENE           12-Mar-2014         02:00         1.5         SSW           12-Mar-2014         03:00         1.4         SW           12-Mar-2014         04:00         1.7         NE           12-Mar-2014         05:00         1.3         SW           12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         07:00         1.4         SSW           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         15:00         1.9         E <t< td=""><td>11-Mar-2014</td><td>20:00</td><td>1.6</td><td>SE</td></t<>	11-Mar-2014	20:00	1.6	SE
11-Mar-2014         23:00         1.7         WSW           12-Mar-2014         00:00         1.9         E           12-Mar-2014         01:00         1.4         ENE           12-Mar-2014         02:00         1.5         SSW           12-Mar-2014         03:00         1.4         SW           12-Mar-2014         04:00         1.7         NE           12-Mar-2014         05:00         1.3         SW           12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         07:00         1.4         SSW           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         ESE           12-Mar-2014         14:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12	11-Mar-2014	21:00	1.7	ESE
12-Mar-2014         00:00         1.9         E           12-Mar-2014         01:00         1.4         ENE           12-Mar-2014         02:00         1.5         SSW           12-Mar-2014         03:00         1.4         SW           12-Mar-2014         04:00         1.7         NE           12-Mar-2014         05:00         1.3         SW           12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         07:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         16:00         1.8         S           12-Mar	11-Mar-2014	22:00	1.7	ESE
12-Mar-2014         01:00         1.4         ENE           12-Mar-2014         02:00         1.5         SSW           12-Mar-2014         03:00         1.4         SW           12-Mar-2014         04:00         1.7         NE           12-Mar-2014         05:00         1.3         SW           12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         07:00         1.4         E           12-Mar-2014         08:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         19:00         1.6         NE           12-Mar-2014         19:00         1.6         SSE           12-Mar	11-Mar-2014	23:00	1.7	WSW
12-Mar-2014         02:00         1.5         SSW           12-Mar-2014         03:00         1.4         SW           12-Mar-2014         04:00         1.7         NE           12-Mar-2014         05:00         1.3         SW           12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         07:00         1.4         SSW           12-Mar-2014         08:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         11:00         1.9         ESE           12-Mar-2014         13:00         1.9         E           12-Mar-2014         14:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         17:00         2         SE           12-Mar-2014         19:00         1.6         SSE           12-Mar-	12-Mar-2014	00:00	1.9	E
12-Mar-2014         03:00         1.4         SW           12-Mar-2014         04:00         1.7         NE           12-Mar-2014         05:00         1.3         SW           12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         07:00         1.4         SSW           12-Mar-2014         08:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         SE           12-Mar-2014         14:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         19:00         1.6         NE           12-Mar-2014         19:00         1.6         NE           12-Mar-2014         2:00         1.7         SSE           12-Mar-	12-Mar-2014	01:00	1.4	ENE
12-Mar-2014         04:00         1.7         NE           12-Mar-2014         05:00         1.3         SW           12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         07:00         1.4         SSW           12-Mar-2014         08:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         SE           12-Mar-2014         14:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         17:00         2         SE           12-Mar-2014         18:00         1.6         NE           12-Mar-2014         19:00         1.6         SSE           12-Mar-2014         20:00         1.4         SSE           12-Mar-2014         20:00         1.7         SSE           12-Ma	12-Mar-2014	02:00	1.5	SSW
12-Mar-2014         05:00         1.3         SW           12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         07:00         1.4         SSW           12-Mar-2014         08:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         SE           12-Mar-2014         14:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         17:00         2         SE           12-Mar-2014         19:00         1.6         NE           12-Mar-2014         19:00         1.6         SSE           12-Mar-2014         20:00         1.4         SSE           12-Mar-2014         20:00         1.7         SSE           12-Mar-2014         20:00         1.7         SSE           13-M	12-Mar-2014	03:00	1.4	SW
12-Mar-2014         06:00         1.3         SSW           12-Mar-2014         07:00         1.4         SSW           12-Mar-2014         08:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         SE           12-Mar-2014         14:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         17:00         2         SE           12-Mar-2014         18:00         1.6         NE           12-Mar-2014         19:00         1.6         SSE           12-Mar-2014         20:00         1.4         SSE           12-Mar-2014         21:00         1.7         SSE           12-Mar-2014         21:00         1.7         SSE           12-Mar-2014         20:00         1.7         SSE           13-	12-Mar-2014	04:00	1.7	NE
12-Mar-2014         07:00         1.4         SSW           12-Mar-2014         08:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         E           12-Mar-2014         14:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         17:00         2         SE           12-Mar-2014         18:00         1.6         NE           12-Mar-2014         19:00         1.6         SSE           12-Mar-2014         20:00         1.4         SSE           12-Mar-2014         21:00         1.7         SSE           12-Mar-2014         22:00         1.9         SE           12-Mar-2014         23:00         1.7         SSE           13-Mar-2014         01:00         1.4         SSE           13-Ma	12-Mar-2014	05:00	1.3	SW
12-Mar-2014         08:00         1.4         E           12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         SE           12-Mar-2014         14:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         17:00         2         SE           12-Mar-2014         18:00         1.6         NE           12-Mar-2014         19:00         1.6         SSE           12-Mar-2014         20:00         1.4         SSE           12-Mar-2014         21:00         1.7         SSE           12-Mar-2014         23:00         1.7         SSE           13-Mar-2014         00:00         1.4         SSE           13-Mar-2014         01:00         1.4         ENE           13-Mar-2014         03:00         1.3         SSE           13-	12-Mar-2014	06:00	1.3	SSW
12-Mar-2014         09:00         1.9         ENE           12-Mar-2014         10:00         1.4         NE           12-Mar-2014         11:00         2.1         ENE           12-Mar-2014         12:00         1.9         ESE           12-Mar-2014         13:00         1.9         SE           12-Mar-2014         14:00         1.9         E           12-Mar-2014         15:00         2.2         S           12-Mar-2014         16:00         1.8         S           12-Mar-2014         17:00         2         SE           12-Mar-2014         18:00         1.6         NE           12-Mar-2014         19:00         1.6         SSE           12-Mar-2014         20:00         1.4         SSE           12-Mar-2014         21:00         1.7         SSE           12-Mar-2014         22:00         1.9         SE           12-Mar-2014         23:00         1.7         SSE           13-Mar-2014         01:00         1.4         ENE           13-Mar-2014         01:00         1.4         ENE           13-Mar-2014         03:00         1.3         SSE           13	12-Mar-2014	07:00	1.4	SSW
12-Mar-2014       10:00       1.4       NE         12-Mar-2014       11:00       2.1       ENE         12-Mar-2014       12:00       1.9       ESE         12-Mar-2014       13:00       1.9       SE         12-Mar-2014       14:00       1.9       E         12-Mar-2014       15:00       2.2       S         12-Mar-2014       16:00       1.8       S         12-Mar-2014       17:00       2       SE         12-Mar-2014       18:00       1.6       NE         12-Mar-2014       19:00       1.6       SSE         12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE	12-Mar-2014	08:00	1.4	E
12-Mar-2014       11:00       2.1       ENE         12-Mar-2014       12:00       1.9       ESE         12-Mar-2014       13:00       1.9       SE         12-Mar-2014       14:00       1.9       E         12-Mar-2014       15:00       2.2       S         12-Mar-2014       16:00       1.8       S         12-Mar-2014       17:00       2       SE         12-Mar-2014       18:00       1.6       NE         12-Mar-2014       19:00       1.6       SSE         12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       03:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE	12-Mar-2014	09:00	1.9	ENE
12-Mar-2014       12:00       1.9       ESE         12-Mar-2014       13:00       1.9       SE         12-Mar-2014       14:00       1.9       E         12-Mar-2014       15:00       2.2       S         12-Mar-2014       16:00       1.8       S         12-Mar-2014       17:00       2       SE         12-Mar-2014       18:00       1.6       NE         12-Mar-2014       19:00       1.6       SSE         12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	10:00	1.4	NE
12-Mar-2014       13:00       1.9       SE         12-Mar-2014       14:00       1.9       E         12-Mar-2014       15:00       2.2       S         12-Mar-2014       16:00       1.8       S         12-Mar-2014       17:00       2       SE         12-Mar-2014       18:00       1.6       NE         12-Mar-2014       19:00       1.6       SSE         12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	11:00	2.1	ENE
12-Mar-2014       14:00       1.9       E         12-Mar-2014       15:00       2.2       S         12-Mar-2014       16:00       1.8       S         12-Mar-2014       17:00       2       SE         12-Mar-2014       18:00       1.6       NE         12-Mar-2014       19:00       1.6       SSE         12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	12:00	1.9	ESE
12-Mar-2014       15:00       2.2       S         12-Mar-2014       16:00       1.8       S         12-Mar-2014       17:00       2       SE         12-Mar-2014       18:00       1.6       NE         12-Mar-2014       19:00       1.6       SSE         12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       SSE	12-Mar-2014	13:00	1.9	SE
12-Mar-2014       16:00       1.8       S         12-Mar-2014       17:00       2       SE         12-Mar-2014       18:00       1.6       NE         12-Mar-2014       19:00       1.6       SSE         12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	14:00	1.9	E
12-Mar-2014       17:00       2       SE         12-Mar-2014       18:00       1.6       NE         12-Mar-2014       19:00       1.6       SSE         12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	15:00	2.2	S
12-Mar-2014       18:00       1.6       NE         12-Mar-2014       19:00       1.6       SSE         12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	16:00	1.8	S
12-Mar-2014       19:00       1.6       SSE         12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	17:00	2	SE
12-Mar-2014       20:00       1.4       SSE         12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	18:00	1.6	NE
12-Mar-2014       21:00       1.7       SSE         12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	19:00	1.6	SSE
12-Mar-2014       22:00       1.9       SE         12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	20:00	1.4	SSE
12-Mar-2014       23:00       1.7       SSE         13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	21:00	1.7	SSE
13-Mar-2014       00:00       1.4       SSE         13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	22:00	1.9	SE
13-Mar-2014       01:00       1.4       ENE         13-Mar-2014       02:00       1.1       S         13-Mar-2014       03:00       1.3       SSE         13-Mar-2014       04:00       1.2       SSE         13-Mar-2014       05:00       1.2       E	12-Mar-2014	23:00	1.7	SSE
13-Mar-2014     02:00     1.1     S       13-Mar-2014     03:00     1.3     SSE       13-Mar-2014     04:00     1.2     SSE       13-Mar-2014     05:00     1.2     E	13-Mar-2014	00:00	1.4	SSE
13-Mar-2014     03:00     1.3     SSE       13-Mar-2014     04:00     1.2     SSE       13-Mar-2014     05:00     1.2     E	13-Mar-2014	01:00	1.4	ENE
13-Mar-2014 04:00 1.2 SSE 13-Mar-2014 05:00 1.2 E	13-Mar-2014	02:00	1.1	S
13-Mar-2014 05:00 1.2 E	13-Mar-2014	03:00	1.3	SSE
	13-Mar-2014	04:00	1.2	SSE
13-Mar-2014 06:00 0.9 S	13-Mar-2014	05:00	1.2	Е
	13-Mar-2014	06:00	0.9	S

13-Mar-2014       07:00       1       NNE         13-Mar-2014       08:00       1.7       ESE         13-Mar-2014       09:00       2.1       SSE         13-Mar-2014       10:00       2.2       WNW         13-Mar-2014       11:00       2.6       WNW         13-Mar-2014       12:00       2.4       W         13-Mar-2014       13:00       2.3       WNW	
13-Mar-2014       09:00       2.1       SSE         13-Mar-2014       10:00       2.2       WNW         13-Mar-2014       11:00       2.6       WNW         13-Mar-2014       12:00       2.4       W	
13-Mar-2014     10:00     2.2     WNW       13-Mar-2014     11:00     2.6     WNW       13-Mar-2014     12:00     2.4     W	
13-Mar-2014 11:00 2.6 WNW 13-Mar-2014 12:00 2.4 W	
13-Mar-2014 12:00 2.4 W	
13-1VIAI-2014 13.00 2.3 WIVW	
13-Mar-2014 14:00 2.2 WNW	
13-Mar-2014 15:00 1.9 WNW	
13-Mar-2014 16:00 2.3 W	
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13-Mar-2014 21:00 0.5 W	
13-Mar-2014 22:00 0.4 NW	
13-Mar-2014 23:00 0.4 WNW	
14-Mar-2014 00:00 0.5 WNW	
14-Mar-2014 01:00 0.8 WNW	
14-Mar-2014 02:00 0.8 WNW	
14-Mar-2014 03:00 0.8 WNW	
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14-Mar-2014 05:00 1.2 WSW	
14-Mar-2014 06:00 0.8 WSW	
14-Mar-2014 07:00 1 SW	
14-Mar-2014 08:00 1.4 SW	
14-Mar-2014 09:00 1.9 SSW	
14-Mar-2014 10:00 1.5 W	
14-Mar-2014 11:00 1.9 WNW	
14-Mar-2014 12:00 1.9 W	
14-Mar-2014 13:00 2 N	
14-Mar-2014 14:00 1.6 NE	
14-Mar-2014 15:00 1.3 NE	
14-Mar-2014 16:00 1.4 S	
14-Mar-2014 17:00 1.4 SW	
14-Mar-2014 18:00 1.2 SW	
14-Mar-2014 19:00 1.2 SW	

14-Mar-2014	14-Mar-2014	20:00	1.1	SW
14-Mar-2014         22:00         1.3         SSW           14-Mar-2014         23:00         1.2         SW           15-Mar-2014         00:00         1         WNW           15-Mar-2014         01:00         0.9         WNW           15-Mar-2014         02:00         0.9         WNW           15-Mar-2014         03:00         1.3         SW           15-Mar-2014         04:00         1.1         SW           15-Mar-2014         05:00         1         SW           15-Mar-2014         06:00         0.7         WNW           15-Mar-2014         06:00         0.7         WNW           15-Mar-2014         07:00         0.8         WNW           15-Mar-2014         09:00         0.9         WNW           15-Mar-2014         09:00         0.9         WNW           15-Mar-2014         10:00         1.4         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW <td< td=""><td></td><td></td><td></td><td></td></td<>				
14-Mar-2014         23:00         1.2         SW           15-Mar-2014         00:00         1         WNW           15-Mar-2014         01:00         0.9         WNW           15-Mar-2014         02:00         0.9         WNW           15-Mar-2014         03:00         1.3         SW           15-Mar-2014         04:00         1.1         SW           15-Mar-2014         05:00         1         SW           15-Mar-2014         06:00         0.7         WNW           15-Mar-2014         07:00         0.8         WNW           15-Mar-2014         08:00         1         WNW           15-Mar-2014         09:00         0.9         WNW           15-Mar-2014         10:00         1.4         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           1				
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15-Mar-2014         01:00         0.9         WNW           15-Mar-2014         02:00         0.9         WNW           15-Mar-2014         03:00         1.3         SW           15-Mar-2014         04:00         1.1         SW           15-Mar-2014         05:00         1         SW           15-Mar-2014         06:00         0.7         WNW           15-Mar-2014         07:00         0.8         WNW           15-Mar-2014         09:00         0.9         WNW           15-Mar-2014         10:00         1.4         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW <t< td=""><td></td><td></td><td></td><td></td></t<>				
15-Mar-2014         02:00         0.9         WNW           15-Mar-2014         03:00         1.3         SW           15-Mar-2014         04:00         1.1         SW           15-Mar-2014         06:00         0.7         WNW           15-Mar-2014         07:00         0.8         WNW           15-Mar-2014         08:00         1         WNW           15-Mar-2014         09:00         0.9         WNW           15-Mar-2014         10:00         1.4         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         14:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         20:00         0.5         SW				
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15-Mar-2014         04:00         1.1         SW           15-Mar-2014         05:00         1         SW           15-Mar-2014         06:00         0.7         WNW           15-Mar-2014         07:00         0.8         WNW           15-Mar-2014         08:00         1         WNW           15-Mar-2014         10:00         0.9         WNW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         14:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         20:00         0.5         SW	15-Mar-2014	02:00		
15-Mar-2014         05:00         1         SW           15-Mar-2014         06:00         0.7         WNW           15-Mar-2014         07:00         0.8         WNW           15-Mar-2014         08:00         1         WNW           15-Mar-2014         09:00         0.9         WNW           15-Mar-2014         10:00         1.4         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         20:00         0.5         WSW           15-Mar-2014         20:00         0.5         WSW	15-Mar-2014	03:00	1.3	
15-Mar-2014         06:00         0.7         WNW           15-Mar-2014         07:00         0.8         WNW           15-Mar-2014         08:00         1         WNW           15-Mar-2014         09:00         0.9         WNW           15-Mar-2014         10:00         1.4         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         20:00         0.5         WNW	15-Mar-2014	04:00	1.1	SW
15-Mar-2014         07:00         0.8         WNW           15-Mar-2014         08:00         1         WNW           15-Mar-2014         09:00         0.9         WNW           15-Mar-2014         10:00         1.4         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         14:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         22:00         0.5         SW           15-Mar-2014         23:00         0.5         W           16-Mar-2014         00:00         0.9         W	15-Mar-2014	05:00	1	SW
15-Mar-2014         08:00         1         WNW           15-Mar-2014         09:00         0.9         WNW           15-Mar-2014         10:00         1.4         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         14:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         22:00         0.5         SW           15-Mar-2014         23:00         0.5         W           16-Mar-2014         00:00         0.9         W           16-Mar-2014         00:00         0.5         WNW	15-Mar-2014	06:00	0.7	WNW
15-Mar-2014         09:00         0.9         WNW           15-Mar-2014         10:00         1.4         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         14:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         22:00         0.5         W           15-Mar-2014         23:00         0.5         W           16-Mar-2014         00:00         0.9         W           16-Mar-2014         01:00         0.5         WNW           16-Mar-2014         03:00         0.6         WNW <td< td=""><td>15-Mar-2014</td><td>07:00</td><td>0.8</td><td>WNW</td></td<>	15-Mar-2014	07:00	0.8	WNW
15-Mar-2014         10:00         1.4         SW           15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         14:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         22:00         0.5         SW           15-Mar-2014         23:00         0.5         W           16-Mar-2014         01:00         0.5         WNW           16-Mar-2014         01:00         0.5         WNW           16-Mar-2014         02:00         0.7         WNW           16-Mar-2014         04:00         0.9         SW           <	15-Mar-2014	08:00	1	WNW
15-Mar-2014         11:00         1.6         SW           15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         14:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         22:00         0.5         SW           15-Mar-2014         23:00         0.5         W           16-Mar-2014         00:00         0.9         W           16-Mar-2014         01:00         0.5         WNW           16-Mar-2014         03:00         0.6         WNW           16-Mar-2014         04:00         0.9         SW           16-Mar-2014         05:00         0.7         WSW <t< td=""><td>15-Mar-2014</td><td>09:00</td><td>0.9</td><td>WNW</td></t<>	15-Mar-2014	09:00	0.9	WNW
15-Mar-2014         12:00         1.5         SSW           15-Mar-2014         13:00         1.6         SSW           15-Mar-2014         14:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         22:00         0.5         SW           15-Mar-2014         23:00         0.5         W           16-Mar-2014         00:00         0.9         W           16-Mar-2014         01:00         0.5         WNW           16-Mar-2014         03:00         0.6         WNW           16-Mar-2014         04:00         0.9         SW           16-Mar-2014         05:00         0.7         WSW           16-Mar-2014         06:00         0.6         WSW           <	15-Mar-2014	10:00	1.4	SW
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15-Mar-2014         14:00         1.6         SSW           15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         22:00         0.5         SW           15-Mar-2014         23:00         0.5         W           16-Mar-2014         00:00         0.9         W           16-Mar-2014         01:00         0.5         WNW           16-Mar-2014         02:00         0.7         WNW           16-Mar-2014         04:00         0.9         SW           16-Mar-2014         05:00         0.7         WSW           16-Mar-2014         06:00         0.6         WSW           16-Mar-2014         06:00         0.6         WSW	15-Mar-2014	12:00	1.5	SSW
15-Mar-2014         15:00         1.8         WNW           15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         22:00         0.5         SW           15-Mar-2014         23:00         0.5         W           16-Mar-2014         00:00         0.9         W           16-Mar-2014         01:00         0.5         WNW           16-Mar-2014         03:00         0.6         WNW           16-Mar-2014         04:00         0.9         SW           16-Mar-2014         05:00         0.7         WSW           16-Mar-2014         06:00         0.6         WSW           16-Mar-2014         06:00         0.6         WSW           16-Mar-2014         06:00         0.9         WSW	15-Mar-2014	13:00	1.6	SSW
15-Mar-2014         16:00         1.7         SSW           15-Mar-2014         17:00         1.6         WNW           15-Mar-2014         18:00         1.2         W           15-Mar-2014         19:00         0.8         WNW           15-Mar-2014         20:00         0.6         WNW           15-Mar-2014         21:00         0.5         WSW           15-Mar-2014         22:00         0.5         SW           15-Mar-2014         23:00         0.5         W           16-Mar-2014         00:00         0.9         W           16-Mar-2014         01:00         0.5         WNW           16-Mar-2014         02:00         0.7         WNW           16-Mar-2014         03:00         0.6         WNW           16-Mar-2014         05:00         0.7         WSW           16-Mar-2014         06:00         0.6         WSW           16-Mar-2014         06:00         0.6         WSW           16-Mar-2014         07:00         0.9         WSW	15-Mar-2014	14:00	1.6	SSW
15-Mar-2014       17:00       1.6       WNW         15-Mar-2014       18:00       1.2       W         15-Mar-2014       19:00       0.8       WNW         15-Mar-2014       20:00       0.6       WNW         15-Mar-2014       21:00       0.5       WSW         15-Mar-2014       22:00       0.5       SW         15-Mar-2014       23:00       0.5       W         16-Mar-2014       00:00       0.9       W         16-Mar-2014       01:00       0.5       WNW         16-Mar-2014       02:00       0.7       WNW         16-Mar-2014       04:00       0.9       SW         16-Mar-2014       05:00       0.7       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       07:00       0.9       WSW	15-Mar-2014	15:00	1.8	WNW
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15-Mar-2014       19:00       0.8       WNW         15-Mar-2014       20:00       0.6       WNW         15-Mar-2014       21:00       0.5       WSW         15-Mar-2014       22:00       0.5       SW         15-Mar-2014       23:00       0.5       W         16-Mar-2014       00:00       0.9       W         16-Mar-2014       01:00       0.5       WNW         16-Mar-2014       02:00       0.7       WNW         16-Mar-2014       04:00       0.9       SW         16-Mar-2014       05:00       0.7       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       07:00       0.9       WSW	15-Mar-2014	17:00	1.6	WNW
15-Mar-2014       20:00       0.6       WNW         15-Mar-2014       21:00       0.5       WSW         15-Mar-2014       22:00       0.5       SW         15-Mar-2014       23:00       0.5       W         16-Mar-2014       00:00       0.9       W         16-Mar-2014       01:00       0.5       WNW         16-Mar-2014       02:00       0.7       WNW         16-Mar-2014       04:00       0.9       SW         16-Mar-2014       05:00       0.7       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       07:00       0.9       WSW	15-Mar-2014	18:00	1.2	W
15-Mar-2014       21:00       0.5       WSW         15-Mar-2014       22:00       0.5       SW         15-Mar-2014       23:00       0.5       W         16-Mar-2014       00:00       0.9       W         16-Mar-2014       01:00       0.5       WNW         16-Mar-2014       02:00       0.7       WNW         16-Mar-2014       03:00       0.6       WNW         16-Mar-2014       04:00       0.9       SW         16-Mar-2014       05:00       0.7       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       07:00       0.9       WSW	15-Mar-2014	19:00	0.8	WNW
15-Mar-2014       22:00       0.5       SW         15-Mar-2014       23:00       0.5       W         16-Mar-2014       00:00       0.9       W         16-Mar-2014       01:00       0.5       WNW         16-Mar-2014       02:00       0.7       WNW         16-Mar-2014       03:00       0.6       WNW         16-Mar-2014       04:00       0.9       SW         16-Mar-2014       05:00       0.7       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       07:00       0.9       WSW	15-Mar-2014	20:00	0.6	WNW
15-Mar-2014       23:00       0.5       W         16-Mar-2014       00:00       0.9       W         16-Mar-2014       01:00       0.5       WNW         16-Mar-2014       02:00       0.7       WNW         16-Mar-2014       03:00       0.6       WNW         16-Mar-2014       04:00       0.9       SW         16-Mar-2014       05:00       0.7       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       07:00       0.9       WSW	15-Mar-2014	21:00	0.5	WSW
16-Mar-2014       00:00       0.9       W         16-Mar-2014       01:00       0.5       WNW         16-Mar-2014       02:00       0.7       WNW         16-Mar-2014       03:00       0.6       WNW         16-Mar-2014       04:00       0.9       SW         16-Mar-2014       05:00       0.7       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       07:00       0.9       WSW	15-Mar-2014	22:00	0.5	SW
16-Mar-2014       01:00       0.5       WNW         16-Mar-2014       02:00       0.7       WNW         16-Mar-2014       03:00       0.6       WNW         16-Mar-2014       04:00       0.9       SW         16-Mar-2014       05:00       0.7       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       07:00       0.9       WSW	15-Mar-2014	23:00	0.5	W
16-Mar-2014       02:00       0.7       WNW         16-Mar-2014       03:00       0.6       WNW         16-Mar-2014       04:00       0.9       SW         16-Mar-2014       05:00       0.7       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       07:00       0.9       WSW	16-Mar-2014	00:00	0.9	W
16-Mar-2014       03:00       0.6       WNW         16-Mar-2014       04:00       0.9       SW         16-Mar-2014       05:00       0.7       WSW         16-Mar-2014       06:00       0.6       WSW         16-Mar-2014       07:00       0.9       WSW	16-Mar-2014	01:00	0.5	WNW
16-Mar-2014     04:00     0.9     SW       16-Mar-2014     05:00     0.7     WSW       16-Mar-2014     06:00     0.6     WSW       16-Mar-2014     07:00     0.9     WSW	16-Mar-2014	02:00	0.7	WNW
16-Mar-2014     05:00     0.7     WSW       16-Mar-2014     06:00     0.6     WSW       16-Mar-2014     07:00     0.9     WSW	16-Mar-2014	03:00	0.6	WNW
16-Mar-2014     06:00     0.6     WSW       16-Mar-2014     07:00     0.9     WSW	16-Mar-2014	04:00	0.9	SW
16-Mar-2014     06:00     0.6     WSW       16-Mar-2014     07:00     0.9     WSW	16-Mar-2014	05:00	0.7	WSW
16-Mar-2014 07:00 0.9 WSW			0.6	WSW
				WSW
				SW

16-Mar-2014	09:00	1.2	WSW
16-Mar-2014	10:00	1.3	WSW
16-Mar-2014	11:00	1.1	SW
16-Mar-2014	12:00	1.5	SW
16-Mar-2014	13:00	1.6	SW
16-Mar-2014	14:00	1.7	SW
16-Mar-2014	15:00	1.8	WSW
16-Mar-2014	16:00	1.7	SW
16-Mar-2014	17:00	1.6	W
16-Mar-2014	18:00	1.3	W
16-Mar-2014	19:00	1.2	W
16-Mar-2014	20:00	1.2	W
16-Mar-2014	21:00	0.8	WNW
16-Mar-2014	22:00	0.9	WNW
16-Mar-2014	23:00	0.7	W
17-Mar-2014	00:00	1	WNW
17-Mar-2014	01:00	0.9	WNW
17-Mar-2014	02:00	0.9	WNW
17-Mar-2014	03:00	0.7	W
17-Mar-2014	04:00	0.7	W
17-Mar-2014	05:00	0.9	WSW
17-Mar-2014	06:00	1	W
17-Mar-2014	07:00	0.9	W
17-Mar-2014	08:00	1.2	W
17-Mar-2014	09:00	1.7	WNW
17-Mar-2014	10:00	1.9	W
17-Mar-2014	11:00	2	NE
17-Mar-2014	12:00	2.4	Е
17-Mar-2014	13:00	2.6	W
17-Mar-2014	14:00	2.8	WNW
17-Mar-2014	15:00	2.6	W
17-Mar-2014	16:00	2.8	SSW
17-Mar-2014	17:00	2	WNW
17-Mar-2014	18:00	2.1	ENE
17-Mar-2014	19:00	2.1	W
17-Mar-2014	20:00	1.6	WNW
17-Mar-2014	21:00	1.5	W

17-Mar-2014	22:00	1.6	WNW
17-Mar-2014	23:00	1.2	WNW
18-Mar-2014	00:00	1	WNW
18-Mar-2014	01:00	1	WNW
18-Mar-2014	02:00	1.2	W
18-Mar-2014	03:00	1.3	WNW
18-Mar-2014	04:00	1.7	W
18-Mar-2014	05:00	2	W
18-Mar-2014	06:00	2	SW
18-Mar-2014	07:00	2	NW
18-Mar-2014	08:00	3	WNW
18-Mar-2014	09:00	3.6	WSW
18-Mar-2014	10:00	3.2	WNW
18-Mar-2014	11:00	3.5	WNW
18-Mar-2014	12:00	4.3	WNW
18-Mar-2014	13:00	4.4	WSW
18-Mar-2014	14:00	4.3	SW
18-Mar-2014	15:00	4.3	W
18-Mar-2014	16:00	4.2	W
18-Mar-2014	17:00	3.8	W
18-Mar-2014	18:00	3.9	WNW
18-Mar-2014	19:00	3.2	W
18-Mar-2014	20:00	2.9	W
18-Mar-2014	21:00	2.6	SW
18-Mar-2014	22:00	3	SW
18-Mar-2014	23:00	2.8	SW
19-Mar-2014	00:00	3	SW
19-Mar-2014	01:00	2.7	WSW
19-Mar-2014	02:00	2.6	W
19-Mar-2014	03:00	2.8	W
19-Mar-2014	04:00	2.8	SW
19-Mar-2014	05:00	2.8	WSW
19-Mar-2014	06:00	1.3	WSW
19-Mar-2014	07:00	1.9	SW
19-Mar-2014	08:00	2.7	SW
19-Mar-2014	09:00	3.1	SW
19-Mar-2014	10:00	3	W

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19-Mar-2014	11:00	2.9	SW
19-Mar-2014	12:00	2.9	SSW
19-Mar-2014	13:00	2.5	SSW
19-Mar-2014	14:00	2.3	SW
19-Mar-2014	15:00	1.9	SW
19-Mar-2014	16:00	2.1	WNW
19-Mar-2014	17:00	1.8	W
19-Mar-2014	18:00	1.7	WNW
19-Mar-2014	19:00	1.4	SW
19-Mar-2014	20:00	1.5	N
19-Mar-2014	21:00	2	N
19-Mar-2014	22:00	1.7	N
19-Mar-2014	23:00	1.6	ENE
20-Mar-2014	00:00	1.7	ENE
20-Mar-2014	01:00	2	NE
20-Mar-2014	02:00	2.2	W
20-Mar-2014	03:00	1.9	W
20-Mar-2014	04:00	1.7	W
20-Mar-2014	05:00	2.1	SW
20-Mar-2014	06:00	2	SSW
20-Mar-2014	07:00	1.9	W
20-Mar-2014	08:00	1.3	W
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20-Mar-2014	10:00	2.3	WSW
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20-Mar-2014	12:00	2.6	WSW
20-Mar-2014	13:00	2.7	WSW
20-Mar-2014	14:00	3	WSW
20-Mar-2014	15:00	2.7	WSW
20-Mar-2014	16:00	2.9	W
20-Mar-2014	17:00	2.5	W
20-Mar-2014	18:00	2.3	W
20-Mar-2014	19:00	2.2	WSW
20-Mar-2014	20:00	1.9	WNW
20-Mar-2014	21:00	1.4	W
20-Mar-2014	22:00	1.4	WSW
20-Mar-2014	23:00	1.5	WSW

21-Mar-2014	00:00	1	WSW
21-Mar-2014	01:00	0.9	WSW
21-Mar-2014	02:00	0.9	W
21-Mar-2014	03:00	1	WSW
21-Mar-2014	04:00	0.9	WSW
21-Mar-2014	05:00	1.4	W
21-Mar-2014	06:00	0.7	W
21-Mar-2014	07:00	0.7	ESE
21-Mar-2014	08:00	0.9	ESE
21-Mar-2014	09:00	1.2	SSE
21-Mar-2014	10:00	0.8	NNW
21-Mar-2014	11:00	1.6	W
21-Mar-2014	12:00	1.7	W
21-Mar-2014	13:00	2.3	N
21-Mar-2014	14:00	2.1	N
21-Mar-2014	15:00	1.8	N
21-Mar-2014	16:00	1.7	E
21-Mar-2014	17:00	2	NNE
21-Mar-2014	18:00	1.4	NE
21-Mar-2014	19:00	1.2	NE
21-Mar-2014	20:00	0.9	W
21-Mar-2014	21:00	1.7	NE
21-Mar-2014	22:00	0.8	ENE
21-Mar-2014	23:00	0.9	ENE
22-Mar-2014	00:00	0.7	S
22-Mar-2014	01:00	0.9	WSW
22-Mar-2014	02:00	0.7	NW
22-Mar-2014	03:00	0.8	NNE
22-Mar-2014	04:00	0.9	NW
22-Mar-2014	05:00	0.6	N
22-Mar-2014	06:00	0.7	WNW
22-Mar-2014	07:00	0.9	ENE
22-Mar-2014	08:00	1.2	NE
22-Mar-2014	09:00	1.5	NE
22-Mar-2014	10:00	1.6	N
22-Mar-2014	11:00	2	NE
22-Mar-2014	12:00	2.4	ENE

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22-Mar-2014	13:00	2.1	ENE
22-Mar-2014	14:00	2.1	ENE
22-Mar-2014	15:00	2.1	ENE
22-Mar-2014	16:00	1.7	ENE
22-Mar-2014	17:00	1.4	ENE
22-Mar-2014	18:00	1.7	ENE
22-Mar-2014	19:00	0.9	NW
22-Mar-2014	20:00	1.1	W
22-Mar-2014	21:00	1	SW
22-Mar-2014	22:00	1	WSW
22-Mar-2014	23:00	1	SW
23-Mar-2014	00:00	0.8	W
23-Mar-2014	01:00	0.8	WNW
23-Mar-2014	02:00	0.9	WNW
23-Mar-2014	03:00	0.7	W
23-Mar-2014	04:00	0.6	ENE
23-Mar-2014	05:00	0.7	ENE
23-Mar-2014	06:00	0.5	ENE
23-Mar-2014	07:00	0.5	N
23-Mar-2014	08:00	1	NE
23-Mar-2014	09:00	1	Е
23-Mar-2014	10:00	2.1	ENE
23-Mar-2014	11:00	2.3	WNW
23-Mar-2014	12:00	2.2	ENE
23-Mar-2014	13:00	2.2	NNE
23-Mar-2014	14:00	2.7	NE
23-Mar-2014	15:00	2.6	NNE
23-Mar-2014	16:00	2.5	N
23-Mar-2014	17:00	2	N
23-Mar-2014	18:00	1.8	N
23-Mar-2014	19:00	1.7	WNW
23-Mar-2014	20:00	1.4	N
23-Mar-2014	21:00	1.1	N
23-Mar-2014	22:00	0.8	N
23-Mar-2014	23:00	0.7	WNW
24-Mar-2014	00:00	0.8	NNE
24-Mar-2014	01:00	1	NE
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24-Mar-2014	02:00	0.8	NE
24-Mar-2014	03:00	1	N
24-Mar-2014	04:00	1.2	NE
24-Mar-2014	05:00	1.6	ENE
24-Mar-2014	06:00	1.2	NE
24-Mar-2014	07:00	1.1	ENE
24-Mar-2014	08:00	1.5	N
24-Mar-2014	09:00	1.9	NE
24-Mar-2014	10:00	2.4	NE
24-Mar-2014	11:00	2.4	NNE
24-Mar-2014	12:00	3.2	W
24-Mar-2014	13:00	3.3	W
24-Mar-2014	14:00	2.9	WSW
24-Mar-2014	15:00	2.6	WNW
24-Mar-2014	16:00	2.6	W
24-Mar-2014	17:00	2	W
24-Mar-2014	18:00	1.2	W
24-Mar-2014	19:00	1	W
24-Mar-2014	20:00	1.7	W
24-Mar-2014	21:00	1.1	NNE
24-Mar-2014	22:00	1.3	ESE
24-Mar-2014	23:00	0.9	NNE
25-Mar-2014	00:00	1	ENE
25-Mar-2014	01:00	1.2	WSW
25-Mar-2014	02:00	0.8	SW
25-Mar-2014	03:00	1.1	SSW
25-Mar-2014	04:00	0.8	SSW
25-Mar-2014	05:00	0.7	W
25-Mar-2014	06:00	0.7	W
25-Mar-2014	07:00	0.5	WNW
25-Mar-2014	08:00	0.8	W
25-Mar-2014	09:00	1.4	W
25-Mar-2014	10:00	1.8	SSW
25-Mar-2014	11:00	1.8	W
25-Mar-2014	12:00	2.1	WNW
25-Mar-2014	13:00	2	W
25-Mar-2014	14:00	1.7	W

25-Mar-2014	15:00	2.1	WNW
25-Mar-2014	16:00	2.2	NNE
25-Mar-2014	17:00	1.7	NE
25-Mar-2014	18:00	1.1	E
25-Mar-2014	19:00	1.4	ENE
25-Mar-2014	20:00	1.6	ENE
25-Mar-2014	21:00	1.9	NNE
25-Mar-2014	22:00	1.7	NE
25-Mar-2014	23:00	1.8	ENE
26-Mar-2014	00:00	1.6	ENE
26-Mar-2014	01:00	1	ENE
26-Mar-2014	02:00	1	ENE
26-Mar-2014	03:00	1.1	ENE
26-Mar-2014	04:00	1	ENE
26-Mar-2014	05:00	0.7	ENE
26-Mar-2014	06:00	0.7	NE
26-Mar-2014	07:00	0.9	NE
26-Mar-2014	08:00	1.2	E
26-Mar-2014	09:00	1.4	ENE
26-Mar-2014	10:00	1.8	ENE
26-Mar-2014	11:00	2.2	ENE
26-Mar-2014	12:00	2.4	E
26-Mar-2014	13:00	2.7	WSW
26-Mar-2014	14:00	2.2	SW
26-Mar-2014	15:00	1.7	SW
26-Mar-2014	16:00	2	W
26-Mar-2014	17:00	2.2	W
26-Mar-2014	18:00	1.8	SW
26-Mar-2014	19:00	1.5	SSW
26-Mar-2014	20:00	1.2	SW
26-Mar-2014	21:00	0.9	WSW
26-Mar-2014	22:00	0.9	SW
26-Mar-2014	23:00	1.2	SW
27-Mar-2014	00:00	1	SW
27-Mar-2014	01:00	0.8	SW
27-Mar-2014	02:00	1.2	SW
27-Mar-2014	03:00	0.9	WNW

27-Mar-2014 04:00 0.8 WNW 27-Mar-2014 05:00 0.7 SSE 27-Mar-2014 06:00 0.6 W 27-Mar-2014 07:00 0.9 WNW 27-Mar-2014 08:00 1.1 WSW 27-Mar-2014 09:00 1.2 S 27-Mar-2014 10:00 1.4 SSW 27-Mar-2014 11:00 1.7 WNW 27-Mar-2014 11:00 1.7 WNW 27-Mar-2014 11:00 1.9 WSW 27-Mar-2014 12:00 1.9 WSW 27-Mar-2014 13:00 2 WNW 27-Mar-2014 15:00 2.2 WNW 27-Mar-2014 15:00 2.2 WNW 27-Mar-2014 15:00 1.6 WSW 27-Mar-2014 16:00 1.7 W 27-Mar-2014 16:00 1.7 W 27-Mar-2014 17:00 1.6 WSW 27-Mar-2014 18:00 1.4 WNW 27-Mar-2014 18:00 1.4 WNW 27-Mar-2014 19:00 1.2 WNW 27-Mar-2014 20:00 1 SW 27-Mar-2014 20:00 1 SW 27-Mar-2014 20:00 1 SW 27-Mar-2014 20:00 1 SW 27-Mar-2014 20:00 0.9 WSW 27-Mar-2014 20:00 0.5 WNW 28-Mar-2014 00:00 0.5 ENE 28-Mar-2014 00:00 0.5 SW 28-Mar-2014 00:00 0.4 SW 28-Mar-2014 00:00 0.5 SW 28-Mar-2014 00:00 0.7 WNW 28-Mar-2014 10:00 1.1 SW 28-Mar-2014 10:00 2.1 NE 28-Mar-2014 10:00 2.1 NE				
27-Mar-2014         06:00         0.6         W           27-Mar-2014         07:00         0.9         WNW           27-Mar-2014         08:00         1.1         WSW           27-Mar-2014         09:00         1.2         S           27-Mar-2014         10:00         1.4         SSW           27-Mar-2014         11:00         1.7         WNW           27-Mar-2014         12:00         1.9         WSW           27-Mar-2014         13:00         2         SW           27-Mar-2014         14:00         2         WNW           27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         16:00         1.7         W           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         20:00         0.5         WNW           27-Mar-2014         20:00         0.5         WNW           27-	27-Mar-2014	04:00	0.8	WNW
27-Mar-2014         07:00         0.9         WNW           27-Mar-2014         08:00         1.1         WSW           27-Mar-2014         09:00         1.2         S           27-Mar-2014         10:00         1.4         SSW           27-Mar-2014         11:00         1.7         WNW           27-Mar-2014         12:00         1.9         WSW           27-Mar-2014         13:00         2         SW           27-Mar-2014         14:00         2         WNW           27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         16:00         1.7         W           27-Mar-2014         16:00         1.7         W           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         20:00         1         SW           27-Mar-2014         20:00         0.5         WNW           27-Mar-2014         20:00         0.5         NE           28-Mar-2014         00:00         0.5         SW           28-Mar-2	27-Mar-2014	05:00	0.7	SSE
27-Mar-2014         08:00         1.1         WSW           27-Mar-2014         09:00         1.2         S           27-Mar-2014         10:00         1.4         SSW           27-Mar-2014         11:00         1.7         WNW           27-Mar-2014         12:00         1.9         WSW           27-Mar-2014         13:00         2         SW           27-Mar-2014         14:00         2         WNW           27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         16:00         1.7         W           27-Mar-2014         16:00         1.7         W           27-Mar-2014         16:00         1.7         W           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         SW           28-Mar-	27-Mar-2014	06:00	0.6	W
27-Mar-2014         09:00         1.2         S           27-Mar-2014         10:00         1.4         SSW           27-Mar-2014         11:00         1.7         WNW           27-Mar-2014         12:00         1.9         WSW           27-Mar-2014         13:00         2         SW           27-Mar-2014         14:00         2         WNW           27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         16:00         1.7         W           27-Mar-2014         17:00         1.6         WSW           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         SW           28-Mar-2014         00:00         0.5         SW           28-Mar-2014         03:00         0.4         SW           28-Ma	27-Mar-2014	07:00	0.9	WNW
27-Mar-2014         10:00         1.4         SSW           27-Mar-2014         11:00         1.7         WNW           27-Mar-2014         12:00         1.9         WSW           27-Mar-2014         13:00         2         SW           27-Mar-2014         14:00         2         WNW           27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         16:00         1.7         W           27-Mar-2014         17:00         1.6         WSW           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         00:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28	27-Mar-2014	08:00	1.1	WSW
27-Mar-2014         11:00         1.7         WNW           27-Mar-2014         12:00         1.9         WSW           27-Mar-2014         13:00         2         SW           27-Mar-2014         14:00         2         WNW           27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         16:00         1.7         W           27-Mar-2014         17:00         1.6         WSW           27-Mar-2014         19:00         1.4         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         SW           28-Mar-2014         00:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-	27-Mar-2014	09:00	1.2	S
27-Mar-2014         12:00         1.9         WSW           27-Mar-2014         13:00         2         SW           27-Mar-2014         14:00         2         WNW           27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         16:00         1.7         W           27-Mar-2014         17:00         1.6         WSW           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         00:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-	27-Mar-2014	10:00	1.4	SSW
27-Mar-2014         13:00         2         SW           27-Mar-2014         14:00         2         WNW           27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         16:00         1.7         W           27-Mar-2014         17:00         1.6         WSW           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         00:00         0.5         SW           28-Mar-2014         00:00         0.5         SW           28-Mar-2014         00:00         0.4         SW           28-Mar-2014         00:00         0.4         SW           28-Mar-2014         00:00         0.5         SW           28-Mar-2014         00:00         0.5         SW           28-Mar	27-Mar-2014	11:00	1.7	WNW
27-Mar-2014         14:00         2         WNW           27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         16:00         1.7         W           27-Mar-2014         17:00         1.6         WSW           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         00:00         0.5         SW           28-Mar-2014         01:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-2014         06:00         0.3         SSW           28-Mar-2014         06:00         0.3         SSW           2	27-Mar-2014	12:00	1.9	WSW
27-Mar-2014         15:00         2.2         WNW           27-Mar-2014         16:00         1.7         W           27-Mar-2014         17:00         1.6         WSW           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         01:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         04:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-2014         06:00         0.3         SSW           28-Mar-2014         07:00         0.4         SSW           28-Mar-2014         09:00         1         NE           28	27-Mar-2014	13:00	2	SW
27-Mar-2014         16:00         1.7         W           27-Mar-2014         17:00         1.6         WSW           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         01:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         04:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-2014         06:00         0.3         SSW           28-Mar-2014         07:00         0.4         SSW           28-Mar-2014         09:00         1         NE           28-Mar-2014         10:00         1.1         SW           28-	27-Mar-2014	14:00	2	WNW
27-Mar-2014         17:00         1.6         WSW           27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         01:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-2014         06:00         0.3         SSW           28-Mar-2014         08:00         0.7         WNW           28-Mar-2014         09:00         1         NE           28-Mar-2014         10:00         1.1         SW           28-Mar-2014         11:00         1.3         SW           28	27-Mar-2014	15:00	2.2	WNW
27-Mar-2014         18:00         1.4         WNW           27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         01:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         04:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-2014         06:00         0.3         SSW           28-Mar-2014         07:00         0.4         SSW           28-Mar-2014         09:00         1         NE           28-Mar-2014         10:00         1.1         SW           28-Mar-2014         10:00         1.1         SW           28-Mar-2014         11:00         1.3         SW           28-	27-Mar-2014	16:00	1.7	W
27-Mar-2014         19:00         1.2         WNW           27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         01:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         04:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-2014         06:00         0.3         SSW           28-Mar-2014         07:00         0.4         SSW           28-Mar-2014         09:00         1         NE           28-Mar-2014         10:00         1.1         SW           28-Mar-2014         11:00         1.3         SW           28-Mar-2014         11:00         1.3         SW           28-Mar-2014         12:00         1.4         NE           28-M	27-Mar-2014	17:00	1.6	WSW
27-Mar-2014         20:00         1         SW           27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         01:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         04:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-2014         06:00         0.3         SSW           28-Mar-2014         07:00         0.4         SSW           28-Mar-2014         09:00         0.7         WNW           28-Mar-2014         10:00         1.1         SW           28-Mar-2014         11:00         1.3         SW           28-Mar-2014         12:00         1.4         NE           28-Mar-2014         13:00         1.9         NE           28-Mar-2014         14:00         2.1         NE           28	27-Mar-2014	18:00	1.4	WNW
27-Mar-2014         21:00         0.9         WSW           27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         01:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         04:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-2014         06:00         0.3         SSW           28-Mar-2014         07:00         0.4         SSW           28-Mar-2014         08:00         0.7         WNW           28-Mar-2014         09:00         1         NE           28-Mar-2014         11:00         1.3         SW           28-Mar-2014         12:00         1.4         NE           28-Mar-2014         13:00         1.9         NE           28-Mar-2014         14:00         2.1         NE           28-Mar-2014         15:00         2.1         NE	27-Mar-2014	19:00	1.2	WNW
27-Mar-2014         22:00         0.5         WNW           27-Mar-2014         23:00         0.5         NE           28-Mar-2014         00:00         0.5         ENE           28-Mar-2014         01:00         0.5         SW           28-Mar-2014         02:00         0.3         WSW           28-Mar-2014         03:00         0.4         SW           28-Mar-2014         04:00         0.4         SW           28-Mar-2014         05:00         0.5         SW           28-Mar-2014         06:00         0.3         SSW           28-Mar-2014         07:00         0.4         SSW           28-Mar-2014         08:00         0.7         WNW           28-Mar-2014         10:00         1.1         SW           28-Mar-2014         10:00         1.1         SW           28-Mar-2014         12:00         1.4         NE           28-Mar-2014         13:00         1.9         NE           28-Mar-2014         14:00         2.1         NE           28-Mar-2014         15:00         2.1         W	27-Mar-2014	20:00	1	SW
27-Mar-2014       23:00       0.5       NE         28-Mar-2014       00:00       0.5       ENE         28-Mar-2014       01:00       0.5       SW         28-Mar-2014       02:00       0.3       WSW         28-Mar-2014       03:00       0.4       SW         28-Mar-2014       04:00       0.4       SW         28-Mar-2014       05:00       0.5       SW         28-Mar-2014       06:00       0.3       SSW         28-Mar-2014       07:00       0.4       SSW         28-Mar-2014       08:00       0.7       WNW         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	27-Mar-2014	21:00	0.9	WSW
28-Mar-2014       00:00       0.5       ENE         28-Mar-2014       01:00       0.5       SW         28-Mar-2014       02:00       0.3       WSW         28-Mar-2014       03:00       0.4       SW         28-Mar-2014       04:00       0.4       SW         28-Mar-2014       05:00       0.5       SW         28-Mar-2014       06:00       0.3       SSW         28-Mar-2014       07:00       0.4       SSW         28-Mar-2014       08:00       0.7       WNW         28-Mar-2014       09:00       1       NE         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	27-Mar-2014	22:00	0.5	WNW
28-Mar-2014       01:00       0.5       SW         28-Mar-2014       02:00       0.3       WSW         28-Mar-2014       03:00       0.4       SW         28-Mar-2014       04:00       0.4       SW         28-Mar-2014       05:00       0.5       SW         28-Mar-2014       06:00       0.3       SSW         28-Mar-2014       07:00       0.4       SSW         28-Mar-2014       08:00       0.7       WNW         28-Mar-2014       09:00       1       NE         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       NE	27-Mar-2014	23:00	0.5	NE
28-Mar-2014       02:00       0.3       WSW         28-Mar-2014       03:00       0.4       SW         28-Mar-2014       04:00       0.4       SW         28-Mar-2014       05:00       0.5       SW         28-Mar-2014       06:00       0.3       SSW         28-Mar-2014       07:00       0.4       SSW         28-Mar-2014       08:00       0.7       WNW         28-Mar-2014       09:00       1       NE         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	00:00	0.5	ENE
28-Mar-2014       03:00       0.4       SW         28-Mar-2014       04:00       0.4       SW         28-Mar-2014       05:00       0.5       SW         28-Mar-2014       06:00       0.3       SSW         28-Mar-2014       07:00       0.4       SSW         28-Mar-2014       08:00       0.7       WNW         28-Mar-2014       09:00       1       NE         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	01:00	0.5	SW
28-Mar-2014       04:00       0.4       SW         28-Mar-2014       05:00       0.5       SW         28-Mar-2014       06:00       0.3       SSW         28-Mar-2014       07:00       0.4       SSW         28-Mar-2014       08:00       0.7       WNW         28-Mar-2014       09:00       1       NE         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	02:00	0.3	WSW
28-Mar-2014       05:00       0.5       SW         28-Mar-2014       06:00       0.3       SSW         28-Mar-2014       07:00       0.4       SSW         28-Mar-2014       08:00       0.7       WNW         28-Mar-2014       09:00       1       NE         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	03:00	0.4	SW
28-Mar-2014       06:00       0.3       SSW         28-Mar-2014       07:00       0.4       SSW         28-Mar-2014       08:00       0.7       WNW         28-Mar-2014       09:00       1       NE         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	04:00	0.4	SW
28-Mar-2014       07:00       0.4       SSW         28-Mar-2014       08:00       0.7       WNW         28-Mar-2014       09:00       1       NE         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	05:00	0.5	SW
28-Mar-2014       08:00       0.7       WNW         28-Mar-2014       09:00       1       NE         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	06:00	0.3	SSW
28-Mar-2014       09:00       1       NE         28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	07:00	0.4	SSW
28-Mar-2014       10:00       1.1       SW         28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	08:00	0.7	WNW
28-Mar-2014       11:00       1.3       SW         28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	09:00	1	NE
28-Mar-2014       12:00       1.4       NE         28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	10:00	1.1	SW
28-Mar-2014       13:00       1.9       NE         28-Mar-2014       14:00       2.1       NE         28-Mar-2014       15:00       2.1       W	28-Mar-2014	11:00	1.3	SW
28-Mar-2014     14:00     2.1     NE       28-Mar-2014     15:00     2.1     W	28-Mar-2014	12:00	1.4	NE
28-Mar-2014 15:00 2.1 W	28-Mar-2014	13:00	1.9	NE
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28-Mar-2014 16:00 2.1 W	28-Mar-2014	15:00	2.1	W
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28-Mar-2014	28-Mar-2014	17:00	1.9	W
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28-Mar-2014         22:00         0.7         SW           28-Mar-2014         23:00         0.6         WNW           29-Mar-2014         00:00         0.7         WSW           29-Mar-2014         01:00         0.4         WSW           29-Mar-2014         02:00         0.5         NE           29-Mar-2014         03:00         0.6         SW           29-Mar-2014         04:00         0.4         WSW           29-Mar-2014         05:00         0.4         SSW           29-Mar-2014         06:00         0.3         SW           29-Mar-2014         07:00         0.2         SW           29-Mar-2014         09:00         0.6         WNW           29-Mar-2014         09:00         0.9         SW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         15:00         1.6         NE	28-Mar-2014	20:00		
28-Mar-2014	28-Mar-2014	21:00	0.7	WNW
29-Mar-2014         00:00         0.7         WSW           29-Mar-2014         01:00         0.4         WSW           29-Mar-2014         02:00         0.5         NE           29-Mar-2014         03:00         0.6         SW           29-Mar-2014         04:00         0.4         WSW           29-Mar-2014         05:00         0.4         SSW           29-Mar-2014         06:00         0.3         SW           29-Mar-2014         07:00         0.2         SW           29-Mar-2014         09:00         0.6         WNW           29-Mar-2014         09:00         0.9         SW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         18:00         0.9         SW           29	28-Mar-2014	22:00	0.7	SW
29-Mar-2014         01:00         0.4         WSW           29-Mar-2014         02:00         0.5         NE           29-Mar-2014         03:00         0.6         SW           29-Mar-2014         04:00         0.4         WSW           29-Mar-2014         05:00         0.4         SSW           29-Mar-2014         06:00         0.3         SW           29-Mar-2014         07:00         0.2         SW           29-Mar-2014         08:00         0.6         WNW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         18:00         0.9         SW           29-Mar-2014         19:00         0.9         WSW           29	28-Mar-2014	23:00	0.6	WNW
29-Mar-2014         02:00         0.5         NE           29-Mar-2014         03:00         0.6         SW           29-Mar-2014         04:00         0.4         WSW           29-Mar-2014         05:00         0.4         SSW           29-Mar-2014         06:00         0.3         SW           29-Mar-2014         07:00         0.2         SW           29-Mar-2014         09:00         0.6         WNW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         13:00         1.4         W           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         16:00         1.5         E           29-Mar-2014         19:00         0.9         SW           29-Mar-2014         20:00         0.9         NNE           29-Ma	29-Mar-2014	00:00	0.7	WSW
29-Mar-2014         03:00         0.6         SW           29-Mar-2014         04:00         0.4         WSW           29-Mar-2014         05:00         0.4         SSW           29-Mar-2014         06:00         0.3         SW           29-Mar-2014         07:00         0.2         SW           29-Mar-2014         08:00         0.6         WNW           29-Mar-2014         09:00         0.9         SW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         14:00         1.5         WSW           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         17:00         1.3         E           29-Mar-2014         19:00         0.9         SW           29-Mar-2014         20:00         0.9         WSW           29-Mar-2014         20:00         0.9         NNE           29	29-Mar-2014	01:00	0.4	WSW
29-Mar-2014         04:00         0.4         WSW           29-Mar-2014         05:00         0.4         SSW           29-Mar-2014         06:00         0.3         SW           29-Mar-2014         07:00         0.2         SW           29-Mar-2014         08:00         0.6         WNW           29-Mar-2014         09:00         0.9         SW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         14:00         1.5         WSW           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         18:00         0.9         SW           29-Mar-2014         19:00         0.9         SW           29-Mar-2014         20:00         0.8         ENE           29-Mar-2014         20:00         0.8         ENE           2	29-Mar-2014	02:00	0.5	NE
29-Mar-2014         05:00         0.4         SSW           29-Mar-2014         06:00         0.3         SW           29-Mar-2014         07:00         0.2         SW           29-Mar-2014         08:00         0.6         WNW           29-Mar-2014         09:00         0.9         SW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         14:00         1.5         WSW           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         17:00         1.3         E           29-Mar-2014         19:00         0.9         SW           29-Mar-2014         19:00         0.9         WSW           29-Mar-2014         20:00         0.8         ENE           29-Mar-2014         20:00         0.8         ENE           29-Mar-2014         20:00         0.9         NNE           2	29-Mar-2014	03:00	0.6	SW
29-Mar-2014         06:00         0.3         SW           29-Mar-2014         07:00         0.2         SW           29-Mar-2014         08:00         0.6         WNW           29-Mar-2014         09:00         0.9         SW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         14:00         1.5         WSW           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         17:00         1.3         E           29-Mar-2014         18:00         0.9         SW           29-Mar-2014         19:00         0.9         WSW           29-Mar-2014         20:00         0.8         ENE           29-Mar-2014         21:00         0.9         NNE           29-Mar-2014         22:00         0.9         NNE           29-Mar-2014         23:00         0.5         N           30-	29-Mar-2014	04:00	0.4	WSW
29-Mar-2014         07:00         0.2         SW           29-Mar-2014         08:00         0.6         WNW           29-Mar-2014         09:00         0.9         SW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         13:00         1.4         W           29-Mar-2014         15:00         1.5         WSW           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         17:00         1.3         E           29-Mar-2014         19:00         0.9         SW           29-Mar-2014         19:00         0.9         WSW           29-Mar-2014         20:00         0.8         ENE           29-Mar-2014         21:00         0.9         NNE           29-Mar-2014         22:00         0.9         NNE           29-Mar-2014         23:00         0.5         N           30-M	29-Mar-2014	05:00	0.4	SSW
29-Mar-2014         08:00         0.6         WNW           29-Mar-2014         09:00         0.9         SW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         14:00         1.5         WSW           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         17:00         1.3         E           29-Mar-2014         18:00         0.9         SW           29-Mar-2014         19:00         0.9         WSW           29-Mar-2014         20:00         0.8         ENE           29-Mar-2014         21:00         0.9         NNE           29-Mar-2014         22:00         0.9         NNE           29-Mar-2014         23:00         0.5         N           30-Mar-2014         00:00         0.8         NNE           30-Mar-2014         00:00         0.9         NNE           3	29-Mar-2014	06:00	0.3	SW
29-Mar-2014         09:00         0.9         SW           29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         14:00         1.5         WSW           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         17:00         1.3         E           29-Mar-2014         18:00         0.9         SW           29-Mar-2014         19:00         0.9         WSW           29-Mar-2014         20:00         0.8         ENE           29-Mar-2014         21:00         0.9         NNE           29-Mar-2014         22:00         0.9         NNE           30-Mar-2014         00:00         0.8         NNE           30-Mar-2014         00:00         0.8         NNE           30-Mar-2014         00:00         0.9         NNE           30-Mar-2014         00:00         0.3         N           3	29-Mar-2014	07:00	0.2	SW
29-Mar-2014         10:00         1.8         SW           29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         14:00         1.5         WSW           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         17:00         1.3         E           29-Mar-2014         18:00         0.9         SW           29-Mar-2014         19:00         0.9         WSW           29-Mar-2014         20:00         0.8         ENE           29-Mar-2014         21:00         0.9         NNE           29-Mar-2014         22:00         0.9         NNE           29-Mar-2014         23:00         0.5         N           30-Mar-2014         00:00         0.8         NNE           30-Mar-2014         00:00         0.8         NNE           30-Mar-2014         00:00         0.9         NNE           30-Mar-2014         00:00         0.3         N           30	29-Mar-2014	08:00	0.6	WNW
29-Mar-2014         11:00         1.5         SSW           29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         14:00         1.5         WSW           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         17:00         1.3         E           29-Mar-2014         18:00         0.9         SW           29-Mar-2014         19:00         0.9         WSW           29-Mar-2014         20:00         0.8         ENE           29-Mar-2014         21:00         0.9         NNE           29-Mar-2014         22:00         0.9         NNE           29-Mar-2014         23:00         0.5         N           30-Mar-2014         00:00         0.8         NNE           30-Mar-2014         01:00         0.9         NNE           30-Mar-2014         02:00         0.3         N           30-Mar-2014         03:00         0.7         SW	29-Mar-2014	09:00	0.9	SW
29-Mar-2014         12:00         1.4         WNW           29-Mar-2014         13:00         1.4         W           29-Mar-2014         14:00         1.5         WSW           29-Mar-2014         15:00         1.6         NE           29-Mar-2014         16:00         1.5         E           29-Mar-2014         17:00         1.3         E           29-Mar-2014         18:00         0.9         SW           29-Mar-2014         19:00         0.9         WSW           29-Mar-2014         20:00         0.8         ENE           29-Mar-2014         21:00         0.9         NNE           29-Mar-2014         22:00         0.9         NNE           29-Mar-2014         23:00         0.5         N           30-Mar-2014         00:00         0.8         NNE           30-Mar-2014         01:00         0.9         NNE           30-Mar-2014         02:00         0.3         N           30-Mar-2014         03:00         0.7         SW           30-Mar-2014         04:00         0.7         SW	29-Mar-2014	10:00	1.8	SW
29-Mar-2014       13:00       1.4       W         29-Mar-2014       14:00       1.5       WSW         29-Mar-2014       15:00       1.6       NE         29-Mar-2014       16:00       1.5       E         29-Mar-2014       17:00       1.3       E         29-Mar-2014       18:00       0.9       SW         29-Mar-2014       19:00       0.9       WSW         29-Mar-2014       20:00       0.8       ENE         29-Mar-2014       21:00       0.9       ENE         29-Mar-2014       22:00       0.9       NNE         29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	11:00	1.5	SSW
29-Mar-2014       14:00       1.5       WSW         29-Mar-2014       15:00       1.6       NE         29-Mar-2014       16:00       1.5       E         29-Mar-2014       17:00       1.3       E         29-Mar-2014       18:00       0.9       SW         29-Mar-2014       19:00       0.9       WSW         29-Mar-2014       20:00       0.8       ENE         29-Mar-2014       21:00       0.9       NNE         29-Mar-2014       22:00       0.9       NNE         29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	12:00	1.4	WNW
29-Mar-2014       15:00       1.6       NE         29-Mar-2014       16:00       1.5       E         29-Mar-2014       17:00       1.3       E         29-Mar-2014       18:00       0.9       SW         29-Mar-2014       19:00       0.9       WSW         29-Mar-2014       20:00       0.8       ENE         29-Mar-2014       21:00       0.9       NNE         29-Mar-2014       22:00       0.9       NNE         29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	13:00	1.4	W
29-Mar-2014       16:00       1.5       E         29-Mar-2014       17:00       1.3       E         29-Mar-2014       18:00       0.9       SW         29-Mar-2014       19:00       0.9       WSW         29-Mar-2014       20:00       0.8       ENE         29-Mar-2014       21:00       0.9       ENE         29-Mar-2014       22:00       0.9       NNE         29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	14:00	1.5	WSW
29-Mar-2014       17:00       1.3       E         29-Mar-2014       18:00       0.9       SW         29-Mar-2014       19:00       0.9       WSW         29-Mar-2014       20:00       0.8       ENE         29-Mar-2014       21:00       0.9       ENE         29-Mar-2014       22:00       0.9       NNE         29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	15:00	1.6	NE
29-Mar-2014       18:00       0.9       SW         29-Mar-2014       19:00       0.9       WSW         29-Mar-2014       20:00       0.8       ENE         29-Mar-2014       21:00       0.9       ENE         29-Mar-2014       22:00       0.9       NNE         29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	16:00	1.5	Е
29-Mar-2014       19:00       0.9       WSW         29-Mar-2014       20:00       0.8       ENE         29-Mar-2014       21:00       0.9       ENE         29-Mar-2014       22:00       0.9       NNE         29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	17:00	1.3	Е
29-Mar-2014       20:00       0.8       ENE         29-Mar-2014       21:00       0.9       ENE         29-Mar-2014       22:00       0.9       NNE         29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	18:00	0.9	SW
29-Mar-2014       21:00       0.9       ENE         29-Mar-2014       22:00       0.9       NNE         29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	19:00	0.9	WSW
29-Mar-2014       22:00       0.9       NNE         29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	20:00	0.8	ENE
29-Mar-2014       23:00       0.5       N         30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	21:00	0.9	ENE
30-Mar-2014       00:00       0.8       NNE         30-Mar-2014       01:00       0.9       NNE         30-Mar-2014       02:00       0.3       N         30-Mar-2014       03:00       0.7       SW         30-Mar-2014       04:00       0.7       SW	29-Mar-2014	22:00	0.9	NNE
30-Mar-2014     01:00     0.9     NNE       30-Mar-2014     02:00     0.3     N       30-Mar-2014     03:00     0.7     SW       30-Mar-2014     04:00     0.7     SW	29-Mar-2014	23:00	0.5	N
30-Mar-2014     02:00     0.3     N       30-Mar-2014     03:00     0.7     SW       30-Mar-2014     04:00     0.7     SW	30-Mar-2014	00:00	0.8	NNE
30-Mar-2014 03:00 0.7 SW 30-Mar-2014 04:00 0.7 SW	30-Mar-2014	01:00	0.9	NNE
30-Mar-2014 03:00 0.7 SW 30-Mar-2014 04:00 0.7 SW	30-Mar-2014	02:00	0.3	N
30-Mar-2014 04:00 0.7 SW				
	30-Mar-2014	04:00	0.7	SW
				SW

30-Mar-2014	06:00	0.7	SW
30-Mar-2014	07:00	0.8	SW
30-Mar-2014	08:00	1.2	SW
30-Mar-2014	09:00	1.6	SW
30-Mar-2014	10:00	2.2	WNW
30-Mar-2014	11:00	3	WSW
30-Mar-2014	12:00	3	WSW
30-Mar-2014	13:00	2.6	W
30-Mar-2014	14:00	2.6	W
30-Mar-2014	15:00	2.5	SSW
30-Mar-2014	16:00	2.1	WNW
30-Mar-2014		1.7	ESE
30-Mar-2014	17:00	1.7	SW
	18:00		
30-Mar-2014	19:00	1.6	SE
30-Mar-2014	20:00	1.2	E
30-Mar-2014	21:00	1	ENE
30-Mar-2014	22:00	1.1	NNE _
30-Mar-2014	23:00	1.2	E
31-Mar-2014	00:00	1.7	NE
31-Mar-2014	01:00	1.7	ENE
31-Mar-2014	02:00	1.7	SW
31-Mar-2014	03:00	1.8	SSE
31-Mar-2014	04:00	1.7	SE
31-Mar-2014	05:00	1.4	WSW
31-Mar-2014	06:00	1.9	SSW
31-Mar-2014	07:00	2	WNW
31-Mar-2014	08:00	2.3	WSW
31-Mar-2014	09:00	2.6	W
31-Mar-2014	10:00	2.9	SSW
31-Mar-2014	11:00	2.3	S
31-Mar-2014	12:00	2.9	ENE
31-Mar-2014	13:00	2.8	W
31-Mar-2014	14:00	2.4	WNW
31-Mar-2014	15:00	2.3	WNW
31-Mar-2014	16:00	2.3	WNW
31-Mar-2014			
01 Wai 2014	17:00	2.6	SW

31-Mar-2014	19:00	2.4	NNE
31-Mar-2014	20:00	2	W
31-Mar-2014	21:00	2.2	WSW
31-Mar-2014	22:00	2.3	WNW
31-Mar-2014	23:00	2.1	W

#### APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

# Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities Impact Air and Noise Monitoring Schedule for March 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Mar
2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar
	1 hr TSP X3				1 hr TSP X3	
	Noise (M3 and M4)				THE TOT AS	
			Noise			
			(M1 and M2)	24 hr TSP		
				24 III 131		
9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar
				1 hr TSP X3		
				Noise (M3 and M4)		
			Noise	,		
			(M1 and M2)			
			24 hr TSP			
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar
			1 h., TCD V2			
			1 hr TSP X3 Noise (M3 and M4)			
		Noise	1(0100 (1120 0110 1111)			
		(M1 and M2)				
		24 hr TSP				
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar
		4.1				
		1 hr TSP X3 Noise (M3 and M4)				
		140156 (1413 and 1414)		Noise		
				(M1 and M2)		
	24 hr TSP				24 hr TSP	
30-Mar	31-Mar					
	1 hr TSP X3					
	Noise (M4)					
	nonitoring at Station M3 would be con-					

Remarks: \*The construction nosie monitoring at Station M3 would be conducted at Rooftop of Cognitio College from 28 August 2013 onwards.

### **Air Quality Monitoring Station**

AM1(B) -Boundary of KTD/Outside Contractor's site office of Contract KL/2008/09 AM2 - Lee Kau Yan Memorial School

### **Noise Monitoring Station**

M1 - Buddhist Chi King Primary School

M2 - S.K.H. Kowloon Bay Kei Lok Primary School

M3 - Cognitio College

M4 - Lee Kau Yan Memorial School

# Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities **Tentative Impact Air and Noise Monitoring Schedule for April 2014**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	•	1-Apr	2-A <sub>1</sub>			
					1 hr TSP X3	
			N	N		
			Noise	Noise		
			(M1, M2, M9)	(M3) 24 hr TSP		
				24 III 131		
6-Apr	7-Apr	8-Apr	9-A <sub>J</sub>	or 10-Apr	11-Apr	12-Apr
				1 hr TSP X3		
			Noise	Noise		
			(M1, M2, M9)	(M3, M4)		
				` ' '		
			24 hr TSP			
13-Apr	14-Apr	15-Apr	16-A <sub>I</sub>	or 17-Apr	18-Apr	19-Apr
13-Арг	14-Api	13-Арі	10-A	717-Apr	16-Арг	19-Арг
			1 hr TSP X3			
		Noise	Noise			
		(M1, M2, M9)	(M3, M4)			
		24 hr TSP		24 hr TSP		
20-Apr	21-Apr	22-Apr	23-A <sub>I</sub>	pr 24-Apr	25-Apr	26-Apr
		4.1. #65.776				
		1 hr TSP X3		N		
		Noise		Noise		
		(M3, M4)		(M1, M2, M9)		
			24 hr TSP			
27-Apr	28-Apr	29-Apr	30-A <sub>I</sub>	or.		
27 1491	20 7101	25 Tipi	20 11			
	1 hr TSP X3					
	Noise					
	(M3, M4)					
		24 hr TSP				
	o unforação o circumstanças (advarça w					

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

### **Air Quality Monitoring Station**

AM1(B) -Boundary of KTD/Outside Contractor's site office of Contract KL/2008/09 AM2 - Lee Kau Yan Memorial School

### **Noise Monitoring Station**

M1 - Buddhist Chi King Primary School

M2 - S.K.H. Kowloon Bay Kei Lok Primary School M3 - Cognitio College

M4 - Lee Kau Yan Memorial School

M9 - Tak Long Estate

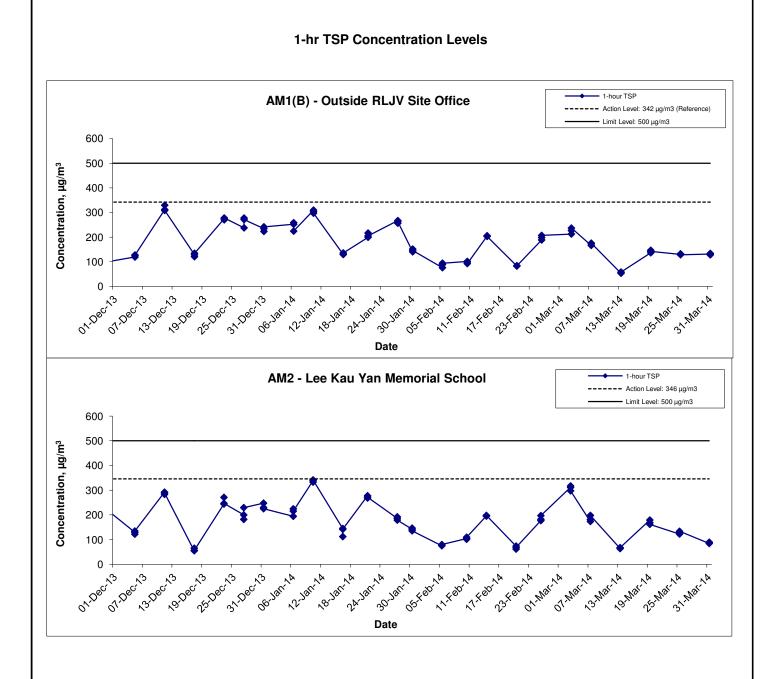
APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

# **Appendix E - 1-hour TSP Monitoring Results**

Location AM1(E	3) - Outside F	RLJV Site Office	
Date	Time	Weather	Particulate Concentration ( μg/m <sup>3</sup> )
3-Mar-14	13:00	Cloudy	212.4
3-Mar-14	14:00	Cloudy	226.6
3-Mar-14	15:00	Cloudy	236.6
7-Mar-14	9:00	Cloudy	166.2
7-Mar-14	10:00	Cloudy	173.0
7-Mar-14	11:00	Cloudy	175.4
13-Mar-14	8:15	Sunny	53.1
13-Mar-14	9:15	Sunny	56.4
13-Mar-14	10:15	Sunny	58.1
19-Mar-14	13:25	Cloudy	136.3
19-Mar-14	14:25	Cloudy	146.5
19-Mar-14	15:25	Cloudy	142.1
25-Mar-14	13:00	Sunny	129.6
25-Mar-14	14:00	Sunny	132.0
25-Mar-14	15:00	Sunny	128.3
31-Mar-14	9:00	Rainy	131.3
31-Mar-14	10:00	Rainy	127.9
31-Mar-14	11:00	Rainy	133.7
		Average	142.5
		Maximum	236.6
		Minimum	53.1

Location AM2 -	Lee Kau Yan	Memorial School	
Date	Time	Weather	Particulate Concentration ( μg/m³)
3-Mar-14	13:00	Cloudy	311.3
3-Mar-14	14:00	Cloudy	317.2
3-Mar-14	15:00	Cloudy	297.5
7-Mar-14	13:00	Cloudy	173.6
7-Mar-14	14:00	Cloudy	181.3
7-Mar-14	15:00	Cloudy	198.0
13-Mar-14	13:00	Cloudy	63.8
13-Mar-14	14:00	Cloudy	66.6
13-Mar-14	15:00	Cloudy	67.5
19-Mar-14	8:55	Cloudy	179.2
19-Mar-14	9:55	Cloudy	168.6
19-Mar-14	10:55	Cloudy	161.9
25-Mar-14	13:00	Sunny	122.6
25-Mar-14	14:00	Sunny	128.1
25-Mar-14	15:00	Sunny	133.7
31-Mar-14	9:00	Rainy	84.4
31-Mar-14	10:00	Rainy	87.3
31-Mar-14	11:00	Rainy	89.5
		Average	157.3
		Maximum	317.2
		Minimum	63.8

MA11038/App E - 1hr TSP Cinotech



Title Contract No. KLN/2013/16
Environmental Monitoring Works for Kai Tak Development
Graphical Presentation of 1-hour TSP Monitoring Results

 Scale
 Project No.
 MA14008

 Date
 Mar 14
 Appendix
 E



APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

# **Appendix F - 24-hour TSP Monitoring Results**

### Location AM1(B) - Outside RLJV site office (KL/2012/02)

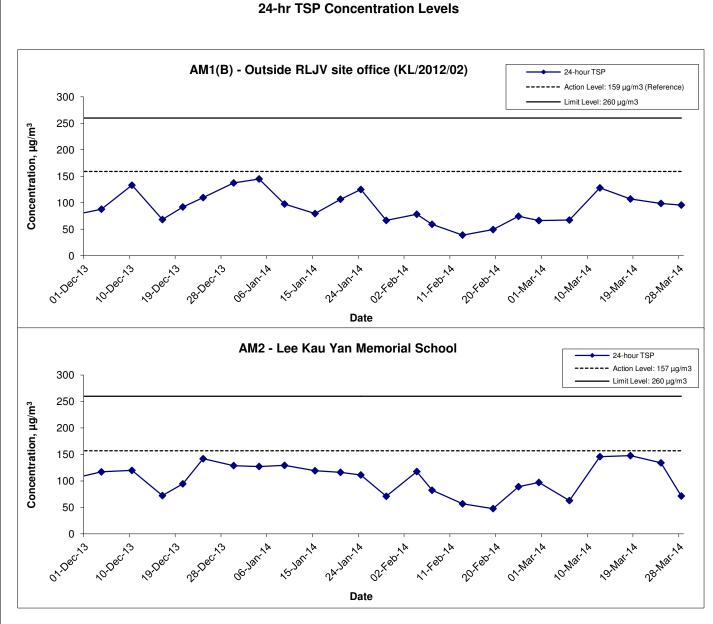
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )
6-Mar-14	Cloudy	288.3	767.2	3.8810	3.9998	0.1188	2908.8	2932.8	24.0	1.23	1.23	1.23	1766.7	67.2
12-Mar-14	Cloudy	290.1	764.8	3.7106	3.9358	0.2252	2932.8	2956.8	24.0	1.22	1.22	1.22	1758.9	128.0
18-Mar-14	Cloudy	292.3	766.7	3.7399	3.9278	0.1879	2956.8	2980.8	24.0	1.22	1.22	1.22	1754.6	107.1
24-Mar-14	Sunny	292.6	768.8	3.8795	4.0527	0.1732	2980.8	3004.8	24.0	1.22	1.22	1.22	1756.0	98.6
28-Mar-14	Cloudy	294.6	762.6	3.6422	3.8088	0.1666	3004.8	3028.8	24.0	1.21	1.21	1.21	1743.5	95.6
													Min	67.2
													Max	128.0
													Average	99.3

### **Location AM2 - Lee Kau Yan Memorial School**

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )
6-Mar-14	Cloudy	288.3	767.2	3.8890	3.9998	0.1108	12940.7	12964.7	24.0	1.22	1.22	1.22	1760.0	63.0
12-Mar-14	Cloudy	290.1	764.8	3.7042	3.9597	0.2555	12964.7	12988.7	24.0	1.22	1.22	1.22	1752.6	145.8
18-Mar-14	Cloudy	292.3	766.7	3.6014	3.8598	0.2584	12988.7	13012.7	24.0	1.21	1.21	1.21	1748.4	147.8
24-Mar-14	Sunny	292.6	768.8	3.8853	4.1201	0.2348	13012.7	13036.7	24.0	1.22	1.21	1.22	1749.8	134.2
28-Mar-14	Cloudy	294.6	762.6	3.7390	3.8633	0.1243	13036.7	13060.7	24.0	1.21	1.21	1.21	1737.8	71.5
													Min	63.0
													Max	147.8
													Average	112.4

MA11038/App F - 24hr TSP





Title Contract No. KL/2010/03 Scale Project Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for N.T.S No. MA11038 residential development and government, institution or community facilities Date **Appendix** Graphical Presentation of 24-hour TSP Monitoring Results Mar 14

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

# **Appendix G - Noise Monitoring Results**

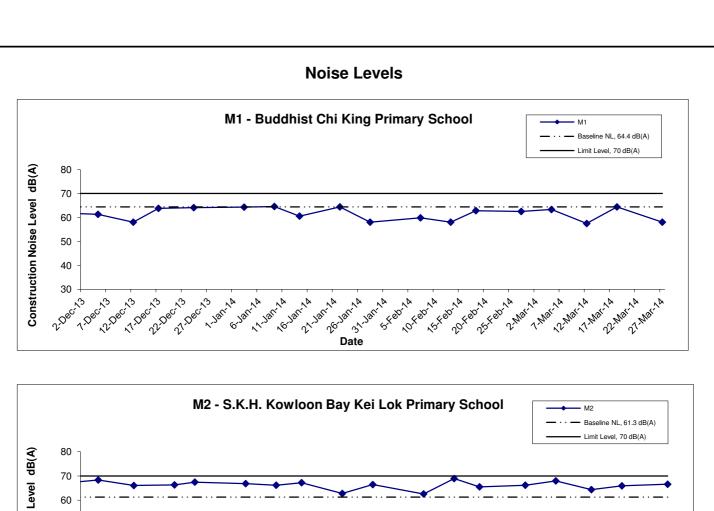
Location M1 -	Location M1 - Buddhist Chi King Primary School											
					Uni	t: dB (A) (30-min)						
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level					
			L <sub>eq</sub>	L <sub>10</sub>	L 90	L <sub>eq</sub>	L <sub>eq</sub>					
5-Mar-14	13:50	Cloudy	66.9	68.9	64.8		63.3≤					
12-Mar-14	13:40	Cloudy	65.2	67.6	61.9	64.4	57.5 <sup>—</sup>					
18-Mar-14	11:30	Sunny	64.4	67.1	61.2	04.4	64.4 Measured Baseline					
27-Mar-14	11:29	Sunny	65.3	67.3	63.1		58.0					

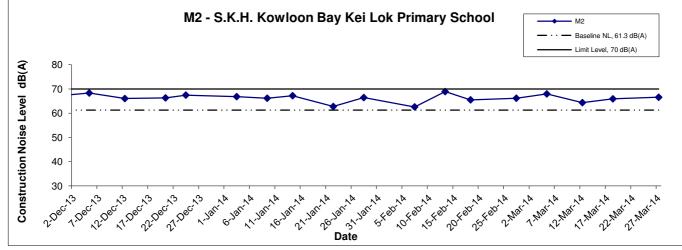
Location M2 -	S.K.H. Kow	loon Bay Kei	Lok Primary	/ School	Location M2 - S.K.H. Kowloon Bay Kei Lok Primary School												
				Unit: dB (A) (30-min)													
Date	Time	Weather	Meas	Measured Noise Level Baseline Level Constructi													
			L <sub>eq</sub>	L <sub>10</sub>	L 90	L <sub>eq</sub>	L <sub>eq</sub>										
5-Mar-14	13:00	Cloudy	68.8	70.6	66.3		67.9										
12-Mar-14	14:36	Cloudy	66.1	68.4	62.5	61.3	64.4										
18-Mar-14	10:40	Sunny	67.2	68.8	65.2	01.3	65.9										
27-Mar-14	10:50	Sunny	67.7	69.3	65.2		66.6										

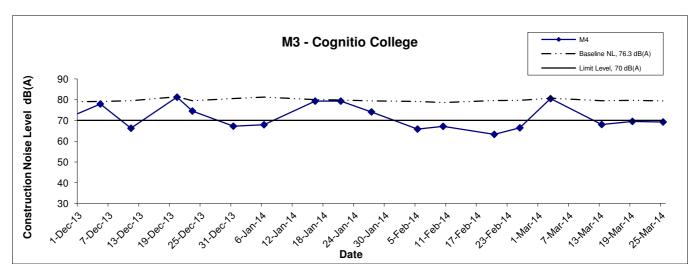
Location M3 -	Location M3 - Cognitio College												
					Uni	t: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise	Level	Background Noise	Construction Noise Level						
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L ≦ eq						
3-Mar-14	15:00	Cloudy	80.5	82.4	78.3	80.7	80.5 Measured Background						
13-Mar-14	15:10	Cloudy	79.8	81.2	77.7	79.5	68.0						
19-Mar-14	15:00	Cloudy	80.1	81.6	78.1	79.7	69.5						
25-Mar-14	15:00	Sunny	79.8	81.9	78.2	79.4	69.2						

Location M4 -	Location M4 - Lee Kau Yan Memorial School												
					Uni	t: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level						
			L <sub>eq</sub>	L <sub>10</sub>	L 90	L <sub>eq</sub>	L eq ≤						
3-Mar-14	13:00	Cloudy	75.7	78.2	71.6		75.7 Measured $\leq$ Baseline						
13-Mar-14	13:05	Cloudy	74.1	75.6	72.1		74.1 Measured $\leq$ Baseline						
19-Mar-14	8:55	Cloudy	73.2	74.5	70.0	76.7	73.2 Measured $\leq$ Baseline						
25-Mar-14	13:00	Sunny	74.9	76.4	72.9		74.9 Measured Baseline						
31-Mar-14	14:00	Cloudy	67.1	70.0	60.2		67.1 Measured Baseline						

MA11038/App G - Noise Cinotech







Remark: The measurement of Background Noise at M3 was started from 9 September 2013 for compliance checking of Noise Action/Limit Level.

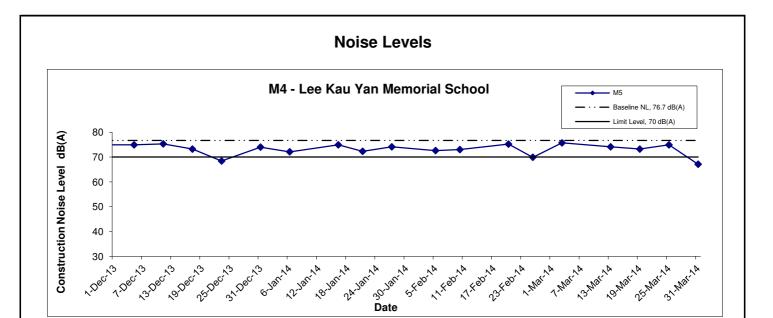
Title Contract No. KL/2010/03
Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities

Graphical Presentation of Construction Noise Monitoring Results

Scale Project
No. MA11038

Date Mar 14

Appendix
G



Contract No. KL/2010/03 Title Scale Project Kai Tak Development - Stage 2 infrastructure works at north apron area of Kai Tak Airport for residential development and government, institution or community facilities MA11038 N.T.S Date Appendix Graphical Presentation of Construction Noise Monitoring

Results

Mar 14 G

#### APPENDIX H SUMMARY OF EXCEEDANCE

# Kai Tak Development – Stage 2 Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities

### Appendix H – Summary of Exceedance

Exceedance Report for Contract No. KL/2010/03

- (A) Exceedance Report for Air Quality (NIL in the reporting month)
- (B) Exceedance Report for Construction Noise (NIL in the reporting month)
- (C) Exceedance Report for Landscape and Visual (NIL in the reporting month)

#### APPENDIX I SITE AUDIT SUMMARY

# Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities, Kai Tak Development – Stage 2

Checklist Reference Number	140305
Date	5 March 2014
Time	09:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
140305-O01	Dusty stockpile should be covered by impervious material to prevent dust generation.  (Road L5)	C 7
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow-up on previous site audit session (Ref. No. 140226), all environmental deficiencies have been rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Edmond Put	Jus?	5 March 2014
Checked by	Dr. Priscilla Choy	WI	5 March 2014

# Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities, Kai Tak Development – Stage 2

Checklist Reference Number	140313	
Date	13 March 2014	
Time	14:30 – 17:30	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
140313-O01	• Dusty stockpile should be covered with impervious material to prevent dust generation. (Road Outside PS1A, L4)	C 7
140313-O02	Unpaved haul road should be watered regularly to prevent dust generation (Road L4)	C 5
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow-up on previous site audit session (Ref. No. 140305), outstanding item 140305-O01 was remarked as 140313-O01, review shall be carried out during next site inspection.	

	Name	Signature	Date
Recorded by	Edmond Put	Lus	13 March 2014
Checked by	Dr. Priscilla Choy	WF_	13 March 2014

# Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities, Kai Tak Development – Stage 2

Checklist Reference Number	140319
Date	19 March 2014
Time	09:30 - 12:00

		Related
Ref. No.	Non-Compliance	Item No.
_	None identified	<u>-</u>
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
140319-001	Dust generating activity should be watered. (Road D2)	C 12
140319-O02	Dusty stockpile should be covered by impervious materials (Near PS1A)	C 7
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow-up on previous site audit session (Ref. No. 140313), all environmental deficiencies have been rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Edmond Put	L	20 March 2014
Checked by	Dr. Priscilla Choy	NF	20 March 2014

# Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities, Kai Tak Development – Stage 2

Checklist Reference Number	140326	
Date	26 March 2014	
Time	13:30 – 15:30	

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
140326-O01	Stock of cement should be covered by impervious materials. (PS1A)	C 18
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
140326-R01	Construction waste should be cleared regularly. (PS1A)	E 4ii
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow-up on previous site audit session (Ref. No. 140319), all environmental deficiencies have been rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Edmond Put	Sto	26 March 2014
Checked by	Dr. Priscilla Choy	WI	26 March 2014

#### APPENDIX J EVENT ACTION PLANS

# **Appendix J - Event Action Plans**

# Event/Action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being	Identify source and investigate the	Check monitoring data submitted	Notify Contractor.	1. Rectify any unacceptable practice;
exceeded by	causes of exceedance;	by ET;		2. Amend working methods if
one sampling	2. Inform Contactor, IEC and ER;	2. Check Contractor's working		appropriate.
	3. Repeat measurement to confirm finding.	method.		
Action Level being	Identify source and investigate the	Check monitoring data submitted	Confirm receipt of notification	1. Discuss with ET and IEC on proper
exceeded by	causes of exceedance;	by ET;	of exceedance in writing;	remedial actions;
two or more	2. Inform Contractor, IEC and ER;	2. Check Contractor's working	2. Notify Contractor;	2. Submit proposals for remedial
consecutive	3. Increase monitoring frequency to daily;	method;	3. In consolidation with the IEC,	actions to ER and IEC within three
sampling	4. Discuss with IEC and Contractor on	3. Discuss with ET and Contractor on	agree with the Contractor on the	working days of notification;
	remedial actions required;	possible remedial measures;	remedial measures to be	3. Implement the agreed proposals;
	5. Assess the effectiveness of	4. Advise the ER on the effectiveness	implemented;	4. Amend proposal if appropriate.
	Contractor's remedial actions;	of the proposed remedial measures.	4. Supervise implementation of	
	6. If exceedance continues, arrange		remedial measures;	
	meeting with IEC and ER;		5. Conduct meeting with ET and	
	7. If exceedance stops, cease additional		IEC if exceedance continues.	
	monitoring.			
Limit Level being	Identify source and investigate the	Check monitoring data submitted	Confirm receipt of notification	1. Take immediate action to avoid
exceeded by	causes of exceedance;	by ET;	of exceedance in writing;	further exceedance;
one sampling	2. Inform Contractor, IEC, ER, and EPD;	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET and IEC on proper
	3. Repeat measurement to confirm finding;	method;	3. In consolidation with the IEC,	remedial actions;
	4. Assess effectiveness of	3. Discuss with ET and Contractor on	agree with the Contractor on the	3. Submit proposals for remedial
	Contractor's remedial actions and keep	possible remedial measures;	remedial measures to be	actions to ER and IEC within three

	EPD, IEC and ER informed of	4. Advise the ER on the	implemented;	working days of notification;
	the results.	effectiveness of the proposed	4. Supervise implementation of	4. Implement the agreed proposals.
		remedial measures.	remedial measures;	
			5. Conduct meeting with ET and	
			IEC if exceedance continues.	
Limit Level being	1. Notify IEC, ER, Contractor and	1. Check monitoring data submitted	Confirm receipt of notification	1. Take immediate action to avoid
exceeded by	EPD;	by ET;	of exceedance in writing;	further exceedance;
two or more	2. Repeat measurement to confirm	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET, ER and IEC on
consecutive	findings;	method;	3. In consolidation with the IEC,	proper remedial actions;
sampling	3. Carry out analysis of Contractor's	3. Discuss amongst ER, ET, and	agree with the Contractor on the	3. Submit proposals for remedial
	working procedures to identify source and	Contractor on the potential remedial	remedial measures to be	actions to IEC within three working
	investigate the causes of exceedance;	actions;	implemented;	days of notification;
	4. Increase monitoring frequency to	4. Review Contractor's remedial	4. Supervise implementation of	4. Implement the agreed proposals;
	daily;	actions whenever necessary to	remedial measures;	5. Submit further remedial actions if
	5. Arrange meeting with IEC, ER	assure their effectiveness and	5. If exceedance continues,	problem still not under control;
	and Contractor to discuss the	advise the ER accordingly.	consider stopping the Contractor	6. Stop the relevant portion of works
	remedial actions to be taken;		to continue working on that	as instructed by the ER until the
	6. Assess effectiveness of		portion of work which causes the	exceedance is abated.
	Contractor's remedial actions and		exceedance until the	
	keep EPD, IEC and ER informed		exceedance is abated.	
	of the results;			
	7. If exceedance stops, cease additional			
	monitoring.			

### Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level	1. Notify ER, IEC and Contractor;	Review the investigation	Confirm receipt of	1. Submit noise mitigation
being	2. Carry out investigation;	results submitted by the ET;	notification of failure in	proposals to IEC and ER;
exceeded	3. Report the results of investigation	2. Review the proposed remedial	writing;	2. Implement noise mitigation
	to the IEC, ER and Contractor;	measures by the Contractor and	2. Notify Contractor;	proposals.
	4. Discuss with the IEC and	advise the ER accordingly;	3. In consolidation with the	(The above actions should be
	Contractor on remedial measures	3. Advise the ER on the	IEC, agree with the	taken within 2 working days after
	required;	effectiveness of the proposed	Contractor on the remedial	the exceedance is identified)
	5. Increase monitoring frequency to	remedial measures.	measures to be implemented;	
	check mitigation effectiveness.	(The above actions should be	4. Supervise the	
	(The above actions should be taken	taken within 2 working days after	implementation of remedial	
	within 2 working days after the	the exceedance is identified)	measures.	
	exceedance is identified)		(The above actions should be	
			taken within 2 working days	
			after the exceedance is	
			identified)	
Limit Level	1. Inform IEC, ER, Contractor and	1. Discuss amongst ER, ET, and	Confirm receipt of	1. Take immediate action to
being	EPD;	Contractor on the potential	notification of failure in	avoid further exceedance;
exceeded	2. Repeat measurements to confirm	remedial actions;	writing;	2. Submit proposals for remedial
	findings;	2. Review Contractor's remedial	2. Notify Contractor;	actions to IEC and ER within 3
	3. Increase monitoring frequency;	actions whenever necessary to	3. In consolidation with the	working days of notification;
	4. Identify source and investigate the	assure their effectiveness and	IEC, agree with the	3. Implement the agreed
	cause of exceedance;	advise the ER accordingly.	Contractor on the remedial	proposals;

5. Carry out analysis of Contractor's	(The above actions should be	measures to be implemented;	4. Submit further proposal if
working procedures;	taken within 2 working days after	4. Supervise the	problem still not under control;
6. Discuss with the IEC, Contractor	the exceedance is identified)	implementation of remedial	5. Stop the relevant portion of
and ER on remedial measures		measures;	works as instructed by the ER
required;		5. If exceedance continues,	until the exceedance is abated.
7. Assess effectiveness of		consider stopping the	(The above actions should be
Contractor's remedial actions and		Contractor to continue	taken within 2 working days after
keep IEC, EPD and ER informed of		working on that portion of	the exceedance is identified)
the results;		work which causes the	
8. If exceedance stops, cease		exceedance until the	
additional monitoring.		exceedance is abated.	
(The above actions should be taken		(The above actions should be	
within 2 working days after the		taken within 2 working days	
exceedance is identified)		after the exceedance is	
		identified)	

### Event/Action Plan for Landscape and Visual

EVENT			ACTION	
ACTION LEVEL	ET	IEC	ER	CONTRACTOR
Design Check	1. Check final	1. Check report.	Undertake remedial design if necessary	
	design conforms to	2. Recommend		
	the requirements	remedial design if		
	of EP and prepare	necessary		
	report.			
Non-conformity on one occasion	1. Identify Source	1. Check report	Notify Contractor	Amend working methods
	2. Inform IEC and	2. Check Contractor's	2. Ensure remedial measures are properly	2. Rectify damage and
	ER	working method	implemented	undertake any necessary
	3. Discuss remedial	3. Discuss with ET and		replacement
	actions with IEC,	Contractor on possible		
	ER and Contractor	remedial measures		
	4. Monitor remedial	4. Advise ER on		
	actions until	effectiveness of		
	rectification has	proposed remedial		
	been completed	measures.		
		5. Check implementation		
		of remedial measures.		
Repeated Non-conformity	1. Identify Source	1. Check monitoring	1. Notify Contractor	Amend working methods
	Inform IEC and	report	2. Ensure remedial measures are properly	2. Rectify damage and

ER	2. Check Contractor's	implemented	undertake any necessary
2. Increase	working method		replacement
monitoring	3. Discuss with ET and		
frequency	Contractor on possible		
3. Discuss remedial	remedial measures		
actions with IEC,	4. Advise ER on		
ER and Contractor	effectiveness of		
4. Monitor remedial	proposed remedial		
actions until	measures		
rectification has	5. Supervise		
been completed	implementation of		
5. If non-conformity	remedial measures.		
stops, cease			
additional			
monitoring			

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Appendix K - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

Types of Impacts	Mitigation Measures	Status
	8 times daily watering of the work site with active dust emitting activities.	*
	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.	
	<ul> <li>Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.</li> </ul>	*
	<ul> <li>Misting for the dusty material should be carried out before being loaded into the vehicle.</li> <li>Any vehicle with an open load carrying area should</li> </ul>	٨
	have properly fitted side and tail boards.	^
Construction Dust	<ul> <li>Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin.</li> </ul>	*
	<ul> <li>The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation.</li> </ul>	^
	<ul> <li>The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. On- site unpaved roads should be compacted and kept free</li> </ul>	^
	<ul> <li>of lose materials.</li> <li>Vehicle washing facilities should be provided at every</li> </ul>	^

 vehicle exit point.	
<ul> <li>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 hardcores.</li> </ul>	۸
<ul> <li>Every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet.</li> </ul>	^
<ul> <li>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 three sides.</li> </ul>	٨
<ul> <li>Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.</li> </ul>	۸
• DWFI compound for JVBC: a DWFI compound is proposed at the downstream of JVC to contain pollution in drainage systems entering the KTAC and KTTS by interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the compounds to prevent any accumulation of sediment within the downstream section of JVBC and hence fully mitigate the potential odour emissions from the headspace of JVBC near the existing discharge locations. The odour generating operations within the proposed desilting compound will be fully enclosed and the odorous air will be collected and treated by high	N/A

efficiency deodorizers before discharge to the atmosphere.  Desilting compound for KTN: Two desilting compounds are proposed for KTN (at Site 1D6 and Site 1P1) to contain pollution in drainage systems entering the KTAC and KTTS by interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the compounds to prevent any accumulation of sediment within the downstream section of KTN and hence fully mitigate the potential odour emissions from the headspace of KTN near the existing discharge locations. The odour generating operations within the proposed desilting compound will be fully enclosed and the odorous air will be collected and treated by high efficiency deodorizers before	N/A
Decking or reconstruction of KTN within apron area: it is proposed to deck the KTN or reconstruct the KTN within the former Apron area into Kai Tak River from the south of Road D1 to the north of Road D2 along the existing alignment of KTN. The Kai Tak River will compose of a number of channels flowing with non-odorous fresh water and THEES effluent. The channel flowing with THEES effluent will be designed with the width of water surface of not more than 16m.	N/A

Localised maintenance dredging: Localised maintenance dredging should be conducted to provide water depth of not less than 3.5m over the whole of KTAC and KTTS. With reference to the water depth data recorded during the odour survey, only some of the areas in the northern part of KTAC (i.e. to the north of taxiway bridge) including the area near the northern edge of KTAC, the area near western bank of KTAC, and the area near the JVC discharge have water depths shallower than 3.5m. The area involved would be about 40% of the northern KTAC and the dredging depth required would be from about 2.7m to less than 1m. The maintenance dredging to be	^
less than 1m. The maintenance dredging to be carried out prior to the occupation of any new development in the immediate vicinity of KTAC to avoid potential localized odour impacts at the future ASRs during the maintenance dredging operation.  Improvement of water circulation in KTAC and KTTS: 600m gap opening at the northern part of the former Kai Tak runway, the water circulation in KTAC and KTTS would be substantially improved. Together with the improvement in water circulation, the DO level in KTAC and KTTS would also be increased.  In-situ sediment treatment by bioremediation: Bioremediation would be applied to the entire KTAC and KTTS.	N/A N/A

	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump	^
	<ul> <li>Good Site Practice:</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.</li> </ul>	^ N/A(1)
	<ul> <li>Mobile plant, if any, should be sited as far away from NSRs as possible.</li> <li>Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.</li> </ul>	^
Construction Noise	<ul> <li>Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.</li> <li>Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	^
	Scheduling of Construction Works during School Examination Period	^
	(i) Provision of low noise surfacing in a section of Road L2; and	N/A
	(ii) Provision of structural fins	N/A

The state of the s	(i) Avoid the sensitive façade of class room facing Road L2 and L4; and	N/A
	(ii) Provision of low noise surfacing in a section of Road L2 & L4	N/A
	i) Provision of low noise surfacing in a section of Road L4 pefore occupation of Site 1I1; and	N/A
	ii) Setback of building about 5m from site boundary.	N/A
	Setback of building about 35m to the northwest direction at 1L3 and 5m at Site 1L2.	N/A
	<ul> <li>avoid any sensitive façades with openable window facing the existing Kowloon City Road network;</li> <li>and</li> </ul>	N/A
	ii) for the sensitive facades facing the To Kwa Wan direction, either setback the facades by about 5m to the northeast direction or do not provide the facades with openable window.	N/A
	(i) avoid any sensitive facades with openable window facing the existing To Kwa Wan Road or (ii) provision of 17.5m high noise tolerant building	N/A
	fronting To Kwa Wan Road and restrict the height of the residential block(s) located at less than 55m away from To Kwa Wan Road to no more than 25m above ground.  i) avoid any sensitive facades with openable window	N/A
	facing the slip road connecting Prince Edward Road East and San Po Kong or other alternative mitigation measures and at-source mitigation measures for the surrounding new local roads to minimise the potential traffic noise impacts from the slip road	N/A

provided with sile (i) SPS (ii) ESS	entilation Shaft	N/A N/A N/A N/A
Installation of measures	retractable roof or other equivalent	N/A

	<ul> <li>The following mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including:</li> <li>Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply;</li> <li>Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps;</li> <li>An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and</li> <li>For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided so that swift actions could be taken in case of malfunction of</li> </ul>	N/A N/A N/A
Construction Water Quality	unmanned facilities.  Construction Phase Marine-based Construction  Capital and Maintenance Dredging for Cruise Terminal	
	Mitigation measures for construction of the proposed cruise terminal should follow those recommended in the approved EIA for CT Dredging.	۸

Fireboat Berth, Runway Opening and Road T2	
Fireboat Bertif, nuriway Opening and hoad 12	
Silt curtains should be deployed around the close grab dredger to minimize release of sediment and other contaminants for any dredging and filling activities in open	۸
water. Dredging at and near the seawall area for construction of the public landing steps cum fireboat berth should be carried out at a maximum production rate of 1,000m <sup>3</sup> per day using one grab dredger.	۸
The proposed construction method for runway opening should adopt an approach where the existing seawall at the runway will not be removed until completion of all excavation and dredging works for demolition of the runway. Thus, excavation of bulk fill and majority of the dredging works will be carried out behind the existing seawall, and the sediment plume can be effectively contained within the works area. As there is likely some accumulation of sediments alongside the runway, there will be a need to dredge the existing seabed after completion of all the demolition works. Dredging alongside the 600m opening should be carried out at a maximum production rate of 2,000m <sup>3</sup> per day using one grab dredger.	۸
Dredging for Road T2 should be conducted at a maximum rate of 8,000m³ per day (using four grab dredgers) whereas the sand filling should be conducted at a maximum rate of 2,000m³ per day (using two grab dredgers).	N/A (1)
Silt screens shall be applied to seawater intakes at WSD seawater intake.	۸

Land-based Construction	
Construction Runoff	
Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate	۸
mitigation measures which include:	٨
<ul> <li>use of sediment traps</li> <li>adequate maintenance of drainage systems to prevent</li> </ul>	*
flooding and overflow	·
Construction site should be provided with adequately designed perimeter channel and pre-treatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	

Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks Λ have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m<sup>3</sup> capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped. Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m<sup>3</sup> Λ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.

Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events. Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and Λ grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain. All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be Λ provided at every site exit, and wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. Drainage It is recommended that on-site drainage system should be installed prior to the commencement of other construction Λ activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There should be no direct discharge of effluent from the site into the sea.

All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required. All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ. Sewage Effluent Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets should be provided by a Λ licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices. Stormwater Discharges Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes

D-b-2	
In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management is optimised and that disposal of any solid materials. litter or wastes to marine waters does not occur	۸
Construction Works at or in Close Proximity of Storm Culvert or Seafront  The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.	۸
The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm culvert / nullah.	۸
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.	۸
Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.	۸
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.	۸
Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	۸

Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.	٨
Construction effluent, site run-off and sewage should be properly collected and/or treated.	۸
Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality.	۸
Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of construction materials.	۸
Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	۸
Supervisory staff should be assigned to station on site to closely supervise and monitor the works	٨
Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation.	۸

Good Site Practices	
It is not anticipated that adverse waste management	
related impacts would arise, provided that good site	
practices are adhered to. Recommendations for good site	
practices during construction activities include:	
<ul> <li>Nomination of an approved person, such as a site</li> </ul>	
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	
<ul> <li>Training of site personnel in proper waste</li> </ul>	
management and chemical waste handling	^
procedures	
<ul> <li>Provision of sufficient waste disposal points and</li> </ul>	
regular collection for disposal	_
<ul> <li>Appropriate measures to minimise windblown litter</li> </ul>	^
and dust during transportation of waste by either	
covering trucks or by transporting wastes in	^
enclosed containers	
<ul> <li>A recording system for the amount of wastes</li> </ul>	
generated, recycled and disposed of (including the	^
disposal sites)	

Waste Reduction Measures	
Good management and control can prevent the	
generation of a significant amount of waste. Waste	
reduction is best achieved at the planning and design	
stage, as well as by ensuring the implementation of good	
site practices. Recommendations to achieve waste	
1940 C 1 M	
reduction include:	
<ul> <li>Sort C&amp;D waste from demolition of the remaining</li> </ul>	^
structures to recover recyclable portions such as	
metals	
<ul> <li>Segregation and storage of different types of</li> </ul>	^
waste in different containers, skips or stockpiles to	
enhance reuse or recycling of materials and their	
proper disposal	
<ul> <li>Encourage collection of aluminium cans, PET</li> </ul>	
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 should be recycled	
<ul> <li>Proper storage and site practices to minimise the</li> </ul>	^
potential for damage or contamination of	
construction materials	
Dredged Marine Sediment	
	^
The basic requirements and procedures for dredged mud	^
disposal are specified under the ETWB TCW No. 34/2002.	
The management of the dredging, use and disposal of	
marine mud is monitored by the MFC, while the licensing	
of marine dumping is required under the Dumping at Sea	
Ordinance and is the responsibility of the Director of	
Environmental Protection (DEP)	

disposal site	disposal site	The dredged marine sediments would be loaded onto barges and transported to the designated disposal sites allocated by the MFC depending on their level of contamination. Sediment classified as Category L would be suitable for Type 1 - Open Sea Disposal. Contaminated sediment would require either Type 1 - Open Sea Disposal (Dedicated Sites), Type 2 - Confined Marine Disposal, or Type 3 - Special Treatment / Disposal and must be dredged and transported with great care in accordance with ETWB TCW No. 34/2002. Subject to the final allocation of the disposal sites by MFC, the dredged contaminated sediment must be effectively isolated from the environment and disposed properly at the designated	^
		the environment and disposed properly at the designated disposal site	

It will be the responsibility of the contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, prior to the dredging contract being tendered. The contractor for the dredging works should apply for allocation of marine disposal sites and all necessary permits from relevant authorities for the disposal of dredged sediment. During transportation and disposal of the dredged marine sediments requiring Type 1, Type 2, or Type 3 disposal, the following measures should be taken to minimise potential impacts on water quality: · Bottom opening of barges should be fitted with tight fitting seals to prevent leakage of material. Excess material should be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved · Monitoring of the barge loading should be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels should be equipped with automatic selfmonitoring devices as required under the Dumping at Sea Ordinance and as specified by the DEP · Barges or hopper barges should not be filled to a Λ level that would cause the overflow of materials or sediment laden water during loading or transportation

Т	Control Description Market 1	
	Construction and Demolition Material	
	Mitigation measures and good site practices should be	
	incorporated into contract document to control potential	
	environmental impact from handling and transportation of	
	C&D material. The mitigation measures include:	
	<ul> <li>Where it is unavoidable to have transient</li> </ul>	
	stockpiles of C&D material within the Project work	
	site pending collection for disposal, the transient	^
	stockpiles should be located away from waterfront	
	or storm drains as far as possible	
	Open stockpiles of construction materials or	
	construction wastes on-site should be covered with	^
	tarpaulin or similar fabric	
	Skip hoist for material transport should be totally	
	enclosed by impervious sheeting	
	Every vehicle should be washed to remove any	^
	dusty materials from its body and wheels before	
	leaving a construction site	^
	The area where vehicle washing takes place and	
	PROPERTY AND THE PROPER	
	the section of the road between the washing	^
	facilities and the exit point should be paved with	
	concrete, bituminous materials or hardcores	
	The load of dusty materials carried by vehicle	
	leaving a construction site should be covered	^
	entirely by clean impervious sheeting to ensure	
	dust materials do not leak from the vehicle	
	<ul> <li>All dusty materials should be sprayed with water</li> </ul>	
	prior to any loading, unloading or transfer	^
	operation so as to maintain the dusty materials wet	
	<ul> <li>The height from which excavated materials are</li> </ul>	^
	dropped should be controlled to a minimum	^
	practical height to limit fugitive dust generation	
	from unloading	

When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Materials" should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.

#### Chemical Waste

After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation

#### General Refuse

General refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Effective collection and storage methods (including enclosed and covered area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing or leaching into the marine environment, or creating odour nuisance or pest and vermin problem

	CM1 All existing trees should be carefully protected during construction.	^
	CM2 Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.	^
Landscape and Visual	CM3 Control of night-time lighting.	N/A(1)
	CM4 Erection of decorative screen hoarding.	۸

Remarks:	^ Compliance of mitigation measure;	X Non-compliance of mitigation measure;
	N/A Not Applicable at this stage; N/A(1) Not observed;	•Non-compliance but rectified by the contractor;
	* Recommendation was made during site audit but improved/rectified by the contractor.	

APPENDIX L
SUMMARIES OF ENVIRONMENTAL
COMPLAINT, WARNING, SUMMON
AND NOTIFICATION OF SUCCESSFUL
PROSECUTION

### Contract No. KL/2010/03

Kai Tak Development – Stage 2 Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities

Reporting Month: March 2014

### Contract No. KL/2010/03

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

**Remarks**: No environmental complaint/warning/summon and prosecution were received in the reporting period.

### APPENDIX M WASTE GENERATED QUANTITY

Department: CEDD Contract No.: KL/2010/03

Project: KAI TAK DEVELOPMENT – STAGE 2 Infrastructure Works at North Apron Area of Kai

Tak Airport for Residential Development and Government Facilities



### **Monthly Summary Waste Flow Table for 2014**

As at 10 April 2014

	Total	Actual Quantities Inert C & D Materials Generated Monthly						Actual Quantities of C & D Wastes Generated Monthly					
Month	Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	`	Chemica	ıl Waste	Others, e.g. general refuse	
	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in kg)	(in kg)	(in kg)	Battery(No.)	Oil(in L)	(in m³)	
Accumulated (Jul 11-Dec	4985.82	7510	3280	0	601.99	0	0	0	0	0	0	153.83	
Jan'2014	35.07	150	120	0	0	0	0	0	0	0	0	5.07	
Feb'2014	-26.27	50	80	0	0	0	0	0	0	0	0	3.73	
Mar'2014	-14.48	0	20	0	0	0	0	0	0	0	0	5.52	
Apr'2014													
May'2014													
Jun'2014													
Sub-total													
(Jan 14-Jun 14)													
Jul'2014													
Aug'2014													
Sep'2014													
Oct'2014													
Nov'2014													
Dec'2014													
Total													

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*												
Total Quantity Generated		Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	`	Chemica	l Waste	Others, e.g. general refuse
	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in kg)	(in kg)	(in kg)	Battery(No.)	Oil(in L)	(in m³)
	4650	7000	3300	0	700	0	0	0	0	0	0	250

Notes:

- 1 The performance targets are given in PS clause 25.20A(4)
- 2 The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
- 3 Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
- 4 The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.20A(4)